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CONTENTS

	Page
Decisions of the Commissioner of Patents, March 2, 9, 16, 23, 30	5, 211, 413, 597, 765
Trade Marks Published and Registered, March 2, 9, 16, 23, 30	7, 215, 419, 601, 775
Reissues, March 2, 9, 16, 23, 30	25, 233, 439, 621, 795
Plant Patents, March 2, 9, 16, 23, 30	26, 235, 440, ——, ——
Patents, March 2, 9, 16, 23, 30	27, 236, 441, 623, 796
Designs, March 2, 9, 16, 23, 30	199, 398, 587, 749, 944

ANNOUNCEMENTS

	Page
Adverse Decisions (Interference)	1, 209, 595, 763
Applications, Condition of pending	2, 210, 412, 596, 764
Bulletin of Decisions on Trade Marks	768
Classification of Inventions, Changes in *Order No. 874*	416
Disclaimers, Parker, Richard C. et al.	595
Bonnet, Raymond P. et al.	411
Cameron, Hugh M.	595
Crawford, Thomas J.	763
Fisher, John H.	1
Jones, Charles (2 cases)	209
Ledwinka, Joseph	411
MacChesney, Chester M.	1
Noll, Austin R. (3 cases)	411, 595
Wallace, James M.	763
Weber, Mathias J.	595
Weber, Mathias J. et al.	595
Winograd, Harold	411
Drawings, Instructions re preparing, *Rule*	411
Erratum, Disclaimer, Pat. No. 2,012,138	209
Notice, Payment of fees	1
Patents, List of adjudicated	1, 209, 411, 595, 763
Patent Suits	5, 213, 599, 766
Trade Mark Registrations Canceled	766
Notice of Cancellation	1, 209, 763

TABLE OF CASES REPORTED

	Page
*Armstrong Manufacturing Co., The, v. The Ridge Tool Co.	212
*Bramley et al. v. Boese	597
*Effervescent Products, Inc., In re	765
*Island Road Bottling Co. v. Drink-Mor Beverage Co.	3
*Kepler, In re	211
*Ruzicka, In re	3
*Swenson et al., In re	413

*Decisions of the U. S. Court of Customs and Patent Appeals are indicated by a star (*).

THE

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PRINTED COPIES OF PATENTS are furnished by the Patent Office at 10 cents each. For the latter address the Commissioner of Patents, Washington, D. C.

CIRCULARS OF GENERAL INFORMATION concerning PATENTS or TRADE-MARKS will be sent without cost on request to the Commissioner of Patents, Washington, D. C.

CONTENTS

	Page
Issue of March 2, 1943	1
Notice of Cancellation	1
Notice Regarding Payment of Fees	1
Adjudicated Patents	1
Adverse Decisions in Interference	1
Disclaimers	1
Applications Under Examination	2
Decisions of the U. S. Courts	
Island Road Bottling Company v. Drink-Mor Beverage Company	3
In re Ruzicka	3
Patent Suits	5
Trade-Marks Published (81 Applications)	7
Trade-Mark Registrations Granted	17
Trade-Mark Registrations Renewed	21
Reissues	25
Plant Patents	26
Patents Granted	27
Designs	199

March 2, 1943

Trade-Marks	98	No. 400,293 to No.	400,390, inclusive.
T. M. Renewals	67		
Reissues	5	No. 22,278 to No.	22,282, inclusive.
Plant Patents	3	No. 568 to No.	570, inclusive.
Patents	734	No. 2,312,301 to No.	2,313,034, inclusive.
Designs	47	No. 135,135 to No.	135,181, inclusive.
Total	954		

Notice of Cancellation

U. S. PATENT OFFICE, *Richmond, Va., Feb. 5, 1943.*

H. & J. Leibowitz, Inc., its assigns or legal representatives, take notice.

A cancellation proceeding has been instituted by this Office upon the application of Hat Corporation of America, Van Zandt Street, Third District, Norwalk, Connecticut, to effect the cancellation of trade-mark registration of Herman Leibowitz, No. 138,396, dated December 21, 1920. The assignment records of this Office show a transfer of title to this registration to H. & J. Leibowitz, Inc., New York, New York, who has been substituted for said Herman Leibowitz to defend the registration concerned. The notice of such proceeding sent by registered mail to H. & J. Leibowitz, Inc., at the said address, having been returned by the post office as undeliverable, notice is hereby given that unless H. & J. Leibowitz, Inc., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Notice Regarding Payment of Fees

All fees must be paid in advance. Payment of money required for Office fees *must* be made in specie, Treasury notes, national-bank notes, post-office money orders, or certified checks. Money orders and checks must be made payable to the "Commissioner of Patents." Money sent by mail to the Patent Office will be at the risk of the sender. (See Rule 194.)

Certified checks, bank drafts, express and foreign money orders must be immediately negotiable in this country and for the full amount of the fee required by the Patent Office. No allowance can be made by this Office for any charge for their collection or exchange. Postage stamps will not be accepted. Failure to comply with the above instructions will cause delay.

Adjudicated Patents

(D. C. N. J.) Pipkin patent, No. 1,687,510, for electric-lamp bulb, *Held* invalid and not infringed. *General Electric Co. v. Jewel Incandescent Lamp Co.*, 47 F. Supp. 818.

(C. C. A. Tex.) Palmer and Kothny patent, No. 2,012,138, for method and apparatus for orienting whipstocks, claim 33 *Held* invalid. *Eastman Oil Well Survey Co. v. Sperry-Sun Well Surveying Co.*, 131 F.(2d) 884.

(C. C. A. Tex.) Hyer patent, No. 2,120,670, for method and apparatus for orienting tools, claims 1, 5, 6, and 7 *Held* valid and not infringed. *Id.*

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 2,182,004, H. J. Spencer, Strap tensioning and sealing device, decided January 16, 1943, claim 6.

Pat. 2,214,468, P. U. Lannerd, Projection device, decided February 3, 1943, claims 1, 5, 15 and 17.

Disclaimers

1,988,742. *Chester M. MacChesney*, Chicago, Ill. Strap seal. Patent dated January 22, 1935. Disclaimer filed February 8, 1943, by the assignee, *Acme Steel Company.*

Hereby enters this disclaimer to claims 1 and 2 in said specification.

2,271,292.—*John H. Fisher*, Jersey City, N. J. CONDENSER ANALYZER. Patent dated January 27, 1942. Disclaimer filed February 5, 1943, by the assignee, *Solar Manufacturing Corporation.*

Hereby enters this disclaimer to claims 5, 6, 7, 8, and 9 in said specification.

Conditions of Applications Under Examination at Close of Business February 13, 1943

(Total number of applications awaiting action, excluding Trade-Mark Division, 41,017; Trade-Mark Division, 859. Oldest new case, Mar. 25, 1942; oldest amended, Mar. 25, 1942.)
(The dates given are 1942 except where † indicates 1943)

Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action		No. of applications awaiting action
	New	Amended	
1. TUCKER, M. W., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Domestic Cooking Vessels; Sewerage.	Sept. 14	Oct. 1	400
2. HERRMANN, D., Fishing and Trapping; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering.	Sept. 14	Sept. 9	275
3. WOLFFE, S., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	Apr. 6	Apr. 11	1014
4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting.	Sept. 16	Sept. 14	415
5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps.	June 16	June 19	538
6. GENIESSE, E. W., Carbon Chemistry (part)	May 5	May 21	1076
7. JARBOE, C. G., Optics, Photography	June 22	June 25	997
8. ADAMS, F. L., Furniture; Kitchen and Table Articles; Racks and Cabinets	July 27	July 28	668
9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	Aug. 1	Aug. 7	688
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Sept. 15	Sept. 1	377
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Stop Mechanisms	Aug. 15	Sept. 2	350
13. DONNELLY, A. E., Metal Working (part); Gear Cutting, Milling and Planing; Needle and Pin Making	July 21	July 23	680
14. HANLIN, GEORGE, Metal Working (part); Farriery; Wire Fabrics	Oct. 19	Oct. 14	421
15. HENKIN, BENJ., Glass, Plastic Block and Earthenware Apparatus; Plastics	June 3	July 10	671
16. SPENCER, C. J., Telegraphy; Telephony	June 27	June 23	691
17. HABECKER, LEON B., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	May 12	May 12	710
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	July 1	July 8	599
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	June 3	May 28	684
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part).	Aug. 1	July 9	450
21. THOMPSON, T. J., Textiles	Sept. 12	Sept. 4	314
22. RINGLE, D., Aeronautics; Firearms; Ordnance and Explosive Devices	May 7	May 7	1651
23. BARROWS, B., Cash Registers; Calculators (part)	Aug. 20	Aug. 6	128
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	Aug. 16	Aug. 25	665
25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	July 15	July 21	572
26. YOUNG, R. R., Electricity—Generation and Motive Power	July 24	July 24	489
27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus.	June 24	June 26	617
28. SOLYOM, H. L., Internal-Combustion Engines (part); Cylinders and Pistons	June 4	May 11	536
29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Package and Article Carriers; Woodworking; Tools; Metal Working, Assembling.	Oct. 15	Oct. 12	350
30. McCANN, LEO P., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Oct. 14	Oct. 19	330
31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils	Aug. 19	Aug. 19	1315
32. LESH, K., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	Aug. 12	Aug. 12	671
33. HULL, J. S., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements	Aug. 26	July 20	584
34. SAPERSTEIN, S., Electricity—Meters and Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators.	Aug. 20	Aug. 21	318
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles	Aug. 22	June 18	715
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	Aug. 10	Aug. 26	424
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Oct. 19	Oct. 19	534
38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part)	Aug. 3	Aug. 13	684
39. WHITNEY, F. L., Fluid-Pressure Regulators; Valves; Water Distribution	Nov. 11	Nov. 17	309
40. DRUMMOND, E. J., Receptacles	Sept. 17	Sept. 11	473
41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles; Counters and Calculators (part); Typewriting Machines; Check-Controlled Apparatus.	Aug. 3	Aug. 11	439
42. MARANS, H., Electric Signaling	Aug. 21	Aug. 26	341
43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Azo Compounds.	Mar. 26	Mar. 25	996
44. HARVEY, L. P., Refrigeration	June 12	June 22	389
45. HILL, H. D., Shafting and Flexible Shaft Couplings; Wheels and Axles; Resilient Tires and Wheels; Lubrication; Bearings and Guides; Motors; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part).	Aug. 10	Aug. 25	722
46. BLEECKER, V. E., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Heating Systems; Coating Apparatus.	June 11	June 13	484
47. KANOF, WM. J., Clutches and Power Stops; Brakes; Boring and Drilling; Land Vehicles (part)	July 21	Aug. 13	966
48. ROEPKE, O. B., Electricity, General Applications; Igniters	Apr. 1	Apr. 7	737
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	Aug. 20	Aug. 12	599
50. LEVIN, SAMUEL, Resins; Rubber; Carbohydrates and Derivatives	July 15	July 15	1245
51. BACKUS, C. D., Radiant Energy	Aug. 1	Aug. 1	847
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits.	May 8	June 11	594
53. PECK, M. K., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Curtains, Shades and Screens; Cutlery.	Sept. 30	Oct. 5	200
54. STRACHAN, O. W., Electric Lamp and Discharge Devices (part)	July 16	Aug. 4	462
55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery	June 12	June 5	670
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Laminated Fabrics (part); Paper Making	July 7	July 18	896
57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Aug. 11	Sept. 2	348
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working	Oct. 7	Oct. 7	512
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds; Compositions (part).	Mar. 25	Mar. 31	1322
60. GLASS, R. L., Electricity, Heating and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Marine Propulsion; Consumable Electrode Lamp and Discharge Devices.	June 23	June 23	408
61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Laminated Electrical Insulation, Belt, Hose, Tire and Ball Making; Boats and Buoys.	July 8	July 6	655
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	Sept. 12	Aug. 27	424
63. WINKELSTEIN, A. H., Preserving; Poisons; Fermentation; Foods and Beverages; Proteins; Oils and Fats.	Apr. 23	May 2	1032
64. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Distillation; Fuel	Aug. 21	Aug. 20	1195
65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays.	July 21	July 14	628
Trade Marks: RICHMOND, F. A.	†Jan. 1	†Jan. 29	859
Designs: KALUPY, H. H.	†Jan. 20	†Jan. 29	524

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Allied Chemical & Dye Corporation, New York, N. Y. Roofing cement, bituminous base coating compositions for roofs and other construction purposes, pitch, etc. Serial No. 456,484; Mar. 2. Class 12.

American Art Works, Inc., The, Coshocton, Ohio. Advertising signs. Serial No. 456,256; Mar. 2. Class 50.

American Dental Company, Cleveland, Ohio. Dental materials for repairing teeth. Serial No. 457,621; Mar. 2. Class 44.

Atlantic Refining Company, The, Philadelphia, Pa. Lubricating oils. Serial No. 448,890; Mar. 2. Class 15.

Atlantic Refining Company, The, Philadelphia, Pa. Lubricating oils. Serial No. 448,896; Mar. 2. Class 15.

Atlas Imperial Diesel Engine Co., Oakland, Calif. Diesel engines and parts thereof. Serial No. 457,411; Mar. 2. Class 23.

Bach, Lesem, & Co. Incorporated, New York, N. Y. Piece goods. Serial No. 457,339; Mar. 2. Class 42.

Baehr, Eugene B., & Sons, New York, N. Y. Catheters. Serial No. 455,362; Mar. 2. Class 44.

Beaton, J. R., Co., Inc., New York, N. Y., assignor to Berkshire Knitting Mills, Wyomissing, Pa. Underwear, for girls and women. Serial No. 457,267; Mar. 2. Class 39.

Bemco Mfg. Co. (See Vincent, Otto J.)

Bendix Aviation Corporation, South Bend, Ind. Carburetors, governors, and accessories therefor. Serial No. 457,845; Mar. 2. Class 23.

Berkshire Knitting Mills. (See Beaton, J. R., Co., Inc., assignor.)

Berlé, Joseph L., New York, N. Y. Brassière. Serial No. 457,649; Mar. 2. Class 39.

Blue Buckle Overall Co. Inc., Lynchburg, Va. Overalls and overall jackets, band overalls and dungarees, work pants and shirts, etc., for men and boys. Serial No. 457,714; Mar. 2. Class 39.

Blue Suds Company, Detroit, Mich. Starch tablets. Serial No. 457,716; Mar. 2. Class 6.

Carmack, Edward S., doing business as Zip Manufacturing Company, Little Rock, Ark. Imitation flavoring extracts. Serial No. 457,892; Mar. 2. Class 46.

Carrara, Fernando, New York, N. Y. Caster hand trucks for moving heavy loads. Serial No. 456,417; Mar. 2. Class 19.

Celanese Corporation of America, New York, N. Y. Men's and boys' underwear and swimming trunks. Serial No. 457,769; Mar. 2. Class 39.

Celotex Corporation, The, Chicago, Ill. Adhesives for cementing or adhering together construction materials, and cements. Serial No. 449,669; Mar. 2. Class 12.

Charles Paint Research Co. (See Timmons, Lee R.)

Chicago Pharmacal Company, The, Chicago, Ill. Rubefacient for use in relieving the discomfort of sore, aching muscles, neuralgia, etc. Serial No. 457,379; Mar. 2. Class 6.

Colgate-Palmolive-Peet Company, Jersey City, N. J. Dental cream. Serial No. 456,680; Mar. 2. Class 6.

Comstock Canning Corporation, Newark, N. Y. Canned fruits and vegetables. Serial No. 457,413; Mar. 2. Class 46.

Conrad, Incorporated, St. Louis, Mo. Liqueurs. Serial No. 457,184; Mar. 2. Class 49.

Cook, Ralph, Cedar Lake, Ind. Column, scripts for monologues, dialogues, dramatic sketches, etc. Serial No. 457,029; Mar. 2. Class 38.

Coralite Dental Products Company, Chicago, Ill. Dental impression and reline material of methacrylate composition. Serial No. 457,740; Mar. 2. Class 44.

Cosmetics Inc., Nashville, Tenn. Make-up cream, complexion cream, complexion powder, etc. Serial No. 453,717; Mar. 2. Class 6.

Croasdale & Deangelis, Haverford Township, Pa. Windshields of transparent material not including glass. Serial No. 457,185; Mar. 2. Class 19.

Dell Publishing Company, Inc., New York, N. Y. Magazines. Serial No. 455,608; Mar. 2. Class 38.

Diamond Magnesium Company, Painesville, Ohio. Magnesium and magnesium alloys. Serial No. 457,361; Mar. 2. Class 14.

Effervescent Products, Inc., Elkhart, Ind. Alkaline effervescent tablets. Serial No. 430,126; Mar. 2. Class 6.

Fibus, Murray M., doing business as Steel City Manufacturing Co., Youngstown, Ohio. Beverage coolers. Serial No. 457,827; Mar. 2. Class 31.

Food Machinery Corporation, San Jose, Calif. Fruit coating solutions of waxy material. Serial No. 453,327; Mar. 2. Class 15.

Freedman, Chas., El Centro, Calif. Fresh vegetables. Serial No. 453,751; Mar. 2. Class 46.

Goodrich, B. F., Company, The, New York, N. Y., and Akron, Ohio. Pneumatic vehicle tires. Serial No. 450,227; Mar. 2. Class 35.

Goodwill Industry, Dr. J. Q. A. Martin, Incorporated, New Bern, N. C. Salve for treatment of sore muscles, aches and pains, and for external application in the treatment of colds. Serial No. 457,545; Mar. 2. Class 6.

Gristede Bros. Inc., New York, N. Y. Canned fish, canned fruits, canned fruit juices, etc. Serial No. 452,474; Mar. 2. Class 46.

Guardian Electric Manufacturing Co., Chicago, Ill. Control handles for aircraft and control wheels for aircraft. Serial No. 457,119; Mar. 2. Class 19.

Guggenheim, J. A., Co., The, Cleveland, Ohio. Men's and boys' shorts, caps, gloves, etc. Serial No. 449,577; Mar. 2. Class 39.

Hall Hardware Company, Minneapolis, Minn. Flat wall finish paint. Serial No. 456,798; Mar. 2. Class 16.

Hoyland Steel Company, Incorporated, New York, N. Y. Tool steel in the form of bars, billets, sheets, and strips. Serial No. 457,363; Mar. 2. Class 14.

Imperial Glass Corporation, Bellaire, Ohio. Glassware. Serial No. 457,244; Mar. 2. Class 33.

Industrial Engineering Co. Inc., Minneapolis, Minn. Burr trimming machines, cushioned cutter pilots, drill grinding fixture, etc. Serial No. 457,222; Mar. 2. Class 23.

Joseph, Victor, Co., New York, N. Y. Apples. Serial No. 457,831; Mar. 2. Class 46.

Kaynine Products. (See Walker, Wendell.)

Kleinert, I. B., Rubber Company, New York, N. Y. Slippers. Serial No. 450,231; Mar. 2. Class 39.

Kraus, Armin Joseph, North Bergen, N. J. Plastic and elastic substance useful as a rubber substitute. Serial No. 448,914; Mar. 2. Class 1.

Kuertz, Joseph P., doing business as Kuertz Food Products Co., assignor to Frank Poynter, Cincinnati, Ohio. Mayonnaise, oil salad dressings, sandwich spreads. Serial No. 457,546; Mar. 2. Class 46.

Lelong, Lucien, Inc., Chicago, Ill. Empty compact cases for both loose and caked powder. Serial No. 456,851; Mar. 2. Class 2.

Lifol Company. (See Wiggins, Myrtle Evans.)

Login Corporation, The, San Francisco, Calif. Food products. Serial No. 456,315; Mar. 2. Class 46.

Manhattan Shirt Company, The, New York, N. Y. Neckties. Serial No. 457,065; Mar. 2. Class 39.

Marsales Co. Inc., New York, N. Y. Gauze bandages and absorbent cotton for surgical and hospital use. Serial No. 456,946; Mar. 2. Class 44.

Miss America Brassiere Company, Chicago, Ill. Swim suits. Serial No. 435,600; Mar. 2. Class 39.

National Drug Company, The, Philadelphia, Pa. Product, which, when injected into the patient, produces and/or stimulates antitoxic and antibacterial substances. Serial No. 457,920; Mar. 2. Class 6.

Neville Company, The, Neville Island, Pittsburgh, Pa. Plasticizer courmarone-indene polymer compositions adapted for the weatherproofing of textile fabrics. Serial No. 457,066; Mar. 2. Class 6.

New England Box Company, The, Greenfield, Mass. Toboggans. Serial No. 450,209; Mar. 2. Class 22.

Pacific Huts, Inc., Seattle, Wash. Packaged structural elements for assembly into housing units. Serial No. 457,342; Mar. 2. Class 12.

Parker Brothers, Inc., Portland, Maine, and Salem, Mass. Game played with movable pieces. Serial No. 457,940; Mar. 2. Class 22.

Pedersen, Hayes N., Racine, Wis. Toy cards. Serial No. 457,708; Mar. 2. Class 22.

Plastic Products Company, Detroit, Mich. Elastic compound in the nature of putty or glazing composition for setting glass in wood sash. Serial No. 450,145; Mar 2. Class 16.

Poynter, Frank. (See Kuertz, Joseph P.)

Protexol Corporation, Kenilworth, N. J. Lumber impregnated to protect it against fire, decay and insect attack. Serial No. 456,807; Mar. 2. Class 12.

Recker, O. R., doing business as O. R. Recker Packing Co., Phoenix, Ariz. Fresh vegetables. Serial No. 457,300; Mar. 2. Class 46.

Renoir Parfums, Ltd., New York, N. Y. Perfumes and toilet water. Serial No. 457,657; Mar. 2. Class 6.

Rohm & Haas Company, Philadelphia, Pa. Mineral tanning material. Serial No. 457,782; Mar. 2. Class 6.

Safeway Stores, Inc., of Nevada, also doing business as Table Products Company, Reno, Nev., and Oakland, Calif. Chili sauce. Serial No. 456,570; Mar. 2. Class 46.

Seaman, Harry J., doing business as Seaman Motors, Milwaukee, Wis. Rotary plows. Serial No. 457,729; Mar. 2. Class 23.

Selby Shoe Company, The, Portsmouth, Ohio. Shoes. Serial No. 457,191; Mar. 2. Class 39.
Sharp & Dohme, Incorporated, Philadelphia, Pa. Glass bottles. Serial No. 438,998; Mar. 2. Class 33.
Siegel Brothers Kiki Maid Koats, Inc., New York, N. Y. Women's and misses' coats, suits, jackets, etc. Serial No. 457,644; Mar. 2. Class 39.
Silk Screen Supplies, Inc., Brooklyn, N. Y. Stencil cloth. Serial No. 451,368; Mar. 2. Class 42.
Sociedad Anonima Vinedos y Bodegas Arizu, Buenos Aires, Argentina. Brandy, anisette, liqueurs, etc. Serial No. 443,436; Mar. 2. Class 49.
Standard Mailing Machines Company, Everett, Mass, now by change of name Standard Duplicating Machines Corporation. Duplicating carbon paper. Serial No. 449,069; Mar. 2. Class 11.
Steel City Manufacturing Co. (See Fibus, Murray M.)
Sun-Rayed Co., The, Frankfort, Ind. Beverage type juice including tomato with celery. Serial No. 449,505; Mar. 2. Class 46.
Sylvania Industrial Corporation, Fredericksburg, Va., and New York, N. Y. Cellulose sausage casings. Serial Nos. 454,155–6; Mar. 2. Class 2.
Table Products Company. (See Safeway Stores, Inc., of Nevada.).
Timmons, Lee R., doing business as Charles Paint Research Co., Kansas City, Mo. Liquid cleaning and polishing compound. Serial No. 453,346; Mar. 2. Class 16.
Trio Curtain Corporation, New York, N. Y. Window curtains. Serial No. 454,956; Mar. 2. Class 42.
Turco Products, Inc., Los Angeles, Calif. Inhibitor for use in acid solutions in metal pickling and hard water scale removal operations. Serial No. 442,641; Mar. 2. Class 6.
Vad Corporation, The, New York, N. Y. Lipsticks and cleansing creams. Serial No. 456,328; Mar. 2. Class 6.
Vincent, Otto J., doing business as Bemco Mfg. Co., Seattle, Wash. Combination beverage coolers and dispensers, reach-in coolers and refrigerators, walk-in refrigerator cabinets, etc. Serial No. 450,129; Mar. 2. Class 31.
Walker, Wendell, doing business as Kaynine Products, Chicago, Ill. Compound for application to carpets and upholstery to prevent stains by dogs and cats. Serial No. 456,997; Mar. 2. Class 6.
Wallace & Tiernan Products, Inc., Belleville, N. J. Germicidal compositions. Serial No. 457,799; Mar. 2. Class 6.
Wiggins, Myrtle Evans, doing business as The Lifol Company, Tulsa, Okla. Permanent hair waving solution. Serial No. 453,502; Mar. 2. Class 6.
Wilson Brothers, Chicago, Ill. Men's and boys' sport jackets. Serial No. 457,487; Mar. 2. Class 39.
Wright-Dayton Company, The, Dayton, Ohio. Toy monoplanes. Serial No. 455,550; Mar. 2. Class 22.
Zip Manufacturing Company. (See Carmack, Edward S.)

LIST OF REGISTRANTS OF TRADE-MARKS

A. P. W. Paper Company, Inc. (See Albany Perforated Wrapping Paper Co.)
Addressograph-Multigraph Corporation, Cleveland, Ohio. Printing devices for use in addressing and similar machines. 400,366–7; Mar. 2; Serial Nos. 456,357–8; published Dec. 15, 1942. Class 23.
Alba Pharmaceutical Company, Inc., New York, N. Y. Medicinal preparation. 400,344; Mar. 2; Serial No. 456,114; published Dec. 15, 1942. Class 6.
Albanese, Arthur. (See Marvel Jewelry Mfg. Company, assignor.)
Albany Perforated Wrapping Paper Co., Albany, N. Y., by change of name to A. P. W. Paper Company, Inc. Toilet paper and paper towels. 170,308; renewed July 10, 1943.
Allegheny Ludlum Steel Corporation. (See Electric Alloy Steel Company, The, assignor.)
American Agricultural Chemical Company, The, assignor to The American Agricultural Chemical Company, New York, N. Y. Fertilizer. 163,734; renewed Jan. 23, 1943.
American Agricultural Chemical Company, The, assignor to The American Agricultural Chemical Company, New York, N. Y. Fertilizer. 164,855; renewed Feb. 27, 1943.
American Agricultural Chemical Co., The, assignor to The American Agricultural Chemical Company, New York, N. Y. Fertilizer. 166,380; renewed Apr. 3, 1943.
American Agricultural Chemical Company, The, assignor to The American Agricultural Chemical Company, New York, N. Y. Guano. 166,054; renewed Mar. 27, 1943.
American Bandage Corp., Chicago, Ill. Liquid protective coating used to coat the top layers of surgical bandages. 400,329; Mar. 2; Serial No. 455,495; published Dec. 15, 1942. Class 6.
American Coal Burner Company, Chicago, Ill. Natural or forced draft stokers. 400,390; Mar. 2. Class 34.
American Flexible Coupling Company, Erie, Pa. Shaft couplings. 400,386; Mar. 2. Class 23.
Arakelian, K., Inc., New York, N. Y. Wines. 400,298; Mar. 2; Serial No. 446,481; published Dec. 15, 1942. Class 47.
Atlantic Syrup Refining Co., assignor to William H. Burns, doing business as Atlantic Syrup Refining Company, Philadelphia, Pa. Table sirup. 164,927; renewed Feb. 27, 1943.
Baldwin, H. W., doing business as Baldwin Laboratories, Saegertown, Pa. Insect killer, insecticides and compositions for exterminating insects. 400,337; Mar. 2; Serial No. 455,744; published Dec. 15, 1942. Class 6.
Bar Mart Inc., The, New York, N. Y. Magazine and catalogue. 400,350; Mar. 2; Serial No. 455,497; published Dec. 22, 1942. Class 38.
Bayer-Semesan Company. (See du Pont, E. I., de Nemours & Company, assignor.)
Beckwith Company, The, Reedley, to Planada Packers, Planada, Calif., successor. Preserved fruits. 161,918; renewed Nov. 28, 1942.
Beeman, George W., doing business as The Detroit Toy Co., Grosse Pointe, Mich. Painting sets. 400,356; Mar. 2; Serial No. 456,267; published Dec. 22, 1942. Class 22.
Bemis Associates Inc., Watertown, Mass. Thermoplastic adhesive films and fabrics. 400,324; Mar. 2; Serial No. 454,552; published Dec. 22, 1942. Class 5.
Bigalow, Harlan F., doing business as Hub Products Co., Cleveland, Ohio. Soothing cream for skin irritations. 400,303; Mar. 2; Serial No. 447,780; published Dec. 15, 1942. Class 6.
Birdsell Laboratories, Inc., South Bend, Ind. Motor driven razors mechanically vibrating a razor blade mounted therein by a spring motor. 400,319; Mar. 2; Serial No. 453,531; published Dec. 15, 1942. Class 23.
Bissell, Frederick, doing business as The National Super Service Company, Toledo, Ohio. Electric vacuum cleaners. 400,370; Mar. 2; Serial No. 456,446; published Dec. 22, 1942. Class 21.
Blessing Hearing Aid Company, The, Peabody, Mass. Electrically amplified hearing aid devices. 400,380; Mar. 2. Class 44.
Brollier, Parke D., doing business as Parke-Lee Products Co., Lorain, Ohio. Flaxseed nutritional food preparation in granulated form. 400,314; Mar. 2; Serial No. 452,707; published Dec. 22, 1942. Class 46.
Buffalo Specialty Company, Buffalo, N. Y., by change of name to Liquid Veneer Corporation. Drain solvents. 163,029; renewed Jan. 2, 1943.
Bulova Watch Company, Inc., New York, N. Y. Watches. 400,346; Mar. 2; Serial No. 456,212; published Dec. 22, 1942. Class 27.
Burns, William H. (See Atlantic Syrup Refining Co., assignor.)
Burpee, W. Atlee, Co., Philadelphia, Pa. Vegetable seeds. 170,627; renewed July 17, 1943.
Burson Knitting Company, Rockford, Ill. Hosiery. 164,775; renewed Feb. 27, 1943.
Burt, F. N., Company, Limited, assignor to F. N. Burt Company, Inc., Buffalo, N. Y. Paper boxes. 164,402; renewed Feb. 20, 1943.
Burt, F. N., Company, Limited, assignor to F. N. Burt Company, Inc., Buffalo, N. Y. Paper boxes. 169,502–3; renewed June 19, 1943.
Capitol Tire & Rubber Co., Inc., Boston, Mass. Petroleum products. 400,297; Mar. 2; Serial No. 442,000; published Dec. 8, 1942. Class 15.
Caulk, L. D., Company, The, Milford, Del. Dental alloy. 166,521; renewed Apr. 3, 1943.
Chesebrough Manufacturing Company, Consolidated, New York, N. Y. Petroleum jelly and preparations thereof. 167,907; renewed May 8, 1943.
Cleveland Twist Drill Company, The, Cleveland, Ohio. Metal-working small tools. 169,822; renewed July 3, 1943.
Clopay Corporation, Cincinnati, Ohio. Window covering on the order of a Venetian blind. 400,387; Mar. 2. Class 32.
Courtaulds, Limited, London, England. Yarns of cellulose. 400,309; Mar. 2; Serial No. 450,714; published Apr. 21, 1942. Class 43.
Crystal, David, Inc., New York, N. Y. Ladies' and misses' dresses and dress ensembles. 400,340; Mar. 2; Serial No. 455,861; published Dec. 15, 1942. Class 39.
Crystalear, Inc., Chicago, Ill. Electrically operable hearing aids for aiding the hearing of persons with impaired hearing. 400,368; Mar. 2; Serial No. 456,382; published Dec. 22, 1942. Class 44.
Cyclo Gear Company Limited, Birmingham, England. Variable gears for cycles and cars. 400,305; Mar. 2; Serial No. 448,448; published Dec. 15, 1942. Class 23.
Davis, A., & Sons, Inc., New York, N. Y. Knitted woolen jersey fabrics in the piece. 400,318; Mar. 2; Serial No. 453,433; published Dec. 15, 1942. Class 42.

Detroit Stoker Company, Detroit, Mich. Fuel stokers. 400,388; Mar. 2. Class 34.
Detroit Toy Co., The. (See Beeman, George W.)
Dunbar, Ernest A., doing business as Dunbar & Nairn, Glasgow, Scotland. Cardigans, pullovers, jumpers, etc. 400,310; Mar. 2; Serial No. 450,875; published Dec 15, 1942. Class 39.
Du Pont, E. I., de Nemours & Company, assignor to Bayer Semesan Company, Wilmington, Del. Fungicide, seed disinfectant, and general disinfectant. 169,853; renewed July 3, 1943.
Dutra, John F., doing business as Galtra Manufacturing Co., to John F. Dutra, doing business as Galtra Manufacturing Co., Fall River, Mass., successor. Furniture polish having incidental properties as a metal polish. 169,577; renewed June 26, 1943.
Electric Alloy Steel Company, The, Youngstown, Ohio, assignor, by mesne assignments, to Allegheny Ludlum Steel Corporation, Pittsburgh, Pa. Steel. 162,065; renewed Dec. 5, 1942.
Electric Alloy Steel Company, The, Youngstown, Ohio, assignor, by mesne assignments, to Allegheny Ludlum Steel Corporation, Pittsburgh, Pa. Steel. 162,067; renewed Dec. 5, 1942.
Ely, W. Newbold, Ambler, Pa. Trade magazine 400,323; Mar. 2; Serial No. 454,033; published Dec. 22, 1942. Class 38.
Ephraim Sanitary Canning Company, Ephraim, assignor to Rocky Mountain Packing Corporation, Salt Lake City, Utah. Canned vegetables. 166,570; renewed Apr. 10, 1943.
Ephraim Sanitary Canning Company, Ephraim, assignor to Rocky Mountain Packing Corporation, Salt Lake City, Utah. Canned vegetables. 170,654; renewed July 17, 1943.
Esmond Mills, The, assignor to The Esmond Mills, Inc., Esmond, R. I. Textile fabrics. 165,805; renewed Mar. 20, 1943.
Faber, David H., doing business as Plane Facts, Inc., New York, N. Y. Printed and pictorial charts. 400,339; Mar. 2; Serial No. 455,842; published Dec. 22, 1942. Class 38.
Farbenfabriken vorm. Friedr. Bayer & Co., Leverkusen, near Cologne-on-the-Rhine, Germany, by merger to Winthrop Chemical Company, Inc., New York, N. Y. Antineuralgics. 170,274; renewed July 10, 1943.
Farbenfabriken vorm. Friedr. Bayer & Co., Leverkusen, near Cologne-on-the-Rhine, Germany, by merger to Winthrop Chemical Company, Inc., New York, N. Y. Haemostatics. 170,275; renewed July 10, 1943.
Farbenfabriken vorm. Friedr. Bayer & Co., Leverkusen, near Cologne-on-the-Rhine, Germany, by merger to Winthrop Chemical Company, Inc., New York, N. Y. Parasiticides. 170,276–7; renewed July 10, 1943.
Finkl, A., & Sons Company, Chicago, Ill. Hot work die steels, and forgings for dies, punches, and inserts. 400,379; Mar. 2. Class 14.
Galtra Manufacturing Co. (See Dutra, John F.)
General Chemical Company, New York, N. Y. Calcium sulfate for use as a pigment extender and other purposes. 400,306; Mar. 2; Serial No. 448,785; published Jan. 13, 1942. Class 6.
Gilmore Petroleum Company, assignor to Gilmore Oil Company, Los Angeles, Calif. Volatile compound derived from petroleum. 169,975; renewed July 10, 1943.
Godefroy, Charles W., assignor to Godefroy Manufacturing Company, St. Louis, Mo. Face powders, face bleaches, and liquid face rouge. 169,879; renewed July 3, 1943.
Goodyear Tire & Rubber Company, The, Akron, Ohio. Adhesive cement. 400,375; Mar. 2; Serial No. 456,627; published Dec. 22, 1942. Class 5.
Griswold Manufacturing Company, The, Erie, Pa. Dutch ovens. 170,475; renewed July 17, 1943.
Hanlon & Goodman Company, New York, N. Y., to Hanlon & Goodman Co., Belleville, N. J. Paint, varnish, and calcimine brushes. 164,979–80; renewed Feb. 27, 1943.
Hanlon & Goodman Company, New York, N. Y., to Hanlon & Goodman Co., Belleville, N. J. Paint, varnish, and calcimine brushes. 165,000; renewed Feb. 27, 1943.
Happiness Magazine. (See Reisman, Monroe.)
Hasketlite Manufacturing Corporation, Chicago, Ill. Table board game. 400,327; Mar. 2; Serial No. 455,416; published Dec. 22, 1942. Class 22.
Health Products Corporation, New York, N. Y., assignor to White Laboratories, Inc., Newark, N. J. Laxative chewing gum. 170,434; renewed July 17, 1943.
Heller, B., & Company, Chicago, Ill. Disinfectant and deodorizers. 169,836; renewed July 3, 1943.
Heller, B., & Company, Chicago, Ill. Chemical preparation. 169,837; renewed July 3, 1943.
Herrschner, Frederick, doing business as Victory Vitamin Co., Chicago, Ill. Preparation of product in tablet or powdered form for human consumption. 400,331; Mar. 2; Serial No. 455,563; published Dec. 15, 1942. Class 6.
Hicks, W. Wesley, assignor, by mesne assignments, to Wesix Electric Heater Co., San Francisco, Calif. Electric heating apparatus. 169,966; renewed July 10, 1943.
Hobdell, Way and Company, Limited, London, assignor to Raw Asbestos Distributors Ltd., Spotland, Rochdale, England. Crude asbestos. 167,527; renewed May 1, 1943.
Honorbilt Products, Inc., Philadelphia, Pa. Bed and couch foundations. 400,338; Mar. 2; Serial No. 455,800; published Dec. 22, 1942. Class 32.
Horwitz & Duberman, New York, N. Y. Women's and girls' dresses. 400,332; Mar. 2; Serial No. 455,564; published Dec. 15, 1942. Class 39.
Houghton, E. F., & Co., assignor to E. F. Houghton & Co., Philadelphia, Pa. Unguents. 22,443; renewed Feb. 7, 1943.
Hub Products Co. (See Bigalow, Harlan F.)
Jaeger's, Dr., Sanitary Woolen System Co., New York, N. Y., assignor, by mesne assignments, to The Jaeger Company, Ltd., London, England. Knitted and woven wearing-apparel. 138,267; renewed Dec. 21, 1940.
Kellogg, Spencer, and Sons, Inc., Buffalo, N. Y. Paint oils, and specifically raw and boiled linseed oil. 400,315; Mar. 2; Serial No. 452,963; published Dec. 22, 1942. Class 16.
Kellogg, Spencer, and Sons, Inc., Buffalo, N. Y. Paint oils, and specifically raw and boiled linseed oil. 400,365; Mar. 2; Serial No. 456,340; published Dec. 22, 1942. Class 16.
Kennington, J. B., doing business as Textile Apron Company, East Point, Ga. Long draft leather aprons. 400,372; Mar. 2; Serial No. 456,534; published Dec. 22, 1942. Class 35.
Kleinkramer, Simon, doing business as Perfumery Lybozo, New York, N. Y. Perfume, hand cream, cold cream, etc. 400,378; Mar. 2. Class 6.
Knox Company, The, Los Angeles, Calif. Medicinal preparations. 400,347; Mar. 2; Serial No. 456,216; published Dec. 15, 1942. Class 6.
Kono, Alexander, doing business as Kono Manufacturing Company, Woodside, Long Island, N. Y. Eyeglass and spectacle frames and parts therefor. 400,369; Mar. 2; Serial No. 456,397; published Dec. 22, 1942. Class 26.
Larus & Brother Company, Inc., Richmond, Va. Smoking tobacco and cigarettes. 400,357; Mar. 2; Serial No. 456,271; published Dec. 22, 1942. Class 17.
Lichterman, Daniel B., doing business as Swift Importing Co., Chicago, Ill. Wine cordials. 400,307; Mar. 2; Serial No. 449,284; published Dec. 22, 1942. Class 47.
Lido Luggage Co., Inc., New York, N. Y. Hand luggage. 400,342–3; Mar. 2; Serial Nos. 456,021–2; published Dec. 22, 1942. Class 3.
Lightfoot, Schultz, Company, Hoboken, N. J., to Lightfoot Schultz Co., New York, N. Y. Toilet preparations. 169,845; renewed July 3, 1943.
Liquid Veneer Corporation. (See Buffalo Specialty Company.)
Lombardy Wine Corp. of New York, New York, N. Y. Wines. 400,295; Mar. 2; Serial No. 433,689; published Mar. 31, 1942. Class 47.
Macy, R. H., & &Co., Inc., New York, N. Y. Coats, bathing suits, capes, children's dresses, infants' dresses, sleeveless dresses, and one-piece straight-line dresses. 166,608; renewed Apr. 10, 1943.
Mallory, P. R., & Co., Inc., Indianapolis, Ind. Metallurgical products. 400,385; Mar. 2. Class 14.
Marut, Charles, doing business as Przewodnik Katolicki (The Catholic Leader), New Britain, Conn. Newspaper. 400,316; Mar. 2; Serial No. 453,141; published Dec. 15, 1942. Class 38.
Marvel Jewelry Mfg. Company, Providence, R. I. Jewelry. 400,333; Mar. 2; Serial No. 455,629; published Dec. 22, 1942. Class 28.
McBee Company, The, Athens, Ohio. Blank forms. 400,299; Mar. 2; Serial No. 447,523; published Dec. 22, 1942. Class 37.
Meeter's, Inc., Lansing, Ill. Canned sauer kraut and sauer kraut juice. 400,345; Mar. 2; Serial No. 456,192; published Dec. 22, 1942. Class 46.
Merck & Co., New York, N. Y., assignor to Merck & Co., Inc., Rahway, N. J. Chemical preparation used in X-ray examinations. 165,022; renewed Feb. 27, 1943.
Merck & Co., New York, N. Y., assignor to Merck & Co., Inc., Rahway, N. J. Preparation used as an antispasmodic. 165,023; renewed Feb. 27, 1943.
Merrell, Donald, & Company, Wyoming, Ohio. Pharmaceutical preparations. 400,373; Mar. 2; Serial No. 456,537; published Dec. 15, 1942. Class 6.
Metz, H. A., Laboratories, Inc., to Winthrop Chemical Company, Inc., New York, N. Y. Astringents and mild antiseptics. 170,191; renewed July 10, 1943.
Mineral rock. Philadelphia and Reading Coal and Iron Company. 400,348; Mar. 2; Serial No. 456,223; published Dec. 22, 1942. Class 1.
Murtha, Thomas F. (See R. C. Importation Corporation, assignor.)
Mutual Orange Distributors, Redlands, Calif. Canned citrus fruit juice concentrate. 400,377; Mar. 2. Class 45.
National Fireworks Manufacturing Company, The, Boston and West Hanover, to National Fireworks, Inc., West Hanover, Mass., successor. Fireworks. 170,131; renewed July 10, 1943.
National Super Service Company, The. (See Bissell, Frederick.)
Nelson, Julius, Corp., New York, N. Y. Ladies' and misses' coats, suits, jackets, etc. 400,363; Mar. 2; Serial No. 456,322; published Dec. 15, 1942. Class 39.

Nion Corporation, Los Angeles, Calif. All vitamin capsule. 400,358; Mar. 2; Serial No. 456,273; published Dec. 15, 1942. Class 6.
North American Rayon Corporation, New York, N. Y. Thread and yarn of artificial origin. 400,351–4; Mar. 2; Serial Nos. 456,243–6; published Dec. 15, 1942. Class 43.
Ott, Joe, Manufacturing Co., Chicago, Ill. Miniature flying plane building kits. 400,308; Mar. 2; Serial No. 450,314; published Dec. 22, 1942. Class 22.
Owl Drug Company, The, assignor to The Owl Drug Co., San Francisco, Calif. Gasoline and benzine. 164,709; renewed Feb. 27, 1943.
Parke-Lee Products Co. (See Brollier, Parke D.)
Pastene Wine & Spirits Co., Inc., Boston, Mass. Wines. 400,328; Mar. 2; Serial No. 455,459; published Dec. 22, 1942. Class 47.
Peninsular Paper Company, Ypsilanti, Mich. Cover paper. 169,182; renewed June 12, 1943.
Perfumery Lybozo. (See Kleinkramer, Simon.)
Philadelphia and Reading Coal and Iron Company, The, Philadelphia, Pa. Mineral rock. 400,348; Mar. 2; Serial No. 456,223; published Dec. 22, 1942. Class 1.
Planada Packers. (See Beckwith Company, The.)
Plane Facts, Inc. (See Faber, David H.)
Plant Rubber & Asbestos Works, San Francisco, Calif. Magnesia heat insulating material, pipe covering, and blocks. 400,381–2; Mar. 2. Class 12.
Pond's Extract Company, New York, N. Y. Face powder and rouge. 400,362; Mar. 2; Serial No. 456,295; published Dec. 15, 1942. Class 6.
Pond's Extract Company, New York, N. Y. Skin freshener and cream lotion. 400,361; Mar. 2; Serial No. 456,294; published Dec. 15, 1942. Class 6.
Pond's Extract Company, New York, N. Y. Skin freshener and tonic, liquefying cream, cream lotion, etc. 400,349; Mar. 2; Serial No. 456,224; published Dec. 15, 1942. Class 6.
Pond's Extract Company, New York, N. Y. Skin freshener, cream lotion, face powder, etc. 400,360; Mar. 2; Serial No. 456,293; published Dec. 15, 1942. Class 6.
Potts-Curry Investment Co., Salt Lake City, Utah. Rubber belting and rubber chute lining. 400,300–2; Mar. 2; Serial Nos. 447,764–6; published Dec. 22, 1942. Class 35.
Przewodnik Katolicki (The Catholic Leader). (See Marut, Charles.)
R. C. Importation Corporation, New York, assignor to Thomas F. Murtha, Flushing, Long Island, N. Y. Cigars, cigarettes, and smoking tobacco. 170,231; renewed July 10, 1943.
Rad Chemical Co., Chicago, Ill. Tonic herb tea in leaf form for the alleviation of digestive and rheumatic disorders. 400,389; Mar. 2. Class 6.
Raw Asbestos Distributors Ltd. (See Hobdell, Way and Company, Limited, assignor.)
Reisman, Monroe, doing business as Happiness Magazine, New York, N. Y. Periodical. 400,313; Mar. 2; Serial No. 452,697; published Dec. 15, 1942. Class 38.
Rhinopto Company, Dallas, Tex. Ear drops. 400,359; Mar. 2; Serial No. 456,274; published Dec. 15, 1942. Class 6.
Rocky Mountain Packing Corporation. (See Ephriam Sanitary Canning Company, assignor.)
Sanderson Brothers & Newbould Limited, Sheffield, England. Machinery, and tools and parts thereof. 166,854; renewed Apr. 17, 1943.
San Marino Wine Corporation, New York, N. Y. Wine. 400,322; Mar. 2; Serial No. 453,928; published Dec. 22, 1942. Class 47.
Schick, Harry C., Inc., Newark, N. J. Necklace clasps and fasteners. 167,785; renewed May 8, 1943.
Schneider, Lou, Inc., New York, N. Y. Misses' coats and suits. 400,364; Mar. 2; Serial No. 456,326; published Dec. 15, 1942. Class 39.
Schrafft, W. F., & Sons Corporation, Boston, Mass. Candies. 170,113; renewed July 10, 1943.
Scientific Products Corporation, Los Angeles, Calif. Liquid fire extinguishing agent. 400,325; Mar. 2; Serial No. 455,109; published Dec. 15, 1942. Class 6.
Seabass Products, Inc., New York, N. Y. Salad dressing. 164,643; renewed Feb. 27, 1943.
Sherwood Refining Company, Inc., Brooklyn, N. Y., assignor to Sherwood Refining Company, Inc., Englewood, N. J. White mineral oil for medicinal purposes. 170,198–9; renewed July 10, 1943.
Smith, Basil L., System, Inc., The, assignor to Basil L. Smith System, Philadelphia, Pa. Completely-printed classified-advertising forms and instruction sheets. 169,054; renewed June 5, 1943.
Snap-On Tools Corporation, Kenosha, Wis. Mechanical and hydraulic jacks. 400,312; Mar. 2; Serial No. 452,174; published Dec. 15, 1942. Class 23.
Special Chemicals Corporation, New York, N. Y. Metal plating preparation designed to impart a simulated or imitation gold plate finish. 400,320; Mar. 2; Serial No. 453,858; published Dec. 15, 1942. Class 6.
Speed Products Company, Long Island City, N. Y. Stapling machines, tackers, and pliers. 400,294; Mar. 2; Serial No. 430,466; published June 25, 1940. Class 23.
Spiegel, Inc., Chicago, Ill. Radio receiving sets and tubes, and storage and dry cell batteries. 400,293; Mar. 2; Serial No. 419,638; published July 25, 1939. Class 21.
Standard Rice Company, Inc., Houston, Tex. Rice. 400,296; Mar. 2; Serial No. 435,564; published Dec. 24, 1940. Class 46.
Star Oil Company, The, Chicago, Ill. Lubricating oils. 166,120; renewed Mar. 27, 1943.
Staynew Filter Corporation, Rochester, N. Y. Air filters. 167,664; renewed May 8, 1943.
Strasenburgh, R. J., Company, Rochester, N. Y. Tonic 170,031; renewed July 10, 1943.
Sutcliffe, Speakman & Company Limited, Leigh, England. Pressing, grinding, and elevating machinery; brick, concrete, and cement-making machinery. 166,235; renewed Mar. 27, 1943.
Swift Importing Co. (See Lichterman, Daniel B.)
Texas Pharmacal Company, San Antonio, Tex. Vaginal douche. 400,355; Mar. 2; Serial No. 456,253; published Dec. 15, 1942. Class 6.
Textile Apron Company, (See Kennington, J. B.)
Thompson, Henry G., & Son Company, The, New Haven, Conn. Tool bits. 400,374; Mar. 2; Serial No. 456,574; published Dec. 15, 1942. Class 23.
Time, Incorporated, New York, N. Y. Motion picture films, sound films, combined sound and motion picture films, etc. 400,311; Mar. 2; Serial No. 451,695; published Dec. 22, 1942. Class 26.
Transradio News Features, Inc., New York, N. Y. Periodical. 400,376; Mar. 2; Serial No. 456,677; published Dec. 22, 1942. Class 38.
Turbanway, Inc., New York, N. Y. Hair waving solutions. 400,371; Mar. 2; Serial No. 456,478; published Dec. 15, 1942. Class 6.
Union Manufacturing Co., Frederick, Md. Hosiery. 166,015; renewed Mar. 27, 1943.
United Laboratories, Incorporated, Cleveland, Ohio. Fire extinguishing powder. 400,350; Mar. 2; Serial No. 456,226; published Dec. 15, 1942. Class 6.
Universal Flashlight Co. Inc., Washington, D. C. Electric flashlights. 400,384; Mar. 2. Class 21.
Vacolite Company, Dallas, Tex. Acoustical measuring instruments, instruments for measuring and testing individual hearing characteristics, etc., and parts thereof. 400,334; Mar. 2; Serial No. 455,637; published Dec. 22, 1942. Class 26.
Vacolite Company, Dallas, Tex. Acoustical measuring instruments, instruments for measuring and testing individual hearing characteristics, etc., and parts thereof. 400,336; Mar. 2; Serial No. 455,740; published Dec. 22, 1942. Class 26.
Victory Sparkler & Specialty Co., assignor to Victory Fireworks & Specialty Company, Elkton, Md. Fireworks. 163,923; renewed Feb. 6, 1943.
Victory Vitamin Co. (See Herrschner, Frederick.)
Voorhess Rubber Mfg. Co., Jersey City, N. J., assignor, by mesne assignments, to Voorhess Rubber Mfg. Co., Inc., New York, N. Y. Hose, belting, and packing. 170,255; renewed July 10, 1943.
W-K-M Company, Inc., Houston, Tex. Gate valves, sucker rod hangers, rotary slips, etc. 400,326; Mar. 2; Serial No. 455,385; published Dec. 22, 1942. Class 23.
Ward, Samuel, Manufacturing Company, Boston, Mass. Writing paper and envelopes. 168,604; renewed May 29, 1943.
Wesix Electric Heater Co. (See Hicks, W. Wesley, assignor.)
West Virginia Pulp & Paper Company, New York, N. Y. Book paper. 167,105; renewed Apr. 24, 1943.
Westinghouse Air Brake Company, The, Wilmerding, Pa. Pneumatic horns and air raid alarm equipments. 400,317; Mar. 2; Serial No. 453,189; published Dec. 15, 1942. Class 23.
Wheaton, D. L., Los Angeles, Calif. Industrial posters. 400,341; Mar. 2; Serial No. 455,991; published Dec. 22, 1942. Class 38.
Wheeler Manufacturing Co., Berkeley, Calif. Sport caps, rooters' caps, and college hats. 163,205; renewed Jan. 2, 1943.
White Laboratories, Inc. (See Health Products Corporation, assignor.)
White-Stokes Company, Inc., Chicago, Ill. Marshmallow preparations used as inner layers or filling for candy, icings and toppings for cakes, etc. 400,335; Mar. 2; Serial No. 455,715; published Dec. 22, 1942. Class 46.
Whitlock Cordage Co., Jersey City, N. J., and New York, N. Y. Rope. 170,548; renewed July 17, 1943.
Winthrop Chemical Company, Inc. (See Farbenfabriken vorm. Friedr. Bayer & Co.)
Winthrop Chemical Company, Inc. (See Metz, H. A., Laboratories, Inc.)
Wool Novelty Co. Inc., New York, N. Y. Knitting yarn. 400,321; Mar. 2; Serial No. 453,904; published Sept. 8, 1942. Class 43.
Worthman, Irving, Brooklyn, N. Y. Paper kerchiefs impregnated with a medicament used in the treatment of head colds. 400,383; Mar. 2. Class 6.
Yawman and Erbe Manufacturing Company, Rochester, N. Y. Index tabs. 400,304; Mar. 2; Serial No. 448,377; published Jan. 20, 1942. Class 37.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Crude asbestos. Hobdell, Way and Company. 167,527; renewed May 1, 1943.
Seeds, Vegetable. W. Atlee Burpee Co. 170,627; renewed July 17, 1943.

CLASS 2

Boxes, Paper. F. N. Burt Company. 164,402; renewed Feb. 20, 1943.
Boxes, Paper. F. N. Burt Company. 169,502–3; renewed June 19, 1943.

CLASS 3

Luggage, Hand. Lido Luggage Co. 400,342–3; Mar. 2; Serial Nos. 456,021–2; published Dec. 22, 1942.

CLASS 5

Adhesive films and fabrics, Thermoplastic. Bemis Associates Inc. 400,324; Mar. 2; Serial No. 454,552; published Dec. 22, 1942.
Cement, Adhesive. Goodyear Tire & Rubber Company. 400,375; Mar. 2; Serial No. 456,627; published Dec. 22, 1942.

CLASS 6

Agent, Liquid fire extinguishing. Scientific Products Corporation. 400,325; Mar. 2; Serial No. 455,109; published Dec. 15, 1942.
Antineuralgics. Farbenfabriken vorm. Friedr. Bayer & Co. 170,274; renewed July 10, 1943.
Astringents and mild antiseptics. H. A. Metz Laboratories, Inc. 170,191; renewed July 10, 1943.
Calcium sulfate. General Chemical Company. 400,306; Mar. 2; Serial No. 448,785; published Jan. 13, 1942.
Chemical preparation. B. Heller & Company. 169,837; renewed July 3, 1943.
Chemical preparation used in X-ray examinations. Merck & Co. 165,022; renewed Feb. 27, 1943.
Coating used to coat the top layers of surgical bandages, Liquid protective. American Bandage Corp. 400,329; Mar. 2; Serial No. 455,495; published Dec. 15, 1942.
Cream for skin irritations, Soothing. H. U. Bigalow. 400,303; Mar. 2; Serial No. 447,780; published Dec. 15, 1942.
Disinfectant and deodorizers. B. Heller & Company. 169,836; renewed July 3, 1943.
Douche, Vaginal. Texas Pharmacal Company. 400,355; Mar. 2; Serial No. 456,253; published Dec. 15, 1942.
Ear drops. Rhinopto Company. 400,359; Mar. 2; Serial No. 456,274; published Dec. 15, 1942.
Fire extinguishing powder. United Laboratories, Incorporated. 400,350; Mar. 2; Serial No. 456,226; published Dec. 15, 1942.
Fungicide, seed disinfectant, and general disinfectant. E. I. du Pont de Nemours & Company. 169,853; renewed July 3, 1943.
Haemostatics. Farbenfabriken vorm. Friedr. Bayer & Co. 170,275; renewed July 10, 1943.
Hair waving solutions. Turbanway, Inc. 400,371; Mar. 2; Serial No. 456,478; published Dec. 15, 1942.
Insect killer, insecticides and compositions for exterminating insects. H. W. Baldwin. 400,337; Mar. 2; Serial No. 455,744; published Dec. 15, 1942.
Laxative chewing gum. Health Products Corporation. 170,434; renewed July 17, 1943.
Medicinal preparation. Alba Pharmaceutical Company. 400,344; Mar. 2; Serial No. 456,114; published Dec. 15, 1942.
Medicinal preparation. Knox Company. 400,347; Mar. 2; Serial No. 456,216; published Dec. 15, 1942.
Mineral oil for medicinal purposes, White. Sherwood Petroleum Company. 170,198–9; renewed July 10, 1943.
Paper kerchiefs impregnated with a medicant used in the treatment of head colds. I. Worthman. 400,383; Mar. 2.
Parasiticides. Farbenfabriken vorm. Friedr. Bayer & Co.. 170,276–7; renewed July 10, 1943.
Perfume, hand cream, cold cream, etc. S. Kleinkramer. 400,378; Mar. 2.
Petroleum jelly and preparations thereof. Chesebrough Manufacturing Company, Consolidated. 167,907; renewed May 8, 1943.
Pharmaceutical preparations. Donald Merrell & Company. 400,373; Mar. 2; Serial No. 456,537; published Dec. 15, 1942.
Powder and rouge, Face. Pond's Extract Company. 400,362; Mar. 2; Serial No. 456,295; published Dec. 15, 1942.
Powders, face bleaches, and liquid face rouge, Face. C. W. Godefroy. 169,879; renewed July 3, 1943.
Preparation designed to impart a simulated or imitation gold plate finish, Metal plating. Special Chemicals Corporation. 400,320; Mar. 2; Serial No. 453,858; published Dec. 15, 1942.
Preparation or product in tablet or powdered form for human consumption. F. Herrschner. 400,331; Mar. 2; Serial No. 455,563; published Dec. 15, 1942.
Preparation used as an antispasmodic. Merck & Co. 165,023; renewed Feb. 27, 1943.
Skin freshener and cream lotion. Pond's Extract Company. 400,361; Mar. 2; Serial No. 456,294; published Dec. 15, 1942.
Skin freshener and tonic, liquefying cream, cream lotion, etc. Pond's Extract Company. 400,349; Mar. 2; Serial No. 456,224; published Dec. 15, 1942.
Skin freshener, cream lotion, face powder, etc. Pond's Extract Company. 400,360; Mar. 2; Serial No. 456,293; published Dec. 15, 1942.
Solvents, Drain. Buffalo Specialty Company. 163,029; renewed Jan. 2, 1943.
Toilet preparations. Lightfoot Schultz Company. 169,845; renewed July 3, 1943.
Tonic. R. J. Strasenburgh Company. 170,031; renewed July 10, 1943.
Tonic herb tea in leaf form for the alleviation of digestive and rheumatic disorders. Rad Chemical Co. 400,389; Mar. 2.
Unguents. E. F. Houghton & Co. 22,443; re-renewed Feb. 7, 1943.
Vitamin capsule, All. Nion Corporation. 400,358; Mar. 2; Serial No. 456,273; published Dec. 15, 1942.

CLASS 7

Rope. Whitlock Cordage Co. 170,548; renewed July 17, 1943.

Class 9

Fireworks. National Fireworks Manufacturing Company. 170,131; renewed July 10, 1943.
Fireworks. Victory Sparkler & Specialty Co. 163,923; renewed Feb. 6, 1943.

CLASS 10

Fertilizer. American Agricultural Chemical Company. 163,734; renewed Jan. 23, 1943.
Fertilizer. American Agricultural Chemical Company. 164,855; renewed Feb. 27, 1943.
Fertilizer. American Agricultural Chemical Co. 166,380; renewed Apr. 3, 1943.
Guano. American Agricultural Chemical Company. 166,054; renewed Mar. 27, 1943.

CLASS 12

Insulating material, pipe covering, and bocks, Magnesia heat. Plant Rubber & Asbestos Works. 400,381–2; Mar. 2.

CLASS 13

Ovens, Dutch. Griswold Manufacturing Company. 170,475; renewed July 17, 1943.

CLASS 14

Die steels, and forgings for dies, punches, and inserts, Hot work. A. Finkl & Sons Company. 400,379; Mar. 2.
Metallurgical products. P. R. Mallory & Co. 400,385; Mar. 2.
Steel, Electric Alloy Steel Company. 162,065; renewed Dec. 5, 1942.
Steel, Electric Alloy Steel Company. 162,067; renewed Dec. 5, 1942.

CLASS 15

Gasoline and benzine. Owl Drug Company. 164,709; renewed Feb. 27, 1943.
Oils, Lubricating. Star Oil Company. 166,120; renewed Mar. 27, 1943.
Petroleum products. Capitol Tire & Rubber Co. 400,297; Mar. 2; Serial No. 442,000; published Dec. 8, 1942.
Volatile compound derived from petroleum. Gilmore Petroleum Company. 169,975; renewed July 10, 1943.

CLASS 16

Paint oils, and specifically raw and boiled linseed oil. Spencer Kellogg and Sons, Inc. 400,315; Mar. 2; Serial No. 452,963; published Dec. 22, 1942.
Paint oils, and specifically raw and boiled linseed oil. Spencer Kellogg and Sons, Inc. 400,365; Mar. 2; Serial No. 456,340; published Dec. 22, 1942.
Polish having incidental properties as a metal polish, Furniture. J. F. Dutra. 169,577; renewed June 26, 1943.

CLASS 17

Cigars, cigarettes, and smoking tobacco. R. C. Importation Corporation. 170,231; renewed July 10, 1943.
Tobacco and cigarettes, Smoking. Larus & Brother Company. 400,357; Mar. 2; Serial No. 456,271; published Dec. 22, 1942.

CLASS 21

Electric heating apparatus. W. W. Hicks. 169,966; renewed July 10, 1943.
Electric vacuum cleaners. F. Bissell. 400,370; Mar. 2; Serial No. 456,446; published Dec. 22, 1942.

Flashlights, Electric. Universal Flashlight Co. Inc. 400,384; Mar. 2.
Radio receiving sets and tubes, and storage and dry cell batteries. Spiegel, Inc. 400,293; Mar. 2; Serial No. 419,638; published July 25, 1939.

CLASS 22

Game, Table board. Haskelite Manufacturing Corporation. 400,327; Mar. 2; Serial No. 455,416; published Dec. 22, 1942.
Painting sets. G. W. Beeman. 400,356; Mar. 2; Serial No. 456,267; published Dec. 22, 1942.
Plane-building kits, Miniature flying. Joe Ott Manufacturing Co. 400,308; Mar. 2; Serial No. 450,314; published Dec. 22, 1942.

CLASS 23

Bits, Tool. Henry G. Thompson & Son Company. 400,374; Mar. 2; Serial No. 456,574; published Dec. 15, 1942.
Couplings, Shaft. American Flexible Coupling Company. 400,386; Mar. 2.
Gate valves, sucker rod hangers, rotary slips, etc. W-K-M Company. 400,326; Mar. 2; Serial No. 455,385; published Dec. 22, 1942.
Gears for cycles and cars, Variable. Cyclo Gear Company Limited. 400,305; Mar. 2; Serial No. 448,448; published Dec. 15, 1942.
Horns, and air raid alarm equipment, Pneumatic. Westinghouse Air Brake Company. 400,317; Mar. 2; Serial No. 453,189; published Dec. 15, 1942.
Jacks, Mechanical and hydraulic. Snap-On Tools Corporation. 400,312; Mar. 2; Serial No. 452,174; published Dec. 15, 1942.
Machinery, and tools and parts thereof. Sanderson Brothers & Newbould Limited. 166,854; renewed Apr. 17, 1943.
Metal-working small tools. Cleveland Twist Drill Company. 169,822; renewed July 3, 1943.
Pressing, grinding, and elevating machinery; brick, concrete, and cement-making machinery. Sutcliffe, Speakman & Company Limited. 166,235; renewed Mar. 27, 1943.
Printing devices for use in addressing and similar machines. Addressograph-Multigraph Corporation. 400,366–7; Mar. 2; Serial Nos. 456,357–8; published Dec. 15, 1942.
Razors mechanically vibrating a razor blade mounted therein by a spring motor, Motor driven. Birdsell Laboratories, Inc. 400,319; Mar. 2; Serial No. 453,531; published Dec. 15, 1942.
Stapling machines, tackers, and pliers. Speed Products Company. 400,294; Mar. 2; Serial No. 430,466; published June 25, 1940.

CLASS 26

Eyeglass and spectacle frames and parts therefor. A. Kono. 400,369; Mar. 2; Serial No. 456,397; published Dec. 22, 1942.
Measuring instruments, instruments for measuring and testing individual hearing characteristics, etc., and parts thereof, Acoustical measuring. Vacolite Company. 400,334; Mar. 2; Serial No. 455,637; published Dec. 22, 1942.
Measuring instruments, instruments for measuring and testing individual hearing characteristics, etc., and parts thereof, Acoustical measuring. Vacolite Company. 400,336; Mar. 2; Serial No. 455,740; published Dec. 22, 1942.
Motion picture films, sound films, combined sound and motion picture films, etc. Time, Incorporated. 400,311; Mar. 2; Serial No. 451,695; published Dec. 22, 1942.

CLASS 27

Watches. Bulova Watch Company. 400,346; Mar. 2; Serial No. 456,212; published Dec. 22, 1942.

CLASS 28

Jewelry. Marvel Jewelry Mfg. Company. 400,333; Mar. 2; Serial No. 455,629; published Dec. 22, 1942.
Necklace clasps and fasteners. Harry C. Schick, Inc. 167,785; renewed May 8, 1943.

CLASS 29

Brushes, Paint, varnish, and calcimine. Hanlon & Goodman Company. 164,979–80; renewed Feb. 27, 1943.
Brushes, Paint, varnish, and calcimine. Hanlon & Goodman Company. 165,000; renewed Feb. 27, 1943.

CLASS 31

Filters, Air. Staynew Filter Corporation. 167,664; renewed May 8, 1943.

CLASS 32

Bed and couch foundations. Honorbilt Products, Inc. 400,338; Mar. 2; Serial No. 455,800; published Dec. 22, 1942.
Window covering on the order of a Venetian blind. Clopay Corporation. 400,387; Mar. 2.

CLASS 34

Stokers, Fuel. Detroit Stoker Company. 400,388; Mar. 2.
Stokers, Natural or forced draft. American Coal Burner Company. 400,390; Mar. 2.

CLASS 35

Belting and rubber chute lining, Rubber. Potts-Curry Investment Co. 400,300–2; Mar. 2; Serial Nos. 447,764–6; published Dec. 22, 1942.
Hose, belting, and packing. Voorhess Rubber Mfg. Co. 170,255; renewed July 10, 1943.
Leather aprons, Long draft. J. B. Kennington. 400,372; Mar. 2; Serial No. 456,534; published Dec. 22, 1942.

CLASS 37

Blank forms. McBee Company. 400,299; Mar. 2; Serial No. 447,523; published Dec. 22, 1942.
Index tabs. Yawman and Erbe Manufacturing Company. 400,304; Mar. 2; Serial No. 448,377; published Jan. 20, 1942.
Paper and envelopes, Writing. Samuel Ward Manufacturing Company. 168,604; renewed May 29, 1943.
Paper and paper towels, Toilet. Albany Perforated Wrapping Paper Co. 170,308; renewed July 10, 1943.
Paper, Book. West Virginia Pulp & Paper Company. 167,105; renewed Apr. 24, 1943.
Paper, Cover. Peninsular Paper Company. 169,182; renewed June 12, 1943.

CLASS 38

Charts, Printed and pictorial. D. H. Faber. 400,339; Mar. 2; Serial No. 455,842; published Dec. 22, 1942.
Forms and instruction sheets, Completely-printed classified-advertising. Basil L. Smith System, Inc. 169,054; renewed June 5, 1943.
Magazine and catalogue. Bar Mart Inc. 400,330; Mar. 2; Serial No. 455,497; published Dec. 22, 1942.
Magazine, Trade. W. N. Ely. 400,323; Mar. 2; Serial No. 454,033; published Dec. 22, 1942.
Newspaper. C. Marut. 400,316; Mar. 2; Serial No. 453,141; published Dec. 15, 1942.
Periodical. M. Reisman. 400,313; Mar. 2; Serial No. 452,697; published Dec. 15, 1942.
Periodical. Transradio News Features, Inc. 400,376; Mar. 2; Serial No. 456,677; published Dec. 22, 1942.
Posters, Industrial. D. L. Wheaton. 400,341; Mar. 2; Serial No. 455,991; published Dec. 22, 1942.

CLASS 39

Caps, rooters' caps, and college hats, Sport. Wheeler Manufacturing Co. 163,205; renewed Jan. 2, 1943.
Cardigans, pullovers, jumpers, etc. E. A. Dunbar. 400,310; Mar. 2; Serial No. 450,875; published Dec. 15, 1942.
Coats and suits, Misses'. Lou Schneider, Inc. 400,364; Mar. 2; Serial No. 456,326; published Dec. 15, 1942.
Coats, bathing suits, capes, children's dresses, infants' dresses, sleeveless dresses, and one-piece straight-line dresses. R. H. Macy & Co. 166,608; renewed Apr. 10, 1943.
Coats, suits, jackets, etc., Ladies' and misses'. Julius Nelson Corp. 400,363; Mar. 2; Serial No. 456,322; published Dec. 15, 1942.
Dresses and dress ensembles, Ladies' and misses'. David Crystal, Inc. 400,340; Mar. 2; Serial No. 455,861; published Dec. 15, 1942.
Dresses, Women's and girls'. Horwitz & Duberman. 400,332; Mar. 2; Serial No. 455,564; published Dec. 15, 1942.
Hosiery. Burson Knitting Company. 164,775; renewed Feb. 27, 1943.
Hosiery. Union Manufacturing Co. 166,015; renewed Mar. 27, 1943.
Wearing-apparel, Knitted and woven. Dr. Jaeger's Sanitary Woolen System Co. 138,267; renewed Dec. 21, 1940.

CLASS 42

Knitted woolen jersey fabrics in the piece. A. Davis & Sons, Inc. 400,318; Mar. 2; Serial No. 453,433; published Dec. 15, 1942.

CLASS 43

Fabrics, Textile. Esmond Mills. 165,805; renewed Mar. 20, 1943.
Thread and yarn of artificial origin. North American Rayon Corporation. 400,351–4; Mar. 2; Serial Nos 456,243–6; published Dec. 15, 1942.
Yarn, Knitting. Wool Novelty Co. Inc. 400,321; Mar. 2; Serial No. 453,904; published Sept. 8, 1942.
Yarns of cellulose. Courtaulds, Limited. 400,309; Mar. 2; Serial No. 450,714; published Apr. 21, 1942.

CLASS 44

Dental alloy. L. D. Caulk Company. 166,521; renewed Apr. 3, 1943.
Electrically operable hearing aids for aiding the hearing of persons with impaired hearing. Crystalear, Inc. 400,368; Mar. 2; Serial No. 456,382; published Dec. 22, 1942.

Hearing aid devices, Electrically amplified. Blessing Hearing Aid Company. 400,380; Mar. 2.

CLASS 45

Canned citrus fruit juice concentrate. Mutual Orange Distributors. 400,377; Mar. 2.

CLASS 46

Candies. W. F. Cehrafft & Sons Corporation. 170,113; renewed July 10, 1943.
Canned sauer kraut and sauer kraut juice. Meeter's, Inc. 400,345; Mar. 2; Serial No. 456,192; published Dec. 22, 1942.
Canned vegetables. Ephriam Sanitary Canning Company. 166,570; renewed Apr. 10, 1943.
Canned vegetables. Ephraim Sanitary Canning Company. 170,654; renewed July 17, 1943.
Food preparation in granulated form, Flaxseed nutritional. P. D. Brollier. 400,314; Mar. 2; Serial No. 452,707; published Dec. 22, 1942.
Fruits, Preserved. Beckwith Company. 161,918; renewed Nov. 28, 1942.
Marshmallow preparations used as inner layers or filling for candy, leings and toppings for cakes, etc. White-Stokes Company. 400,335; Mar. 2; Serial No. 455,715; published Dec. 22, 1942.
Rice. Standard Rice Company. 400,296; Mar. 2; Serial No. 435,564; published Dec. 24, 1940.
Salad dressing. Seebass Products, Inc. 164,643; renewed Feb. 27, 1943.
Sirup, Table. Atlantic Syrup Refining Co. 164,927; renewed Feb. 27, 1943.

CLASS 47

Wine. San Marino Wine Corporation. 400,322; Mar. 2; Serial No. 453,928; published Dec. 22, 1942.
Wine cordials. D. B. Lichterman. 400,307; Mar. 2; Serial No. 449,284; published Dec. 22, 1942.
Wines. K. Arakelian, Inc. 400,298; Mar. 2; Serial No. 446,481; published Dec. 15, 1942.
Wines. Lombardy Wine Corp. of New York. 400,295; Mar. 2; Serial No. 433,689; published Mar. 31, 1942.
Wines. Pastene Wine & Spirits Co. 400,328; Mar. 2; Serial No. 455,459; published Dec. 22, 1942.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 2D DAY OF MARCH, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Borg-Warner Corporation. (See Orr, Palmer, assignor.)

Fergason, Rector C. (See Hyman, B. M., and Fergason.)

Greulich, Gerald G., Mount Lebanon, Pa. Grating structure. Re. 22,278; Mar. 2.

Hyman, Benjamin M., Moline, Ill., and R. C. Fergason, La Porte, Ind., assignors to International Harvester Company. Corn picker. Re. 22,279; Mar. 2.

International Harvester Company. (See Hyman, B. M., and Fergason, assignors.)

Lord Manufacturing Company. (See Lord, Thomas, assignor.)

Lord, Thomas, assignor, by mesne assignments, to Lord Manufacturing Company, Erie, Pa. Rubber joint. Re. 22,280; Mar. 2.

Orr, Palmer, Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill. Transmission synchronizer. Re. 22,281; Mar. 2.

Swartz, Carl E., Shaker Heights, assignor, by mesne assignments, to S. K. Wellman Company, Cleveland, Ohio. Bonding powdered metallic material. Re. 22,282; Mar. 2.

Wellman, S. K., Company. (See Swartz, Carl E., assignor.)

LIST OF PLANT INVENTIONS

De Vor, Paul, Pleasanton, Calif., assignor to Jackson & Perkins Company, Newark, N. Y. Rose plant. 569; Mar. 2.

Drain, Brooks D., assignor to The University of Tennessee Research Corporation, Knoxville, Tenn. Strawberry plant. 570; Mar. 2.

Grullemans, John J., Painesville, assignor to The Wayside Gardens Company, Mentor, Ohio. Hypericum. 568; Mar. 2.

Jackson & Perkins Company. (See De Vor, Paul, assignor.)

University of Tennessee Research Corporation, The. (See Drain, Brooks D., assignor.)

Wayside Gardens Company, The. (See Grullemans, John J., assignor.)

LIST OF DESIGN PATENTEES

Allen, Valerie R., New York, N. Y. Separable robe or similar article. 135,135; Mar. 2.

Amberg File and Index Company. (See Amberg, Gilbert W., assignor.)

Amberg, Gilbert W., assignor to Amberg File and Index Company, Kankakee, Ill. Phonograph record cabinet. 135,147; Mar. 2.

Aron, M., Corporation. (See Aron, Morris, assignor.)

Aron, Morris, South Norwalk, Conn., assignor to M. Aron Corporation, New York, N. Y. Display card or similar article. 135,136; Mar. 2.

Butler, Noble C. (See Steinbicker, C. G., and Butler.)

Cadwallader, Robert, Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Automobile. 135,148; Mar. 2.

Chrysler Corporation. (See Cadwallader, Robert, assignor.)

Comptois, Gedeon R., New York, N. Y. Tobacco pipe. 135,149; Mar. 2.

Cottrell, Walker C., Jr., and A. S. Ganzert, Jr., Richmond, Va., and M. J. Shapp, Silver Spring, Md. Portable sound amplification unit. 135,150; Mar. 2.

Crossland, Clarence J., et al. (See Williams, John H., assignor.)

Cusick, Charles F., New York, and P. Marraccini, Bronx, N. Y. Service picture frame. 135,151; Mar. 2.

Eich, Clementine M., St. Cloud, Minn. Smock or similar article. 135,137; Mar. 2.

Eubanks, Floyd G., assignor of forty-seven and one-half per cent to F. E. Vaughan, Pasadena, and five per cent to R. M. McManigal, Compton, Calif. Compass. 135,138; Mar. 2.

Flood, Patrick E., et al. (See Williams, John H., assignor.)

Frank, Charles H., New Rochelle, N. Y. Button. 135,168; Mar. 2.

Frenger, Clarrajay, Las Cruces, N. Mex. Combined cake and candle holder. 135,152; Mar. 2.

Ganzert, Alexander S., Jr. (See Cottrell, W. C., Jr., Ganzer, Jr., and Shapp.)

Geiger, John P., et al. (See Smith, Merton J., assignor.)

Genco Mfg. Co. (See Gensburg, Louis W., assignor.)

Gensburg, Louis W., assignor to Genco Mfg. Co., Chicago, Ill. Flashlight case. 135,153; Mar. 2.

Godfrey, Lena. (See Godfrey, Ralph M. and L.)

Godfrey, Ralph M. and L., Lima, Ohio. Photographing cabinet. 135,139; Mar. 2.

Goldfrank, John, New York, N. Y. Embroidered trimming. 135,163; Mar. 2.

Guardian Electric Manufacturing Co. (See Obszarny, T., and Rowell, assignors.)

Hamre, Marion R., Oceanside, N. Y. Fabric. 135,144; Mar. 2.

Hartley, Frank S., New York, N. Y. Brooch or similar article. 135,145; Mar. 2.

Hat Corporation of America. (See Maxwell, P. M., and Russy, assignors.)

Huff, Basil D., New York, N. Y. Buckle. 135,154; Mar. 2.

Huff, Basil D., New York, N. Y. Flexible sandal. 135,155; Mar. 2.

International Plastic Corporation. (See Schieman, Gustave, assignor.)

Kotzin, Adolph A., Chicago, Ill. Shoe sole. 135,156; Mar. 2.

Laughlin, Alice D., Gloucester, Mass. Pin or similar article. 135,157; Mar. 2.

Lipic, Jos., Pen Co. (See Lipic, Joseph G., Jr., assignor.)

Lipic, Joseph G., Jr., assignor to Jos. Lipic Pen Co., St. Louis, Mo. Desk ornament or similar article. 135,164; Mar. 2.

Marraccini, Philip. (See Cusick, C. F., and Marraccini.)

Maxwell, Paul M., Manhasset, N. Y., and W. J. Russy, Jersey City, N. J., assignors to Hat Corporation of America, Norwalk, Conn. Hat. 135,146; Mar. 2.

McManigal, Robert M., et al. (See Eubanks, Floyd G., assignor.)

Miller, Henry M., assignor to Scovill Manufacturing Company, Waterbury, Conn. Spanner wrench. 135,158; Mar. 2.

National Tile Company. (See Steinbicker, C. G., and Butler, assignors.)

Neary, Francis B., Rochester, assignor to Shuron Optical Company, Inc., Geneva, N. Y. Pair of spectacles. 135,140; Mar. 2.

Obszarny, Thedore, Chicago, and J. J. Rowell, Prospect Heights, assignors to Guardian Electric Manufacturing Co., Chicago, Ill. Airplane control wheel. 135,167; Mar. 2.

Parke, Alfred, Oak Park, Ill., assignor to W. L. Stensgaard & Associates, Inc. Scooter. 135,159; Mar. 2.

Philippe, Alfred, Cranston, R. I. Brooch or similar article. 135,169; Mar. 2.

Philippe, Alfred, Cranston, R. I. Brooch or similar article. 135,170; Mar. 2.

Philippe, Alfred, Cranston, R. I. Brooch or similar article. 135,171; Mar. 2.

Philippe, Alfred, Cranston, R. I. Brooch or similar article. 135,172; Mar. 2.

Philippe, Alfred, Cranston, R. I. Brooch or similar article. 135,173; Mar. 2.

Philippe, Alfred, Cranston, R. I. Brooch or similar article. 135,174; Mar. 2.

Philippe, Alfred, Cranston, R. I. Brooch or similar article. 135,175; Mar. 2.

Philippe, Alfred, Cranston, R. I. Brooch or similar article. 135,176; Mar. 2.

Philippe, Alfred, Cranston, R. I. Brooch or similar article. 135,177; Mar. 2.

Reynolds, Edwin, Vineland, N. J. Temple member for spectacles or similar article. 135,141; Mar. 2.
Richards, Julia, New York, N. Y. Dress. 135,178; Mar. 2.
Richards, Julia, New York, N. Y. Dress. 135,179; Mar. 2.
Rowell, John J. (See Obszerny, T., and Rowell.)
Russy, Wilhelmina J. (See Maxwell, P. M., and Russy.)
Schieman, Gustave, Bronx, N. Y., assignor to International Plastic Corporation, Morristown, N. J. Tape dispenser. 135,165; Mar. 2.
Scovill Manufacturing Company. (See Miller, Henry M., assignor.)
Shannon, Paul B., et al. (See Smith, Merton J., assignor.)
Shapp, Milton J. (See Cottrell, W. C., Jr., Ganzer, Jr., and Shapp.)
Sheaffer, W. A., Pen Company. (See Stempel, Herman K., assignor.)
Shuron Optical Company. (See Neary, Francis B., assignor.)
Smith, Merton J., Cleveland, Ohio, assignor of twenty-five per cent to P. B. Shannon, Chicago, Ill., twenty-five per cent to J. P. Geiger, Cleveland, and twenty-five per cent to R. W. Wilson, Rocky River, Ohio. Engine controlling mechanism. 135,166; Mar. 2.
Steinbicker, Cyril G., and N. C. Butler, assignors to The National Tile Company, Incorporated, Anderson, Ind. Grate for fireplaces or the like. 135,160; Mar. 2.
Stempel, Herman K., assignor to W. A. Sheaffer Pen Company, Fort Madison, Iowa. Pour-out bottle cap. 135,161; Mar. 2.
Stensgaard, W. L., & Associates, Inc. (See Parke, Alfred, assignor.)
Sutcliffe, Harry L., New York, N. Y. Shoe. 135,142; Mar. 2.
Vaughan, F. E. (See Eubanks, Floyd G., assignor.)
Weekley, Thomas J., Jacobsburg, Ohio. Expanding sleeve hanger. 135,143; Mar. 2.
Williams, John H., assignor of one-third to P. E. Flood and one-third to C. J. Crossland, Zanesville, Ohio. Service pin. 135,162; Mar. 2.
Wilson, Robert W., et al. (See Smith, Merton J., assignor.)
Zahn, Samuel, New York, N. Y. Dress. 135,180; Mar. 2.
Zahn, Samuel, New York, N. Y. Dress. 135,181; Mar. 2.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 2D DAY OF MARCH, 1943

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Aamodt, Martin A. H., Oslo, Norway; vested in the Alien Property Custodian. Card index system, filing system, and the like. 2,312,302; Mar. 2.
Abercrombie Pump Company. (See Allen, Herbert, assignor.)
Abribat, Marcel M. B., Vincennes, France; vested in the Alien Property Custodian. Treating materials. 2,313,007; Mar. 2.
Acousticwall Limited. (See Rankin, Kenneth S., assignor.)
Adamsson, Emil G., Chicago, Ill. Toothbrush. 2,312,828; Mar. 2.
Addonisio, Joseph A., Brooklyn, N. Y. Garment. 2,312,860; Mar. 2.
Adel Precision Products Corporation. (See Ellinwood, Herman R., assignor.)
Air Reduction Company. (See Balcar, Frederick R., assignor.)
Aircraft Tools Inc. (See Weaver, Walter W., assignor.)
Aktiebolaget Facit. (See Carlstrom, Bengt, assignor.)
Aktiengesellschaft Brown, Boveri & Cie. (See Meyer, Hans, assignor.)
Albany Felt Company. (See Gordon, Carlton C., assignor.)
Albrecht, Otto. (See Graenacher, C., Sallmann, and Albrecht.)
Alder, Ellen. (See Ericksson, Emil, assignor.)
Alfol Insulation Company. (See Grassick, Donald D., assignor.)
Alfol Insulation Company. (See Turner, C., and Brady, assignors.)
Alien Property Custodian. (See Aamodt, Martin A. H.)
Alien Property Custodian. (See Abribat, Marcel M. B.)
Alien Property Custodian. (See Anxionnaz, R., and Imbett, assignors.)
Alien Property Custodian. (See Berger, H., and Herriger.)
Alien Property Custodian. (See Bethenod, Joseph.)
Alien Property Custodian. (See Bolk, Willem.)
Alien Property Custodian. (See Bouwers, Albert.)
Alien Property Custodian. (See Brudal, Holger.)
Alien Property Custodian. (See Coredes, Hugo.)
Alien Property Custodian. (See de Kadt, George S.)
Alien Property Custodian. (See de Langen, Lambertus H.)
Alien Property Custodian. (See Duwe, August.)
Alien Property Custodian. (See Ebel, F., and Pyzik.)
Alien Property Custodian. (See Franz, Anselm.)
Alien Property Custodian. (See Garnier, Gustave.)
Alien Property Custodian. (See Gilli, P., and Velan.)
Alien Property Custodian. (See Groger, Rudolf.)
Alien Property Custodian. (See Haack, Erich.)
Alien Property Custodian. (See Hagen, Wolfgang.)
Alien Property Custodian. (See Hahn, Arthur.)
Alien Property Custodian. (See Hauguel, Robert.)
Alien Property Custodian. (See Herbin, Oscar.)
Alien Property Custodian. (See Hesse, Holger I., assignor.)
Alien Property Custodian. (See Horenstein, S. H., and Pahlicke.)
Alien Property Custodian. (See Hurum, Fredrik.)
Alien Property Custodian. (See Julien, Maurice F. A.)
Alien Property Custodian. (See Julien, M. F. A., and Rocard.)
Alien Property Custodian. (See Kopf, E., and Wasmuht.)
Alien Property Custodian. (See Koschmieder, Kurt.)
Alien Property Custodian. (See Krause, Friedrich.)
Alien Property Custodian. (See Lentz, Anton.)
Alien Property Custodian. (See Lierg, Friedrich.)
Alien Property Custodian. (See Lohse, Julius.)
Alien Property Custodian. (See Lucan, Fritz.)
Alien Property Custodian. (See Mathieu, Frédéric.)
Alien Property Custodian. (See Mennesson, Marcel.)
Alien Property Custodian. (See Mercier, Jean.)
Alien Property Custodian. (See Meyer, Gustav.)
Alien Property Custodian. (See Nougarou, Jacques.)
Alien Property Custodian. (See Nussbaum, Ferdinand.)
Alien Property Custodian. (See Orth, Hans.)
Alien Property Custodian. (See Regnier, Jean L.)
Alien Property Custodian. (See Reutter, Jean-L.)
Alien Property Custodian. (See Robitschek, Jan.)
Alien Property Custodian. (See Rottmayr, Friedrich.)
Alien Property Custodian. (See Ruegger, André.)
Alien Property Custodian. (See Salomon, François M. M. B.)
Alien Property Custodian. (See Scharfnagel, Rudolf.)
Alien Property Custodian. (See Schlack, Paul.)
Alien Property Custodian. (See Schoenbeck, F., and Czapp.)
Alien Property Custodian. (See Schueller, Eugène.)
Alien Property Custodian. (See Siegmann, Fredrich, assignor.)
Alien Property Custodian. (See Siemens, A., von Bertele, and Burgsmüller.)
Alien Property Custodian. (See Tauschek, Gustav.)
Alien Property Custodian. (See Ufnowski, Waclaw.)
Alien Property Custodian. (See Ulrich, V., and Diener, assignors.)
Alien Property Custodian. (See van der Ziel, A., and Knol.)
Alien Property Custodian. (See van der Ziel, A., Strutt, and Knol.)
Alien Property Custodian. (See Weitzel, Robert A. L., assignor.)
Alien Property Custodian. (See Zdansky, Ewald.)
Alien Property Custodian. (See Zodtner, Heinrich.)
Alix, Elmer C., assignor to Charlton Woolen Company, Charlton, Mass. Feeler device for looms. 2,312,515; Mar. 2.
Alldredge, Marshall H., Detroit, Mich., assignor to Thompson Products Incorporated, Cleveland, Ohio. Joint assembly. 2,312,516; Mar. 2.
Allen, Herbert, assignor to Abercrombie Pump Company, Houston, Tex. System of gauging pressures. 2,312,787; Mar. 2.
Allen, S. L., & Co. (See Haagen, Charles W., assignor.)
Allen, Thomas M., assignor to Bantam Bearings Corporation, South Bend, Ind. Bearing assembly means. 2,312,615; Mar. 2.
Allison, Leslie R., Forest Hills, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,312,303; Mar. 2.
Alloy Processes Limited. (See Gentil, Henri L., assignor.)
Altgelt, Herman E., South Bend, Ind., assignor to Oliver Farm Equipment Company. Tractor plow. 2,312,616; Mar. 2.
Alvey-Ferguson Company, The. (See Smith, Donald P., assignor.)
American Bosch Corporation. (See Schwarzmann, W. E., Coe, and Rosenthal, assignors.)
American Box Board Company. (See Sprague, Clarence B., assignor.)
American Cabinet Hardware Corporation. (See Engstrom, Folke G. H., assignor.)
American Can Company. (See Dalton, Elof E., assignor.)
American Can Company. (See Odquist, H. T., and Shmurak, assignors.)
American Can Company. (See Trevisan, Louis A., assignor.)
American Cyanamid Company. (See Carpenter, Erwin L., assignor.)
American Cyanamid Company. (See Christmann, L. J., Jayne, Jr., and Erickson, assignors.)
American Cyanamid Company. (See Erickson, Stephen E., and Jayne, Jr., assignors.)
American Cyanamid Company. (See Ham, G. P., and Barnes, assignors.)
American Cyanamid Company. (See Jayne, D. W., Jr., Erickson, and Day, assignors.)
American Cyanamid Company. (See Liddel, U., and Barnes, assignors.)
American Pattern and Manufacturing Co. (See Miller, Raymond J., assignor.)
American Steel Foundries. (See Cottrell, Robert B., assignor.)
American Tool & Machine Co. (See Tholl, John F., assignor.)
American Tool Works. (See Kullman, A., and Waltz, assignors.)
American Telephone and Telegraph Company. (See Bordonaro, Lucian E., assignor.)
Andersen, Niels Y., Kenmore, assignor to Remington Rand Inc., Buffalo, N. Y. File follower. 2,312,742; Mar. 2.
Anderson, Kosciusko M., Sweetwater, Tex. Hydrostatic mechanical lubricator. 2,312,304; Mar. 2.
Anderson, Norman T. (See Sweeley, E. A., and Anderson.)
Andrew, Harry J., Oldham, England. Gearing. 2,312,376; Mar. 2.
Andrews, Ray, and R. J. King, Washington, Pa., assignors to B. F. Drakenfeld & Co., Inc., New York, N. Y. Glass enamels. 2,312,788; Mar. 2.
Anxionnaz, René, Paris, and R. Imbert, Mantes, France, vested in the Alien Property Custodian. Gas turbine plant. 2,312,995; Mar. 2.
Appleby, Peter W., Odessa, Tex. Well tool. 2,312,789; Mar. 2.

Armington, George E. (See Armington, Stewart F. and George E.)

Armington, Stewart F., Willoughby, and G. E. Armington, South Euclid, assignors to The Euclid Road Machinery Company, Euclid, Ohio. Scraper. 2,312,311; Mar. 2.

Arslan, Albert E. (See Hazard, J. G., and Arslan.)

Arundale, Erving, Union, and L. A. Mikeska, Westfield, N. J., assignors to Standard Oil Development Company. Alkoxy meta-dioxanes. 2,312,743; Mar. 2.

Askania Regulator Company. (See Ziebolz, Herbert, assignor.)

Associated Electric Laboratories, Inc. (See Burgener, Karl L., assignor.)

Associated Electric Laboratories, Inc. (See Lomax, Clarence E., assignor.)

Associated Electric Laboratories, Inc. (See Sengebusch, Hans, assignor.)

Atchison, Leonard W., Schenectady, N. Y., assignor to General Electric Company. Refrigerating machine. 2,312,861; Mar. 2.

Atlantic Research Associates, Inc. (See Atwood, Francis C., assignor.)

Atwood, Francis C., assignor to Atlantic Research Associates, Inc., Newtonville, Mass. Stabilized protein curd. 2,312,467; Mar. 2.

Audubon Wire Cloth Corporation. (See Scherfel, Otto C., assignor.)

Austin, A. L., trustee. (See Linquist, William, assignor.)

Autocall Company, The. (See Richmond, Louis E., assignor.)

Ayers, George W., Jr. (See Henderson, L. M., and Ayers.)

Bach, Emmon. (See de Florez, L., and Bach.)

Backoff, William J., and N. D. Williams, Chicago, J. F. O'Loughlin, Winnetka, H. L. Moir, Niles Center, and J. S. Yule, assignors to The Pure Oil Company, Chicago, Ill. Motor fuel composition. 2,312,790; Mar. 2.

Bahr, William F., St. Louis, Mo. Corrosion-preventing connecting means for storage batteries. 2,312,791; Mar. 2.

Bakelite Corporation. (See Daniels, Rupert S., assignor.)

Bakelite Corporation. (See Meharg, V. E., and Mazzucchelli, assignors.)

Baker, Edwin M., Ann Arbor, assignor to Houdaille-Hershey Corporation, Detroit, Mich. Nickel plating. 2,312,517; Mar. 2.

Baker, Walter E. (See Wilson, James F., assignor.)

Balcar, Frederick R., Stamford, Conn., assignor to Air Reduction Company, Incorporated, New York, N. Y. Producing chlorine. 2,312,952; Mar. 2.

Baldwin, Harold L., Bingham, Maine. Traction device. 2,312,518; Mar. 2.

Bales, James E., assignor to Lyon Metal Products, Incorporated, Aurora, Ill. Hook. 2,312,985; Mar. 2.

Bamford, Harry S., Glenside, Pa., assignor to Farnsworth Television and Radio Corporation. Color television system. 2,312,792; Mar. 2.

Bantam Bearings Corporation. (See Allen, Thomas M., assignor.)

Barker, Claude L., Denver, Colo., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Blasting cartridge shell. 2,312,744; Mar. 2.

Barnes, Robert B. (See Ham, G. P., and Barnes.)

Barnes, Robert B. (See Liddell, U., and Barnes.)

Barney, Jerome, assignor to The R. K. Laros Silk Co., Bethlehem, Pa. Sheerness meter. 2,312,953; Mar. 2.

Bassist, Ellis. (See Toland, W. C., and Bassist.)

Battelle Memorial Institute. (See Bird, B. M., and Smith, assignors.)

Bauer, George H., Gary, Ind. Truck. 2,312,377; Mar. 2.

Baum, John D., Parma, Ohio. Arch support. 2,312,378; Mar. 2.

Bechik, Michael, St. Paul, Minn. Anchoring device for application to mattress walls. 2,312,379; Mar. 2.

Beck, Morris B., Lawrence, N. Y. Fluorescent tube lighting fixture. 2,312,617; Mar. 2.

Beck, Morris B., Lawrence, N. Y. Fluorescent tube lighting fixture. 2,312,618; Mar. 2.

Beckett, Charles M. (See Tomlinson, F. W., and Beckett.)

Beline, Walter E., Englewood, N. J., assignor to York Ice Machinery Corporation, York, Pa. Evaporator. 2,312,312; Mar. 2.

Beline, Walter E., Englewood, N. J., assignor to York Ice Machinery Corporation, York, Pa. Evaporator. 2,312,313; Mar. 2.

Bell Aircraft Corporation. (See Plourde, William A., assignor.)

Bell Telephone Laboratories, Incorporated. (See Bown, Ralph, assignor.)

Bell Telephone Laboratories, Incorporated. (See Hansen, Harry, assignor.)

Bell Telephone Laboratories, Incorporated. (See Hickman, C. N., and Lakatos, assignors.)

Bell Telephone Laboratories, Incorporated. (See Llewellyn, Frederick B., assignor.)

Bell Telephone Laboratories, Incorporated. (See Lum, George R., assignor.)

Bell Telephone Laboratories, Incorporated. (See Lundstrom, Alexis A., assignor.)

Bell Telephone Laboratories, Incorporated. (See Pollard, Charles E., Jr., assignor.)

Bell Telephone Laboratories, Incorporated. (See Rodgers, Karl F., assignor.)

Bell Telephone Laboratories, Incorporated. (See Skellett, Albert M., assignor.)

Beloit Iron Works. (See Berry, Earl E., assignor.)

Beloit Iron Works. (See Hornbostel, Lloyd, assignor.)

Bendix Aviation Corporation. (See Frei, Jacob R., assignor.)

Bendix Aviation Corporation. (See Granjon, Stephane, assignor.)

Benjamin, Harry S., Poughkeepsie, N. Y. Coin-controlled machine. 2,312,793; Mar. 2.

Benz, Fritz. (See Hartmann, M., and Benz.)

Berger, Hermann, and F. Herriger, Berlin, Germany, vested in the Alien Property Custodian. Electric wave amplifier. 2,313,008; Mar. 2.

Berger, Irving, New York, N. Y. Milk safe. 2,312,745; Mar. 2.

Berlinger, Frederick J., Cincinnati, Ohio. Flashlight. 2,312,305; Mar. 2.

Bermingham, James A., Jr., Long Beach, Calif., assignor, by mesne assignments, to The Texas Company, New York, N. Y. Method and apparatus for completing wells. 2,312,862; Mar. 2.

Bernhardt, Rudolph, Chicago, Ill. Dispensing container. 2,312,380; Mar. 2.

Berry, Earl E., assignor to Beloit Iron Works, Beloit, Wis. Balanced seal for suction rolls. 2,312,519; Mar. 2.

Bestian, Herbert, Frankfort-on-the-Main-Unterliederbach, Germany, assignor, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y. Polymerization products. 2,312,863; Mar. 2.

Bethenod, Joseph, Paris, France; vested in the Alien Property Custodian. System for controlling the temperature in the interior of vehicles. 2,312,996; Mar. 2.

Bethlehem Steel Company. (See Chamberlin, A. C., and Nieman, assignors.)

Bickenheuser, Frank J., Tulsa, Okla. Medicinal tablet. 2,312,381; Mar. 2.

Bierwirth, Rudolph A., Haddon Heights, N. J., assignor to Radio Corporation of America. Indicator or relay system. 2,312,306; Mar. 2.

Bindler, Jakob, assignor to the firm of J. R. Geigy A. G., Basel, Switzerland. Derivatives of o-hydroxybenzenecarboxylic acids and manufacture. 2,312,864; Mar. 2.

Bird, Byron M., and F. P. Smith, assignors to Battelle Memorial Institute, Columbus, Ohio. Method and apparatus for separating liquids from solids. 2,312,829; Mar. 2.

Bird, Byron M., and F. P. Smith, assignors to Battelle Memorial Institute, Columbus, Ohio. Treating material. 2,312,865; Mar. 2.

Bixler, Milo E., assignor to The Hoover Company, North Canton, Ohio. Refrigeration. 2,312,619; Mar. 2.

Blackburn, Walter J. (See Goldwater, Samuel J., assignor.)

Blanchard, Roswell W., Fitchburg, Mass., assignor to E. Edelmann & Co., Chicago, Ill. Hydrometer. 2,312,307; Mar. 2.

Blue Ridge Glass Corporation. (See Lewis, Joseph H., assignor.)

Boaler, William H. (See Guyler, A. F., Boaler, and Stanley.)

Boecking, Ewald, Great Kills, Staten Island, N. Y. Motion picture projection machine. 2,312,308; Mar. 2.

Boeing Aircraft Company. (See Terdina, Frank, Jr., assignor.)

Boesel, Otto. (See Leonard, A. A., and Boesel.)

Bogin, Charles, and H. L. Wampner, assignors to Commercial Solvents Corporation, Terre Haute, Ind. Applying lacquer film having a flat finish. 2,312,309; Mar. 2.

Bokovoy, Samuel A., Audubon, and H. W. N. Hawk, Merchantville, N. J., assignors to Radio Corporation of America. Mounting piezoelectric elements. 2,312,746; Mar. 2.

Bolin, D. Houston, et al. (See Derrick, Oscar L., assignor.)

Bolk, Willem, Arnhem, Netherlands; vested in the Alien Property Custodian. Filling a compression matrix with a pulverulent material. 2,312,997; Mar. 2.

Bonanno, Joseph L., Maplewood, and A. Ehret, Hillside, N. J., assignors to The Lionel Corporation, New York, N. Y. Transformer. 2,312,382; Mar. 2.

Bond, Donald S., Philadelphia, Pa., assignor to Radio Corporation of America. Radio navigation system. 2,312,747; Mar. 2.

Bordonaro, Lucian E., Rochester, N. Y., assignor to American Telephone and Telegraph Company. Ribbon sifting mechanism. 2,312,314; Mar. 2.

Borg-Warner Corporation. (See Patrick, Willbur W., assignor.)

Borglin, Joseph N., assignor to Hercules Powder Company, Wilmington, Del. Terpene derivative. 2,312,684; Mar. 2.

Borglin, Joseph N., assignor to Hercules Powder Company, Wilmington, Del. Terpene derivative. 2,312,685; Mar. 2.

Boucher, Charles P., Paterson, N. J., assignor to Boucher Inventions, Ltd., Washington, D. C. Luminescent tube and system. 2,312,866; Mar. 2.

Boucher, Charles P., Paterson, N. J., assignor to Boucher Inventions, Ltd., Washington, D. C. Transformer apparatus. 2,312,867; Mar. 2.

Boucher, Charles P., Paterson, N. J., assignor to Boucher Inventions, Ltd., Washington, D. C. Transformer. 2,312,868; Mar. 2.

Boucher Inventions, Ltd. (See Boucher, Charles P., assignor.)

Bouwers, Albert, Eindhoven, Netherlands; vested in the Alien Property Custodian. X-ray tube. 2,313,009; Mar. 2.

Bower, Jerome G., New York, N. Y., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Railway car truck. 2,312,383; Mar. 2.

Bowles, Byron E., Des Moines, Iowa. Cigarette supporter and snuffer. 2,312,870; Mar. 2.

Bowman, Clarence B., assignor to The Elmco Corporation, Salt Lake City, Utah. Rotary filter tank and agitator therefor. 2,312,620; Mar. 2.

Bowman, Henry V., Minneapolis, Minn. Crate. 2,312,621; Mar. 2.

Bown, Ralph, Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Observer controlled television system. 2,312,954; Mar. 2.

Boyer, Charles A., Winona Lake, Ind. Surgeon's bone screw driver. 2,312,869; Mar. 2.

Boynton, Alexander, San Antonio, Tex. Differential stage lift flow device. 2,312,315; Mar. 2.

Bradley, Albert F., assignor to Northwestern Steel and Wire Company, Sterling, Ill. Multiwire product making machine. 2,312,520; Mar. 2.

Bradner, Donald B., and G. C. Munro, assignors to The Champion Paper and Fibre Company, Hamilton, Ohio. Papermaking. 2,312,310; Mar. 2.

Brady, Bernard J. (See Turner, C., and Brady.)

Brady, Eugene F., Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Spray booth. 2,312,386; Mar. 2.

Brantly, John E., Pasadena, Calif. Steam boiler. 2,312,622; Mar. 2.

Brick, Perry A., assignor to The Perfection Steel Body Company, Galion, Ohio. Body tipping apparatus for motor vehicles. 2,312,871; Mar. 2.

Brooks, John C., Longmeadow, and E. R. Derby, Springfield, Mass., assignors to Monsanto Chemical Company, St. Louis, Mo. Tracing plastic. 2,312,623; Mar. 2.

Broos, Henricus A., Eindhoven, Netherlands, assignor, by mesne assignments, to Radio Corporation of America. Volume control circuit. 2,312,748; Mar. 2.

Browall, Bert H., assignor to Svenska Aktiebolaget Bromsregulator, Malmo, Sweden. Automatic slack adjuster for brakes. 2,312,384; Mar. 2.

Brown Instrument Company, The. (See Harrison, Thomas R., assignor.)

Browne, Marion B., assignor to Valley Shoe Corporation, St. Louis, Mo. Shoe. 2,312,872; Mar. 2.

Brownstein, Arthur, Bridgeport, Conn. Connector plug. 2,312,794; Mar. 2.

Brownstein, Arthur, Bridgeport, Conn. Connector plug. 2,312,795; Mar. 2.

Brudal, Holger, Strand, Baernm near Oslo, Norway; vested in the Alien Property Custodian. Apparatus for the producing of aqueous suspensions of clay. 2,313,010; Mar. 2.

Bruns, Anthony C., Cincinnati, assignor to The Palmer Company, Norwood, Ohio. Thermometer case. 2,312,873; Mar. 2.

Buck, Arthur W., assignor to Buck X-Ograph Company, St. Louis, Mo. Film drier cabinet. 2,312,986; Mar. 2.

Buck X-Ograph Company. (See Buck, Arthur W., assignor.)

Buckeye Steel Castings Company, The. (See Bower, Jerome G., assignor.)

Bucknam, James H. (See Keller, A. M., Bucknam, and Miller.)

Budd, Edward G., Manufacturing Company. (See Horton, R. H., and Patton, assignors.)

Budd, Edward G., Manufacturing Company. (See Watter, Michael, assignor.)

Budd Induction Heating, Inc. (See Somes, Howard E., assignor.)

Builders Iron Foundry. (See Miner, Irving O., assignor.)

Builders Iron Foundry. (See Voller, J. P., and Loud, assignors.)

Bull, James P., San Diego, Calif. Vase and flower lifter. 2,312,521; Mar. 2.

Bulldog Electric Products Company. (See Frank, William H., assignor.)

Bulldog Electric Products Company. (See Frank, W. H., and Fisher, assignor.)

Bullock, Giles E., Rochester, N. Y. Making thin sheet metal shells. 2,312,749; Mar. 2.

Bunting, Albert L., assignor to Union Research Corporation, Detroit, Mich. Color photography. 2,312,874; Mar. 2.

Bunting, Albert L., and R. W. Thomas, assignors to Union Research Corporation, Detroit, Mich. Color photography. 2,312,875; Mar. 2.

Burcky, Charles W., Park Ridge, assignor to Teletype Corporation, Chicago, Ill. Facsimile page printer. 2,312,316; Mar. 2.

Burcky, Charles W., Park Ridge, assignor to Teletype Corporation, Chicago, Ill. Facsimile page printer. 2,312,317; Mar. 2.

Burgener, Karl L., assignor to Associated Electric Laboratories, Inc., Chicago, Ill. Telephone system. 2,312,385; Mar. 2.

Burgsmüller, Willi. (See Siemens, A., Von Bertele, and Burgsmüller.)

Cairns Corporation. (See Lermont, Basil, assignor.)

Caldwell, Andrew, Ballston Lake, and V. A. Elliott, Schenectady, N. Y., assignors to General Electric Company. Elastic fluid generator. 2,312,876; Mar. 2.

Caldwell, Frank W., West Hartford, assignor to United Aircraft Corporation, East Hartford, Conn. Counter-rotating propeller. 2,312,624; Mar. 2.

Camburn, Elwyn A., Logan, Utah. Quick adjustable clamp. 2,312,955; Mar. 2.

Campbell, Donald J., Spring Lake, Mich. Casting metals. 2,312,796; Mar. 2.

Campbell, Harry C., Bowling Green, Ohio. Collapsible horse. 2,312,956; Mar. 2.

Campbell, Rodney B., North Hollywood, assignor to J. Eley, Jr., Los Angeles, Calif. Emergency cut-over valve. 2,312,686; Mar. 2.

Campbell, Rodney B., North Hollywood, assignor to J. Eley, Jr., Los Angeles, Calif. Fluid pressure regulating valve. 2,312,877; Mar. 2.

Cannon, Henry W., Jr., Rockwood, Maine. Fishing rod holder. 2,312,957; Mar. 2.

Carlström, Bengt, assignor to Aktiebolaget Facit, Atvidaberg, Sweden. Locking mechanism for the setting members of calculating machines. 2,312,797; Mar. 2.

Carnegie-Illinois Steel Corporation. (See Taylerson, Ewart S., assignor.)

Carpenter, Erwin L., Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Alkali metal salts of β-sulphopropionitrile and preparation. 2,312,878; Mar. 2.

Carrier Corporation. (See Jones, Robert L., assignor.)

Carrington, Blake W., assignor to The General Industries Company, Elyria, Ohio. Speed compensating means for phonograph turntable drives. 2,312,798; Mar. 2.

Carter, Philip S., Port Jefferson, N. Y., assignor to Radio Corporation of America. Ultra short wave system. 2,312,799; Mar. 2.

Cartier, Inc. (See Cusin, Gaston V. G., assignor.)

Casco Products Corporation. (See Cohen, Joseph H., assignor.)

Cathey, George B., San Angelo, Tex. Marking device. 2,312,625; Mar. 2.

Caughey, Reed J., Schenectady, N. Y., assignor to General Electric Company. Widge range turbine governing arrangement. 2,312,958; Mar. 2.

Cawein, Madison, Marion, Ind., assignor to Farnsworth Television and Radio Corporation. Color television apparatus. 2,312,800; Mar. 2.

Celanese Corporation of America. (See Guyler, A. F., Boaler, and Stanley, assignors.)

Celanese Corporation of America. (See King, Franklin, assignor.)

Chamberlin, Alan C., and H. W. Nieman, Bethlehem, Pa., assignors to Bethlehem Steel Company. Strip marking device. 2,312,626; Mar. 2.

Champion Paper and Fibre Company, The. (See Bradner, D. B., and Munro, assignors.)

Champion Paper and Fibre Company, The. (See Munro, George C., assignor.)

Champion Spark Plug Company. (See Jeffrey, Joseph A., assignor.)

Charlton Woolen Company. (See Alix, Elmer C., assignor.)

Chicago Carton Company. (See Smith, Milton A., assignor.)

Chicago Carton Company. (See Smith, M. A., and Wilcox, assignors.)

Chicago Flexible Shaft Company. (See Jepson, Ivar, assignor.)

Chisholm, Gilbert G., London, Ontario, Canada. Ore pulp jig. 2,312,522; Mar. 2.

Christ, Robert E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Fiber-forming polymers and making them. 2,312,879; Mar. 2.

Christmann, Ludwig J., Yonkers, N. Y., D. W. Jayne, Jr., Old Greenwich, and S. E. Erickson, Springdale, Conn., assignors to American Cyanamid Company, New York, N. Y. Froth flotation of acidic minerals. 2,312,387; Mar. 2.

Chromogen, Incorporated. (See Goldfinger, Paul, assignor.)

Ciba Pharmaceutical Products, Incorporated. (See Hartmann, M., and Benz, assignors.)

Ciba Pharmaceutical Products, Incorporated. (See Legerlotz, Helmut, assignor.)

Cincinnati Ball Crank Company, The. (See Woelfer, Frank C., Jr., assignor.)

Cini, Giulio, Turin, Italy, assignor, by mesne assignments, to The Union Switch and Signal Company, Swissvale, Pa. Switch control and indication system. 2,312,959; Mar. 2.

Clements, Lee L., assignor of two-thirds to M. M. Fisher, Evanston, Ill. Hand weaving frame. 2,312,388; Mar. 2.

Cleveland Crane & Engineering Company, The. (See Dehn, Roy F., assignor.)
Coe, Frank S. (See Schwarzmann, W. E., Coe, and Rosenthal.)
Coffee, William B., Atlanta, Ga. Ratio controller for gas or fluid regulators. 2,312,880; Mar. 2.
Coffey, Paul H. (See Gleason, R. R., Coffey, and Reuter.)
Cohen, Charles A., Elizabeth, N. J., assignor, by mesne assignments, to Jasco, Incorporated. Sulphurized addition agent for lubricants and lubricants containing the same. 2,312,750; Mar. 2.
Cohen, Charles A., Elizabeth, N. J., assignor to Standard Oil Development Company. Preparation of unsaturated ketones. 2,312,751; Mar. 2.
Cohen, Joseph H., assignor to Casco Products Corporation, Bridgeport, Conn. Fan. 2,312,627; Mar. 2.
Colonial Radio Corporation. (See Scheer, Frederick H., assignor.)
Combs, L. L., et al, executors. (See Taylor, Judson O.)
Commercial Solvents Corporation. (See Bogin, C., and Wampner, assignors.)
Container Corporation of America. (See Deem, R. B., and Thompson, assignors.)
Continental Can Company. (See Punte, William F., assignor.)
Continental Optical Company. (See Duckwall, Frank E., assignor.)
Continuous Casting Corporation. (See Eldred, Byron E., assignor.)
Cook, James R., Woodbury, N. J. Pipe. 2,312,628; Mar. 2.
Cook, Melvin A., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Explosive composition. 2,312,752; Mar. 2.
Cooke, Edward F., Jr. (See Roach, E. J., and Cooke.)
Cooper, Arthur M. (See Sholder, M., and Cooper.)
Copeman Laboratories Company. (See Jennings, Harley V., assignor.)
Corbett, Mitchell S., Oak Park, Ill. Adjustable tension splint. 2,312,523; Mar. 2.
Corbett, Thomas H., administrator. (See Cunningham, V. W.)
Cordes, Hugo, Hamburg-Altona, Germany; vested in the Alien Property Custodian. Automotive crawler vehicle with a scraper bowl. 2,312,389; Mar. 2.
Cordes, Hugo, Hamburg-Altona, Germany; vested in the Alien Property Custodian. Automotive crawler vehicle with a scraper bowl having a bulldozer blade. 2,312,390; Mar. 2.
Cottrell, Robert B., assignor to American Steel Foundries, Chicago, Ill. Car truck. 2,312,881; Mar. 2.
Couden, Earl R., Chicago, Ill. Spreading disks. 2,312,960; Mar. 2.
Coultrip, Raymond L. (See Winborne, R. A., and Coultrip.)
Cowherd, David S., Kansas City, Mo. Fluid pump or motor. 2,312,961; Mar. 2.
Cox, William B., Louisville, Ky. Foot bathing device. 2,312,524; Mar. 2.
Coy, Joseph A., Cincinnati, Ohio, assignor to The Wadsworth Electric Manufacturing Company, Inc., Covington, Ky. Circuit breaker. 2,312,753; Mar. 2.
Craig, W. E., Philadelphia, and W. F. Hester, Drexel Hill, assignors to Röhm & Haas Company, Philadelphia, Pa. Insecticide. 2,312,801; Mar. 2.
Crawford, Arthur N., Foresthill, Calif. Locking device for bucket teeth. 2,312,802; Mar. 2.
Culbertson, William J., Brocton, Ill. Motion conversion mechanism. 2,312,318; Mar. 2.
Culver, M. Kenneth, and T. M. McGregor, Houston, Tex. Parachute toy. 2,312,620; Mar. 2.
Cunningham, Vincent W., deceased, late of Chicago, Ill., by T. H. Corbett, Chicago, Ill., administrator. Apparatus for washing glasses and the like. 2,312,319; Mar. 2.
Curtenius, Frederick B., Kalamazoo, Mich. Retractable clothesline support. 2,312,803; Mar. 2.
Curtis, Leslie F., Great Neck, N. Y., assignor to Hazeltine Corporation. Adjustable coupling system. 2,312,687; Mar. 2.
Curtis Pump Company. (See Curtis, Russell R., assignor.)
Curtis, Russell R., assignor to Curtis Pump Company, Dayton, Ohio. Pump construction. 2,312,525; Mar. 2.
Curtis, Russell R., assignor to Curtis Pump Company, Dayton, Ohio. Booster pump. 2,312,526; Mar. 2.
Cusano, Paul, Union City, N. J. Game board. 2,312,882; Mar. 2.
Cusin, Gaston V. G., Paris, France, assignor to Cartier, Inc., New York, N. Y. Timekeeper. 2,312,391; Mar. 2.
Cutler-Hammer, Inc. (See Seeger, E. W., and Stansbury, assignors.)
Cutler, Nelson B., Cynwyd, Pa., assignor to United Shoe Machine Corporation, Flemington, N. J. Welt shoe and welting therefor. 2,312,527; Mar. 2.
Curlip, Emmett C. (See Olds, Ernest A., assignor.)
Czapp, Erich. (See Schoenbeck, F., and Czapp.)
D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Reaction products of aldehydes and triazine derivatives. 2,312,688; Mar. 2.
D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Reaction product of aldehydes and triazine derivatives. 2,312,690; Mar. 2.
D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Diazine derivatives. 2,312,691; Mar. 2.
D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Triazine derivatives. 2,312,692; Mar. 2.
D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Reaction product of aldehydes and diazine derivatives. 2,312,693; Mar. 2.
D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Triazine derivatives. 2,312,694; Mar. 2.
D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Diazine derivatives. 2,312,695; Mar. 2.
D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Reaction product of aldehydes and triazine derivatives. 2,312,696; Mar. 2.
D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Reaction product of aldehydes and sulphamylarylamino triazines. 2,312,697; Mar. 2.
D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Sulphamylarylamino triazines. 2,312,698; Mar. 2.
D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Diazine derivatives. 2,312,700; Mar. 2.
D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Triazine derivatives. 2,312,701; Mar. 2.
D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Reaction product of aldehydes and triazine derivatives. 2,312,702; Mar. 2.
D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Reaction product of aldehydes and diazine derivatives. 2,312,703; Mar. 2.
D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Reaction product of aldehydes and triazine derivatives. 2,312,704; Mar. 2.
D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Reaction product of aldehydes and diazine derivatives. 2,312,705; Mar. 2.
D'Alelio, Gaetano F., and J. W. Underwood, Pittsfield, Mass., assignors to General Electric Company. Resinous products of aldehydes and guanazo diazines. 2,312,320; Mar. 2.
D'Alelio, Gaetano F., and J. W. Underwood, Pittsfield, Mass., assignors to General Electric Company. Reaction product of aldehydes and guanazo triazines. 2,312,321; Mar. 2.
D'Alelio, Gaetano F., and J. W. Underwood, Pittsfield, Mass., assignors to General Electric Company. Reaction products of aldehydes and diazine derivatives. 2,312,689; Mar. 2.
D'Alelio, Gaetano F., and J. W. Underwood, Pittsfield, Mass., assignors to General Electric Company. Triazinyl carboxy-alkyl sulphides and salts thereof. 2,312,699; Mar. 2.
Dalton, Elof E., Berwyn, Ill., assignor to American Can Company, New York, N. Y. Printing machine. 2,312,322; Mar. 2.
Daniels, Rupert S., Union, N. J., assignor to Bakelite Corporation, New York, N. Y. Soft-bond article. 2,312,392; Mar. 2.
Danster, John F., Wilkinsburg, assignor to Mine Safety Appliances Company, Pittsburgh, Pa. Fastening means. 2,312,630; Mar. 2.
Davis, Ernest W., River Forest, assignor to Stewart-Warner Corporation, Chicago, Ill. Hose reel. 2,312,528; Mar. 2.
Davy, Lee G., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Manufacture of amino compounds. 2,312,754; Mar. 2.
Day, Harold M. (See Jayne, D. W., Erickson, and Day.)
Deem, Robert B., Philadelphia, Pa., and G. V. Thompson, assignors to Container Corporation of America, Chicago, Ill. Carton. 2,312,631; Mar. 2.
Deere & Company. (See Strandlund, Carl G., assignor.)
De Florez, Luis, Pomfret, Conn., and E. Bach, Scarborough, N. Y.; said Bach assignor to said de Florez. Training apparatus for teaching radio navigation. 2,312,962; Mar. 2.
Dehn, Roy F., Cleveland, assignor to The Cleveland Crane & Engineering Company, Wickliffe, Ohio. Bending brake. 2,312,755; Mar. 2.
De Hoff, Hugh C. (See Holmes, R. L., and De Hoff.)
Deimel, Albert H. (See Peterson, C. D., and Deimel.)
De Jur-Amsco Corporation. (See Leonard, Anthon A., assignor.)
De Jur-Amsco Corporation. (See Leonard, A. A., and Roesel, assignors.)
De Kadt, George S., Leeuwarden, Netherlands; vested in the Alien Property Custodian. Hardening fibrous protein material. 2,312,998; Mar. 2.
De Langen, Lambertus H., Haren, Netherlands; vested in the Alien Property Custodian. Filter for separating solids from liquids. 2,312,999; Mar. 2.
Demann, Clemens B., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,312,883; Mar. 2.
Derby, Elmer R. (See Brooks, J. C., and Derby.)

Derby, Elmer R., Springfield, Mass., assignor, by mesne assignments, to Monsanto Chemical Company, St. Louis, Mo. Plasticized polyvinyl acetal resin. 2,312,963; Mar. 2.
Derrick, Oscar L., assignor of five-twelfths to D. H. Bolin, and four-twelfths to H. L. Rugely, Wichita Falls, Tex. Roller drive for Kelley joints. 2,312,323; Mar. 2.
Derrick, Oscar L., assignor of five-twelfths to D. H. Bolin, and four-twelfths to H. L. Rugely, Wichita Falls, Tex. Guide for Kelly bars. 2,312,804; Mar. 2.
Despres, Marcel, Grand Rapids, Mich. Dowel machine. 2,312,884; Mar. 2.
Devereux, Andrew R., Chicago, Ill., assignor to Goldsmith Bros. Smelting & Refining Company. Osmium compositions. 2,312,324; Mar. 2.
Dextone Company, The. (See Falco, Louis A., assignor.)
Dickinson, Donald B., Silver Creek, N. Y. Emergency mailing envelope. 2,312,964; Mar. 2.
Diener, Richard. (See Ulrich, V., and Diener.)
Dies, Charles A., Chicago, Ill. Safety pin. 2,312,885; Mar. 2.
Dill Manufacturing Company, The. (See Speth, Leonard S., assignor.)
Donnelly, James, assignor to The Miller Company, Meriden, Conn. Lighting fixture closure. 2,312,393; Mar. 2.
Douglas, Leslie A., San Antonio, Tex. Laterally entering subterranean strata and withdrawing the pore content thereof. 2,312,805; Mar. 2.
Drakenfeld, B. F., & Co. (See Andrews, R., and King, assignors.)
Draper, Frederick C., Chipping Sodbury, England. Hydraulic motor. 2,312,394; Mar. 2.
Drew, Ellen, Evanston, Ill. Surgical binder. 2,312,632; Mar. 2.
Duckwall, Frank E., assignor to Continental Optical Company, Inc., Indianapolis, Ind. Apparatus for producing one-piece multifocal lens blanks. 2,312,529; Mar. 2.
Du Pont, E. I., de Nemours & Company. (See Barker, Claude L., assignor.)
Du Pont, E. I., de Nemours & Company. (See Christ, Robert E., assignor.)
Du Pont, E. I., de Nemours & Company. (See Cook, Melvin A., assignor.)
Du Pont, E. I., de Nemours & Company. (See Freund, Henry H., assignor.)
Du Pont, E. I., de Nemours & Company. (See Graham, Donald P., assignor.)
Du Pont, E. I., de Nemours & Company. (See Hanford, William E., assignor.)
Du Pont, E. I., de Nemours & Company. (See Iler, Ralph K., assignor.)
Du Pont, E. I., de Nemours & Company. (See Kirby, James E., assignor.)
Du Pont, E. I., de Nemours & Company. (See McBurney, J. D., and Nollau, assignors.)
Du Pont, E. I., de Nemours & Company. (See Woodbury, Clifford A., assignor.)
Du Pont, E. I., de Nemours & Company. (See Wuertz, A. J., and Graham, assignors.)
Dürsteler, Arnold. (See Hirst, W., and Dürsteler.)
Duwe, August, Villingen, Schwarzwald, Germany; vested in the Alien Property Custodian. Apparatus for controlling the speed of revolution of machines. 2,313,011; Mar. 2.
E. A. Laboratories, Inc. (See Meyerhoefer, Carl E., assignor.)
Earle, Genevieve M. (See Earle, Guyon L. C., assignor.)
Earle, Guyon L. C., Forest Hills, assignor to G. M. Earle, Forest Hills, N. Y. Closure members. 2,312,325; Mar. 2.
Earle, Guyon L. C., assignor to G. M. Earle, Forest Hills, N. Y. Refrigerator. 2,312,326; Mar. 2.
Earle, Guyon L. C., assignor to G. M. Earle, Forest Hills, N. Y. Article rack. 2,312,327; Mar. 2.
Eastman Kodak Company. (See Davy, Lee G., assignor.)
Easy Washing Machine Corporation. (See Scheele, Charles C., assignor.)
Ebel, Friedrich, Mannheim, and F. Pyzik, Ludwigshafen-on-the-Rhine, Germany; vested in the Alien Property Custodian. Production of succinic acid. 2,312,468; Mar. 2.
Ebersbach, John, et al executors. (See Taylor, Judson O.)
Echlin Manufacturing Company. (See Lansdale, Benjamin C., assignor.)
Edelmann, E., & Co. (See Blanchard, Roswell W., assignor.)
Edison, Thomas A., Incorporated. (See Huenlich, Charles, assignor.)
Edison General Electric Appliance Company. (See Winborne, R. A., and Coultrip, assignors.)
Eggert, Johann. (See Gallendien W., and Eggert.)
Ehret, Anthony. (See Bonanno, J. L., and Ehret.)
Elmes Corporation, The. (See Bowman, Clarence B., assignor.)
Elnson-Freeman Co. (See Horr, John V., assignor.)
Eklund, John E., Neosho County, Kans. Bundle header. 2,312,530; Mar. 2.
Eldred, Byron E., Scarsdale, assignor to Continuous Casting Corporation, New York, N. Y. Making drawn, pressed, or stamped cupped objects of metals and alloys. 2,312,830; Mar. 2.
Electric & Musical Industries Limited. (See Percival, William S., assignor.)
Electrolux Corporation. (See Lofgren, Gustaf E., assignor.)
Eley, John, Jr. (See Campbell, Rodney B., assignor.)
Ellen, Verner G., St. Paul, Minn. Material handling device. 2,312,806; Mar. 2.
Ellinwood, Herman R., North Hollywood, assignor to Adel Precision Products Corporation, Burbank, Calif. Pump. 2,312,886; Mar. 2.
Elliott, Laverne P. (See Shiffler, W. H., and Elliott.)
Elliott, Vorras A. (See Caldwell, A., and Elliott.)
Elmendorf, Armin, Winnetka, Ill. Indurated fibrous material and making the same. 2,312,831; Mar. 2.
Emulsol Corporation, The. (See Joffe, Morris H., assignor.)
Engel, Karl, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Prewelt shoe manufacture. 2,312,531; Mar. 2.
Engel, Kurt, Saint Louis, upper Rhine, France, and K. Pfaehler, Riehen, near Basel, assignors to the firm J. R. Geigy A. G., Basel, Switzerland. Acylated p-aminobenzyl amines and their quaternary derivatives. 2,312,395; Mar. 2.
Engstrom, Folke G. H., assignor to American Cabinet Hardware Corporation, Rockford, Ill. Display board. 2,312,532; Mar. 2.
Enley, John T., Riverside, N. J. Wheel for roller skates. 2,312,396; Mar. 2.
Erickson, Stephen E. (See Christmann, L. J., Jayne, Jr., and Erickson.)
Erickson, Stephen E. (See Jayne, D. W., Jr., Erickson, and Day.)
Erickson, Stephen E., Springdale, and D. W. Jayne, Jr., Old Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y. Oxygen-bearing ore flotation. 2,312,466; Mar. 2.
Ericksson, Emil, assignor of one-half to E. Alder, Chicago, Ill. Roll film camera attachment. 2,312,887; Mar. 2.
Ernst, Walter. (See Guanella, G., Ernst, Lindecker, and Gabriel.)
Euclid Road Machinery Company, The. (See Armington, Stewart F., and George E., assignors.)
Everest, Alfred W., Pittsfield, Mass., assignor to General Electric Company. Magnetostriction measuring apparatus. 2,312,888; Mar. 2.
Everts, Walter W., assignor of one-third to A. J. Fink and one-third to E. S. Stockbridge, Baltimore, Md. Centrifugally operated clutch. 2,312,889; Mar. 2.
Eyerly, Lee U., Salem, Oreg. Aerial merry-go-round. 2,312,533; Mar. 2.
Fafnir Bearing Company, The. (See Reynolds, Harry R., assignor.)
Falco, Louis A., assignor to The Dextone Company, New Haven, Conn. Building construction. 2,312,397; Mar. 2.
Färber, Eduard, assignor to Polyxor Chemical Co., Inc., New Haven, Conn. Resinous product from cellulosic substances. 2,312,807; Mar. 2.
Farnsworth Television and Radio Corporation. (See Bamford, Harry S., assignor.)
Farnsworth Television and Radio Corporation. (See Cawein, Madison, assignor.)
Fausset, Ernest R. (See Nichols, C. A., and Fausset.)
Felix, Friedrich, assignor to the firm of Society of Chemical Industry in Basle, Basel, Switzerland. Dyestuff preparations. 2,312,398; Mar. 2.
Fergueson, Arthur P., assignor to Houdaille-Hershey Corporation, Detroit, Mich. Fender shield construction. 2,312,536; Mar. 2.
Fergueson, Arthur P., and W. B. Schueren, assignors to Houdaille-Hershey Corporation, Detroit, Mich. Fender shield latch mechanism. 2,312,537; Mar. 2.
Ferguson, Robert P., Cranford, and I. P. Jones, Basking Ridge, N. J., assignors to Standard Oil Development Company. Preparation of deoiled sludge in combination with acid recovery. 2,312,756; Mar. 2.
Ferris, Howard J., assignor to Starline, Inc., Harvard, Ill. Grapple fork. 2,312,808; Mar. 2.
Ferris, Walter, assignor to The Oilgear Company, Milwaukee, Wis. Hydrodynamic machine. 2,312,891; Mar. 2.
Fiene, Henry D., Aurora, Ill. Acoustic device. 2,312,534; Mar. 2.
Fieser, Louis F., Belmont, Mass., assignor to Research Corporation, New York, N. Y. Naphthoquinone oxides and preparing the same. 2,312,535; Mar. 2.
Finch, James L., Patchogue, N. Y., assignor to Radio Corporation of America. Signal generator. 2,312,810; Mar. 2.
Finch, William G. H., Newtown, Conn. Duplex system. 2,312,328; Mar. 2.
Fink, Abraham J., et al. (See Everts, Walter W., assignor.)
Fisher, Francis M., Kansas City, Mo. Keeper for locks and latches. 2,312,892; Mar. 2.
Fisher, Lawrence E. (See Frank, W. H., and Fisher.)
Fisher, Margaret M. (See Clements, Lee L., assignor.)

Fleming, William D., Edgewood, Md. Synthetic mounting material for microscopic specimens. 2,312,329; Mar. 2.

Fletcher, Arthur T., Bristol, Conn. Glass cutter. 2,312,635; Mar. 2.

Fletcher, Arthur T., Bristol, Conn. Scraper. 2,312,809; Mar. 2.

Food Machinery Corporation. (See Magnuson, Roy M., assignor.)

Food Machinery Corporation. (See Woods, Gilbert R., assignor.)

Forbes, Charles J., Terre Haute, Ind. Reversible coal cutting bit. 2,312,538; Mar. 2.

Form Fashion, Inc. (See Sholder, M., and Cooper, assignors.)

Forrest, William H. (See Greene, E., and Forrest.)

Forstner Chain Corporation. (See Forstner, William, assignor.)

Forstner, William, Irvington, N. J., assignor to Forstner Chain Corporation. Collar holder. 2,312,890; Mar. 2.

Foster Wheeler Corporation. (See Whitney, Gilbert C., Jr., assignor.)

Fox, John, et al. (See McDougall, Stanley W., assignor.)

Foy, Bernard J., assignor of one-half to A. Ludwig, Washington, D. C. Tripod construction. 2,312,893; Mar. 2.

Frank, William H., assignor to Bulldog Electric Products Company, Detroit, Mich. Circuit breaker. 2,312,633; Mar. 2.

Frank, William H., and L. E. Fisher, assignors to Bulldog Electric Products Company, Detroit, Mich. Switch. 2,312,634; Mar. 2.

Franz, Anselm, Dessau, Germany; vested in the Alien Property Custodian. Cooling exhaust conduits. 2,312,399; Mar. 2.

Fraser, Kenneth G. (See Stillwagon, George B., Jr., assignor.)

Freedman, Benjamin H., Asbury Park, N. J., Supporting frame for record sheets. 2,312,331; Mar. 2.

Freeman, Benjamin W., Cincinnati, Ohio, and F. S. Knight, Brockton, Mass., said Knight assignor to said Freeman. Ornamenting machine. 2,312,330; Mar. 2.

Freeman, Horace, Three Rivers, Quebec, Canada, assignor to Nichols Engineering & Research Corporation, New York, N. Y. Method and apparatus for separating heavy particles from paper pulp suspensions. 2,312,706; Mar. 2.

Frei, Jakob R., Sidney, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Radio shielded ignition apparatus. 2,312,737; Mar. 2.

Freund, Henry H., Richmond, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Sized synthetic linear polyamide yarn. 2,312,469; Mar. 2.

Frey, Frederick E. (See Morey, G. H., and Frey.)

Frey, Frederick E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Manufacture of gasoline. 2,312,539; Mar. 2.

Froelich, George E., assignor to Hamilton Manufacturing Company, Two Rivers, Wis. Adjustable stand. 2,312,636; Mar. 2.

Fuchs, Walter M., assignor to The Pennsylvania Research Corporation, State College, Pa. Carbon. 2,312,707; Mar. 2.

Fulenwider, Harry, Ponte Vedra Beach, and K. C. Weatherby, assignors to National Pressed Steel Barrel Company, Jacksonville, Fla. Container top. 2,312,637; Mar. 2.

Fuller Brush Company, The. (See Rowland, Clarence G., assignor.)

Fulmer, Charles A., Waukegan, Ill. Honing machine. 2,312,540; Mar. 2.

Funderburg, Oscar O., et al. (See Goldwater, Samuel J., assignor.)

Gabriel, Marcel. (See Guanella, G., Ernst, Lindecker, and Gabriel.)

Gardiner, Samuel J., Wichita, Kans. Recording device. 2,312,894; Mar. 2.

Garnier, Gustave, Paris, France; vested in the Alien Property Custodian. Enciphering apparatus. 2,313,012; Mar. 2.

Gartin, Elmer G., Claremont, N. H., assignor to Sullivan Machinery Company. Pressure fluid motor. 2,312,367; Mar. 2.

Gedris, Stanley J., assignor to Ideal Seating Company, Grand Rapids, Mich. Theater seat hinge. 2,312,638; Mar. 2.

Geigy, J. R., A. G. (See Bindler, Jakob, assignor.)

Geigy, J. R., A. G. (See Engel, K., and Pfaehler, assignors.)

Geigy, J. R., A. G. (See Martin, H., Zaeslin, Glatthaar, and Staub, assignors.)

Geldhof, Peter E., assignor to Nineteen Hundred Corporation, St. Joseph, Mich. Machine for washing clothes. 2,312,541; Mar. 2.

Gellendien, Walter, Berlin-Charlottenburg, and J. Eggert, Berlin, Germany, assignors, by mesne assignments, to "Patchem" A.-G. Zur Beteiligung an Patenten und Sonstigen Erfindungsrechten auf Chemische Verfahren, Zurich, Switzerland. Dressed and softened regenerated cellulose products. 2,312,708; Mar. 2.

General Aniline & Film Corporation. (See Bestian, Herbert, assignor.)

General Box Company. (See Olvey, George H., assignor.)

General Electric Company. (See Atchison, Leonard W., assignor.)

General Electric Company. (See Caldwell, A., and Elliott, assignors.)

General Electric Company. (See Caughey, Reed J., assignor.)

General Electric Company. (See D'Alello, Gaetano F., assignor.)

General Electric Company. (See D'Alello, G. F., and Underwood, assignors.)

General Electric Company. (See Everest, Alfred W., assignor.)

General Electric Company. (See Hoare, Stephen C., assignor.)

General Electric Company. (See Holm-Hansen, Osmund, assignor.)

General Electric Company. (See Morey, Arthur H., assignor.)

General Electric Company. (See Owens, Joseph W., assignor.)

General Electric Company. (See Rhoads, James C., assignor.)

General Electric Company, The. (See Stenning, Luis C., assignor.)

General Industries Company, The. (See Carrington, Blake W., assignor.)

General Motors Corporation. (See Demann, Clemens B., assignor.)

General Motors Corporation. (See Geyer, Harvey D., assignor.)

General Motors Corporation. (See Nichols, C. A., and Fauset, assignors.)

General Motors Corporation. (See Short, Brooks H., assignor.)

General Motors Corporation. (See Smith, Rolf M., assignor.)

General Time Instruments Corporation. (See Schlenker, Max, assignor.)

Gentil, Henri L., Cardiff, Wales, assignor to Alloy Processes Limited, Alderbourne, Buckinghamshire, England. Distillation and condensation of metals. 2,312,811; Mar. 2.

Geyer, Harvey D., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Automobile body construction. 2,312,812; Mar. 2.

Gillette Safety Razor Company. (See Testi, Nicholas, assignor.)

Gilli, Paul, and K. Velan, Vienna, Germany; vested in the Alien Property Custodian. Charging crane for fireless locomotives. 2,313,013; Mar. 2.

Glatthaar, Curt. (See Martin, H., Zaeslin, Glatthaar, and Staub.)

Gleason, Randolph E., P. H. Coffey, and G. Reuter, Roanoke, Va. Grave lining protection unit. 2,312,709; Mar. 2.

Golden State Company. (See Peebles, David D., assignor.)

Goldfinger, Paul, Brussels-Uccle, Belgium, assignor, by mesne assignments, to Chromogen, Incorporated. Photographic printing material and using the same. 2,312,543; Mar. 2.

Goldsmith Bros. Smelting & Refining Company. (See Devereux, Andrew R., assignor.)

Goldstein, Joseph, and C. A. Marks, New York, N. Y. Hat retainer. 2,312,813; Mar. 2.

Goldwater, Samuel J., Abernathy, Tex., assignor of two-thirds to O. O. Funderburg and W. W. Blackburn, Elk City, Okla. Valve for grease dispensers. 2,312,832; Mar. 2.

Goodlin, Carl L., Penn Township, Allegheny County, assignor to The Union Switch & Signal Company, Swissvale, Pa. Apparatus for control of highway crossing gate. 2,312,758; Mar. 2.

Goodman, Joseph S., Albany, N. Y. Optical instrument. 2,312,542; Mar. 2.

Goodrich, B. F., Company, The. (See Sarbach, Donald V., assignor.)

Gordon, Carlton C., Elsmere, assignor to Albany Felt Company, Albany, N. Y. Mechanical fabric. 2,312,710; Mar. 2.

Gordon, Harry K., Seattle, Wash. Self-reinforcing paper container. 2,312,895; Mar. 2.

Gordon-R-Company, The. (See Norberg, Harold, assignor.)

Gould, David C., and R. K. Lusk, Vancouver, British Columbia, Canada. Dispensing device. 2,312,544; Mar. 2.

Govanus, Elmert J., assignor to Punch-Lok Company, Chicago, Ill. Combination band pulling and punching tool. 2,312,400; Mar. 2.

Graenacher, Charles, Riehen, R. Sallmann, Bottmingen, and O. Albrecht, Munchenstein, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Condensation product and preparing same. 2,312,896; Mar. 2.

Graham, Donald P. (See Wuertz, A. J., and Graham.)

Graham, Donald P., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Dyestuffs of the anthraquinone series. 2,312,401; Mar. 2.

Graham, Isaiah, Omaha, Nebr. Fire escape elevator ladder. 2,312,833; Mar. 2.

Gramelspacher, Clarence U., Jasper, Ind. Veneer molding process. 2,312,332; Mar. 2.

Gramelspacher, Clarence U., Jasper, Ind. Veneer molding process. 2,312,333; Mar. 2.

Granjon, Stephane, Saint Etienne, France, assignor to Bendix Aviation Corporation, South Bend, Ind. Starter for internal combustion engines. 2,312,402; Mar. 2.

Grassick, Donald D., Chicago, Ill., assignor to Alfol Insulation Company, Inc. Heat insulating panel. 2,312,987; Mar. 2.

Greene, Edgeworth, Upper Montclair, N. J., and W. H. Forrest, Brooklyn, assignors to Inter-Seal Corporation, New York, N. Y. Nonrefillable bottle closure. 2,312,759; Mar. 2.

Greig, James W. (See Northrup, H. M., and Greig.)

Gröger, Rudolf, Hanau, Germany; vested in the Alien Property Custodian. Tempering furnace for small parts. 2,312,403; Mar. 2.

Gronemeyer, Fred G., Longmeadow, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Apparatus for treating plastic material. 2,312,639; Mar. 2.

Guanella, Gustav, and W. Ernst, Zurich, W. Lindecker, Ennethaden, and M. Gabriel, Baden, assignors, by mesne assignments, to "Patelhold" Patentverwertungs- & Elektro-Holding A.-G., Glarus, Switzerland. Transmitting signals. 2,312,897; Mar. 2.

Guilfoil, Oscar D., Jr., assignor to Muench-Kreuzer Candle Co., Inc., Syracuse, N. Y. Sanctuary oil lamp. 2,312,640; Mar. 2.

Gustin-Bacon Manufacturing Company. (See Stephens, Joseph F., assignor.)

Guyler, Albert F., W. H. Boaler, and W. E. Stanley, Spondon, near Derby, England, assignors to Celanese Corporation of America. Production of knitted fabrics. 2,312,334; Mar. 2.

Guyler, Albert F., W. H. Boaler, and W. E. Stanley, Spondon, near Derby, England, assignors to Celanese Corporation of America. Production of knitted fabrics. 2,312,965; Mar. 2.

Haack, Erich, Radebeul, near Dresden, Germany; vested in the Alien Property Custodian. Preparing N-sulphonylureas. 2,312,404; Mar. 2.

Haagen, Charles W., assignor to S. L. Allen & Co., Inc., Philadelphia, Pa. Spring trip mounting for cultivator steels. 2,312,405; Mar. 2.

Hagen, Wolfgang, Berlin, Germany; vested in the Alien Property Custodian. Anticoupled amplifier. 2,313,014; Mar. 2.

Hahn, Arthur, Balingen, Germany; vested in the Alien Property Custodian. Weighing machine. 2,312,406; Mar. 2.

Hahn, Otto W., assignor to Industrial Research Laboratories, Ltd., San Francisco, Calif. Gas pilot burner. 2,312,834; Mar. 2.

Hahn, Paul T., Detroit, Mich., assignor to The Hoover Company, North Canton, Ohio. Suction cleaner. 2,312,641; Mar. 2.

Halleck, Frank A., Michigan City, Ind., assignor to Sullivan Machinery Company. Compressor. 2,312,335; Mar. 2.

Ham, Garnet P., Old Greenwich, and R. B. Barnes, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Bluing coal. 2,312,898; Mar. 2.

Hamburger, Walter J., Dedham, assignor to H. Schindler & Co., Inc., Canton, Mass. Fishline package. 2,312,899; Mar. 2.

Hamill, James, West Orange, N. J. Vacuum pan. 2,312,407; Mar. 2.

Hamilton Manufacturing Company. (See Froelich, George E., assignor.)

Hanford, William E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polymeric material. 2,312,966; Mar. 2.

Hanford, William E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Chemical process and product. 2,312,967; Mar. 2.

Hansell, Clarence W., Port Jefferson, N. Y., assignor to Radio Corporation of America. Short wave radio system. 2,312,835; Mar. 2.

Hansen, Harry, Clifton, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Contact spring assembly. 2,312,408; Mar. 2.

Hansen Mfg. Company. (See Hansen, W. L., and Hurst, assignors.)

Hansen, William L., and I. N. Hurst, assignor to Hansen Mfg. Company, Inc., Princeton, Ind. Balanced brush for electric motors. 2,312,900; Mar. 2.

Harris, Alonzo V., Farmington, N. Mex. Placer screen. 2,312,409; Mar. 2.

Harrison, Thomas R., Wyncote, assignor to The Brown Instrument Company, Philadelphia, Pa. Control apparatus. 2,312,711; Mar. 2.

Harriss, Lloyd J., Kenilworth, and B. Lambers, Oak Park, Ill., said Lambers assignor to said Harriss. Method and apparatus for making pies. 2,312,814; Mar. 2.

Hartline, Ralph E., Swissvale, assignor to Mine Safety Appliances Company, Pittsburgh, Pa. Fluid pump. 2,312,712; Mar. 2.

Hartmann, Max, Riehen, and F. Benz, Allschwil, Switzerland, assignors to Ciba Pharmaceutical Products, Incorporated. Preparing gonadotropic pituitary hormones. 2,312,901; Mar. 2.

Harvey, Herbert, Los Angeles, assignor to L. M. Harvey, La Canada, Calif. Valve mechanism. 2,312,815; Mar. 2.

Harvey, James O. (See Mohr, E. L., and Harvey.)

Harvey, Leo M. (See Harvey, Herbert, assignor.)

Haug, Anton J., Nashua, N. H. Centrifugal screening machine for paper stock and similar material. 2,312,543; Mar. 2.

Hauguel, Robert, Le Havre, France; vested in the Alien Property Custodian. Device for the control of the fuel supply of engines. 2,313,000; Mar. 2.

Hawk, Henry W. N. (See Bokovoy, S. A., and Hawk.)

Hazard, John G., and A. E. Arslan, Los Angeles, assignors to Vultee Aircraft, Inc., Vultee Field, Calif. Airplane aileron. 2,312,546; Mar. 2.

Hazeltine Corporation. (See Curtis, Leslie F., assignor.)

Head, John S., assignor of one-fourth to M. Purvis and one-fourth to J. B. Reeves, Florence, S. C. Waste retainer for journal boxes. 2,312,713; Mar. 2.

Heberlein Patent Corporation. (See Lorenz, F., and Weiss, assignors.)

Heftler, Victor R., Grosse Pointe Park, Mich. Carburetor. 2,312,816; Mar. 2.

Heftler, Victor R., Grosse Pointe Park, Mich. Cylinder liner. 2,312,817; Mar. 2.

Heftler, Victor R., Grosse Pointe Park, Mich. Carburetor. 2,312,818; Mar. 2.

Heftler, Victor R., Grosse Pointe Park, Mich. Piston and rod connection for pumps. 2,312,819; Mar. 2

Heidegger, Henry, Brooklyn, assignor to International Projector Corporation, New York, N. Y. Sprocket mechanism. 2,312,760; Mar. 2.

Heltzel, Joseph W., Warren, Ohio. Concrete floating and brick surfacing machine. 2,312,968; Mar. 2.

Henderson, Lawrence M. (See Risk, T. H., Henderson, and Wilder.)

Henderson, Lawrence M., Winnetka, and G. W. Ayers, Jr., assignors to The Pure Oil Company, Chicago, Ill. Removing mercaptans from petroleum oil. 2,312,820; Mar. 2.

Herbin, Oscar, Le Fidelaire, Eure, France; vested in the Alien Property Custodian. Gas mask for horses. 2,312,714; Mar. 2.

Hercules Powder Company. (See Borglin, Joseph N., assignor.)

Hercules Powder Company. (See Rochford, E. P., Stuart, H., and Wassen, assignors.)

Herriger, Felix. (See Berger, H., and Herriger.)

Herschede, William F., Forestville, and W. N. Woodruff, Cincinnati, Ohio, assignors, by mesne assignments, to International Vehicular Parking, Ltd., Washington, D. C. Coin control apparatus. 2,312,836; Mar. 2.

Hershberger, William D., Haddonfield, N. J., assignor to Radio Corporation of America. Sweep circuit generator for cathode ray tubes. 2,312,761; Mar. 2.

Herzenberg, Alfred J., Houston, Tex., assignor to Shell Development Company, San Francisco, Calif. Seismic exploration method. 2,312,642; Mar. 2.

Hesse, Holger L., Vedbaek near Copenhagen, Denmark; vested in the Alien Property Custodian. Apparatus for keeping constant temperature. 2,313,015; Mar. 2.

Hester, William F. (See Craig, W. E., and Hester.)

Hewitt, Imla E., Jr., Springfield, Ill. Device as an aid in shoe fitting. 2,312,410; Mar. 2.

Hickman, Clarence N., Jackson Heights, and E. Lakatos, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Relay. 2,312,902; Mar. 2.

Higgins, Andrew J., assignor to Higgins Industries, Inc., New Orleans, La. Boat hull construction. 2,312,548; Mar. 2.

Higgins Industries, Inc. (See Higgins, Andrew J., assignor.)

Hildebrecht, Charles V., Chicago, Ill., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis. Burner control apparatus. 2,312,547; Mar. 2.

Hill, Albert E., Syracuse, N. Y. Rail joint. 2,313,034; Mar. 2.

Hiner, Henry E., Milton, W. Va. Speed governor for internal combustion engines. 2,312,549; Mar. 2.

Hirt, Walter, Wetzikon, and A. Dürsteler, Zurich, Switzerland. Ladderproof knitting. 2,312,903; Mar. 2.

Hoare, Stephen C., Manchester, Mass., assignor to General Electric Company. Power factor meter. 2,312,904; Mar. 2.

Hoettels, Walter, Milwaukee, assignor to Nash-Kelvinator Corporation, Kenosha, Wis. Lock plate. 2,312,643; Mar. 2.

Holliday, Theodore B., Dayton, Ohio. Indicating device. 2,312,336; Mar. 2.

Holm-Hansen, Osmund, Bridgeport, Conn., assignor to General Electric Company. Vacuum cleaner. 2,312,905; Mar. 2.

Holmes, Robert L., Roselle, and H. C. De Hoff, Roselle Park, N. J., assignors to Stanco, Incorporated. Emulsion for burn treatment. 2,312,715; Mar. 2.

Holophane Company, Inc. (See Williams, Stuart R., assignor.)

Hooper, Roy S., et al. (See McDougall, Stanley W., assignor.)

Hoover Company, The. (See Bixler, Milo E., assignor.)
Hoover Company, The. (See Hahn, Paul T., assignor.)
Hopkes, Henry, Grosse Pointe, assignor to No-Sag Spring Company, Detroit, Mich. Unit box spring and mattress. 2,312,411; Mar. 2.
Hopkins, Frank H., Fairfield, Conn., assignor to Manning, Maxwell & Moore, Incorporated, New York, N. Y. Pressure gauge. 2,312,716; Mar. 2.
Horenstein, Schmid H., Berlin-Halensee, and H. Pählicke, Berlin-Reinickendorf, Germany; vested in the Alien Property Custodian. Production of alkamine esters. 2,313,016; Mar. 2.
Hornbostel, Lloyd, assignor to Beloit Iron Works, Beloit, Wis. Method and apparatus for slitting rolls. 2,312,550; Mar. 2.
Horr, John V., Hastings-on-Hudson, assignor to Einson-Freeman Co., Inc., Long Island City, N. Y. Cardboard display device. 2,312,644; Mar. 2.
Horton, Reuben H., and J. W. Patton, assignors to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Double deck sleeping car. 2,312,906; Mar. 2.
Hoskins, Lynn W., Knoxville, Tenn. Birdhouse. 2,312,551; Mar. 2.
Houdaille-Hershey Corporation. (See Baker, Edwin M., assignor.)
Houdaille-Hershey Corporation. (See Fergueson, Arthur P., assignor.)
Houdaille-Hershey Corporation. (See Fergueson, A. P., and Schueren, assignors.)
Huber, Adolf, Uetikon, Switzerland. Treadle lever drive, especially for bicycles. 2,312,645; Mar. 2.
Huber, Matthew W., Chicago, Ill., assignor to Hydraulic Controls, Inc. Work cylinder. 2,312,412; Mar. 2.
Hudson, John M., Downey, assignor to Vultee Aircraft, Inc., Vultee Field, Calif. Airplane tail wheel structure. 2,312,553; Mar. 2.
Hudson Motor Car Company. (See Northrup, H. M., and Greig, assignors.)
Huenlich, Charles, Bloomfield, assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Cabinet. 2,312,907; Mar. 2.
Hughes, Leigh E., Indianapolis, Ind. Hydraulic well pump. 2,312,337; Mar. 2.
Hulme, John F., U. S. Army. Anchor bolt insert. 2,312,338; Mar. 2.
Hunt, Charles C., Utica, Ohio. Steering trailer. 2,312,646; Mar. 2.
Hurst, Ira N. (See Hansen, W. L., and Hurst.)
Hurum, Fredrik, Trondheim, Norway; vested in the Alien Property Custodian. Internal combustion engine. 2,313,017; Mar. 2.
Hussey, Russell B., and C. K. Jones, Springfield, Mass. Apparatus for processing sensitized sheets. 2,312,647; Mar. 2.
Hutchins, Hugh A., Arcadia, Calif. Power unit. 2,312,552; Mar. 2.
Hydraulic Controls, Inc. (See Huber, Matthew W., assignor.)
Hydraulic Development Corporation. (See Tucker, Warren R., assignor.)
Ibañez, Francisco R., Mexico City, Mexico. Mechanism for transmitting power. 2,312,908; Mar. 2.
Ideal Seating Company. (See Gedris, Stanley J., assignor.)
Iler, Ralph K., East Cleveland, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Manufacture of fluosulphonates. 2,312,413; Mar. 2.
Imbert, Roger. (See Anxionnaz, R., and Imbert.)
Industrial Research Laboratories, Ltd. (See Han, Otto W., assignor.)
Ingersoll Milling Machine Company, The. (See Oberhoffken, Alexander, assignor.)
International Harvester Company. (See Johnston, Roy B., assignor.)
International Harvester Company. (See Welty, Albert B., assignor.)
International Photo Recording Machines, Inc. (See Oiler, Frank E., assignor.)
International Projector Corporation. (See Heidegger, Henry, assignor.)
International Standard Electric Corporation. (See Litton, Charles V., assignor.)
International Standard Electric Corporation. (See McLarn, Ernest S., assignor.)
International Vehicular Parking, Ltd. (See Herschede, W. F., and Woodruff, assignors.)
Inter-Seal Corporation. (See Greene, E., and Forrest, assignors.)
Iowa Manufacturing Company. (See Pollitz, Harold C., assignor.)
Jacques, Jean, Philadelphia, Pa. Riveting apparatus. 2,312,554; Mar. 2.
Jasco, Incorporated. (See Cohen, Charles A., assignor.)
Jason, Jacob R., New York, N. Y. Stacking articles. 2,312,821; Mar. 2.
Jayne, David W., Jr. (See Christmann, L. J., Jayne, Jr., and Erickson.)
Jayne, David W., Jr. (See Erickson, S. E., and Jayne, Jr.)
Jayne, David W., Jr., Old Greenwich, Conn., S. E. Erickson, Calumet, Minn., and H. M. Day, Cos Cob, Conn., assignors to American Cyanamid Company, New York, N. Y. Concentrating ore materials. 2,312,414; Mar. 2.
Jeffery, Joseph A., Detroit, Mich., assignor to Champion Spark Plug Company, Toledo, Ohio. Spark plug. 2,312,909; Mar. 2.
Jennings, Harley Y., Clio, assignor to Copeman Laboratories Company, Flint, Mich. Recovery apparatus. 2,312,910; Mar. 2.
Jennings, Irving C., South Norwalk, Conn. Pump. 2,312,837; Mar. 2.
Jens, Albert A. (See Williams, H. O., and Jens.)
Jens, Albert A., assignor to E. E. Johnson, Incorporated, St. Paul, Minn. Welding the ends of supporting rods to end fittings of well screens. 2,312,415; Mar. 2.
Jepson, Ivar, assignor to Chicago Flexible Shaft Company, Chicago, Ill. Coffee maker. 2,312,555; Mar. 2.
Jepson, Ivar, assignor to Chicago Flexible Shaft Company, Chicago, Ill. Coffee maker. 2,312,556; Mar. 2.
Jewtraw, Charles, New York, N. Y. Skating shoe and the like. 2,312,911; Mar. 2.
Joffe, Morris H., assignor to The Emulsol Corporation, Chicago, Ill. Salad dressing. 2,313,033; Mar. 2.
Johnson, Edward E., Incorporated. (See Jens, Albert A., assignor.)
Johnson, Edward E., Incorporated. (See Williams, H. O., and Jens, assignors.)
Johnson & Johnson. (See Stonehill, Albert A., assignor.)
Johnson Laboratories, Inc. (See Sinninger, Dwight V., assignor.)
Johnson, Richard A. S., Chicago, Ill. Constant current transformer. 2,312,416; Mar. 2.
Johnson Service Company. (See Otto, Carl A., assignor.)
Johnston, Allan T. (See O'Hagan, B. E., and Johnston.)
Johnston, Roy B., Moline, Ill., assignor to International Harvester Company. Harvester-thresher. 2,312,838; Mar. 2.
Jonas, Frank D., East Williston, assignor to Oxford Filing Supply Co., Brooklyn, N. Y. Multiple suspension file. 2,312,717; Mar. 2.
Jones, Cecil K. (See Hussey, R. B., and Jones.)
Jones, Dudley G., Aldwych, London, England. Pump, compressor, or hydraulic motor. 2,312,417; Mar. 2.
Jones, Insley P. (See Ferguson, R. P., and Jones.)
Jones, Lloyd, North East, Pa. Metal rolling mill. 2,312,648; Mar. 2.
Jones, Robert L., Evanston, Ill., assignor to Carrier Corporation, Syracuse, N. Y. Smokehouse, N. Y. Smokehouse apparatus. 2,312,339; Mar. 2.
Jönsson, Nils W., Obbola, Sweden. Apparatus for controlling in grading, draining, or washing fibrous suspended material. 2,312,969; Mar. 2.
Joyce, Robert M., Greenville, Miss. Establishing the moisture content of ginned cotton. 2,312,557; Mar. 2.
Julien, Maurice F. A., Paris, France; vested in the Alien Property Custodian. Resilient transmission joint. 2,312,470; Mar. 2.
Julien, Maurice F. A., and Y. A. Rocard, Paris, France; vested in the Alien Property Custodian. Resilient suspension, particularly for bodies driven with a rotary motion. 2,312,822; Mar. 2.
K-D Lamp Company, The. (See Trautner, Wagn, assignor.)
Kahn, David, Inc. (See Para, John W., assignor.)
Kane & Roach, Inc. (See Kane, William E., assignor.)
Kane, William E., assignor to Kane & Roach, Inc., Syracuse, N. Y. Wrapping roll for bending machines. 2,312,988; Mar. 2.
Kauffman, Walter L., II, assignor to Lovell Manufacturing Company, Erie, Pa. Wringer. 2,312,762; Mar. 2.
Keller, Arthur M., Livingston, J. H. Buckman, Cranford, and A. J. Miller, Garwood, N. J., assignors to The Linde Air Products Company. Process and apparatus for conditioning the surfaces of metal bodies. 2,312,418; Mar. 2.
Kelliher, Francis B., assignor to Whitin Machine Works, Whitinsville, Mass. Knock-off mechanism for drawing frames. 2,312,558; Mar. 2.
Kelly, Daniel A., assignor to The Prime Manufacturing Company, Milwaukee, Wis. Switch signal. 2,312,649; Mar. 2.
Kent Hardware Mfg. Corp. (See Nisenson, Jules, assignor.)
Kiersted, Wynkoop, Jr., Scarsdale, assignor, by mesne assignments, to The Texas Company, New York, N. Y. Solvent refining of oil and recovery of the solvent. 2,312,912; Mar. 2.
Killebrew, R. H. (See Messner, Daryle, assignor.)
Kilpatrick, Howard M., New York, N. Y. Check controlled and dispensing turnstile and other device. 2,312,340; Mar. 2.
King, Franklin, Narrows, Va., assignor to Celanese Corporation of America. Tensiometer. 2,312,419; Mar. 2.
King, Robert J. (See Andrews, R., and King.)
King, Walter E., Houston, Tex. Packed swivel joint. 2,312,341; Mar. 2.
Kingston Products Corporation. (See Zimmerer, Mark E., assignor.)
Kirby, James E., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Polyamide coated film element. 2,312,913; Mar. 2.
Klockau, William F., Moline, Ill. Oil burner. 2,312,559; Mar. 2.
Knight, Frederick S. (See Freeman, B. W., and Knight.)
Knochel, William J. (See Marshall, D. E., and Knochel.)

Knol, Kornelis S. (See van der Ziel, A., Strutt, and Knol.)
Koch, Otto C., assignor to F. W. Stewart Manufacturing Corporation, Chicago, Ill. Radio control assembly. 2,312,650; Mar. 2.
Koehler Manufacturing Company. (See Wheat, Grant, assignor.)
Komives, Laszlo I., and J. D. Piper, Detroit, Mich. Cable joint and process. 2,312,652; Mar. 2.
Koolnis, Stanley R., New York, N. Y. Apparatus for loading and folding bottle carrier cartons. 2,312,651; Mar. 2.
Kopf, Emil, and R. Wasmuht, Dortmund, Germany; vested in the Alien Property Custodian. High pressure container. 2,312,420; Mar. 2.
Korpi, Karl, Redondo Beach, assignor to Union Oil Company of California, Los Angeles, Calif. Treating hydrocarbons containing olefins. 2,312,560; Mar. 2.
Koschmieder, Kurt, Berlin, Germany; vested in the Alien Property Custodian. Direction finding system. 2,312,421; Mar. 2.
Koszeghy, Stephen, West New York, N. J. Work holding device. 2,312,914; Mar. 2.
Kouyoumjian, Haroutium K., Wakefield, R. I. Shock absorber. 2,312,718; Mar. 2.
Kraus, Josef. (See Rabald, E., and Kraus.)
Krause, Friedrich, Berlin, Germany; vested in the Alien Property Custodian. Electrostatic electron lens. 2,313,018; Mar. 2.
Krider, George E., Duncansville, Pa. Crusher plate support for roll crushers. 2,312,823; Mar. 2.
Kroger, Fred H., Los Angeles, Calif., assignor to Radio Corporation of America. Communication system. 2,312,824; Mar. 2.
Kuhl, Paul E., Madison, N. J., assignor to Standard Oil Development Company. Cracking process. 2,312,719; Mar. 2.
Kullman, Alfred, and T. A. Waltz, assignors to The American Tool Works Company, Cincinnati, Ohio. Flame hardening of rack bars. 2,312,839; Mar. 2.
Kumlin, George C., and J. W. Meckenstock, assignors to Meckum Engineering, Inc., Chicago, Ill. Dredge pump. 2,312,422; Mar. 2.
Kuphal, Henry E., Sacramento, Calif. Wooden culvert. 2,312,653; Mar. 2.
Kurtz, Edward F., assignor to Metals & Controls Corporation, Attleboro, Mass. Protective circuit. 2,312,915; Mar. 2.
Lakatos, Emor. (See Hickman, C. N., and Lakatos.)
Lambers, Bernard. (See Harriss, L. J., and Lambers.)
Lang, Albert, Berkeley, Calif. Casement window operator. 2,312,720; Mar. 2.
Lang, Albert, assignor to Roll-Away Window Screen Company, Berkeley, Calif. Window screen frame. 2,312,721; Mar. 2.
Lang, Walter B., Washington, D. C. Zeroizing mechanism. 2,312,342; Mar. 2.
Langdon, Jesse D., Los Angeles, Calif. Siphonless cock assembly. 2,312,654; Mar. 3.
Lansdale, Benjamin C., assignor to Echlin Manufacturing Company, San Francisco, Calif. Electrical measuring apparatus. 2,312,840; Mar. 2.
Lapointe Machine Tool Company, The. (See Phaneuf, Wilrose J., assignor.)
Laros, R. K., Silk Co., The. (See Barney, Jerome, assignor.)
Lathers, Matthew F., Orlando, Fla. Game. 2,312,423; Mar. 2.
Lauck, John A., South Euclid, assignor to Pump Engineering Service Corporation, Cleveland, Ohio. Pump. 2,312,655; Mar. 2.
Lavarack, Frederick C., Montclair, N. J., assignor to Railroad Accessories Corporation, New York, N. Y. Rail bond. 2,312,989; Mar. 2.
Le Bus, Frank L., Longview, Tex. Whipstock deflecting tool. 2,312,656; Mar. 2.
Leeds & Northrup Company. (See Williams, Albert J., Jr., assignor.)
Legerlotz, Helmut, Paris, France, assignor, by mesne assignments, to Ciba Pharmaceutical Products, Incorporated, Summit, N. J. Meta-hydroxyphenyl-ethanolamine and making the same. 2,312,916; Mar. 2.
Lehane, Timothy J., assignor to Vapor Car Heating Company, Inc., Chicago, Ill. Wattage regulator. 2,312,917; Mar. 2.
Lentz, Anton, Heidleberg, Germany; vested in the Alien Property Custodian. Lifting mechanism for tractor operated implements. 2,312,424; Mar. 2.
Leonard, Anthon A., Glenside, Pa., assignor to De Jur-Amsco Corporation, Shelton, Conn. Photographic enlarger. 2,312,561; Mar. 2.
Leonard, Anthon A., Glenside, Pa., and O. Boesel, assignors to De Jur-Amsco Corporation, Shelton, Conn. Photographic apparatus. 2,312,562; Mar. 2.
LePiane, Frank, Roosevelt, N. Y. Wrench. 2,312,425; Mar. 2.
Lermont, Basil, assignor to Cairns Corporation, New York, N. Y. Metal boat. 2,312,722; Mar. 2.
Leveque, Charles J., Goose Creek, Tex. Toilet paper roll holder. 2,312,825; Mar. 2.
Lewers, Hamilton M., Plymouth, assignor to The Permanente Corporation, Oakland, Calif. Hydraulic classifier. 2,312,563; Mar. 2.
Lewis, Howard B., Venice, assignor to B. F. McDonald Company, Los Angeles, Calif. Protective armor. 2,312,841; Mar. 2.
Lewis, Joseph H., assignor to Blue Ridge Glass Corporation, Kingsport, Tenn. Apparatus for the manufacture of sheet glass. 2,312,564; Mar. 2.
Leyden, Joseph, Marshall, Mich. Hydraulic cleaner for drains and the like. 2,312,826; Mar. 2.
Liddel, Urner, Greenwich, and R. B. Barnes, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Producing Bunsen's salt. 2,312,918; Mar. 2.
Llerg, Friedrich, Vienna, Germany; vested in the Alien Property Custodian. Planographic printing form. 2,312,499; Mar. 2.
Linde Air Products Company, The. (See Keller, A. M., Bucknam, and Miller, assignors.)
Lindecker, Werner. (See Guanella, G., Ernst, Lindecker, and Gabriel.)
Lindenblad, Nils E., Port Jefferson, N. Y., assignor to Radio Corporation of America. Coupling circuit. 2,312,827; Mar. 2.
Link-Belt Company. (See Weiss, C. R., and Parker, assignors.)
Linquist, William, assignor to A. L. Austin, Cleveland, Ohio, as trustee. Welding rod holder. 2,312,763; Mar. 2.
Lintz, Mark, San Francisco, Calif. Vibrating screen. 2,312,343; Mar. 2.
Lionel Corporation, The. (See Bonanno, J. L., and Ehret, assignors.)
Lionel Corporation, The. (See Smith, Richard G., assignor.)
Lippitt, Stephen W., Cleveland, Ohio. Flat knitting machine. 2,312,565; Mar. 2.
Litton, Charles V., Redwood City, Calif., assignor to International Standard Electric Corporation, New York, N. Y. Modulation system for velocity modulation tubes. 2,312,919; Mar. 2.
Litton, Charles V., Redwood City, Calif., assignor to International Standard Electric Corporation, New York, N. Y. Anode cooling jacket. 2,312,920; Mar. 2.
Llewellyn, Frederick B., Verona, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge device. 2,312,723; Mar. 2.
Locke, Arthur A., assignor to Miller Laundry Machinery Company, Detroit, Mich. Washing machine. 2,312,657; Mar. 2.
Lofgren, Gustaf E., Riverside, Conn., assignor to Electrolux Corporation, New York, N. Y. Vacuum cleaner. 2,312,426; Mar. 2.
Logemann, Willy, Berlin-Charlottenburg, Germany, assignor, by mesne assignments, to Schering Corporation, Bloomfield, N. J. Polyhydric alcohols of the etiocholane and pregnane series and the manufacture thereof. 2,312,344; Mar. 2.
Lohse, Julius, Berlin-Wilmersdorf, Germany; vested in the Alien Property Custodian. Metallurgical process. 2,313,019; Mar. 2.
Lomax, Clarence E., Oak Park, assignor to Associated Electric Laboratories, Inc., Chicago, Ill. Automatic switching apparatus. 2,312,427; Mar. 2.
Loomis, Frank K., New Paltz, N. Y. Wheel. 2,312,345; Mar. 2.
Lorenz, Fritz, and E. Weiss, Wattwil, Switzerland, assignors to Heberlein Patent Corporation, New York, N. Y. Producing fast dyed patterned parchmentized fabrics. 2,312,346; Mar. 2.
Lorig, Edwin T., Dermont, Pa. Apparatus for coiling strip materials and the like. 2,312,428; Mar. 2.
Loud, Edgar R. (See Woller, J. P., and Loud.)
Lovell Manufacturing Company. (See Kauffman, Walter L., II., assignor.)
Low, John J., Los Angeles, Calif. Sheep foot tamper. 2,312,471; Mar. 2.
Lubke, Henry G., assignor to The Wittemann Company, Inc., Buffalo, N. Y. Method and apparatus for straining liquids. 2,312,764; Mar. 2.
Lubow, Morris, Brooklyn, assignor to Wolf X-Ray Products Inc., New York, N. Y. X-ray-proof glove. 2,312,921; Mar. 2.
Lucan, Fritz, Berlin-Nikolassee, Germany; vested in the Alien Property Custodian. Igniting and operating circuit for electric discharge tubes. 2,312,429; Mar. 2.
Ludwig, Anthony. (See Foy, Bernard J., assignor.)
Luff, Henry J., Cleveland, Ohio, assignor to J. A. Zurn Manufacturing Company, Erie, Pa. Combined soil waste and vent fitting. 2,312,658; Mar. 2.
Luff, Henry J., Cleveland, Ohio, assignor to J. A. Zurn Manufacturing Company, Erie, Pa. Combined soil waste and vent fitting. 2,312,659; Mar. 2.
Lum, George R., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone calling dial device. 2,312,566; Mar. 2.
Lundstrom, Alexis A., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signaling system. 2,312,724; Mar. 2.
Lusk, Robert K. (See Gould, D. C., and Lusk.)
Lyon, George A., Allenhurst, N. J. Sailing craft. 2,312,567; Mar. 2.
Lyon, George A., Allenhurst, N. J. Wheel cover structure and assembly. 2,312,568; Mar. 2.
Lyon Metal Products, Incorporated. (See Bales, James E., assignor.)

Lyon Metal Products, Incorporated. (See O'Connor, John B., assignor.)
Madsen, Sern, assignor to Mattison Machine Works, Rockford, Ill. Dressing device. 2,312,347; Mar. 2.
Maga, Joe, Los Angeles, Calif. Lawn edger. 2,312,569; Mar. 2.
Magill, Warren C., Jeffersonville, Ind., assignor to Sears, Roebuck and Co., Chicago, Ill. Finishing textile fabrics. 2,312,348; Mar. 2.
Magnuson, Roy M., Campbell, assignor to Food Machinery Corporation, San Jose, Calif. Pump piston packing. 2,312,430; Mar. 2.
Malone, Homer E., assignor to Perfex Corporation, Milwaukee, Wis. Control device. 2,312,349; Mar. 2.
Mann, Philip, Dover, N. J. Automatic machine for drilling, reaming, etc. 2,312,922; Mar. 2.
Manning, Maxwell & Moore, Incorporated. (See Hopkins, Frank H., assignor.)
Mark, Charles A. (See Goldstein, J., and Marks.)
Marshall, Donald E., Allwood, and W. J. Knochel, Irvington, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Discharge device. 2,312,350; Mar. 2.
Martin, Henry, Basel, H. Zaeslin, Riehen near Basel, C. Glatthaar, and A. Staub, assignors to the firm J. R. Geigy A. G., Basel, Switzerland. Mothproofing composition. 2,312,923; Mar. 2.
Masterson, Avy V., et al. (See Riesen, Schiller R., assignor.)
Mathieu, Frédéric, Paris, France; vested in the Alien Property Custodian. Driving mechanism. 2,313,001; Mar. 2.
Mattison Machine Works. (See Madsen, Sern, assignor.)
Mayers, Horace C. (See Shaw, William F., assignor.)
Mazzucchelli, Arthur P. (See Meharg, V. E., and Mazzucchelli.)
McArdle, Beryl L., assignor to United Steel and Wire Company, Battle Creek, Mich. Shelf or rack suitable for refrigerators or the like. 2,312,765; Mar. 5.
McBurney, John D., Newburgh, N. Y., and E. H. Nollau, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Semistiff collar and preparing same. 2,312,925; Mar. 2.
McCarthy, Lawrence J., Maywood, assignor to Sears, Roebuck and Co., Chicago, Ill. Can opener spout. 2,312,351; Mar. 2.
McDonald, B. F., Company. (See Lewis, Howard B., assignor.)
McDougall, Stanley W., assignor of one-third to J. Fox and one-third to R. S. Hooper, Kellogg, Idaho. Miner's drill carriage. 2,312,660; Mar. 2.
McGraw Electric Company. (See Osterheld, Clark M., assignor.)
McGregor, Thurman M. (See Culver, M. K., and McGregor.)
McKee, Charles H., Chicago, Ill., assignor to Punch-Lok Company. Hose clamp. 2,312,575; Mar. 2.
McLarn, Ernest S., Manhasset, assignor to International Standard Electric Corporation, New York, N. Y. Telephone cord connector. 2,312,970; Mar. 2.
McNicoll, Andrew G., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Clock thermostat. 2,312,842; Mar. 2.
Meckenstock, John W. (See Kumlin, G. C., and Meckenstock.)
Meckum Engineering, Inc. (See Kumlin, G. C., and Meckenstock, assignors.)
Meharg, Virgil E., and A. P. Mazzucchelli, Bloomfield, N. J., assignors to Bakelite Corporation. Oil-modified composition and its preparation. 2,312,431; Mar. 2.
Meier, Henry J., Chicago, Ill. Boiler feed water conditioning equipment and method. 2,312,570; Mar. 2.
Mennesson, Marcel, Neuilly-sur-Seine, France; vested in the Alien Property Custodian. Operative fluid delivery control device. 2,313,002; Mar. 2.
Mercier, Jean, Neuilly-sur-Seine, France; vested in the Alien Property Custodian. Control of two or more concomitant devices. 2,312,432; Mar. 2.
Merki, Ernest, Portland, Oreg. Pruning hook. 2,312,766; Mar. 2.
Messner, Daryle, assignor of one-half to R. H. Killebrew, Des Moines, Iowa. Supercharger for model motors. 2,312,661; Mar. 2.
Metals & Controls Corporation. (See Kurtz, Edward F., assignor.)
Meyer, Gustav, Friedrichshafen-on-the-Bodensee, Germany; vested in the Alien Property Custodian. Device for operating change speed gears in motor vehicles. 2,312,433; Mar. 2.
Meyer, Hans, assignor to Aktiengesellschaft Brown, Boverie & Cie, Baden, Switzerland. Arrangement for reducing equalizing oscillations. 2,312,571; Mar. 2.
Meyerhoefer, Carl E., assignor to E. A. Laboratories, Inc., Brooklyn, N. Y. Heater. 2,312,767; Mar. 2.
Mickler, Arnold P., Orlando, Fla. Locking mechanism for vehicle doors. 2,312,352; Mar. 2.
Midulla, Joseph B. (See Niemczynski, B. J., Midulla, Joseph B. and Joseph D.)
Midulla, Joseph D. (See Niemczynski, B. J., Midulla, Joseph B. and Joseph D.)
Mikeska, Louis A. (See Arundale, E., and Mikeska.)
Miller, Alfred J. (See Keller, A. M., Bucknam, and Miller.)
Miller Company, The. (See Donnelly, James, assignor.)
Miller, John H., Short Hills, assignor to Weston Electrical Instrument Corporation, Newark, N. J. Electrical measuring instrument. 2,312,990; Mar. 2.
Miller, Kinney I., Lancaster, Mo. Chick box lid. 2,312,662; Mar. 2.
Miller Laundry Machinery Company. (See Locke, Arthur A., assignor.)
Miller, Raymond J., assignor to American Pattern and Manufacturing Co., Detroit, Mich. Motion picture projector. 2,312,663; Mar. 2.
Miller, Wayland R., assignor to Perfex Corporation, Milwaukee, Wis. Control system. 2,312,353; Mar. 2.
Milwaukee Gas Specialty Company. (See Hildebrecht, Charles V., assignor.)
Mine Safety Appliances Company. (See Dauster, John F., assignor.)
Mine Safety Appliances Company. (See Hartline, Ralph E., assignor.)
Miner, Irvin O., Rumford, assignor to Builders Iron Foundry, Providence, R. I. Instrument mounting. 2,312,926; Mar. 2.
Minneapolis-Honeywell Regulator Company. (See McNicoll, Andrew G., assignor.)
Mitchell, Isaac A., Brooklyn, N. Y. Voltage regulator. 2,312,768; Mar. 2.
Mohr, Earl L., and J. O. Harvey, Sioux City, Iowa. Airtight cold storage compartment. 2,312,664; Mar. 2.
Moir, Harry L. (See Backoff, W. J., Williams, O'Loughlin, Moir, and Yule.)
Monsanto Chemical Company. (See Brooks, J. C., and Derby, assignors.)
Monsanto Chemical Company. (See Derby, Elmer R., assignor.)
Monsanto Chemical Company. (See Gronemeyer, Fred G., assignor.)
Monsanto Chemical Company. (See Parkhurst, Frederic A., assignor.)
Moohl, Johan G. (See Motch, E. R., Jr., and Moohl.)
Moore, Edward B., Chicago, Ill. Screening apparatus. 2,312,665; Mar. 2.
Morey, Arthur H., Erie, Pa., assignor to General Electric Company. Locomotive drive arrangement. 2,312,924; Mar. 2.
Morris, Charles E., Little Rock, Ark. Cotton chopper. 2,312,666; Mar. 2.
Morris, Daniel L. (See Stiefel, Fred W., assignor.)
Morey, Glen H., Terre Haute, Ind., and F. E. Frey, Bartlesville, Okla., assignors to Phillips Petroleum Company. Preparing and treating catalysts. 2,312,572; Mar. 2.
Morway, Arnold J., Clark Township, Union County, and J. C. Zimmer, Union, N. J., assignors to Standard Oil Development Company. Grease and manufacture thereof. 2,312,725; Mar. 2.
Mosling, Bernhard A., Oshkosh, Wis. Trailer and coupling therefor. 2,312,769; Mar. 2.
Motch, Edwin R., Jr., Cleveland, and J. G. Moohl, Cleveland Heights, assignors to The Motch & Merryweather Machinery Company, Cleveland, Ohio. Rotary tool machine. 2,312,573; Mar. 2.
Motch & Merryweather Machinery Company, The. (See Motch, E. R., Jr., and Moohl, assignors.)
Moxley, William M., Kansas City, Mo. Closure for receptacles. 2,312,843; Mar. 2.
Moxley, William M., Kansas City, Mo. Combined switch and spare bulb carrier for electric hand lanterns. 2,312,844; Mar. 2.
Muench-Kreuzer Candle Co. (See Guilfoil, Oscar D., Jr., assignor.)
Munro, George C. (See Bradner, D. B., and Munro.)
Munro, George C., assignor to The Champion Paper and Fibre Company, Hamilton, Ohio. Hydraulic calender. 2,312,726; Mar. 2.
Murnane, Daniel J., Hollywood, Calif., deceased, G. E. and G. D. Murnane, administratrices. Safety glass setting. 2,312,667; Mar. 2.
Murnane, Gertrude D., et al., administratrices. (See Murnane, Daniel J.)
Murnane, Grace E., et al., administratrices. (See Murnane, Daniel J.)
Murray, John D., assignor to Murray Liquafilm Corporation, Chicago, Ill. Coating of paper. 2,312,927; Mar. 2.
Murray Liquafilm Corporation. (See Murray, John D., assignor.)
Nash-Kelvinator Corporation. (See Hoettels, Walter, assignor.)
Nash-Kelvinator Corporation. (See Vollrath, Edwin C., assignor.)
Nathan, Herbert J., Bismarck, N. Dak. Carrier for poppet type engine valves. 2,312,434; Mar. 2.
National Pressed Steel Barrel Company. (See Fulenwider, H., and Weatherby, assignors.)
Nelson, Jennings, St. Paul, Minn. Razor blade holder. 2,312,770; Mar. 2.
Nelson, Jennings, and A. R. Stewart, St. Paul, Minn. Paring knife. 2,312,771; Mar. 2.
Nelson, Noble A., Chicago, Ill. Fishing reel. 2,312,576; Mar. 2.
Nelson, Thomas L., Delmar, Del. Shrubbery fender for lawn mowers. 2,312,435; Mar. 2.
Newton, Ralph L., Kansas City, Mo. Power transmitting apparatus. 2,312,668; Mar. 2.

Nichols, Charles A., and E. R. Fausset, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich. Wire feeding apparatus. 2,312,845; Mar. 2.
Nichols Engineering & Research Corporation. (See Freeman, Horace, assignor.)
Nieman, Henry W. (See Chamberlin, A. C., and Nieman.)
Niemczynski, Benjamin J., Bronx, J. B. Midulla, New York, N. Y., and J. D. Midulla, Tampa, Fla. Cigar piercing apparatus. 2,312,577; Mar. 2.
Nineteen Hundred Corporation. (See Geldhof, Peter E., assignor.)
Nipperi, Paul W., Columbus, Ohio. Voltage regulator for the electrical systems of automotive vehicles. 2,312,669; Mar. 2.
Nisenson, Jules, assignor to Kent Hardware Mfg. Corp., New York, N. Y. Stamping device. 2,312,727; Mar. 2.
Nollau, Edgar H. (See McBurney, J. D., and Nollau.)
Norberg, Harold, Detroit, assignor to The Gordon-R-Company, Royal Oak, Mich. Attachment for milling machines. 2,312,354; Mar. 2.
Norrid, James H., Detroit, Mich. Insulated siding cutter. 2,312,971; Mar. 2.
Northrup, Homer M., and J. W. Greig, Grosse Pointe Park, assignors to Hudson Motor Car Company, Detroit, Mich. Hood locking mechanism. 2,312,578; Mar. 2.
Northwestern Steel and Wire Company. (See Bradley, Albert F., assignor.)
No-Sag Spring Company. (See Hopkes, Henry, assignor.)
Nougaron, Jacques, Paris, France, vested in the Alien Property Custodian. Mechanism for the automatic control of speed change transmissions of motor vehicles. 2,313,003; Mar. 2.
Nussbaum, Ferdinand, Stuttgart-Korntal, Germany; vested in the Alien Property Custodian. Seat back. 2,313,020; Mar. 2.
Oberhoffken, Alexander, Birmingham, Mich., assignor to The Ingersoll Milling Machine Company, Rockford, Ill. Scalping billets. 2,312,355; Mar. 2.
O'Brien, Joseph F., Jersey City, N. J., assignor to John B. Pierce Foundation, New York, N. Y. Applying coupling devices. 2,312,579; Mar. 2.
O'Brien, Joseph F., Jersey City, N. J., assignor to John B., Pierce Foundation, New York, N. Y. Electrical wiring system. 2,312,580; Mar. 2.
Ocenasek, William F., assignor to Walker-Turner Co. Inc., Plainfield, N. J. Radial saw. 2,312,356; Mar. 2.
O'Connor, John B., assignor to Lyon Metal Products, Incorporated, Aurora, Ill. Latching device. 2,312,991; Mar. 2.
Odquist, Harold T., Yonkers, and B. Simurak, assignors to American Can Company, New York, N. Y. Sorting machine. 2,312,357; Mar. 2.
O'Hagan, Bernard E., Swissvale, and A. T. Johnston, Mount Lebanon, assignors to The Union Switch & Signal Company, Swissvale, Pa. Compressor control system. 2,312,728; Mar. 2.
O'Hare, George W., Bellflower, assignor to Vultee Aircraft, Inc., Downey, Calif. Adjustable airplane seat structure. 2,312,473; Mar. 2.
Oiler, Frank E., Pelham, assignor to International Photo Recording Machines, Inc., New Rochelle, N. Y. Photo recording device. 2,312,472; Mar. 2.
Oilgear Company, The. (See Ferris, Walter, assignor.)
Oldham, Harold A., Des Moines, Iowa. Clip for writing boards. 2,312,436; Mar. 2.
Olds, Ernest A., Curve, assignor of one-half to E. C. Cutlip, Henning, Tenn. Electric torch or flashlight. 2,312,670; Mar. 2.
Oliver Farm Equipment Company. (See Altgelt, Herman E., assignor.)
O'Loughlin, John F. (See Backoff, W. J., Williams, O'Loughlin, Moir, and Yule.)
Olson, Carl. (See Petersen, Hans E., assignor.)
Olvey, George H., Louisville, Ky., assignor to General Box Company, Chicago, Ill. Shipping container for baby chicks and making same. 2,312,846; Mar. 2.
Orr, John A., Chicago, Ill. Grass and weed cutter. 2,312,972; Mar. 2.
Orth, Hans, Troisdorf, Germany; vested in the Alien Property Custodian. Plastic masses from polyvinyl compounds. 2,312,437; Mar. 2.
Osterbauer, Edwin J., Rockford, Ill. Dispenser. 2,312,973; Mar. 2.
Osterheld, Clark M., Stoughton, Wis., assignor to McGraw Electric Company, Elgin, Ill. Water heating system. 2,312,772; Mar. 2.
Otto, Carl A., assignor to Johnson Service Company, Milwaukee, Wis. Thermostatic and like unit. 2,312,671; Mar. 2.
Owens, Joseph W., Schenectady, N. Y., assignor to General Electric Company. Electric control means. 2,312,974; Mar. 2.
Oxford Filing Supply Co. (See Jonas, Frank D., assignor.)
Pählicke, Hermann. (See Horenstein, S. H., and Pählicke.)
Palmer Company, The. (See Bruns, Anthony C., assignor.)
Palmer, Harry B., New York, N. Y. Educational toy. 2,312,773; Mar. 2.
Para, John W., Elizabeth, assignor to David Kahn, Inc., North Bergen, N. J. Tool for assembling mechanical pencils. 2,313,928; Mar. 2.
Parke, Peter, assignor to The Pullman Company, Chicago, Ill. Railway car. 2,312,847; Mar. 2.
Parker, Richard W. (See Weiss, C. R., and Parker.)
Parker Rust Proof Company. (See Thompson, John S., assignor.)
Parkhurst, Frederic A., Suffield, Conn., assignor to Monsanto Chemical Company. Manufacture of threaded containers. 2,313,031; Mar. 2.
Patch, Allen J., Ripon, Wis. Oscillating impulsing means for washing machines and the like. 2,312,581; Mar. 2.
"Patchem" A.-G. Zur Beteligung an Patenten und Sonstigen Erfindungsrechten auf Chemische Verfahren. (See Gelendien, W., and Eggert, assignors.)
"Patelhold" Patentverwertungs-and Electro-Holding A.-G. (See Guanella, G., Ernest, Lindecker, and Gabriel, assignors.)
Patents Research Corporation. (See Unger, William H., assignor.)
Patrick, Wilbur W., New Castle, Ind., assignor to Borg-Warner Corporation, Chicago, Ill. Composite metal. 2,312,582; Mar. 2.
Patton, John W. (See Horton, R. H., and Patton.)
Payment, Frank, Massena, N. Y. Bottle chute. 2,312,438; Mar. 2.
Peebles, David D., Berkeley, assignor to Golden State Company, Ltd., San Francisco, Calif. Drying method. 2,312,474; Mar. 2.
Pels, Edna F., Montclair, N. J. Propelling device. 2,312,976; Mar. 2.
Penick, Arthur J., and K. T. Penick, Houston, Tex. Well head. 2,312,476; Mar. 2.
Penick, Kirby T. (See Penick, Arthur J. and Kirby T.)
Penlon, Rex D., San Francisco, Calif. Tackle. 2,312,583; Mar. 2.
Pennsylvania Research Corporation, The. (See Fuchs, Walter M., assignor.)
Percival, William S., Ealing, London, assignor to Electric & Musical Industries Limited, Hayes, Middlesex, England. Frequency modulation. 2,312,977; Mar. 2.
Perfection Steel Body Company, The. (See Brick, Perry A., assignor.)
Perfex Corporation. (See Malone, Homer E., assignor.)
Perfex Corporation. (See Miller, Wayland R., assignor.)
Permanente Corporation, The. (See Lewers, Hamilton M., assignor.)
Petersen, Hans E., assignor, by mesne assignments, to C. Olson, Minneapolis, Minn. Sash holder and lock. 2,312,475; Mar. 2.
Petersen, William E., Cottonwood, Calif. Egg grader. 2,312,774; Mar. 2.
Peterson, Axel H., Kewanee, Ill. Dispensing cap and closure for containers. 2,312,584; Mar. 2.
Peterson, Carl D., and A. H. Deimel, Toledo, Ohio. Selecting and shifting mechanism for change speed gearings. 2,312,975; Mar. 2.
Peterson, Thomas A., Longview, Wash. Wood planing machine. 2,312,439; Mar. 2.
Pezzillo, Albert R., Philadelphia, Pa. Motor driven pump unit. 2,312,848; Mar. 2.
Pfaehler, Kurt. (See Engel, K., and Pfaehler.)
Phaneuf, Wilrose J., assignor to The Lapointe Machine Tool Company, Hudson, Mass. Roughing broach. 2,312,929; Mar. 2.
Phillips Petroleum Company. (See Frey, Frederick E., assignor.)
Phillips Petroleum Company. (See Morey, G. H., and Frey, assignors.)
Pierce, John B., Foundation. (See O'Brien, Joseph F., assignor.)
Piper, John D. (See Kouwives, L. I., and Piper.)
Piro, Salvatore, Jr., Manghan, La. Artificial bait casting lure. 2,312,585; Mar. 2.
Plourde, William A., Kenmore, assignor to Bell Aircraft Corporation, Buffalo, N. Y. Machine gun. 2,312,586; Mar. 2.
Pollard, Charles E., Jr., Hohokus, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Switching device. 2,312,672; Mar. 2.
Pollard, Willard L., Evanston, Ill. Transmission. 2,312,849; Mar. 2.
Pollitz, Harold C., assignor to Iowa Manufacturing Company, Cedar Rapids, Iowa. Vibrating screen. 2,312,477; Mar. 2.
Polyxor Chemical Co. (See Farber, Eduard, assignor.)
Potdevin, Adolph, Garden City, assignor to Potdevin Machine Company, Brooklyn, N. Y. Bagmaking machine. 2,312,729; Mar. 2.
Potdevin Machine Company. (See Potdevin, Adolph, assignor.)
Price, Harry S., Dayton, Ohio. Tubular core. 2,312,587; Mar. 2.
Prime-Manufacturing Company, The. (See Kelly, Daniel A., assignor.)
Pritchard, Percy, Barnt Green, England. Casting of metals. 2,313,004; Mar. 2.
Prosperity Company, The. (See Zimaril, Louis, assignor.)
Proudman, Chester F. (See Walters, F. C., and Proudman.)
Proulx, Jean, Hull, Quebec, Canada. Treating wood blocks for suction box covers and the like. 2,312,978; Mar. 2.
Pullman Company, The. (See Parke, Peter, assignor.)

Pump Engineering Service Corporation. (See Lauck, John A., assignor.)
Punch-Lok Company. (See Govanus, Elmer J., assignor.)
Punch-Lok Company. (See McKee, Charles H., assignor.)
Punte, William F., Syracuse, assignor to Continental Can Company, Inc., New York, N. Y.. Metal container for beverages. 2,312,358; Mar. 2.
Punte, William F., Syracuse, assignor to Continental Can Company, Inc., New York, N. Y. Easy opening container. 2,312,359; Mar. 2.
Pure Oil Company, The. (See Backoff, W. J., Williams, O'Loughlin, Moir, and Yule, assignors.)
Pure Oil Company, The. (See Henderson, L. M., and Ayers, Jr., assignors.)
Pure Oil Company, The. (See Risk, T. H., Henderson, and Wilder, assignors.)
Purvis, Melvin, et al. (See Head, John S., assignor.)
Pyzik, Friedrich. (See Ebel, F., and Pyzik.)
Rabald, Erich, and J. Kraus, Mannheim-Waldhof, Germany, assignors to Rare Chemicals, Inc., Nepera Park, N. Y. Obtaining crystallized heart stimulants. 2,312,588; Mar. 2.
Rabinowitz, Louis M., New York, N. Y. Adjustable garment strap. 2,312,775; Mar. 2.
Radiation Furnace Corporation. (See Volk, Sidney, assignor.)
Radin, Alexander J., Brooklyn, N. Y. Orthoptic apparatus. 2,312,930; Mar. 2.
Radio Corporation of America. (See Bierwirth, Rudolph A., assignor.)
Radio Corporation of America. (See Bokovoy, S. A., and Hawk, assignors.)
Radio Corporation of America. (See Bond, Donald S., assignor.)
Radio Corporation of America. (See Broos, Henrichs A., assignor.)
Radio Corporation of America. (See Carter, Philip S., assignor.)
Radio Corporation of America. (See Finch, James L., assignor.)
Radio Corporation of America. (See Hansell, Clarence W., assignor.)
Radio Corporation of America. (See Hershberger, William D., assignor.)
Radio Corporation of America. (See Kroger, Fred H., assigner.)
Radio Corporation of America. (See Lindenblad, Nils E., assignor.)
Radio Corporation of America. (See Trevor, Bertram, assignor.)
Radio Corporation of America. (See van der Ziel, A., and Strutt, assignors.)
Railroad Accessories Corporation. (See Lavarack, Frederick C., assignor.)
Ramsdell, Oliver. (See Soule, Charles W., assignor.)
Randolph, Oliver W., Toledo, Ohio. Material subdividing installation. 2,312,478; Mar. 2.
Rankin, Kenneth S., assignor to Acousticwall Limited, Toronto, Ontario, Canada. Acoustical wall covering. 2,312,776; Mar. 2.
Rare Chemicals, Inc. (See Rabald, E., and Kraus, assignors.)
Ray, William A., Glendale, Calif. Control system. 2,312,479; Mar. 2.
Reeves, Joseph B., et al. (See Head, John S., assignor.)
Reeves, Reuben G., Camden, N. J. Protector for toilet seats. 2,312,589; Mar. 2.
Regnier, Jean L., Paris, France; vested in the Alien Property Custodian. Alkaloid salts and the manufacture thereof. 2,312,440; Mar. 2.
Reichstein, Tadeus, Zurich, Switzerland, assignor, by mesne assignments, to Roche-Organon, Inc., Nutley, N. J. Derivatives of pregnane and pregnene. 2,312,480; Mar. 2.
Reichstein, Tadeus, Zurich, Switzerland, assignor, by mesne assignments, to Roche-Organon, Inc., Nutley, N. J. Substituted derivatives of saturated or unsaturated pregnane-diones. 2,312,481; Mar. 2.
Reichstein, Tadeus, Basel, Switzerland, assignor, by mesne assignments, to Roche-Organon, Inc., Nutley, N. J. Derivatives of the cyclopentano-polyhydrophenanthrene series. 2,312,482; Mar. 2.
Reichstein, Tadeus, Basel, Switzerland, assignor to Roche-Organon, Inc., Nutley, N. J. Compounds having a pregnane or pregnene skeleton. 2,312,483; Mar. 2.
Reichstein, Tadeus, Basel, Switzerland, assignor to the firm of Roche-Organon Incorporated, Nutley, N. J. Preparing cyclopentanopoly hydrophenanthrene ketols and esters thereof. 2,312,484; Mar. 2.
Reiter, Harold J., Chicago, Ill. Snap fastener. 2,312,441; Mar. 2.
Reiter, Harold J., Chicago, Ill. Snap fastener. 2,312,442; Mar. 2.
Reiter, Harold J., Chicago, Ill. Snap fastener. 2,312,443; Mar. 2.
Remington Rand Inc. (See Andersen, Niels Y., assignor.)
Remington Rand Inc. (See Schremp, Frederick W., assignor.)
Remington Rand, Inc. (See Thompson, Russell G., assignor.)
Renart Sportswear Corporation. (See Warshaw, Charles, assignor.)
Research Corporation. (See Fieser, Louis F., assignor.)
Research Corporation. (See Tishler, Max, assignor.)
Research Products Corporation. (See Shoemaker, Milton J., assignor.)
Reuter, George. (See Gleason, R. E., Coffey, and Reuter.)
Reutter, Jean-L., Paris, France; vested in the Alien Property Custodian. Dynamic compass. 2,313,005; Mar. 2.
Reynolds, Albert G., Oakland, Calif. Fluid pump and motor mechanism. 2,312,979; Mar. 2.
Reynolds, Harry R., assignor to The Fafnir Bearing Company, New Britain, Conn. Adapter. 2,312,590; Mar. 2.
Rhoads, James C., Erie, Pa., assignor to General Electric Company. Geared axle drive. 2,312,931; Mar. 2.
Richmond, Louis E., assignor to The Autocall Company, Shelby, Ohio. Relay. 2,312,485; Mar. 2.
Riesen, Schiller R., Ponca City, Okla., assignor of 70 per cent to A. V. Masterson, Belleville, Kans., and 10 per cent to J. G. Schreckengaust, Ponca City, Okla. Traction increasing device. 2,312,486; Mar. 2.
Ring, Vern O., assignor to Turco Products, Inc., Los Angeles, Calif. Dispenser. 2,312,730; Mar. 2.
Risk, Thomas H., Highland Park, L. M. Henderson, Winnetka, and A. B. Wilder, assignors to The Pure Oil Company, Chicago, Ill. Motor fuel. 2,312,360; Mar. 2.
Rizzolo, Donato R., Bloomfield, N. J. Wall panel mounting means. 2,312,673; Mar. 2.
Roach, Edmund J., and E. F. Cooke, Jr., Beaumont, Tex. Well control head. 2,312,487; Mar. 2.
Robitschek, Jan, Chocen, Bohemia; vested in the Alien Property Custodian. Calculator. 2,313,021; Mar. 2.
Rocard, Yves A. (See Jullen, M. F. A., and Rocard.)
Roche-Organon, Inc. (See Reichstein, Tadeus, assignor.)
Rochford, Edmund P., Kingston, J. Stuart, II, and K. Wassen, assignors to Hercules Powder Company, Wilmington, Del. Mixing machine. 2,312,444; Mar. 2.
Rodgers, Karl F., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Variable condenser 2,312,932; Mar. 2.
Roediger, Joseph C., Staten Island, N. Y., assignor to Standard Oil Development Company. Preparing bituminous paving mixtures. 2,312,674; Mar. 2.
Röhm & Haas Company. (See Craig, W. E., and Hester, assignors.)
Roll-Away Window Screen Company. (See Lang, Albert, assignor.)
Root, John J., Yonkers, N. Y., assignor to The Seymour Corporation of Delaware, Seymour, Conn. Breaker device for electrical circuits. 2,312,980; Mar. 2.
Rosenthal, Leon W. (See Schwarzmann, W. E., Coe, and Rosenthal.)
Rottmayr, Friedrich, Pullach near Munich, Germany; vested in the Alien Property Custodian. Purifying gases. 2,313,022; Mar. 2.
Rowland, Clarence G., Newington, assignor to The Fuller Brush Company, Hartford, Conn. Brush. 2,312,591; Mar. 2.
Rowland, Robert L., Ogden, Utah. Coagulometer. 2,312,488; Mar. 2.
Ruegger, André, Levallois-Perret, France; vested in the Alien Property Custodian. Tiltable seat. 2,313,023; Mar. 2.
Rugely, Henry L., et al. (See Derrick, Oscar L., assignor.)
Ruthruff, Robert F., Chicago, Ill. Catalytic combination process. 2,312,445; Mar. 2.
Salathiel, Richard A., Houston, Tex., assignor to Standard Oil Development Company. Process and agent for breaking petroleum emulsions. 2,312,731; Mar. 2.
Salathiel, Richard A., Houston, Tex., assignor to Standard Oil Development Company. Process and agent for breaking petroleum emulsions. 2,312,732; Mar. 2.
Salathiel, Richard A., Houston, Tex., assignor to Standard Oil Development Company. Process and agent for breaking petroleum emulsions. 2,312,733; Mar. 2.
Salathiel, Richard A., Houston, Tex., assignor to Standard Oil Development Company. Process and agent for breaking petroleum emulsions. 2,312,734; Mar. 2.
Salathiel, Richard A., Houston, Tex., assignor to Standard Oil Development Company. Process and agent for breaking petroleum emulsions. 2,312,735; Mar. 2.
Sallmann, Richard. (See Graenacher, C., Sallmann, and Albrecht.)
Salomon, François M. M. B.; vested in the Alien Property Custodian. Device adapted to eliminate oscillations. 2,313,024; Mar. 2.
Sanford, Hugh W., Knoxville, Tenn., assignor to The Sanford Investment Company, Wilmington, Del. Wheel. 2,312,361; Mar. 2.
Sanford Investment Company, The. (See Sanford, Hugh W., assignor.)
Sarbach, Donald V., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tackifying synthetic rubber. 2,312,362; Mar. 2.
Sawtelle, Charles A., Plymouth, Mich. Vehicle brake. 2,312,363; Mar. 2.
Schaefer, Anna E., et al. (See Schaefer, Ernest, assignor.)
Schaefer, Ernest, assignor to E. G. and E. Schaefer, Fairview Village, Ohio. Attaching panels to framework. 2,312,489; Mar. 2.
Schaefer, Ernest G., et al. (See Schaefer, Ernest, assignor.)

Schaeffer, Edward G., Holyoke, Mass. Electrical outlet plug. 2,312,496; Mar. 2.
Scharfnagel, Rudolf, Stuttgart, Germany; vested in the Alien Property Custodian. Mold for manufacturing electric discharge vessels. 2,313,025; Mar. 2.
Scharoun Industries, Inc. (See Scharoun, Robert J., assignor.)
Scharoun, Robert J., assignor to Scharoun Industries, Inc., Pulaski, N. Y. Car rocking implement. 2,312,850; Mar. 2.
Scheele, Charles C., assignor to Easy Washing Machine Corporation, Syracuse, N. Y. Washing machine agitator. 2,312,992; Mar. 2.
Scheer, Frederick H., Kenmore, assignor to Colonial Radio Corporation, Buffalo, N. Y. Image suppression in superheterodyne receivers. 2,313,032; Mar. 2.
Schelding, Carl, Middletown, assignor of one-half to F. C. Zart, Cincinnati, Ohio. Pulp screen and washer. 2,312,675; Mar. 2.
Scherfel, Otto C., Philadelphia, Pa., assignor to Audubon Wire Cloth Corporation. Flexible wire belt. 2,312,490; Mar. 2.
Schering Corporation. (See Logemann, Willy, assignor.)
Schindler, H., & Co. (See Hamburger, Walter J., assignor.)
Schlack, Paul, Berlin-Treptow, Germany; vested in the Alien Property Custodian. Manufacture of lactams from oximes of cyclic ketones. 2,313,026; Mar. 2.
Schlenker, Max, Peru, Ill., assignor to General Time Instruments Corporation, New York, N. Y. Time switch. 2,312,492; Mar. 2.
Schmal, George, North Platte, Nebr. Shovel. 2,312,736; Mar. 2.
Schoenbeck, Friedrich, Wulkow, near Alt-Ruppin, and E. Czapp, Berlin-Pankow, Germany; vested in the Alien Property Custodian. Plastic material from vegetable glues. 2,312,446; Mar. 2.
Schreckengaust, J. G., et al. (See Riesen, Schiller R., assignor.)
Schremp, Frederick W., Elmira, assignor to Remington Rand Inc., Buffalo, N. Y. Typewriting and like machine. 2,312,676; Mar. 2.
Schueller, Eugène, Franconville, France; vested in the Alien Property Custodian. Rendering inoffensive hair dyes of the so-called oxidation type. 2,313,027; Mar. 2.
Schueren, William B. (See Fergueson, A. P., and Schueren.)
Schwarzmann, Wolfgang E., Longmeadow, F. S. Coe, Springfield, Mass., and L. W. Rosenthal, New York, N. Y., assignors to American Bosch Corporation, Springfield, Mass. Multicylinder magneto. 2,312,447; Mar. 2.
Sears, Roebuck and Co. (See Magill, Warren C., assignor.)
Sears, Roebuck and Co. (See McCarthy, Lawrence J., assignor.)
Seeger, Edwin W., and C. Stansbury, Wauwatosa, assignors to Cutler-Hammer, Inc., Milwaukee, Wis. Control system for alternating current motors. 2,312,592; Mar. 2.
Seibert, Julius J., McKeesport, Pa. Snow and ice removing machine. 2,312,851; Mar. 2.
Seiders, Hiester, Reading, Pa. Rotary clipper. 2,312,933; Mar. 2.
Selvig, John N., Westfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Strand handling apparatus. 2,312,448; Mar. 2.
Sengebusch, Hans, Villa Park, assignor to Associated Electric Laboratories, Inc., Chicago, Ill. Relay. 2,312,493; Mar. 2.
Seymour Corporation of Delaware, The. (See Root, John J., assignor.)
Shaw, William F., assignor of one-half to H. C. Mayers, Rocky River, Ohio. Practice apparatus for card games. 2,312,593; Mar. 2.
Shell Development Company. (See Herzenberg, Alfred J., assignor.)
Shepherd, Daniel F., United States Army, Richmond, Va. Grommet. 2,312,364; Mar. 2.
Sheridan, Edward A., Pawtucket, R. I., assignor to Vesta Underwear Company. Infant's garment. 2,312,981; Mar. 2.
Shiffler, William H., San Francisco, and L. P. Elliott, Berkeley, assignors to Standard Oil Company of California, San Francisco, Calif. Utilization of foul steam for hydrogen sulphide removal. 2,312,365; Mar. 2.
Shmurak, Benjamin. (See Odquist, H. T., and Shmurak.)
Shoemaker, Milton J., assignor to Research Products Corporation, Madison, Wis. Cationic exchange material. 2,312,449; Mar. 2.
Sholder, Morris, and A. M. Cooper, assignor to Forum Fashion, Inc., Chicago, Ill. Blouse. 2,312,777; Mar. 2.
Shook, Earley M., Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Gain control for seismograph amplifiers. 2,312,934; Mar. 2.
Short, Brooks H., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Spark advance indicator. 2,312,778; Mar. 2.
Shrum, Frank D., assignor of one-half to E. T. Turner, Detroit, Mich. Electric fluid heating means. 2,312,677; Mar. 2.
Siegmann, Friedrich, Frankfort-on-the-Main, Germany; vested in the Alien Property Custodian. Production of sodium and potassium hydride. 2,313,028; Mar. 2.
Siemens, Alfred, Berlin-Charlottenburg, H. von Bertele, Berlin-Wilmersdorf, and W. Burgsmüller, Berlin, Germany; vested in the Alien Property Custodian. Vapor electric device. 2,313,029; Mar. 2.
Siewert, Herbert P., Waukegan, Ill. Remote metering system. 2,312,491; Mar. 2.
Sinclair, Frank E., Claremont, N. H., assignor to Sullivan Machinery Company. Controlling mechanism. 2,312,366; Mar. 2.
Sinclair Refining Company. (See Teter, John W., assignor.)
Singer Manufacturing Company. (See Zeier, Frederick F., assignor.)
Sinninger, Dwight V., assignor to Johnson Laboratories, Inc., Chicago, Ill. Image suppression system. 2,312,935; Mar. 2.
Skellett, Albert M., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signal translating apparatus. 2,312,498; Mar. 2.
Smith, Clarence R., Vancouver, British Columbia, Canada. Internal combustion engine. 2,312,500; Mar. 2.
Smith, Donald P., Norwood, assignor to The Alvey-Ferguson Company, Cincinnati, Ohio. Portable drier for use with tumbling barrels. 2,312,936; Mar. 2.
Smith, Elden R., Salinas, Calif. Sack loader. 2,312,779; Mar. 2.
Smith, Frank P. (See Bird, B. M., and Smith.)
Smith, Franklin S., New Haven, Conn. Method and apparatus for destroying insect life in flour and the like in bulk. 2,312,368; Mar. 2.
Smith, Milton A., and W. G. Wilcox, assignors to Chicago Carton Company, Chicago, Ill. Display stand. 2,312,594; Mar. 2.
Smith, Milton A., assignor to Chicago Carton Company, Chicago, Ill. Display carton. 2,312,595; Mar. 2.
Smith, Richard G., Amsterdam, assignor to The Lionel Corporation, New York, N. Y. Device for storing toy logs and loading toy cars therewith. 2,312,450; Mar. 2.
Smith, Rolf M., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,312,596; Mar. 2.
Soave, John G., Long Island City, assignor to Waldes Koh-I-Noor, Inc., New York, N. Y. Manufacture of separable fastener elements. 2,312,494; Mar. 2.
Société Alsacienne de Constructions Mecaniques. (See Tomlinson, F. W., and Beckett, assignors.)
Society of Chemical Industry in Basle. (See Felix, Friedrich, assignor.)
Society of Chemical Industry in Basle. (See Graenacher, C., Sallmann, and Albrecht, assignors.)
Socony-Vacuum Oil Company. (See Shook, Earley M., assignor.)
Solecki, Stanley, Chicago, Ill. Toy balloon. 2,312,369; Mar. 2.
Somes, Howard E., Grosse Pointe Park, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa. High pressure quenching method and fixture. 2,312,597; Mar. 2.
Sorensen, Alfred H., Detroit, Mich. Electric dry shaver. 2,312,497; Mar. 2.
Sorkind, Abraham, Brawley, Calif. Fly swatter. 2,312,780; Mar. 2.
Soucek, Romus, Whittier, assignor to Vultee Aircraft, Inc., Vultee Field, Calif. Tank outlet unit. 2,312,495; Mar. 2.
Soule, Charles W., assignor of one-third to O. Ramsdell, Winnemucca, Nev. Elementary flight training device. 2,312,370; Mar. 2.
Spencer, H. M., Inc. (See Spencer, John A., assignor.)
Spencer, John A., assignor to H. M. Spencer, Inc., South Hadley Falls, Mass. Dandy roll construction. 2,312,678; Mar. 2.
Speth, Leonard S., assignor, by mesne assignments, to The Dill Manufacturing Company, Cleveland, Ohio. Valve stem. 2,312,679; Mar. 2.
Sprague, Clarence B., assignor to American Box Board Company, Grand Rapids, Mich. Container. 2,312,598; Mar. 2.
Stanco, Incorporated. (See Holmes, R. L., and De Hoff, assignors.)
Standard Oil Company of California. (See Shiffler, W. H., and Elliott, assignors.)
Standard Oil Development Company. (See Arundale, E., and Mikeska, assignors.)
Standard Oil Development Company. (See Cohen, Charles A., assignor.)
Standard Oil Development Company. (See Ferguson, R. P., and Jones, assignors.)
Standard Oil Development Company. (See Kuhl, Paul E., assignor.)
Standard Oil Development Company. (See Morway, A. J., and Zimmer, assignors.)
Standard Oil Development Company. (See Roediger, Joseph C., assignor.)
Standard Oil Development Company. (See Salathiel, Richard A., assignor.)
Stanley, William E. (See Guyler, A. F., Boaler, and Stanley.)
Stansbury, Carroll. (See Seeger, E. W., and Stansbury.)
Starline, Inc. (See Ferris, Howard J., assignor.)

Staub, Alfred. (See Martin, H., Zaeslin, Glatthaar, and Staub.)
Stenning, Luis C., Park Hill, Ealing, assignor to The General Electric Company Limited, London, England. Valve operated variable reactor. 2,312,982; Mar. 2.
Stephens, Joseph F., assignor to Gustin-Bacon Manufacturing Company, Kansas City, Mo. Lining pipe. 2,312,993; Mar. 2.
Stephenson, Tom, West Hartford, assignor, by mesne assignments, to Veeder-Root Incorporated, Hartford, Conn. Register mount. 2,312,599; Mar. 2.
Steps, Robert A., Los Angeles, Calif. Well mechanism. 2,312,600; Mar. 2.
Stewart, Alton R. (See Nelson, J., and Stewart.)
Stewart, F. W., Manufacturing Corporation. (See Koch, Otto C., assignor.)
Stewart-Warner Corporation. (See Davis, Ernest W., assignor.)
Stiefel, Fred W., Milton-on-Hudson, assignor of one-fourth to D. L. Morris, New York, N. Y. Apparatus for the removal of railway rails from pavement. 2,312,937; Mar. 2.
Stieglitz, Hermann W., Marblehead, assignor to Thomson-Gibb Electric Welding Company, Lynn, Mass. Apparatus for spot welding. 2,312,938; Mar. 2.
Stillwagon, George B., Jr., assignor of one-half to K. G. Fraser, Dayton, Ohio. Shutoff valve. 2,312,601; Mar. 2.
Stockbridge, Enos S., et al. (See Everts, Walter W., assignor.)
Stone, Lawrence, Jr., Denver, Colo. Wired music system. 2,312,680; Mar. 2.
Stonehill, Albert A., Brooklyn, N. Y., assignor to Johnson & Johnson, New Brunswick, N. J. Sanitary napkin. 2,312,501; Mar. 2.
Strandlund, Carl G., assignor to Deere & Company, Moline, Ill. Plow bottom. 2,312,371; Mar. 2.
Strandlund, Carl G., assignor to Deere & Company, Moline, Ill. Plow. 2,312,372; Mar. 2.
Strike, George N., Los Angeles, Calif. Welding process. 2,312,451; Mar. 2.
Strutt, Maximiliaan J. O. (See van der Ziel, A., and Strutt.)
Strutt, Maximiliaan J. O. (See van der Ziel, A., Strutt, and Knol.)
Stuart, Joseph, II. (See Rochford, E. P., Stuart, II, and Wassen.)
Sullivan Machinery Company. (See Gartin, Elmer G., assignor.)
Sullivan Machinery Company. (See Halleck, Frank A., assignor.)
Sullivan Machinery Company. (See Sinclair, Frank E., assignor.)
Sulzer Frères, Société Anonyme. (See Traupel, Walter, assignor.)
Summers, Omar, Seattle, Wash. Concrete wall form. 2,312,983; Mar. 2.
Svenska Aktiebolaget Bromsregulator. (See Browall, Bert H., assignor.)
Sweeley, Edward A., Alexandria, Va., and N. T. Anderson, Washington, D. C. Movable bulkhead for vehicles. 2,312,939; Mar. 2.
Tauschek, Gustav, New York, N. Y.; vested in the Alien Property Custodian. Firearm and ammunition therefor. 2,313,030; Mar. 2.
Taylerson, Ewart S., Pittsburgh, Pa., assignor to Carnegie-Illinois Steel Corporation. Method and apparatus for continuously electroplating metallic strip. 2,312,452; Mar. 2.
Taylor, Charles H., Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Suction cleaner apparatus. 2,312,781; Mar. 2.
Taylor, Judson O., Zanesville, Ohio, deceased, L. L. Combs and J. Ebersbach, executors. Walker and rolling chair. 2,312,602; Mar. 2.
Teletype Corporation. (See Burcky, Charles W., assignor.)
Terdina, Frank, Jr., assignor to Boeing Aircraft Company, Seattle, Wash. Airfoil construction. 2,312,603; Mar. 2.
Testi, Nicholas, assignor to Gillette Safety Razor Company, Boston, Mass. Magazine for safety razor blades. 2,312,453; Mar. 2.
Testi, Nicholas, assignor to Gillette Safety Razor Company, Boston, Mass. Safety razor. 2,312,503; Mar. 2.
Testi, Nicholas, assignor to Gillette Safety Razor Company, Boston, Mass. Blade magazine. 2,312,502; Mar. 2.
Teter, John W., Chicago, Ill., assignor to Sinclair Refining Company, New York, N. Y. Cracking hydrocarbons. 2,312,681; Mar. 2.
Teunisz, William C., Grand Rapids, Mich. Cream separator. 2,312,682; Mar. 2.
Texas Company, The. (See Kiersted, Wynkopp, Jr., assignor.)
Texas Company, The. (See Bermingham, James A., Jr., assignor.)
Tholl, John F., Needham, assignor to American Tool & Machine Co., Hyde Park, Boston, Mass. Driving mechanism for centrifugal separators. 2,312,505; Mar. 2.
Thomas, Raymond W. (See Bunting, A. L., and Thomas.)
Thompson, Arthur R., Norfolk, Va. Device for conditioning oil. 2,231,604; Mar. 2.
Thompson, George V. (See Deem, R. B., and Thompson.)
Thompson, John S., assignor to Parker Rust Proof Company, Detroit, Mich. Coating aluminum. 2,312,855; Mar. 2.
Thomson-Gibb Electric Welding Company. (See Stieglitz, Hermann W., assignor.)
Thompson Products Incorporated. (See Alldredge, Marshall H., assignor.)
Thompson, Russell G., Elmira, assignor to Remington Rand Inc., Buffalo, N. Y. Typewriting machine. 2,312,737; Mar. 2.
Thorell, Edwin, West Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Type. 2,312,782; Mar. 2.
Tishler, Max, Rahway, N. J., assignor to Research Corporation, New York, N. Y. Naphthoquinone oxides. 2,312,504; Mar. 2.
Toland, William C., trustee. (See Toland, W. C., and Bassist, assignors.)
Toland, William C., and E. Bassist, assignors to W. C. Toland, Brookline, Mass., as trustee. Light-sensitive element. 2,312,852; Mar. 2.
Toland, William C., and E. Bassist, assignors to W. C. Toland, Brookline, Mass., as trustee. Applicator roll. 2,312,853; Mar. 2.
Toland, William C., and E. Bassist, assignors to W. C. Toland, Brookline, Mass., as trustee. Light-sensitive element. 2,312,854; Mar. 2.
Tomlinson, Frederick W., and C. M. Beckett, Newcastle-on-Tyne, England, assignors to Société Alsacienne de Constructions Mecaniques, Clichy, France. Electric cable or other insulated conductor. 2,312,506; Mar. 2.
Traupel, Walter, assignor to Sulzer Frères, Société Anonyme, Winterthur, Switzerland. Gas turbine plant. 2,312,605; Mar. 2.
Trautner, Wagn, Springdale, assignor to The K-D Lamp Company, Cincinnati, Ohio. Lamp mounting and assembly. 2,312,454; Mar. 2.
Trawick, Lynn M., Stroud, Okla. Intermitting system for flowing wells. 2,312,455; Mar. 2.
Trevisan, Louis A., Bloomfield, N. J., assignor to American Can Company, New York, N. Y. Combination container and dispenser. 2,312,373; Mar. 2.
Trevor, Bertram, Riverhead, N. Y., assignor to Radio Corporation of America. Frequency variation response circuit. 2,312,783; Mar. 2.
Trogman, William, Chicago, Ill. Folding box. 2,312,507; Mar. 2.
Truesdale, Melville D., Stamford, Conn. Fruit peel press. 2,312,940; Mar. 2.
Tucker, Warren R., Dayton, Ohio, assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del. Rotary valve. 2,312,941; Mar. 2.
Turchin, Isador, Brooklyn, N. Y. Headgear. 2,312,606; Mar. 2.
Turco Products, Inc. (See Ring, Vern O., assignor.)
Turner, Channing, New Canaan, Conn., and B. J. Brady, Yonkers, N. Y., assignors to Alfol Insulation Company, Inc. Heat insulating material. 2,312,301; Mar. 2.
Turner, Elmert T. (See Shrum, Frank D., assignor.)
Ufnowski, Waclaw, Warsaw, Poland; vested in the Alien Property Custodian. Apparatus for recovering carbon bisulphide and sulphurated hydrogen during the finishing process of the manufacture of viscose staple fiber. 2,313,006; Mar. 2.
Ulanet, Herman, Newark, N. J. Hermetic seal bottle stopper. 2,312,738; Mar. 2.
Ulinski, Bronislaus, Chicago, Ill., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Power steer switch. 2,312,942; Mar. 2.
Ulrich, Victor, Bad Cannstatt, and R. Diener, Berlin-Reinickendorf, Germany; vested in the Alien Property Custodian. Gun laying mechanism. 2,312,508; Mar. 2.
Underhill, Charles R., Lower Bank, N. J. Motor driven lawn mower and weed topper. 2,312,984; Mar. 2.
Underwood Elliott Fisher Company. (See Thorell, Edwin, assignor.)
Underwood, James W. (See D'Alelio, G. F., and Underwood.)
Unger, William H., assignor, by mesne assignments, to Patents Research Corporation, New York, N. Y. High frequency system. 2,312,374; Mar. 2.
Union Oil Company of California. (See Korpi, Karl, assignor.)
Union Research Corporation. (See Bunting, Albert L., assignor.)
Union Research Corporation. (See Bunting, A. L., and Thomas, assignors.)
Union Switch & Signal Company, The. (See Allison, Leslie R., assignor.)
Union Switch & Signal Company, The. (See Cini, Giulio, assignor.)
Union Switch & Signal Company, The. (See Goodlin, Carl L., assignor.)
Union Switch & Signal Company, The. (See O'Hagan, B. E., and Johnston, assignors.)
Union Switch & Signal Company, The. (See Vanhorn, James J., assignor.)
United Aircraft Corporation. (See Caldwell, Frank W., assignor.)
United Shoe Machinery Corporation. (See Cutler, Nelson B., assignor.)

United Shoe Machinery Corporation. (See Engel, Karl, assignor.)
United Steel and Wire Company. (See McArdle, Beryl L., assignor.)
Valley Shoe Corporation. (See Browne, Marion B., assignor.)
Van Buskirk, Paul R., Detroit, Mich. Engineer's tape box. 2,312,943; Mar. 2.
Van der Ziel, Aldert, and K. S. Knol, Eindhoven, Netherlands; vested in the Alien Property Custodian. Circuit for amplifying electric oscillations. 2,312,509; Mar. 2.
Van der Ziel, Aldert, M. J. O. Strutt, and K. S. Knol, Eindhoven, Netherlands; vested in the Alien Property Custodian. Amplifying circuit for ultra-short waves. 2,312,510; Mar. 2.
Van der Ziel, Aldert, and M. J. O. Strutt, Eindhoven, Netherlands, assignors to Radio Corporation of America. Ultra-short wave amplifier. 2,312,739; Mar. 2.
Vanhorn, James J., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,312,740; Mar. 2.
Vapor Car Heating Company. (See Lehane, Timothy J., assignor.)
Veeder-Root Incorporated. (See Stephenson, Tom, assignor.)
Velan, Karl. (See Gilli, P., and Velan.)
Vesta Underwear Company. (See Sheridan, Edward A., assignor.)
Volk, Sidney, assignor to Radiation Furnace Corporation, Benton Harbor, Mich. Radiator unit for hot air furnaces. 2,312,784; Mar. 2.
Voller, James P., Providence, and E. R. Loud, Cranston, assignors to Builders Iron Foundry, Providence, R. I. Density compensator for flow meters. 2,312,944; Mar. 2.
Vollrath, Edwin C., Wauwatosa, assignor to Nash-Kelvinator Corporation, Kenosha, Wis. Window regulator. 2,312,607; Mar. 2.
Von Bertele, Hans. (See Siemens, A., von Bertele, and Burgsmüller.)
Vultee Aircraft, Inc. (See Hazard, J. G., and Arslan, assignors.)
Vultee Aircraft, Inc. (See Hudson, John M., assignor.)
Vultee Aircraft, Inc. (See O'Hare, George W., assignor.)
Vultee Aircraft, Inc. (See Soucek, Romus, assignor.)
Wadsack, Charles G., Stafford, Kans. Shaving and tray serving appliance. 2,312,608; Mar. 2.
Wadsworth Electric Manufacturing Company, The. (See Coy, Joseph A., assignor.)
Waldes Koh-I-Noor, Inc. (See Soave, John G., assignor.)
Walker, Hiram, & Sons, Inc. (See Wilson, Gardiner C., assignor.)
Walker-Turner Co. Inc. (See Ocenasek, William F., assignor.)
Walpro Products Corporation, The. (See Walters, F. C., and Proudman, assignors.)
Walters, Franklyn C., and C. F. Proudman, assignors to The Walpro Products Corporation, New Canaan, Conn. Butter dispenser. 2,312,456; Mar. 2.
Waltz, Thomas A. (See Kullman, A., and Waltz.)
Wampner, Herbert L. (See Bogin, C., and Wampner.)
Warshaw, Charles, Kingston, assignor to Renart Sportswear Corporation, New York, N. Y. Sweater. 2,312,609; Mar. 2.
Wasmuht, Roland. (See Kopf, E., and Wasmuht.)
Wassen, Kurt. (See Rochford, E. P., Stuart, II, and Wassen.)
Watter, Michael, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Seat harness. 2,312,946; Mar. 2.
Weatherby, Kenneth C. (See Fulenwider, H., and Weatherby.)
Weaver, Walter W., South Gate, assignor to Aircraft Tools Inc., Los Angeles, Calif. Rivet set. 2,312,457; Mar. 2.
Weinberg, Maurice J., New York, N. Y. Butter-chip maker. 2,312,511; Mar. 2.
Weiss, Charles R., and R. W. Parker, Indianapolis, Ind., assignors to Link-Belt Company. Belt conveyer idler. 2,312,610; Mar. 2.
Weiss, Ernst. (See Lorenz, F., and Weiss.)
Weitzel, Robert A. L., Strasbourg, France; vested in the Alien Property Custodian. Construction of walls. 2,312,994; Mar. 2.
Welty, Albert B., Moline, Ill., assignor to International Harvester Company. Grain divider. 2,312,785; Mar. 2.
West, M. G., Company. (See West, Ross R., assignor.)
West, Ross R., assignor to M. G. West Company, San Francisco, Calif. Filing drawer. 2,312,611; Mar. 2.
Western Electric Company. (See Brady, Eugene F., assignor.)
Western Electric Company. (See Selvig, John N., assignor.)
Westinghouse Electric & Manufacturing Company. (See Marshall, D. E., and Knochel, assignors.)
Westinghouse Electric & Manufacturing Company. (See Taylor, Charles H., assignor.)
Westman, August A., Carnation, Wash. Wrench. 2,312,947; Mar. 2.
Weston Electrical Instrument Corporation. (See Miller, John H., assignor.)
Wetmore, Earnest M., Tonkawa, Okla. Rotor. 2,312,612; Mar. 2.
Westrate, John M., Grand Rapids, Mich. Device for raising the wheels of vehicles and supporting the same in raised position. 2,312,856; Mar. 2.
Wheat, Grant, assignor to Koehler Manufacturing Company, Marlboro, Mass. Miner's lamp. 2,312,613; Mar. 2.
Wheat, Grant, assignor to Koehler Manufacturing Company, Marlboro, Mass. Miner's lamp. 2,312,614; Mar. 2.
Whitin Machine Works. (See Kelliher, Francis B., assignor.)
Whitney, Gilbert C., Jr., assignor to Foster Wheeler Corporation, New York, N. Y. Vapor generator. 2,312,375; Mar. 2.
Wiemer, Henry, Dow City, Iowa. Sectional rigid wagon cover. 2,312,512; Mar. 2.
Wilcox, Wayne G. (See Smith, M. A., and Wilcox.)
Wilder, Austin B. (See Risk, T. H., Henderson, and Wilder.)
Williams, Albert J., Jr., assignor to Leeds & Northrup Company, Philadelphia, Pa. Measuring system. 2,312,945; Mar. 2.
Williams, Howard O., Minneapolis, and A. A. Jens, assignors to Edward E. Johnson, Incorporated, St. Paul, Minn. Making deep well screens. 2,312,458; Mar. 2.
Williams, Howard O., Minneapolis, and A. A. Jens, assignors to Edward E. Johnson, Incorporated, St. Paul, Minn. Making deep well screens. 2,312,459; Mar. 2.
Williams, Norman D. (See Backoff, W. J., Williams, O'Loughlin, Moir, and Yule.)
Williams, Stuart R., Newark, Ohio, assignor to Holophane Company, Inc., New York, N. Y. Apparatus for demonstrating light distribution. 2,312,460; Mar. 2.
Wilson, Gardiner C., Lancaster Township, Lancaster County, Pa., assignor, by mesne assignments, to Hiram Walker & Sons, Inc., Peoria, Ill. Slip cap for bottles. 2,312,513; Mar. 2.
Wilson, James F., assignor of 49 percent to W. E. Baker, Des Moines, Iowa. Crutch. 2,312,786; Mar. 2.
Winborne, Russell A., East Orange, N. J., and R. L. Coultrip, Waukegan, assignors to Edison General Electric Appliance Company, Inc., Chicago, Ill. Thermal limit switch. 2,312,948; Mar. 2.
Wittemann Company, The. (See Lubke, Henry G., assignor.)
Woelfer, Frank C., Jr., assignor to The Cincinnati Ball Crank Company, Cincinnati, Ohio. Pump. 2,312,857; Mar. 2.
Wolf X-Ray Products Inc. (See Lubow, Morris, assignor.)
Woodbury, Clifford A., Media, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Ignition composition. 2,312,741; Mar. 2.
Woodruff, William N. (See Herschede, W. F., and Woodruff.)
Woods, Gilbert R., Whittier, assignor to Food Machinery Corporation, San Jose, Calif. Hand truck for carrying box-on-end stacks. 2,312,461; Mar. 2.
Wuertz, Alexander J., and D. P. Graham, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Dyestuffs of the anthraquinone series. 2,312,462; Mar. 2.
Yale & Towne Manufacturing Company. (See Ulinski, Bronislaus, assignor.)
York Ice Machinery Corporation. (See Beline, Walter E., assignor.)
Yule, John S. (See Backoff, W. J., Williams, O'Loughlin, Moir, and Yule.)
Zaeslin, Hans. (See Martin, H., Zaeslin, Glatthaar, and Staub.)
Zart, F. C. (See Scheidling, Carl, assignor.)
Zdansky, Ewald, Gross-Glienicke, Germany; vested in the Alien Property Custodian. Pocket flashlight. 2,312,463; Mar. 2.
Zeier, Frederick F., Fairfield, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Chain stitch sewing machine. 2,312,858; Mar. 2.
Zentmyer, William H. H., Rothsville, Pa. Grave marker. 2,312,859; Mar. 2.
Zeugner, John J., Baltimore, Md. Wall panel construction. 2,312,949; Mar. 2.
Ziebolz, Herbert, assignor to Askania Regulator Company, Chicago, Ill. Stabilizer system for regulators. 2,312,464; Mar. 2.
Zimarik, Louis, assignor to The Prosperity Company, Inc., Syracuse, N. Y. Agent supplying attachment for washing machines. 2,312,950; Mar. 2.
Zimmer, John C. (See Morway, A. J., and Zimmer.)
Zimmerer, Mark E., assignor to Kingston Products Corporation, Kokomo, Ind. Pump. 2,312,514; Mar. 2.
Zodtner, Heinrich, Berlin, Germany; vested in the Alien Property Custodian. Cooled electron tube. 2,312,465; Mar. 2.
Zollinger, Ernesto, Turin, Italy, assignor to W. Zollinger, Zurich, Switzerland. Photographic apparatus. 2,312,683; Mar. 2.
Zollinger, Walther. (See Zollinger, Ernesto, assignor.)
Zoub, Erazm A., New York, N. Y. Safety device for automobiles. 2,312,951; Mar. 2.
Zurn, J. A., Manufacturing Company. (See Luff, Henry J., assignor.)

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 2D DAY OF MARCH, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Grating structure. G. G. Greulich. Re. 22,278; Mar. 2.

Metallic material, Bonding powdered. C. E. Swartz. Re. 22,282; Mar. 2.

Picker, Corn. B. M. Hyman and R. C. Fergason. Re. 22,279; Mar. 2.

Rubber joint. T. Lord. Re. 22,280; Mar. 2.

Transmission synchronizer. P. Orr. Re. 22,281; Mar. 2.

LIST OF PLANT PATENTEES

Hypericum. J. J. Grullemans. 568; Mar. 2.

Plant, Rose. P. De Vor. 569; Mar. 2.

Plant, Strawberry. B. D. Drain. 570; Mar. 2.

LIST OF DESIGN INVENTIONS

Automobile. R. Cadwallader. 135,148; Mar. 2.

Brooch or similar article. F. S. Hartley. 135,145, Mar. 2.

Brooch or similar article. A. Philippe. 135,169–77; Mar. 2.

Buckle. B. D. Huff. 135,154; Mar. 2.

Button. C. H. Frank. 135,168; Mar. 2.

Cabinet, Phonograph record. G. W. Amberg. 135,147; Mar. 2.

Cabinet, Photographing. R. M. and L. Godfrey. 135,139; Mar. 2.

Cap, Pour-out bottle. H. K. Stempel. 135,161; Mar. 2.

Case, Flashlight. L. W. Gensburg. 135,153; Mar. 2.

Compass. F. G. Eubanks. 135,138; Mar. 2.

Dispenser, Tape. G. Schieman. 135,165; Mar. 2.

Display card or similar article. M. Aron. 135,136; Mar. 2.

Dress. J. Richards. 135,178–9; Mar. 2.

Dress. S. Zahn. 135,180–1; Mar. 2.

Engine controlling mechanism. M. J. Smith. 135,166; Mar. 2.

Fabric. M. R. Hamre. 135,144; Mar. 2.

Frame, Service picture. C. F. Cusick and P. Marraccini. 135,151; Mar. 2.

Gate for fireplaces or the like. C. G. Steinbicker and N. C. Butler. 135,160; Mar. 2.

Hanger, Expanding sleeve. T. J. Weekley. 135,143; Mar. 2.

Hat. P. M. Maxwell and W. J. Russy. 135,146; Mar. 2.

Holder, Combined cake and candle. C. Frenger. 135,152; Mar. 2.

Ornament or similar article, Desk. J. G. Lipic, Jr. 135,164; Mar. 2.

Pin or similar article. A. D. Laughlin. 135,157; Mar. 2.

Pin, Service. J. H. Williams. 135,162; Mar. 2.

Pipe, Tobacco. G. R. Comptois. 135,149; Mar. 2.

Robe or similar article, Separable. V. R. Allen. 135,135; Mar. 2.

Sandal, Flexible. B. D. Huff. 135,155; Mar. 2.

Scooter. A. Parke. 135,159; Mar. 2.

Shoe. H. L. Sutcliffe. 135,142; Mar. 2.

Shoe sole. A. A. Kotzin. 135,156; Mar. 2.

Smock or similar article. C. M. Eich. 135,137; Mar. 2.

Sound amplification unit, Portable. W. C. Cottrell, Jr., A. S. Ganzert, Jr., and M. J. Shapp. 135,150; Mar. 2.

Spectacles, Pair of. F. B. Neary. 135,140; Mar. 2.

Temple member for spectacles or similar article. E. Reynolds. 135,141; Mar. 2.

Trimming, Embroidered. J. Goldfrank. 135,163; Mar. 2.

Wheel, Airplane control. T. Obszarny and J. J. Rowell. 135,167; Mar. 2.

Wrench, Spanner. H. M. Miller. 135,158; Mar. 2.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 2D DAY OF MARCH, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Acid, Production of succinic. F. Ebel and F. Pyzik. 2,312,468; Mar. 2.

Acoustic device. H. D. Fiene. 2,312,534; Mar. 2.

Acylated P-aminobenzyl amines and their quaternary derivatives. K. Engel and K. Pfaehler. 2,312,395; Mar. 2.

Adapter. H. R. Reynolds. 2,312,590; Mar. 2.

Adjustable coupling system. L. F. Curtis. 2,312,687; Mar. 2.

Adjustable stand. G. E. Froelich. 2,312,636; Mar. 2.

Aerial merry-go-round. L. U. Eyerly. 2,312,533; Mar. 2.

Agent supplying attachment for washing machines. L. Zimarik. 2,312,950; Mar. 2.

Agitator, Washing machine. C. C. Scheele. 2,312,992; Mar. 2.

Airfoil construction. F. Terdina, Jr. 2,312,603; Mar. 2.

Airplane aileron. J. G. Hazard and A. E. Arslan. 2,312,546; Mar. 2.

Airplane seat structure, Adjustable. G. W. O'Hare. 2,312,473; Mar. 2.

Airplane tail wheel structure. J. M. Hudson. 2,312,553; Mar. 2.

Alkali metal salts of β-sulphopropionitrile and preparation. E. L. Carpenter. 2,312,878; Mar. 2.

Alkaloid salts and the manufacture thereof. J. L. Regnier. 2,312,440; Mar. 2.

Alkoxy meta-dioxanes. E. Arundale and L. A. Mikeska. 2,312,743; Mar. 2.

Aluminum, Coating. J. S. Thompson. 2,312,855; Mar. 2.

Amplifier, Anticoupled. W. Hagen. 2,313,014; Mar. 2.

Amplifier, Ultra-short wave. A. van der Ziel and M. J. O. Strutt. 2,312,739; Mar. 2.

Amplifying circuit for ultra-short waves. A. van der Ziel, M. J. O. Strutt, and K. S. Knol. 2,312,510; Mar. 2.

Anchor bolt insert. J. F. Hulme. 2,312,338; Mar. 2.

Anchoring device for application to mattress walls. M. Bechik. 2,312,379; Mar. 2.

Anode cooling jacket. C. V. Litton. 2,312,920; Mar. 2.

Apparatus for coiling strip materials and the like. E. T. Lorig. 2,312,428; Mar. 2.

Apparatus for control of highway crossing gate. C. L. Goodlin. 2,312,758; Mar. 2.

Apparatus for controlling in grading, draining, or washing fibrous suspended material. N. W. Jönsson. 2,312,969; Mar. 2.

Apparatus for controlling the speed of revolution of machines. A. Duwe. 2,313,011; Mar. 2.

Apparatus for demonstrating light distribution. S. R. Williams. 2,312,460; Mar. 2.

Apparatus for keeping constant temperature. H. I. Hesse. 2,313,015; Mar. 2.

Apparatus for loading and folding bottle carrier cartons. S. R. Koolnis. 2,312,651; Mar. 2.

Apparatus for processing sensitized sheets. R. B. Hussey and C. K. Jones. 2,312,647; Mar. 2.

Apparatus for producing one-piece multifocal lens blanks. F. E. Duckwall. 2,312,529; Mar. 2.

Apparatus for recovering carbon disulphide and sulphurated hydrogen during the finishing process of the manufacture of viscose staple fiber. W. Ufnowski. 2,313,006; Mar. 2.

Apparatus for spot welding. H. W. Stieglitz. 2,312,938; Mar. 2.

Apparatus for the manufacture of sheet glass. J. H. Lewis. 2,312,564; Mar. 2.

Apparatus for the producing of aqueous suspensions of clay. H. Brudal. 2,313,010; Mar. 2.

Apparatus for the removal of railway rails from pavement. F. W. Stiefel. 2,312,937; Mar. 2.

Apparatus for treating plastic material. F. G. Gronemeyer. 2,312,639; Mar. 2.

Apparatus for washing glasses and the like. V. W. Cunningham. 2,312,319; Mar. 2.

Applicator roll. W. C. Toland and E. Bassist. 2,312,853; Mar. 2.

Arch support. J. D. Baum. 2,312,378; Mar. 2.

Armor, Protective. H. B. Lewis. 2,312,841; Mar. 2.

Arrangement for reducing equalizing oscillations. H. Meyer. 2,312,571; Mar. 2.

Article rack. G. L. C. Earle. 2,312,327; Mar. 2.

Attachment for milling machines. H. Norberg. 2,312,354; Mar. 2.

Automobile body construction. H. D. Geyer. 2,312,812; Mar. 2.

Bagmaking machine. A. Potdevin. 2,312,729; Mar. 2.

Bait casting lure, Artificial. S. Piro, Jr. 2,312,585; Mar. 2.

Balanced brush for electric motors. W. L. Hansen and I. N. Hurst. 2,312,900; Mar. 2.

Bearing assembly means. T. M. Allen. 2,312,615; Mar. 2.

Belt conveyer idler. C. R. Weiss and R. W. Parker. 2,312,610; Mar. 2.

Bending brake. R. F. Dehn. 2,312,755; Mar. 2.

Billets, Scalping. A. Oberhoffken. 2,312,355; Mar. 2.

Binder, Surgical. E. Drew. 2,312,632; Mar. 2.

Birdhouse. L. W. Hoskins. 2,312,551; Mar. 2.

Bit: *See*—
Coal cutting bit.

Bituminous paving mixtures, Preparing. J. C. Roediger. 2,312,674; Mar. 2.

Blade magazine. N. Testi. 2,312,502; Mar. 2.

Blouse. M. Sholder and A. M. Cooper. 2,312,777; Mar. 2.

Board: *See*—
Display board. Game board.

Boat hull construction. A. J. Higgins. 2,312,548; Mar. 2.

Boat, Metal. B. Lermont. 2,312,722; Mar. 2.

Body tipping apparatus for motor vehicles. P. A. Brick. 2,312,871; Mar. 2.

Boiler: *See*—
Steam boiler.

Boiler feed water conditioning equipment and method. H. J. Meier. 2,312,570; Mar. 2.

Booster pump. R. R. Curtis. 2,312,526; Mar. 2.

Booth, Spray. E. F. Brady. 2,312,386; Mar. 2.

Bottle chute. F. Payment. 2,312,438; Mar. 2.

Bottle closure, Nonrefittable. E. Greene and W. H. Forrest. 2,312,759; Mar. 2.

Box: *See*—
Engineer's tape box. Folding box.

Box lid, Chick. K. I. Miller. 2,312,662; Mar. 2.

Box spring and mattress, Unit. H. Hopkes. 2,312,411; Mar. 2.

Brake: *See*—
Bending brake. Vehicle brake.

Brake device for electrical circuits. J. J. Root. 2,312,980; Mar. 2.

Broach, Roughing. W. J. Phaneuf. 2,312,929; Mar. 2.

Brush. C. G. Rowland. 2,312,591; Mar. 2.

Building construction. L. A. Falco. 2,312,397; Mar. 2

Bundle header. J. E. Eklund. 2,312,530; Mar. 2.

Burner: *See*—
Gas pilot burner. Oil burner.

Burner control apparatus. C. V. Hildebrecht. 2,312,547; Mar. 2.

Butter-chip maker. M. J. Weinberg. 2,312,511; Mar. 2.

Butter dispenser. F. C. Walters and C. F. Proudman. 2,312,456; Mar. 2.

Cabinet: *See*—
Film drier cabinet.

Cabinet. C. Huenlich. 2,312,907; Mar. 2.

Cable joint and process. L. I. Komives and J. D. Piper. 2,312,652; Mar. 2.

Calculator. J. Robitschek. 2,313,021; Mar. 2.

Camera attachment, Roll film. E. Ericksson. 2,312,887; Mar. 2.

Cap and closure for containers, Dispensing. A. H. Peterson. 2,312,584; Mar. 2.

Car: *See*—
Double deck sleeping car. Railway car.

Carbon. W. M. Fuchs. 2,312,707; Mar. 2.

Carburetor. V. R. Heftler. 2,312,816; Mar. 2.

Carburetor. V. R. Heftler. 2,312,818; Mar. 2.

Car rocking implement. R. J. Scharoun. 2,312,850; Mar. 2.

Carboard display device. J. V. Horr. 2,212,644; Mar. 2.

Card index system, filing system, and the like. M. A. H. Aamodt. 2,312,302; Mar. 2.

Carrier for poppet type engine valves. H. J. Nathan. 2,312,434; Mar. 2.

Carton. R. B. Deem and G. V. Thompson. 2,312,631; Mar. 2.

Carton, Display. M. A. Smith. 2,312,595; Mar. 2.

Cartridge shell, Blasting. C. L. Barker. 2,312,744; Mar. 2.

Case: *See*—
Thermometer case.

Casement window operator. A. Lang. 2,312,720; Mar. 2.

Catalysts, Preparing and treating. G. H. Morey and F. E. Frey. 2,312,572; Mar. 2.

Catalytic combination process. R. F. Ruthruff. 2,312,445; Mar. 2.

Cationic exchange material. M. J. Shoemaker. 2,312,449; Mar. 2.

Cellulose products, Dressed and softened regenerated. W. Gellendien and J. Eggert. 2,312,708; Mar. 2.

Centrifugal screening machine for paper stock and similar material. A. J. Haug. 2,312,545; Mar. 2.
Centrifugally operated clutch. W. W. Everts. 2,312,889; Mar. 2.
Chain-stitch sewing machine. F. F. Zeier. 2,312,858; Mar. 2.
Chair: *See*—
Walker and rolling chair.
Charging crane for fireless locomotives. P. Glill and K. Velan. 2,313,013; Mar. 2.
Check controlled and dispensing turnstile and other device. H. M. Kilpatrick. 2,312,340; Mar. 2.
Chemical process and product. W. E. Hanford. 2,312,967; Mar. 2.
Chlorine, Producing. F. R. Balcar. 2,312,952; Mar. 2.
Chopper, Cotton. C. E. Morris. 2,312,666; Mar. 2.
Cigar piercing apparatus. B. J. Niemczynski, J. B. and J. D. Midulla. 2,312,577; Mar. 2.
Cigarette supporter and snuffer. B. E. Bowles. 2,312,870; Mar. 2.
Circuit: *See*—
Coupling circuit.
Frequency variation response circuit.
Protective circuit.
Volume control circuit.
Circuit breaker. J. A. Coy. 2,312,753; Mar. 2.
Circuit breaker. W. H. Frank. 2,312,633; Mar. 2.
Circuit for amplifying electric oscillations. A. van der Ziel and K. S. Knol. 2,312,509; Mar. 2.
Clamp: *See*—
Hose clamp.
Quick adjustable clamp.
Cleaner: *See*—
Suction cleaner.
Vacuum cleaner.
Clip for writing boards. H. A. Oldham. 2,312,436; Mar. 2.
Clipper, Rotary. H. Seiders. 2,312,933; Mar. 2.
Closure members. G. L. C. Earle. 2,312,325; Mar. 2.
Clutch: *See*—
Centrifugally operated clutch.
Coagulometer. R. L. Rowland. 2,312,488; Mar. 2.
Coal, Bluing. G. P. Ham and R. B. Barnes. 2,312,898; Mar. 2.
Coal cutting bit, Reversible. C. J. Forbes. 2,312,538; Mar. 2.
Coffee maker. I. Jepson. 2,312,555–6; Mar. 2.
Coin control apparatus. W. F. Herschede and W. N. Woodruff. 2,312,836; Mar. 2.
Coin-controlled machine. H. S. Benjamin. 2,312,793; Mar. 2.
Collar and preparing same, Semistiff. J. D. McBurney and E. H. Nollau. 2,312,925; Mar. 2.
Collar holder. W. Forstner. 2,312,890; Mar. 2.
Color television apparatus. M. Cawein. 2,312,800; Mar. 2.
Color television system. H. S. Bamford. 2,312,792; Mar. 2.
Combination band pulling and punching tool. E. J. Govanus. 2,312,400; Mar. 2.
Communication system. F. H. Kroger. 2,312,824; Mar. 2.
Compass, Dynamic. J.-L. Reutter. 2,313,005; Mar. 2.
Compounds having a pregnane or pregnene skeleton. T. Reichstein. 2,312,483; Mar. 2.
Compounds, Manufacture of amino. L. G. Davy. 2,312,754; Mar. 2.
Compression matrix with a pulverulent material, Filling. W. Bolk. 2,312,997; Mar. 2.
Compressor. F. A. Halleck. 2,312,335; Mar. 2.
Concrete floating and brick surfacing machine. J. W. Heltzel. 2,312,968; Mar. 2.
Concrete wall form. O. Summers. 2,312,983; Mar. 2.
Condensation product and preparing same. C. Graenacher, R. S. Bottmingen, and O. Albrecht. 2,312,896; Mar. 2.
Condenser, Variable. K. F. Rodgers. 2,312,932; Mar. 2.
Conduits, Cooling exhaust. A. Franz. 2,312,399; Mar. 2.
Connector: *See*—
Telephone cord connector.
Connector plug. A. Brownstein. 2,312,794–5; Mar. 2.
Construction of walls. R. A. L. Weitzel. 2,312,994; Mar. 2.
Contact spring assembly. H. Hansen. 2,312,408; Mar. 2.
Container: *See*—
Dispensing container.
Easy opening container.
High pressure container.
Self-reinforcing paper container.
Container. C. B. Sprague. 2,312,598; Mar. 2.
Container and dispenser, Combination. L. A. Trevisan. 2,312,373; Mar. 2.
Container for beverages, Metal. W. F. Punte. 2,312,358; Mar. 2.
Container top. H. Fulenwider and K. C. Weatherby. 2,312,637; Mar. 2.
Containers, Manufacture of threaded. F. A. Parkhurst. 2,313,031; Mar. 2.
Control apparatus. T. R. Harrison. 2,312,711; Mar. 2.
Control device. H. E. Malone. 2,312,349; Mar. 2.
Control device, Operative fluid delivery. M. Mennesson. 2,313,002; Mar. 2.
Control of two or more concomitant devices. J. Mercier. 2,312,432; Mar. 2.
Control system. W. R. Miller. 2,312,353; Mar. 2.
Control system. W. A. Ray. 2,312,479; Mar. 2.
Control system, Compressor. B. E. O'Hagan and A. T. Johnston. 2,312,728; Mar. 2.
Control system for alternating current motors. E. W. Seeger and C. Stansbury. 2,312,592; Mar. 2.
Controlling mechanism. F. E. Sinclair. 2,312,366; Mar. 2.
Cooled electron tube. H. Zodtner. 2,312,465; Mar. 2.
Corrosion preventing connecting means for storage batteries. W. F. Bahr. 2,312,791; Mar. 2.
Coupling circuit. N. E. Lindenblad. 2,312,827; Mar. 2.
Coupling devices, Applying. J. F. O'Brien. 2,312,579; Mar. 2.
Cover: *See*—
Sectional rigid wagon cover.
Cracking process. P. E. Kuhl. 2,312,719; Mar. 2.
Craft, Sailing. G. A. Lyon. 2,312,567; Mar. 2.
Crate. H. V. Bowman. 2,312,621; Mar. 2.
Cream separator. W. C. Teunisz. 2,312,682; Mar. 2.
Crutch. J. F. Wilson. 2,312,786; Mar. 2.
Culvert, Wooden. H. E. Kuphal. 2,312,653; Mar. 2.
Current transformer, Constant. R. A. S. Johnson. 2,312,416; Mar. 2.
Cutter: *See*—
Glass cutter.
Grass and weed cutter.
Insulated siding cutter.
Cyclopentanopolyhydrophenanthrene ketols and esters thereof, Preparing. T. Reichstein. 2,312,484; Mar. 2.
Cylinder liner. V. R. Heftler. 2,312,817; Mar. 2.
Cylinder, Work. M. W. Huber. 2,312,412; Mar. 2.
Density compensator for flow meters. J. P. Voller and E. R. Loud. 2,312,944; Mar. 2.
Deoiled sludge in combination with acid recovery, Preparation of. R. P. Ferguson and I. P. Jones. 2,312,756; Mar. 2.
Derivatives of pregnane and pregnene. T. Reichstein. 2,312,480; Mar. 2.
Derivatives of saturated or unsaturated pregnane-diones Substituted. T. Reichstein. 2,312,481; Mar. 2.
Derivatives of the cyclopentanopolyhydrophenanthrene series. T. Reichstein. 2,312,482; Mar. 2.
Device adapted to eliminate oscillations. F. M. M. B Salomon. 2,313,024; Mar. 2.
Device as an aid in shoe fitting. I. E. Hewitt, Jr 2,312,410; Mar. 2.
Device for conditioning oil. A. R. Thompson. 2,312,604; Mar. 2.
Device for operating change speed gears in motor vehicles. G. Meyer. 2,312,433; Mar. 2.
Device for raising the wheels of vehicles and supporting the same in raised position. J. M. Westrate. 2,312,856; Mar. 2.
Device for storing toy logs and loading toy cars therewith. R. G. Smith. 2,312,450; Mar. 2.
Device for the control of the fuel supply of engines. R. Hauguel. 2,313,000; Mar. 2.
Diazine derivatives. G. F. D'Alelio. 2,312,691; Mar. 2.
Diazine derivatives. G. F. D'Alelio. 2,312,695; Mar. 2.
Diazine derivatives. G. F. D'Alelio. 2,312,700; Mar. 2.
Direction finding system. K. Koschmieder. 2,312,421; Mar. 2.
Discharge device. D. E. Marshall and W. J. Knochel. 2,312,350; Mar. 2.
Disks, Spreading. E. R. Couden. 2,312,960; Mar. 2.
Dispenser: *See*—
Butter dispenser.
Container and dispenser.
Dispenser. E. J. Osterbauer. 2,312,973; Mar. 2.
Dispenser. V. O. Ring. 2,312,730; Mar. 2.
Dispensing container. R. Bernhardt. 2,312,380; Mar. 2.
Dispensing device. D. C. Gould and R. K. Lusk. 2,312,544; Mar. 2.
Display board. F. G. H. Engstrom. 2,312,532; Mar. 2.
Display stand. M. A. Smith and W. G. Wilcox. 2,312,594; Mar. 2.
Divider, Grain. A. M. Welty. 2,312,785; Mar. 2.
Double deck sleeping car. R. H. Horton and J. W. Patton. 2,312,906; Mar. 2.
Dowel machine. M. Despres. 2,312,884; Mar. 2.
Dredge pump. G. C. Kumlin and J. W. Meckenstock. 2,312,422; Mar. 2.
Dressing device. S. Madsen. 2,312,347; Mar. 2.
Drill carriage, Miner's. S. W. McDougall. 2,312,660; Mar. 2.
Drive, Geared axle. J. C. Rhoads. 2,312,931; Mar. 2.
Driving mechanism. F. Mathieu. 2,313,001; Mar. 1.
Driving mechanism for centrifugal separators. J. F. Tholl. 2,312,505; Mar. 2.
Drying method. D. D. Peebles. 2,312,474; Mar. 2.
Duplex system. W. G. H. Finch. 2,312,328; Mar. 2.
Dyestuffs of the anthraquinone series. D. P. Graham. 2,312,401; Mar. 2.
Dyestuffs of the anthraquinone series. A. J. Wuertz and D. P. Graham. 2,312,462; Mar. 2.
Dyestuff preparations. F. Felix. 2,312,398; Mar. 2.
Easy opening container. W. F. Punte. 2,312,359; Mar. 2.
Electric cable or other insulated conductor. F. W. Tomlinson and C. M. Beckett. 2,312,506; Mar. 2.
Electric control means. J. W. Owens. 2,312,974; Mar. 2.
Electric device, Vapor. A. Siemens, H. von Bertele, and W. Burgsmüller. 2,313,029; Mar. 2.
Electric dry shaver. A. H. Sorensen. 2,312,497; Mar. 2.
Electric fluid generator. A. Caldwell and V. A. Elliott. 2,312,876; Mar. 2.

Electric fluid heating means. F. D. Shrum. 2,312,677; Mar. 2.
Electric torch or flashlight. E. A. Olds. 2,312,670; Mar. 2.
Electric wave amplifier. H. Berger and F. Herriger. 2,313,008; Mar. 2.
Electrical measuring apparatus. B. Lansdale. 2,312,840; Mar. 2.
Electrical measuring instrument. J. H. Miller. 2,312,990; Mar. 2.
Electrical outlet plug. E. G. Schaeffer. 2,312,496; Mar. 2.
Electrical wiring system. J. F. O'Brien. 2,312,580; Mar. 2.
Electron discharge device. F. B. Llewellyn. 2,312,723; Mar. 2.
Electroplating metallic strip, Method and apparatus for continuously. E. S. Taylerson. 2,312,452; Mar. 2.
Electrostatic electron lens. F. Krause. 2,313,018; Mar. 2.
Emergency cut-over valve. R. B. Campbell. 2,312,686; Mar. 2.
Emulsion for burn treatment. R. L. Holmes and H. C. De Hoff. 2,312,715; Mar. 2.
Enamels, Glass. R. Andrews and R. J. King. 2,312,788; Mar. 2.
Enciphering apparatus. G. Garnier. 2,313,012; Mar. 2.
Engine: *See*—
Internal combustion engine.
Engineer's tape box. P. R. Van Buskirk. 2,312,943; Mar. 2.
Envelope, Emergency mailing. D. B. Dickinson. 2,312,964; Mar. 2.
Esters, Production of alkamine. S. H. Horenstein and and H. Pählicke. 2,313,016; Mar. 2.
Evaporator. W. E. Beline. 2,312,312–3; Mar. 2.
Explosive composition. M. A. Cook. 2,312,752; Mar. 2.
Fabric: *See*—
Mechanical fabric.
Fabrics, Producing fast dyed patterned parchmentized. F. Lorenz and E. Weiss. 2,312,346; Mar. 2.
Fabrics, Production of knitted. A. F. Guyler, W. H. Boaler, and W. E. Stanley. 2,312,334; Mar. 2.
Fabrics, Production of knitted. A. F. Guyler, W. H. Boaler, and W. E. Stanley. 2,312,965; Mar. 2.
Fan, J. H. Cohen. 2,312,627; Mar. 2.
Fastener: *See*—
Snap fastener.
Fastener elements, Manufacture of separable. J. G. Soave. 2,312,494; Mar. 2.
Fastening means. J. F. Dauster. 2,312,630; Mar. 2.
Feeler device for looms. E. C. Alix. 2,312,515; Mar. 2.
Fender for lawn mowers, Shrubbery. T. L. Nelson. 2,312,435; Mar. 2.
Fender shield construction. A. P. Fergueson. 2,312,536; Mar. 2.
Fiber-forming polymers and making them. R. E. Christ. 2,312,879; Mar. 2.
Fibrous material and making the same, Indurated. A. Elmendorf. 2,312,831; Mar. 2.
Fibrous protein material, Hardening. G. S. de Kadt. 2,312,998; Mar. 2.
File follower. N. Y. Andersen. 2,312,742; Mar. 2.
Filing drawer. R. R. West. 2,312,611; Mar. 2.
Film drier cabinet. A. W. Buck. 2,312,986; Mar. 2.
Filter for separating solids from liquids. L. H. de Langen. 2,312,999; Mar. 2.
Filter tank and agitator therefor, Rotary. C. B. Bowman. 2,312,620; Mar. 2.
Firearm and ammunition therefor. G. Tauschek. 2,313,030; Mar. 2.
Fishing reel. N. A. Nelson. 2,312,576; Mar. 2.
Fishing rod holder. H. W. Cannon, Jr. 2,312,957; Mar. 2.
Fishline package. W. J. Hamburger. 2,312,899; Mar. 2.
Flashlight. F. J. Berlinger. 2,312,305; Mar. 2.
Flashlight, Pocket. E. Zdansky. 2,312,463; Mar. 2.
Flight training device, Elementary. C. W. Soule. 2,312,370; Mar. 2.
Flow device, Differential stage lift. A. Boynton. 2,312,315; Mar. 2.
Fluid pressure regulating valve. R. B. Campbell. 2,312,877; Mar. 2.
Fluid pump. R. E. Hartline. 2,312,712; Mar. 2.
Fluid pump and motor mechanism. A. G. Reynolds 2,312,979; Mar. 2.
Fluid pump or motor. D. S. Cowherd. 2,312,961; Mar. 2.
Fruit peel press. M. D. Truesdale. 2,312,940; Mar. 2.
Fluorescent tube lighting fixture. M. B. Beck. 2,312,617–8; Mar. 2.
Fluosulphonates, Manufacture of. R. K. Iler. 2,312,413; Mar. 2.
Folding box. W. Trogman. 2,312,507; Mar. 2.
Foot bathing device. W. B. Cox. 2,312,524; Mar. 2.
Fork, Grapple. H. J. Ferris. 2,312,808; Mar. 2.
Frame: *See*—
Hand weaving frame.
Window screen frame.
Frame for record sheets, Supporting. B. H. Freedman. 2,312,331; Mar. 2.
Framework, Attaching panels to. E. Schaefer. 2,312,489; Mar. 2.
Frequency modulation. W. S. Percival. 2,312,977; Mar. 2.
Frequency variation response circuit. B. Trevor. 2,312,783; Mar. 2.
Furnace for small parts, Tempering. R. Gröger. 2,312,403; Mar. 2.
Gain control for seismograph amplifiers. E. M. Shook. 2,312,934; Mar. 2.
Game. M. F. Lathers. 2,312,423; Mar. 2.
Game board. P. Cusano. 2,312,882; Mar. 2.
Garment. J. A. Addonisio. 2,312,860; Mar. 2.
Garment, Infant's. E. A. Sheridan. 2,312,981; Mar. 2.
Gas mask for horses. O. Herbin. 2,312,714; Mar. 2.
Gas pilot burner. O. W. Hahn. 2,312,834; Mar. 2.
Gas turbine plant. W. Traupel. 2,312,605; Mar. 2.
Gas turbine plant. R. Anxionnaz and R. Imbert. 2,312,995; Mar. 2.
Gases, Purifying. F. Rottmayr. 2,313,022; Mar. 2.
Gasoline, Manufacture of. F. E. Frey. 2,312,539; Mar. 2.
Gate: *See*—
Apparatus for control of highway crossing gate.
Gauge: *See*—
Pressure gauge.
Gearing. H. J. Andrew. 2,312,376; Mar. 2.
Generator: *See*—
Electric fluid generator.
Signal generator.
Vapor generator.
Glass cutter. A. T. Fletcher. 2,312,635; Mar. 2.
Glass setting, Safety. D. J. Murnane. 2,312,667; Mar. 2.
Grader, Egg. W. E. Petersen. 2,312,774; Mar. 2.
Grass and weed cutter. J. A. Orr. 2,312,972; Mar. 2.
Grave lining protection unit. R. E. Gleason, P. H. Coffey, and G. Reuter. 2,312,709; Mar. 2.
Grave marker. W. H. H. Zentmyer. 2,312,859; Mar. 2.
Grease and manufacture thereof. A. J. Morway and J. C. Zimmer. 2,312,725; Mar. 2.
Grommet. D. F. Shepherd. 2,312,364; Mar. 2.
Guide for Kelly bars. O. L. Derrick. 2,312,804; Mar. 2.
Gun laying mechanism. V. Ulrich and R. Diener. 2,312,508; Mar. 2.
Hair dyes of the so-called oxidation type, Rendering inoffensive. E. Schueller. 2,313,027; Mar. 2.
Hand weaving frame. L. L. Clements. 2,312,388; Mar. 2.
Harness, Seat. M. Watter. 2,312,946; Mar. 2.
Harvester-thresher. R. B. Johnston. 2,312,838; Mar. 2.
Headgear. I. Turchin. 2,312,606; Mar. 2.
Heart stimulants, Obtaining crystallized. E. Rabald and J. Kraus. 2,312,588; Mar. 2.
Heat insulating material. C. Turner and B. J. Brady. 2,312,301; Mar. 2.
Heater. C. E. Mayerhoefer. 2,312,767; Mar. 2.
Hermetic seal bottle stopper. H. Ulanet. 2,312,738; Mar. 2.
High frequency system. W. H. Unger. 2,312,374; Mar. 2.
High pressure container. E. Kopf and R. Wasmuht. 2,312,420; Mar. 2.
High pressure quenching method and fixture. H. E. Somes. 2,312,597; Mar. 2.
Holder: *See*—
Collar holder.
Fishing rod holder.
Razor blade holder.
Toilet paper roll holder.
Welding rod holder.
Honing machine. C. A. Fulmer. 2,312,540; Mar. 2.
Hood locking mechanism. H. M. Northrup and J. W. Greig. 2,312,578; Mar. 2.
Hook: *See*—
Pruning hook.
Hook. J. E. Bales. 2,312,985; Mar. 2.
Hormones, Preparing gonadotropic pituitary. M. Hartmann and F. Benx. 2,312,901; Mar. 2.
Horse, Collapsible. H. C. Campbell. 2,312,956; Mar. 2.
Hose clamp. C. H. McKee. 2,312,575; Mar. 2.
Hose reel. E. W. Davis. 2,312,528; Mar. 2.
Hydraulic calender. G. C. Munro. 2,312,726; Mar. 2.
Hydraulic classifier. H. M. Lewers. 2,312,563; Mar. 2.
Hydraulic cleaner for drains and the like. J. Leyden. 2,312,826; Mar. 2.
Hydraulic motor. F. C. Draper. 2,312,394; Mar. 2.
Hydraulic well pump. L. E. Hughes. 2,312,337; Mar. 2.
Hydrocarbons containing olefins, Treating. K. Korpi. 2,312,560; Mar. 2.
Hydrocarbons, Cracking. J. W. Teter. 2,312,681; Mar. 2.
Hydrodynamic machine. W. Ferris. 2,312,891; Mar. 2.
Hydrometer. R. W. Blanchard. 2,312,307; Mar. 2.
Hydrostatic mechanical lubricator. K. M. Anderson. 2,312,304; Mar. 2.
Igniting and operating circuit for electric discharge tubes. F. Lucan. 2,312,429; Mar. 2.
Ignition composition. C. A. Woodbury. 2,312,741; Mar. 2.
Image suppression system. D. V. Sinninger. 2,312,935; Mar. 2.
Indicating device. T. B. Holliday. 2,312,336; Mar. 2.
Indicator: *See*—
Spark advance indicator.
Indicator or relay system. R. A. Bierwirth. 2,312,306; Mar. 2.

Insect life in flour and the like in bulk, Method and apparatus for destroying. F. R. Smith. 2,312,368; Mar. 2.
Insecticide. W. E. Craig and W. F. Hester. 2,312,801; Mar. 2.
Instrument mounting. I. O. Miner. 2,312,926; Mar. 2.
Insulated siding cutter. J. H. Norrid. 2,312,971; Mar. 2.
Insulating panel, Heat. D. D. Grassick. 2,312,987; Mar. 2.
Intermitting system for flowing wells. L. M. Trawick. 2,312,455; Mar. 2.
Internal combustion engine. C. R. Smith. 2,312,500; Mar. 2.
Internal combustion engine. F. Hurum. 2,313,017; Mar. 2.
Jig, Ore pulp. G. G. Chisholm. 2,312,522; Mar. 2.
Joint: *See*—
Packed swivel joint. Resilient transmission joint.
Rail joint.
Joint assembly. M. H. Alldredge. 2,312,516; Mar. 2.
Keeper for locks and latches. F. M. Fisher. 2,312,892; Mar. 2.
Ketones, Preparation of unsaturated. C. A. Cohen. 2,312,751; Mar. 2.
Knife, Pating. J. Nelson and A. R. Stewart. 2,212,771; Mar. 2.
Knitting, Ladderproof. W. Hirt and A. Dürsteler. 2,312,903; Mar. 2.
Knitting machine, Flat. S. W. Lippitt. 2,312,565; Mar. 2.
Knock-off mechanism for drawing frames. F. B. Kelliher. 2,312,558; Mar. 2.
Lacquer film having a flat finish, Applying. C. Bogin and H. L. Wampner. 2,312,309; Mar. 2.
Lactams from oximes of cyclic ketones, Manufacture of. P. Schlack. 2,313,026; Mar. 2.
Ladder, Fire escape elevator. I. Graham. 2,312,833; Mar. 2.
Lamp: *See*—
Miner's lamp. Sanctuary oil lamp.
Lamp mounting and assembly. W. Trautner. 2,312,454; Mar. 2.
Latch mechanism, Fender shield. A. P. Fergueson and W. B. Schueren. 2,312,537; Mar. 2.
Latching device. J. B. O'Connor. 2,312,991; Mar. 2.
Laterally entering subterranean strata and withdrawing the pore content thereof. L. A. Douglas. 2,312,805; Mar. 2.
Lawn edger. J. Maga. 2,312,569; Mar. 2.
Lawn mower and weed topper, Motor driven. C. R. Underhill. 2,312,984; Mar. 2.
Lifter: *See*—
Vase and flower lifter.
Lifting mechanism for tractor operated implements. A. Lentz. 2,312,424; Mar. 2.
Light-sensitive element. W. C. Toland and E. Bassist. 2,312,852; Mar. 2.
Light-sensitive element. W. C. Toland and E. Bassist. 2,312,854; Mar. 3.
Lighting fixture closure. J. Donnelly. 2,312,393; Mar. 2.
Liquids, Method and apparatus for straining. H. G. Lubke. 2,312,764; Mar. 2.
Loader, Sack. E. R. Smith. 2,312,779; Mar. 2.
Lock: *See*—
Sash holder and lock.
Locking device for bucket teeth. A. N. Crawford. 2,312,802; Mar. 2.
Locking mechanism for the setting members of calculating machines. B. Carlström. 2,312,797; Mar. 2.
Locking mechanism for vehicle doors. A. P. Mickler. 2,312,352; Mar. 2.
Locomotive drive arrangement. A. H. Morey. 2,312,924; Mar. 2.
Lubricator: *See*—
Hydrostatic mechanical lubricator.
Luminescent tube and system. C. P. Boucher. 2,312,866; Mar. 2.
Machine for drilling, reaming, etc., Automatic. P. Mann. 2,312,922; Mar. 2.
Machine for washing clothes. P. E. Geldhof. 2,312,541; Mar. 2.
Machine gun. W. A. Plourde. 2,312,586; Mar. 2.
Magazine for safety razor blades. N. Testi. 2,312,453; Mar. 2.
Magneto, Multicylinder. W. E. Schwarzmann, F. S. Coe, and L. W. Rosenthal. 2,312,447; Mar. 2.
Magnetostriction measuring apparatus. A. W. Everest. 2,312,888; Mar. 2.
Marking device. G. B. Cathey. 2,312,625; Mar. 2.
Material handling device. V. G. Ellen. 2,312,806; Mar. 2.
Material subdividing installation. O. W. Randolph. 2,312,478; Mar. 2.
Materials, Concentrating ore. D. W. Jayne, Jr., S. E. Erickson, and H. M. Day. 2,312,414; Mar. 2.
Materials, Treating. M. M. B. Abribat. 2,313,007; Mar. 2.
Materials, Treating. B. M. Bird and F. P. Smith. 2,312,865; Mar. 2.
Measuring system. A. J. Williams, Jr. 2,312,945; Mar. 2.
Mechanical fabric. C. C. Gordon. 2,312,710; Mar. 2.
Mechanism for change speed gearings, Selecting and shifting. C. D. Peterson and A. H. Deimel. 2,312,975; Mar. 2.
Mechanism for the automatic control of speed change transmissions of motor vehicles. J. Nougarou. 2,313,003; Mar. 2.
Mechanism for transmitting power. F. R. Ihañez. 2,312,908; Mar. 2.
Meta-hydroxyphenyl-ethanolamine and making the same. H. Legerlotz. 2,312,916; Mar. 2.
Metal, Composite. W. W. Patrick. 2,312,582; Mar. 2.
Metal rolling mill. L. Jones. 2,312,648; Mar. 2.
Metallurgical process. J. Lohse. 2,313,019; Mar. 2.
Metals, Casting. D. J. Campbell. 2,312,796; Mar. 2.
Metals, Casting of. P. Pritchard. 2,313,004; Mar. 2.
Metals, Distillation and condensation of. H. L. Gentil. 2,312,811; Mar. 2.
Meter: *See*—
Power factor meter. Sheerness meter.
Metering system, Remote. H. P. Siewert. 2,312,401; Mar. 2.
Milk safe. I. Berger. 2,312,745; Mar. 2.
Mill: *See*—
Metal rolling mill.
Minerals, Froth flotation of acidic. L. J. Christmann, D. W. Jayne, Jr., and S. E. Erickson. 2,312,387; Mar. 2.
Miner's lamp. G. Wheat. 2,312,613 etaoinshrdlucmu
Mixing machine. E. P. Rochford, J. Stuart, II, and K. Wassen. 2,312,444; Mar. 2.
Modulation system for velocity modulation tubes. C. V. Litton. 2,312,919; Mar. 2.
Moisture content of ginned cotton, Establishing the. R. M. Joyce. 2,312,537; Mar. 2.
Mold for manufacturing electric discharge vessels. R. Scharfnagel. 2,313,025; Mar. 2.
Molding process, Veneer. C. U. Gramelspacher. 2,312,332-3; Mar. 2.
Mothproofing composition. H. Martin, H. Zaeslin, C. Glatthaar, and A. Staub. 2,312,925; Mar. 2.
Motion conversion mechanism. W. J. Culbertson. 2,312,318; Mar. 2.
Motion picture projection machine. E. Boecking. 2,312,308; Mar. 2.
Motion picture projector. R. J. Miller. 2,312,663; Mar. 2.
Motor: *See*—
Fluid pump or motor. Pump, compressor, or hydraulic motor.
Hydraulic motor.
Pressure fluid motor.
Motor fuel. T. H. Risk, L. M. Henderson, and A. B. Wilder. 2,312,360; Mar. 2.
Motor fuel composition. W. J. Backoff, N. D. Williams, J. F. O'Loughlin, H. L. Moir, and J. S. Yule. 2,312,790; Mar. 2.
Mount, Register. T. Stephenson. 2,312,599; Mar. 2.
Mounting: *See*—
Instrument mounting.
Mounting for cultivator steels, Spring trip. C. W. Haagen. 2,312,405; Mar. 2.
Mounting material for microscopic specimens, Synthetic. W. D. Fleming. 2,312,329; Mar. 2.
Movable bulkhead for vehicles. E. A. Sweeley and N. T. Anderson. 2,312,939; Mar. 2.
Multiple suspension file. F. D. Jonas. 2,312,717; Mar. 2.
Multiwire product making machine. A. F. Bradley. 2,312,320; Mar. 2.
Music system, Wired. L. Stone, Jr. 2,312,680; Mar. 2.
Naphthoquinone oxides and preparing the same, L. F. Fieser. 2,312,535; Mar. 2.
Napkin, Sanitary. A. A. Stonehill. 2,312,561; Mar. 2.
Napthoquinone oxides. M. Tishler. 2,312,504; Mar. 2.
Nickel plating. E. M. Baker. 2,312,517; Mar. 2.
N-sulphonylureas, Preparing. E. Haack. 2,312,404; Mar. 2.
Objects of metals and alloys, Making drawn, pressed, or stamped cupped. B. E. Eldred. 2,312,830; Mar. 2.
o-Hydroxybenzene-carboxylic acids and manufacture, Derivatives of. J. Bindler. 2,312,864; Mar. 2.
Oil burner. W. F. Klockau. 2,312,559; Mar. 2.
Oil-modified composition and its preparation. V. E. Maharg and A. P. Mazzucchelli. 2,312,431; Mar. 2.
Oil, Removing mercaptans from petroleum. L. M. Henderson and G. W. Ayers, Jr. 2,312,820; Mar. 2.
Optical instrument. J. S. Goodman. 2,312,542; Mar. 2.
Ornamenting machine. B. W. Freeman and F. S. Knight. 2,312,330; Mar. 2.
Orthoptic apparatus. A. J. Radin. 2,312,930; Mar. 2.
Oscillating impulsing means for washing machines and the like. A. J. Patch. 2,312,581; Mar. 2.
Osmium composition. A. R. Devereux. 2,312,324; Mar. 2.
Oxygen-bearing or flotation. S. E. Erickson and D. W. Jayne, Jr. 2,312,466; Mar. 2.
Packed swivel joint. W. E. King. 2,312,341; Mar. 2.
Paper, Coating of. J. D. Murray. 2,312,927; Mar. 2.
Papermaking. D. B. Bradner and G. C. Munro. 2,312,310; Mar. 2.
Paper pulp suspensions, Method and apparatus for separating heavy particles from. H. Freeman. 2,312,706; Mar. 2.
Photographic apparatus. A. A. Leonard and O. Boesel. 2,312,562; Mar. 2.
Photographic apparatus. E. Zollinger. 2,312,683; Mar. 2.
Photographic enlarger. A. A. Leonard. 2,312,561; Mar. 2.
Photographic printing material and using the same. P. Goldfinger. 2,312,543; Mar. 2.

Photography, Color. A. L. Bunting. 2,312,874; Mar. 2.
Photography, Color. A. L. Bunting and R. W. Thomas. 2,312,875; Mar. 2.
Photo recording device. F. E. Oller. 2,312,472; Mar. 2.
Pies, Method and apparatus for making. L. J. Harriss and B. Lambers. 2,312,814; Mar. 2.
Piezoelectric elements, Mounting. S. A. Bokovoy and H. W. N. Hawk. 2,312,746; Mar. 2.
Pin: *See*—
Safety pin.
Pipe. J. R. Cook. 2,312,628; Mar. 2.
Pipe, Lining. J. F. Stephens. 2,312,993; Mar. 2.
Piston and rod connection for pumps. V. R. Heftler. 2,312,819; Mar. 2.
Placer screen. A. V. Harris. 2,312,409; Mar. 2.
Planographic printing form. F. Lierg. 2,312,499; Mar. 2.
Plastic masses from polyvinyl compounds. H. Orth. 2,312,437; Mar. 2.
Plastic material from vegetable glues. F. Schoenbeck and E. Czapp. 2,312,446; Mar. 2.
Plastic, Tracing. J. C. Brooks and E. R. Derby. 2,312,623; Mar. 2.
Plate, Lock. W. Hoettels. 2,312,643; Mar. 2.
Plow. C. G. Strandlund. 2,312,372; Mar. 2.
Plow bottom. C. G. Strandlund. 2,312,371; Mar. 2.
Plow, Tractor. H. E. Altgelt. 2,312,616; Mar. 2.
Plug: *See*—
Connector plug. Spark plug.
Electrical outlet plug.
Polyamide coated film element. J. E. Kirby. 2,312,913; Mar. 2.
Polyhydric alcohols of the etio-cholane and pregnane series and the manufacture thereof. W. Logemann. 2,312,344; Mar. 2.
Polymeric material. W. E. Hanford. 2,312,966; Mar. 2.
Polymerization products. H. Bestian. 2,312,863; Mar. 2.
Polyvinyl acetal resin, Plasticized. E. R. Derby. 2,312,963; Mar. 2.
Portable drier for use with tumbling barrels. D. P. Smith. 2,312,936; Mar. 2.
Power factor meter. S. C. Hoare. 2,312,904; Mar. 2.
Power steer switch. B. Ulinski. 2,312,942; Mar. 2.
Power transmitting apparatus. R. L. Newton. 2,312,668; Mar. 2.
Power unit. H. A. Hutchins. 2,312,552; Mar. 2.
Practice apparatus for card games. W. F. Shaw. 2,312,593; Mar. 2.
Press: *See*—
Fruit peel press.
Pressure fluid motor. E. G. Gartin. 2,312,367; Mar. 2.
Pressure gauge. F. H. Hopkins. 2,312,716; Mar. 2.
Printer, Facsimile page. C. W. Burcky. 2,312,316-17; Mar. 2.
Printing machine. E. E. Dalton. 2,312,322; Mar. 2.
Process and agent for breaking petroleum emulsions. R. A. Salathiel. 2,312,731-5; Mar. 2.
Propeller, Counterrotating. F. W. Caldwell. 2,312,624; Mar. 2.
Propelling device. E. F. Pels. 2,312,976; Mar. 2.
Protective circuit. E. F. Kurtz. 2,312,915; Mar. 2.
Protector for toilet seats. R. G. Reeves. 2,312,589; Mar. 2.
Protein curd, Stabilized. F. C. Atwood. 2,312,467; Mar. 2.
Pruning hook. E. Merkl. 2,312,766; Mar. 2.
Pulp screen and washer. C. Scheiding. 2,312,675; Mar. 2.
Pump: *See*—
Booster pump. Fluid pump.
Dredge pump. Hydraulic well pump.
Pump. H. R. Ellinwood. 2,312,886; Mar. 2.
Pump. I. C. Jennings. 2,312,837; Mar. 2.
Pump. J. A. Lauck. 2,312,655; Mar. 2.
Pump. F. C. Woelfer, Jr. 2,312,857; Mar. 2.
Pump. M. E. Zimmerer. 2,312,514; Mar. 2.
Pump, compressor, or hydraulic motor. D. G. Jones. 2,312,417; Mar. 2.
Pump construction. R. R. Curtis. 2,312,525; Mar. 2.
Pump piston packing. R. M. Magnuson. 2,312,430; Mar. 2.
Pump unit, Motor driven. A. R. Pezzillo. 2,312,848; Mar. 2.
Quick adjustable clamp. E. A. Canburn. 2,312,955; Mar. 2.
Rack: *See*—
Article rack.
Rack bars, Flame hardening of. A. Kullman and T. A. Waltz. 2,312,839; Mar. 2.
Radiator unit for hot air furnaces. S. Volk. 2,312,784; Mar. 2.
Radio control assembly. O. C. Koch. 2,312,650; Mar. 2.
Radio navigation system. D. S. Bond. 2,312,747; Mar. 2.
Radio shielded ignition apparatus. J. R. Frei. 2,312,757; Mar. 2.
Radio system, Short wave. C. W. Hansell. 2,312,835; Mar. 2.
Rail bond. F. C. Lavarack. 2,312,989; Mar. 2.
Rail joint. A. E. Hill. 2,313,034; Mar. 2.
Railway car. P. Parke. 2,312,847; Mar. 2.
Railway car truck. J. G. Bower. 2,312,383; Mar. 2.
Railway traffic controlling apparatus. L. R. Allison. 2,312,303; Mar. 2.
Railway traffic controlling apparatus. J. J. Vanhorn. 2,312,740; Mar. 2.
Ratio controller for gas or fluid regulators. W. B. Coffee. 2,312,880; Mar. 2.
Razor blade holder. J. Nelson. 2,312,770; Mar. 2.
Razor, Safety. S. Testi. 2,312,503; Mar. 2.
Reaction product of aldehydes and diazine derivatives. G. F. D'Alelio. 2,312,693; Mar. 2.
Reaction product of aldehydes and diazine derivatives. G. F. D'Alelio. 2,312,703; Mar. 2.
Reaction product of aldehydes and diazine derivatives. G. F. D'Alelio. 2,312,705; Mar. 2.
Reaction product of aldehydes and diazine derivatives. G. F. D'Alelio and J. W. Underwood. 2,312,689; Mar. 2.
Reaction product of aldehydes and guanazo triazines. G. F. D'Alelio and J. W. Underwood. 2,313,321; Mar. 2.
Reaction product of aldehydes and sulphamylarylamino triazines. G. F. D'Alelio. 2,312,697; Mar. 2.
Reaction product of aldehydes and triazine derivatives. G. F. D'Alelio. 2,312,696; Mar. 2.
Reaction product of aldehydes and triazine derivatives. G. F. D'Alelio. 2,312,704; Mar. 2.
Reaction product of aldehydes and triazine derivatives. G. F. D'Alelio. 2,312,688; Mar. 2.
Reaction product of aldehydes and triazine derivatives. G. F. D'Alelio. 2,312,690; Mar. 2.
Reaction product of aldehydes and triazine derivatives. G. F. D'Alelio. 2,312,702; Mar. 2.
Reactor, Valve operated variable. L. C. Stenning. 2,312,082; Mar. 2.
Receptacles, Closure for. W. M. Moxley. 2,312,843; Mar. 2.
Recording device. S. J. Gardiner. 2,312,894; Mar. 2.
Recovery apparatus. H. Y. Jennings. 2,312,910; Mar. 2.
Reel: *See*—
Fishing reel. Hose reel.
Refrigerating apparatus. C. B. Demann. 2,312,883; Mar. 2.
Refrigerating apparatus. R. M. Smith. 2,312,596; Mar. 2.
Refrigerating machine. L. W. Atchison. 2,312,861; Mar. 2.
Refrigeration. M. E. Bixler. 2,312,619; Mar. 2.
Refrigerator. G. L. C. Earle. 2,312,326; Mar. 2.
Regulator: *See*—
Voltage regulator. Wattage regulator.
Window regulator.
Relay. C. N. Hickman and E. Lakatos. 2,312,902; Mar. 2.
Relay. L. E. Richmond. 2,312,485; Mar. 2.
Relay. H. Sengebusch. 2,312,493; Mar. 2.
Resilient suspension, particularly for bodies driven with a rotary motion. M. F. A. Julien and Y. A. Rocard. 2,312,822; Mar. 2.
Resilient transmission joint. M. F. A. Julien. 2,312,470; Mar. 2.
Resinous product of aldehydes and guanazo diazines. G. F. D'Alelio and J. W. Underwood. 2,312,320; Mar. 2.
Resinous product from celluiosic substances. E. Färber. 2,312,807; Mar. 2.
Retainer, Hat. J. Goldstein and C. A. Marks. 2,312,813; Mar. 2.
Retractable clothesline support. F. B. Curtenius. 2,312,803; Mar. 2.
Ribbon shifting mechanism. L. Bordonaro. 2,312,314; Mar. 2.
Rivet set. W. W. Weaver. 2,312,457; Mar. 2.
Riveting apparatus. J. Jacques. 2,312,554; Mar. 2.
Roll construction, Dandy. J. A. Spencer. 2,312,878; Mar. 2.
Roller driven for Kelly joints. O. L. Derrick. 2,312,323; Mar. 2.
Rotary tool machine. E. R. Motch, Jr., and J. G. Moohl. 2,312,573; Mar. 2.
Rotary valve. W. R. Tucker. 2,312,941; Mar. 2.
Rotor. E. M. Wetmore. 2,312,612; Mar. 2.
Rubber, Tackifying synthetic. D. V. Sarbach. 2,312,362; Mar. 2.
Safety device for automobiles. E. A. Zoub. 2,312,951; Mar. 2.
Safety pin. C. A. Dies. 2,312,885; Mar. 2.
Salad dressing. M. H. Joffe. 2,313,033; Mar. 2.
Salt, Producing Bunsen's. U. Liddel and R. B. Barnes. 2,312,918; Mar. 2.
Sanctuary oil lamp. O. D. Guilfoil, Jr. 2,312,640; Mar. 2.
Sash holder and lock. H. E. Petersen. 2,312,475; Mar. 2.
Saw, Radial. W. F. Ocenasek. 2,312,356; Mar. 2.
Scraper. S. F. and G. E. Armington. 2,312,311; Mar. 2.
Scraper. A. T. Fletcher. 2,312,809; Mar. 2.
Screen: *See*—
Placer screen. Vibrating screen.
Screening apparatus. E. B. Moore. 2,312,665; Mar. 2.
Screens, Making deep well. H. O. Williams and A. A. Jens. 2,312,458-9; Mar. 2.
Screw driver, Surgeon's bone. C. A. Boyer. 2,312,869; Mar. 2.
Seal for suction rolls, Balanced. E. E. Berry. 2,312,519; Mar. 2.
Seat: *See*—
Tiltable seat.
Seat back. F. Nussbaum. 2,313,020; Mar. 2.
Seat hinge, Theater. S. J. Gedris. 2,312,638; Mar. 2.
Sectional rigid wagon cover. H. Wiemer. 2,312,512; Mar. 2.
Seismic exploration method. A. J. Herzenberg. 2,312,642; Mar. 2.
Self-reinforcing paper container. H. K. Gordon. 2,312,895; Mar. 2.

Separating liquids from solids, Method and apparatus for. B. M. Bird and F. P. Smith. 2,312,829; Mar. 2.
Separator: *See*—
Cream separator.
Shaving and tray serving appliance. C. G. Wadsack. 2,312,608; Mar. 2.
Sheerness meter. J. Barney. 2,312,953; Mar. 2.
Shelf or rack suitable for refrigerators or the like. B. L. McArdle. 2,312,765; Mar. 2.
Shells, Making thin sheet metal. G. E. Bullock. 2,312,749; Mar. 2.
Shipping container for baby chicks and making same. G. H. Olvey. 2,312,846; Mar. 2.
Shock absorber. H. K. Kouyoumjian. 2,312,718; Mar. 2.
Shoe. M. B. Browne. 2,312,872; Mar. 2.
Shoe and like, Skating. C. Jewtraw. 2,312,911; Mar. 2.
Shoe and welting therefor, Welt. N. B. Cutler. 2,312,527; Mar. 2.
Shoe manufacture, Prewelt. K. Engel. 2,312,531; Mar. 2.
Short wave system, Ultra. P. S. Carter. 2,312,799; Mar. 2.
Shovel. G. Schmal. 2,312,736; Mar. 2.
Shutoff valve. G. B. Stillwagon, Jr. 2,312,601; Mar. 2.
Signal: *See*—
Switch signal.
Signal generator. J. L. Finch. 2,312,810; Mar. 2.
Signal translating apparatus. A. M. Skellett. 2,312,498; Mar. 2.
Signaling system. A. A. Lundstrom. 2,312,724; Mar. 2.
Signals, Transmitting. G. Guanella, W. Ernst, W. Lindecker and M. Gabriel. 2,312,897; Mar. 2.
Siphonless cock assembly. J. D. Langdon. 2,312,654; Mar. 2.
Slack adjuster for brakes, Automatic. B. H. Browall. 2,312,384; Mar. 2.
Slip cap for bottles. G. C. Wilson. 2,312,513; Mar. 2.
Slitting rolls, Method and apparatus for. L. Hornbostel. 2,312,550; Mar. 2.
Smokehouse apparatus. R. L. Jones. 2,312,339; Mar. 2.
Snap fastener. H. J. Reiter. 2,312,441-3; Mar. 2.
Snow and ice removing machine. J. J. Seibert. 2,312,851; Mar. 2.
Sodium and potassium hydride, Production of. F. Siegmann. 2,313,028; Mar. 2.
Soft-bond article. R. S. Daniels. 2,312,392; Mar. 2.
Soil waste and vent fitting, Combined. H. J. Luff. 2,312,658-9; Mar. 2.
Solvent refining of oil and recovery of the solvent. W. Klersted, Jr. 2,312,912; Mar. 2.
Sorting machine. H. T. Odquist and B. Shmurak. 2,312,357; Mar. 2.
Spark advance indicator. B. H. Short. 2,312,778; Mar. 2.
Spark plug. J. A. Jeffery. 2,312,909; Mar. 2.
Speed compensating means for phonograph turntable drives. B. W. Carrington. 2,312,798; Mar. 2.
Speed governor for internal combustion engines. H. E. Hiner. 2,312,549; Mar. 2.
Spout, Can opener. L. J. McCarthy. 2,312,351; Mar. 2.
Sprocket mechanism. H. Heidegger. 2,312,760; Mar. 2.
Stabilizer system for regulators. H. Ziebolz. 2,312,464; Mar. 2.
Stacking articles. J. R. Jason. 2,312,821; Mar. 2.
Stamping device. J. Nisenson. 2,312,727; Mar. 2.
Stand: *See*—
Adjustable stand. Display stand.
Starter for internal combustion engines. S. Granjon. 2,312,402; Mar. 2.
Steam boiler. J. E. Brantly. 2,312,622; Mar. 2.
Steam handling apparatus. J. N. Selvig. 2,312,448; Mar. 2.
Storage compartment, Airtight cold. E. L. Mohr and J. O. Harvey. 2,312,664; Mar. 2.
Strap, Adjustable garment. L. M. Rabinowitz. 2,312,775; Mar. 2.
Strip marking device. A. C. Chamberlin and H. W. Nieman. 2,312,626; Mar. 2.
Suction box covers and the like, Treating wood blocks for. J. H. Proulx. 2,312,978; Mar. 2.
Suction cleaner apparatus. C. H. Taylor. 2,312,781; Mar. 2.
Suction cleaner. P. T. Hahn. 2,312,641; Mar. 2.
Sulphamylarylamino triazines. G. F. D'Alelio. 2,312,698; Mar. 2.
Sulphurized addition agent for lubricants and lubricants containing the same. C. A. Cohen. 2,312,750; Mar. 2.
Supercharger for model motors. D. Messner. 2,312,661; Mar. 2.
Superheterodyne receivers, Image suppression. F. H. Scheer. 2,313,032; Mar. 2.
Support: *See*—
Arch support.
Retractable clothesline support.
Support for roll crushers, Crusher plate. G. E. Krider. 2,312,823; Mar. 2.
Supporting rods to end fittings of well screens, Welding the ends of. A. A. Jens. 2,312,415; Mar. 2.
Surfaces of metal bodies, Process and apparatus for conditioning the. A. M. Keller, J. H. Bucknam, and A. J. Miller. 2,312,418; Mar. 2.
Swatter, Fly. A. Sorkind. 2,312,780
Sweater. C. Warshaw. 2,312,609; Mar. 2.
Sweep circuit generator for cathode ray tubes. W. D. Hershberger. 2,312,761; Mar. 2.
Switch: *See*—
Power steer switch. Time switch.
Thermal light switch.
Switch. W. H. Frank and L. E. Fisher. 2,312,634; Mar. 2.
Switch and spare bulb carrier for electric hand lanterns, Combined. W. M. Moxley. 2,312,844; Mar. 2.
Switch control and indication system. G. Cini. 2,312,959; Mar. 2.
Switch signal. D. A. Kelly. 2,312,649; Mar. 2.
Switching apparatus, Automatic. C. E. Lomax. 2,312,427; Mar. 2.
Switching device. C. E. Pollard, Jr. 2,312,672; Mar. 2.
System for controlling the temperature in the interior of vehicles. J. Bethenod. 2,312,996; Mar. 2.
System of gauging pressures. H. Allen. 2,312,787; Mar. 2.
Tablet, Medicinal. F. J. Bickenheuser. 2,312,381; Mar. 2.
Tackle. R. D. Penlon. 2,312,583; Mar. 2.
Tamper, Sheep foot. J. J. Low. 2,312,471; Mar. 2.
Tank outlet unit. R. Soucek. 2,312,495; Mar. 2.
Telephone calling dial device. G. R. Lum. 2,312,566; Mar. 2.
Telephone cord connecter. E. S. McLarn. 2,312,970; Mar. 2.
Telephone system. K. L. Burgener. 2,312,385; Mar. 2.
Television system, Observer controlled. R. Bown. 2,312,954; Mar. 2.
Tensiometer. F. King. 2,312,419; Mar. 2.
Tension splint, Adjustable. M. S. Corbett. 2,312,523; Mar. 2.
Terpene derivative. J. N. Borglin. 2,312,684-5; Mar. 2.
Textile fabrics, Finishing. W. C. Magill. 2,312,348; Mar. 2.
Thermal light switch. R. A. Winborne and R. L. Coultrip. 2,312,948; Mar. 2.
Thermometer case. A. C. Bruns. 2,312,873; Mar. 2.
Thermostat, Clock. A. G. McNicoll. 2,312,842; Mar. 2.
Thermostatic and like unit. C. A. Otto. 2,312,671; Mar. 2.
Tiltable seat. A. Ruegger. 2,313,023; Mar. 2.
Timekeeper. G. V. G. Cusin. 2,312,391; Mar. 2.
Time switch. M. Schlenker. 2,312,492; Mar. 2.
Toilet paper roll holder. C. J. Leveque. 2,312,825; Mar. 2.
Tool: *See*—
Combination band pulling and punching tool. Well tool.
Whipstock deflecting tool.
Tool for assembling mechanical pencils. J. W. Para. 2,312,928; Mar. 2.
Toothbrush. E. G. Adamsson. 2,312,828; Mar. 2.
Toy balloon. S. Solecki. 2,312,369; Mar. 2.
Toy, Educational. H. B. Palmer. 2,312,773; Mar. 2.
Toy, Parachute. M. K. Culver and T. M. McGregor. 2,312,629; Mar. 2.
Traction device. H. L. Baldwin. 2,312,518; Mar. 2.
Traction increasing device. S. R. Riesen. 2,312,486; Mar. 2.
Trailer and coupling therefor. B. A. Mosling. 2,312,769; Mar. 2.
Trailer, Steering. C. C. Hunt. 2,312,646; Mar. 2.
Training apparatus for teaching radio navigation. L. De Florez and E. Bach. 2,312,962; Mar. 2.
Transformer. J. L. Bonanno and A. Ehret. 2,312,382; Mar. 2.
Transformer. C. P. Boucher. 2,312,868; Mar. 2.
Transformer apparatus. C. P. Boucher. 2,312,867; Mar. 2.
Transmission. W. L. Pollard. 2,312,849; Mar. 2.
Treadle lever drive, especially for bicycles. A. Huber. 2,312,645; Mar. 2.
Triazine derivatives. G. F. D'Alelio. 2,312,692; Mar. 2.
Triazine derivatives. G. F. D'Alelio. 2,312,694; Mar. 2.
Triazine derivatives. G. F. D'Alelio. 2,312,701; Mar. 2.
Triazinyl carboxy-alkyl sulphides and salts thereof. G. F. D'Alelio and J. W. Underwood. 2,312,699; Mar. 2.
Tripod construction. B. J. Foy. 2,312,893; Mar. 2.
Truck. G. H. Bauer. 2,312,377; Mar. 2.
Truck car. R. B. Cottrell. 2,312,881; Mar. 2.
Truck for carrying box-on-end-stacks, Hand. G. R. Woods. 2,312,461; Mar. 2.
Tube: *See*—
Cooled electron tube. X-ray tube.
Tubular core. H. S. Price. 2,312,587; Mar. 2.
Turbine governing arrangement, Wide range. R. J. Caughey. 2,312,958; Mar. 2.
Type. E. Thorell. 2,312,782; Mar. 2.
Typewriting and like machine. F. W. Schremp. 2,312,676; Mar. 2.
Typewriting machine. R. G. Thompson. 2,312,737; Mar. 2.
Utilization of foul steam for hydrogen sulphide removal. W. H. Shiffler and L. P. Elliott. 2,312,365; Mar. 2.
Vacuum cleaner. G. E. Lofgren. 2,312,426; Mar. 2.
Vacuum cleaner. O. Holm-Hansen. 2,312,905; Mar. 2.
Vacuum pan. J. Hamill. 2,312,407; Mar. 2.
Valve: *See*—
Emergency cut-over valve. Rotary valve.
Fluid pressure regulating valve. Shutoff valve.
Valve for grease dispensers. S. J. Goldwater. 2,312,832; Mar. 2.
Valve mechanism. H. Harvey. 2,312,815; Mar. 2.
Valve stem. L. S. Speth. 2,312,679; Mar. 2.

Vapor generator. G. C. Whitney, Jr. 2,312,375; Mar. 2.
Vase and flower lifter. J. P. Bull. 2,312,521; Mar. 2.
Vehicle brake. C. A. Sawtelle. 2,312,363; Mar. 2.
Vehicle with a scraper bowl, Automotive crawler. H. Cordes. 2,312,389; Mar. 2.
Vehicle with scraper bowls having bulldozer blades, Automotive crawler. H. Cordes. 2,312,390; Mar. 2.
Vibrating screen. M. Lintz. 2,312,343; Mar. 2.
Vibrating screen. H. C. Pollitz. 2,312,477; Mar. 2.
Voltage regulator. I. A. Mitchell. 2,312,768; Mar. 2.
Voltage regulator for the electrical systems of automotive vehicles. P. W. Nippert. 2,312,669; Mar. 2.
Volume control circuit. H. A. Broos. 2,312,748; Mar. 2.
Walker and rolling chair. J. O. Taylor. 2,312,602; Mar. 2.
Wall covering, Acoustical. K. S. Rankin. 2,312,776; Mar. 2.
Wall panel construction. J. J. Zengner. 2,312,949; Mar. 2.
Wall panel mounting means. D. R. Rizzolo. 2,312,673; Mar. 2.
Washer: *See*—
Pulp screen and washer.
Washing machine. A. A. Locke. 2,312,657; Mar. 2.
Waste retainer for journal boxes. J. S. Head. 2,312,713; Mar. 2.
Water heating system. C. M. Osterheld. 2,312,772; Mar. 2.
Wattage regulator. T. J. Lehane. 2,312,917; Mar. 2.
Weighing machine. A. Hahn. 2,312,406; Mar. 2.
Welding process. G. N. Strike. 2,312,451; Mar. 2.
Welding rod holder. W. Linquist. 2,312,763; Mar. 2.
Well control head. E. J. Roach and E. F. Cooke, Jr. 2,312,487; Mar. 2.
Well head. A. J. Penick and K. T. Penick. 2,312,476; Mar. 2.
Well mechanism. R. A. Steps. 2,312,600; Mar. 2.
Well tool. P. W. Appleby. 2,312,789; Mar. 2.
Wells, Method and apparatus for completing. J. A. Bermingham, Jr. 2,312,862; Mar. 2.
Wheel. F. K. Loomis. 2,312,345; Mar. 2.
Wheel. H. W. Sanford. 2,312,361; Mar. 2.
Wheel cover structure and assembly. G. A. Lyon. 2,312,568; Mar. 2.
Wheel for roller skates. J. T. Enley. 2,312,396; Mar. 2.
Whipstock deflecting tool. F. L. Le Bus. 2,312,656; Mar. 2.
Window regulator. E. C. Vollrath. 2,312,607; Mar. 2.
Window screen frame. A. Lang. 2,312,721; Mar. 2.
Wire belt, Flexible. O. C. Scherfel. 2,312,490; Mar. 2.
Wire feeding apparatus. C. A. Nichols and E. R. Fausset. 2,312,845; Mar. 2.
Wood planing machine. T. A. Peterson. 2,312,439; Mar. 2.
Work holding device. S. Koszeghy. 2,312,914; Mar. 2.
Wrapping roll for bending machines. W. E. Kane. 2,312,988; Mar. 2.
Wrench. F. LePiane. 2,312,425; Mar. 2.
Wrench. A. A. Westman. 2,312,947; Mar. 2.
Wringer. W. L. Kauffman, II. 2,312,762; Mar. 2.
X-ray-proof glove. M. Lubow. 2,312,921; Mar. 2.
X-ray tube. A. Bouwers. 2,313,009; Mar. 2.
Yarn, Sized synthetic linear polyamide. H. H. Freund. 2,312,469; Mar. 2.
Zeroizing mechanism. W. B. Lang. 2,312,342; Mar. 2.

CLASSIFICATION OF PATENTS

ISSUED MARCH 2, 1943

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

2— 70: 2,312,860
90: 2,312,609
111: 2,312,981
125: 2,312,777
198: 2,312,606
4— 182: 2,312,524
243: 2,312,589
256: 2,312,526
5— 347: 2,312,379
351: 2,312,411
8— 26: 2,312,398
62: 2,312,346
115.5: 2,312,998
123: 2,312,348
9— 6: 2,312,548
2,312,722
18: 2,312,976
10— 154: 2,312,354
12— 142: 2,312,531
15— 8: 2,312,781
16: 2,312,426
2,312,641
2,312,905
76: 2,312,319
167: 2,312,828
182: 2,312 591
18— 48: 2,312,997
55: 2,313,031
59: 2,312,579
19— 66: 2,312,557
168: 2,312,538
22— 73: 2,312,796
155: 2,313,004
23— 3: 2,313,022
50: 2,312,413
2,312,918
219: 2,312,932
24— 23: 2,312,575
66: 2,312,436
81: 2,312,890
161: 2,312,885
205: 2,312,494
206: 2,312,775
216: 2,312,442
2,312,443
218: 2,312,441
25— 128: 2,312,587
131: 2,312,983
29— 34: 2,312,520
70: 2,312,573
89: 2,312,914
90.5: 2,312,448
95.1: 2,312,929
148.2: 2,312,451
163.5: 2,312,415
2,312,458
2,312,459
181: 2,312,582
189: Re 22,282
30— 33: 2,312,933
40: 2,312,453
43: 2,312,497
72: 2,312,503
156: 2,312,770
171: 2,312,809
250: 2,312,766
278: 2,312,771
31— 8: 2,312,544
20: 2,312,456
42: 2,312,511
33— 3: 3,312,410
222: 2,313,005
34— 73: 2,312,910
131: 2,312,936
211: 2,312,986
35— 2: 2,313,012
9: 2,312,773
12: 2,312,370
35— 12: 2,312,962
19: 2,312,460
50: 2,312 532
36— 17: 2,312,527
24.5: 2,312,872
30: 2,312,841
71: 2,312,378
2,312,911
37— 12: 2,312,851
124: 2,312,389
2,312,390
126: 2,312,311
142: 2,312,802
40—124.5: 2,312,859
154: 2,312,644
42— 3: 2,313,030
43— 46: 2,312,585
137: 2,312,780
44— 56: 2,312,790
80: 2,312,360
45— 2: 2,312,907
77: 2,312,325
46— 86: 2,312,629
88: 2,312,769
47— 60: Pl.Pt.568
61: Pl.Pt 569
62: Pl.Pl 570
49— 3: 2,312,564
52: 2,312,635
66: 2,313,025
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314: 2,312,785
58— 2: 2,312,391
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17: 2,312,819
311— 36: 2,312,636
312— 168: 2,312,664

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

2,312,307:	265— 46	2,312,432	60—.97	2,312,632	128—157	2,312,720	268—118	2,312,861	62— 3	2,312,998	8—115.5
2,312,309	117—166	2,312,467	260—119	2,312,664	312—168	2,312,727	101—334	2,312,896	240— 1	2,313,006	68—181
2,312,325:	45— 77	2,312,470	64— 7	2,312,675	92— 30	2,312,729	98— 93	2,312,898	204— 56	2,313,009	250— 89
2,312,329	260— 36	2,312,498	250— 27	2,312,683	95— 18	2,312,752	52— 11	2,312,912	202— 46	2,313,015	219— 20
2,312,341:	285—97.1	2,312,500	123 - 26	2,312,688	260— 42	2,312,789	255 — 24	2,312,918	23— 50	2,313,018	250—162
2,312,345	152— 16	2,312,506	174—106	2,312,689	260 - 42	2,312,798	74—190.5	2,312,924	74—339		
2,312,362	117—139	2,312,508	89— 41	2,312,690	260— 42	2,312,813	132— 60	2,312,964	229— 69		
2,312,368	99—221	2,312,522	209—506	2,312,693	260— 42	2,312,829	210— 66	2,312,978	117—116		
2,312,377	105—197	2,312,572	252—256	2,312,707	252—289	2,312,831	117— 21	2,312,985	248—223		
2,312,417	103—162	2,312,614	240-11.3	2,312,708	252—8.9	2,312,843	136—166	2,312,996	237— 5		

U. S. GOVERNMENT PRINTING OFFICE: 1943

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

ISLAND ROAD BOTTLING COMPANY
v.
DRINK-MOR BEVERAGE COMPANY

No. 4,789. Decided November 5, 1942

[—F.(2d)—]

1. APPEAL—TRADE-MARK OPPOSITION—OPPOSER AS PARTY WHERE APPLICANT APPEALS FROM EX PARTE REJECTION.

Where the Commissioner of Patents dismissed the opposition of Drink-Mor Beverage Company to the application of Island Road Bottling Company for trade-mark registration, but adjudged, ex parte, that the applicant was not entitled to the registration for which it had made application; and the applicant took an appeal to the Court of Customs and Patent Appeals from said ex parte decision, but the opposer took no appeal from said dismissal of its notice of opposition *Held* that the opposer was not entitled to make a motion to correct diminution of the record, or to appear in any other respect as a party to applicant's appeal.

2. SAME—SAME—SAME.

"Upon the record before us the Drink-Mor Beverage Company is not a party to this appeal other than in form. The controversy presented to us is solely between appellant and the Commissioner of Patents representing the public, and it should be treated in all respects as an ex parte case with the Solicitor for the United States Patent Office appearing to represent the Commissioner of Patents."

ON MOTION to correct diminution of the record. Denied.

Mr. C. W. Rivise for Island Road Bottling Company.

Mr. Charles R. Allen for Drink-Mor Beverage Company.

Before GARRETT, Presiding Judge, and BLAND, HATFIELD, LENROOT, and JACKSON, Associate Judges

PER CURIAM:

The Drink-Mor Beverage Company, named as appellee in this proceeding, has filed a motion to correct diminution of the record, setting forth that a certain trade-mark registration No. 347,478 should be included in the record certified to this court by the Commissioner of Patents.

It appears that appellant is an applicant for a trade-mark registration of the notation "Mammy's" used upon non-alcoholic beverages and syrups, etc., used in making the same.

The Drink-Mor Beverage Company filed notice of opposition to such registration alleging that it is the owner of the mark "Ma's" used upon similar goods; that the marks of the parties are confusingly similar and that its use of the mark "Ma's" antedated the use by appellant of its mark.

Testimony was taken and upon final hearing the Examiner of Interferences held that the opposer's notice of opposition should be dismissed for failure to establish damage to itself by the use by appellant of its mark. The Examiner further held that appellant was entitled to the registration of its mark.

Upon appeal, the Commissioner of Patents affirmed the decision of the Examiner holding that opposer's notice of opposition should be dismissed, but reversed his decision holding that appellant was entitled to the registration applied for. In his decision the Commissioner stated "* * * it is adjudged ex parte, that applicant is not entitled to the registration for which it has made application."

Appellant has taken an appeal to this court from said ex parte decision. The Drink-Mor Beverage Company took no appeal from the holding that its notice of opposition should be dismissed.

[1] [2] Upon the record before us the Drink-Mor Beverage Company is not a party to this appeal other than in form. The controversy presented to us is solely between appellant and the Commissioner of Patents representing the public, and it should be treated in all respects as an ex parte case with the Solicitor for the United States Patent Office appearing to represent the Commissioner of Patents.

It follows from the foregoing that the Drink-Mor Beverage Company is not entitled to make the motion here before us, or appear in any other respect as a party to this appeal.

Therefore the motion for diminution of the record is denied.

Denied.

U. S. Court of Customs and Patent Appeals

IN RE RUZICKA

No. 4,661. Decided December 1, 1942

[— F.(2d) —]

1. PATENTABILITY—CRITICALNESS.

"Appellant's counsel rightly criticizes the use of the word 'highly' in the decision of the Board, wherein it stated 'On consideration of the terms of the claims we find nothing highly critical.' * * * If it should be presumed from the use of the word 'highly' that the Board found that the proportions set forth in the claims are not shown in the prior art and are crictical, but not highly so, we would feel compelled to reverse the decision, but the language following the sentence shows that the Board applied the usual and well-known rule of criticalness in patent law, meaning a difference in kind rather than in mere degree."

2. CLAIMS—INDEFINITENESS.

In regard to claims reciting the use of pulverized charcoal having a granulation "smaller than charcoal dust" *Held* that because of the quoted expression the claims might well have been rejected on the ground of indefiniteness.

3. PATENTABILITY—ARTIFICIAL CHARCOAL AND METHOD OF MAKING.

A claim to an artificial charcoal and other claims to a method of making an artificial charcoal *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

Mr. C. P. Goepel for Ruzicka.

Mr. W. W. Cochran for the Commissioner of Patents.

LENROOT, *J.*:

This is an appeal from a decision of the Board of Appeals of the United States Patent Office affirming a decision of the Primary Examiner rejecting claims 4, 10, and 11 of appellant's application for a patent entitled "Artificial Charcoal and Method of Making Same." Claim 4 is an article claim, and claims 10 and 11 are method claims. No claims were allowed.

Claim 4 reads as follows:

4. An artificial charcoal consisting of the end products of pulverized charcoal and a coking binder in which the pulverized charcoal has a granulation smaller than charcoal dust, in the proportions of the binder being about at least 20% by weight of the charcoal and not more than 30% and thoroughly mixed under heat without external pressure applied to the mix, under a coking action, at temperatures between 500° C. and 1200° C., said end products being fine, foamy, tenacious and resistant to dumping, the pores of which are within the order of magnitude of about 2 to 30 microns, while the resistance to pressure is not below 60 kg. per square centimeter, and the friability under test is less than 5%.

Claim 10 is illustrative of the method claims and reads as follows:

10. The method of making an artificial charcoal which consists in subjecting a finely pulverized wood charcoal of a granulation smaller than charcoal dust, to the action of an organic binder under thorough and homogeneous mixing action, to form a charge of said charcoal and binder ranging from pulverulent to a dough like paste in the proportions of 20% to 30% by weight of the initial charcoal, under the action of a steam heated mixing and kneading machine, and without previous pressure applied to said charge, subjecting the charge directly to the action of temperatures of between 500° C. and 1200° C., after tamping the same therein, in a coking operation.

All of the claims were rejected upon the following references: Kingsford (British), 1,671, July 15, 1859; Eckert, 1,213,763, January 23, 1917; Stafford, 1,609,097, November 30, 1926; Thomsen, 1,839,277, January 5, 1932.

Claim 4 was additionally rejected as vague and indefinite in the terms "dumping" and "friability under test."

Appellant's alleged invention is sufficiently described in the quoted claims. His application states that the product is "specially suitable for industrial, electrochemical and metallurgical uses."

The patent to Kingsford relates, among other things, to the preparation of peat and charcoal for fuel. After reciting a process for the preparation of peat for fuel the patent states:

• • • I manufacture in a somewhat similar way an artificial fuel from peat charcoal dust; the process is as follows:—Charcoal dust or ground charcoal is mixed with a certain quantity of pitch, resin, or other tarry matters, and then heated to a temperature not exceeding 300° Fahrenheit; in this state it is pressed into moulds of any convenient form, and afterwards carbonized in close retorts or otherwise; the pitch is ground to a fine powder and thoroughly mixed with the charcoal dust; it thus acts to re-combine the particles of charcoal, producing a very hard and superior coke suitable for industrial or metallurgical purposes.

One of the claims of the patent reads as follows:

2. An artificial fuel composed of ground peat charcoal, or peat charcoal dust mixed with pitch, resin, or other similar substances compressed and afterwards converted into coke by the process of re-charring.

The Eckert patent discloses a method of making coke, which consists of mixing ground pitch with coke "breeze" in the proportions of ten percent coke breeze to ninety percent pitch. The mixture is then heated to drive off the volatile matter and reduce the mixture to coke.

The patent to Stafford relates to the manufacture of charcoal briquettes. The example given in the patent states:

Thus for example, I may take 800 pounds of charcoal, of which 50% or so is in the form of powder, say not substantially coarser than ordinary sand, or all in powder form, if so desired, and add 150 to 350 or 400 pounds of wood tar or say half this amount of wood tar pitch. These are well mixed as above referred to, and from 15 to 35 or even 50 pounds of starch are then added, and well mixed. Then from 200 to 800 pounds of water, (say about 450 lbs.) are added, and well mixed while heating the mass, e. g., by introducing steam. The heating may be carried up to 85 to 100° C., more or less, whereby they develop strength significantly owing to the binding power of the starch. The mass is molded as above described, into briquettes. The briquettes can, if desired, be partly or wholly dried, in the open air, e. g., in a warm room or in the sun, or in any common drying shed. In order to make the tar or pitch effective as a binder, in the manner contemplated by this invention however, these preliminary starch bound briquettes are heated up to a temperature of 300° to 400° C., or above, whereupon the tar or pitch is carbonized to charcoal or coke itself thereby producing a binder effective at any higher temperature. Since the binder is essentially coked carbon, these briquettes are stable and strong at high temperatures.

The Thomsen patent relates to the carbonization of wood or woody substances yielding charcoal and volatile chemicals. It contains the following statement:

Powdered charcoal is an almost valueless commodity. Briquetting with starch paste, dextrin, tar, pitch etc. is an ancient remedy but introduces the difficulty that the product is no longer charcoal, but a mixture of charcoal and the binder.

I solve this difficulty by utilizing some cheap binding material, thus permitting a large quantity to be used and then subjecting the briquette to recarbonization whereby, the binder is itself converted into charcoal.

Appellant's brief sets forth the elements of the claims relied upon by him for patentability as follows:

There are three claims involved and each one is confined to a claim:

(a) in which the granulation of the particles of charcoal is smaller than charcoal dust;

(b) in which the mix is not subjected to "external pressure", such as is applied to briquettes, and in the method claims also, the requirement that the mix is subjected to "tamping" in the cohering operation;

(c) in which the proportioning of binder is 20 to 30% by weight of the charcoal (not 10% as stated in the statement);

(d) in which the temperature is 500° C. to 1200° C.

The Board of Appeals in its decision stated:

The claims have been rejected as not patentable over the state of the art. The prior art discloses treatment of charcoal by mixing it with a cokable binder and subjecting the mixture to temperatures sufficient to carbonize all ingredients. On consideration of the terms of the claims we find nothing highly critical. The proportion of binder is stated in rather wide scope and appears to be nothing more than a matter of choice in any case, determined by routine tests. Likewise the temperature is quite broad from 500° C. to 1200° C. and not critical. The degree of fineness of the pulverization of the charcoal is not critical and besides it is stated in very broad indefinite terms in the claims as to a granulation smaller than charcoal dust. The reference to being resistant to dumping and degree of friability is likewise not critical nor inventive. The Examiner has sufficiently applied the citations and we find no error therein and are in agreement with his conclusions as to lack of invention.

[1] Appellant's counsel rightly criticizes the use of the word "highly" in the decision of the Board, wherein it stated "On consideration of the terms of the claims we find nothing *highly* critical." [Italics ours.] If it should be presumed from the use of the word "highly" that the Board found that the proportions set forth in the claims are not shown in the prior art and are critical, but not highly so, we would feel compelled to reverse the decision, but the language following the sentence shows that the Board applied the usual and well-known rule of criticalness in patent law, meaning a difference in kind rather than in mere degree. It is therefore clear to us that the word "highly" was carelessly used by the Board, and no significance should be attached to its use.

[2] With respect to the element of the claims reciting the use of pulverized charcoal having a granulation "smaller than charcoal dust," the Examiner in his statement made the very pertinent inquiry: "How fine is dust?". The Board in its decision stated that the degree of fineness of the pulverization of the charcoal is not critical, and also stated that the term "granulation smaller than charcoal dust" is very broad and indefinite.

There is nothing in appellant's application defining the term charcoal dust with respect to its granulation, nor does the record anywhere define such term.

General dictionaries do not define charcoal dust in terms of granulation, nor have we been able to find such definition in any technical work upon the subject. All of the claims might well have been rejected upon this ground of indefiniteness.

However, assuming that charcoal dust could be defined in terms of granulation, we are in accord with the Patent Office tribunals that the difference between the use of charcoal dust and the use of pulverized charcoal having a granulation finer than that of charcoal dust is not critical, but produces a product merely different in degree and not different in kind. Indeed, appellant's application states:

To charcoal dust which is sorted by dressing and which is ground, *if required*, there is uniformly added in mixing machines a finely divided binder which cokes as far as possible without detrimental residue, such as retort pitch or bubble tar or a mixture of both. The additions may be introduced in any desired state. Generally, the supplement of a dust-fine grinding is to be recommended, because it can be effected with particularly simple implements and renders possible a very fine distribution. [Italics ours.]

Assuming as we have above without deciding that charcoal dust has a larger granulation than appellant's material, it is apparent that the claims would embrace pulverized or powdered charcoal having a granulation very close to that of charcoal dust, in which case it is clear that there would be no difference in kind between appellant's material and charcoal dust, but only a difference in degree.

We are in agreement with the Patent Office tribunals that this element does not assist patentability of the claims.

The next element of the claims relied upon by appellant is that which recites that the mix is not subjected to "external pressure."

While it is true that the references either directly or impliedly refer to external pressure, it is also true that applicant's application recites:

In this invention, neither briquetting nor pressure is used. I have found that by increasing the proportion of binder to pulverized fuel so that the binder is about 30% by weight of the pulverized fuel, the resulting product is less compact and more porous, but has otherwise the high pressure resisting characteristics. By preliminary stamping in the retort, 10 to 20% of the binder may be saved.

Appellant concedes that the word "stamping" is an error and that the word should be "tamping." Webster's New International Dictionary (Second Edition) defines the word "tamp" as follows:

To drive in or down by a succession of light or medium blows, as to tamp earth; to tamp tobacco in a pipe.

It seems to us that while appellant does not regard tamping the mix as external pressure applied thereto, it is in fact merely external pressure of a different sort than that referred to in the references, and therefore we hold that this element may not be relied upon, in combination with the other elements, for patentability of the claims.

The claims recite that the amount of binder used is between twenty percent and thirty percent by weight of the charcoal used.

It will be observed from the quotation from the patent to Stafford that the amount of binder may range from about ten percent to fifty percent of the amount of charcoal used, and this range embraces the twenty to thirty percent range claimed by appellant. Therefore there is nothing novel in this element of the claims.

Finally, the claims recite the use of temperatures betwen 500° C. and 1200° C. for the final coking of the product.

The patent to Stafford recites temperatures of 300° to 400° C. "or above," and while the other references do not specify the temperatures employed, they do refer to coking, and it must be assumed that sufficiently high temperatures are employed to accomplish that result. Appellant's brief states:

This mix has been subjected to 500° C. to 1200° C. This range is acknowledged in the textbooks to be a range known as high coking.

It thus appears that appellant admits there is nothing novel in the temperatures employed, and that he uses a well known coking range.

[3] We are in agreement with the Patent Office tribunals that the claims lack patentability over the cited prior art, and to the extent that appellant's product differs from the prior art it is not a difference in kind but a difference in degree not involving the exercise of the inventive faculty.

In view of our conclusion it is not necessary for us to discuss the additional ground of rejection of claim 4.

The decision appealed from is affirmed.

Affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,550,017, N. Eckles, Fan blade mechanism, D. C., S. D. Calif. (Los Angeles), Doc. 2442, *L. W. Whode* v. *Utility Fan Corp.* Dismissed with prejudice Jan. 12, 1943.

1,577,821, W. P. Campbell, Stabilizing device, filed Dec. 30, 1942, D. C., S. D. N. Y., Doc. 20/171, *Anti-Shimmie Mfg. Co.* v. *Kastar, Inc.*

1,589,845, J. C. Faeth, Electric floor lamp, D. C., S. D. N. Y., Doc. 14/186, *Standard Screw Co.* v. *Consolidated Edison Co. of New York, Inc., et al.* Stipulation of dismissal (notice Jan. 8, 1943).

1,618,809, Byron & Evans, Boot and shoe manufacture, C. C. A., 1st Cir., Doc. 3815, *Parco, Inc., et al.* v. *Pero & Daniels, Inc.* Judgment of district court affirmed (notice Jan. 13, 1943).

1,619,742, J. E. Mayhew, Garment hanger, filed Jan. 28, 1943, D. C., S. D. N. Y., Doc. 20/301, *The Mead Corp.* v. *Victory Bag & Hanger Corp.*

1,677,789, C. L. Mabey, Battery box clamp, C. C. A., 1st Cir., Doc. 3788, *C. L. Mabey et al.* v. *Howard & Lewis Motor Sales, Inc.* Decision of district court affirmed (notice Jan. 13, 1943).

1,677,950, N. K. Bowman, Bit, D. C., E. D. Mo. (St. Louis), Doc. 348, *The Bowdil Co.* v. *Central Mine Equipment Co.* Decree dismissing action for want of equity; dismissing defendant's counterclaim finding issues in favor of plaintiff under plaintiff's second cause of action Dec. 5, 1942.

1,786,998, E. V. Hawkins, Basket, D. C., S. D. Ind. (Indianapolis), Doc. 502, *Hawkins Handle Corp.* v. *G. W. Talbot et al.* Dismissed Jan. 6, 1943.

1,797,208, D. Weisz, Combination garment and carrier bag, filed Jan. 14, 1943, D. C., S. D. N. Y., Doc. 20/232, *D. Weisz* v. *Bantamac Weatherproof Sportswear Co.*

1,864,232, H. Cocks, Ship's hatch cover, filed Jan. 25, 1943, D. C. Conn. (New Haven), Doc. 948, *A. L. Smith Iron Co.* v. *Stewart Dickson.*

1,884,169, F. H. Owens, Photographic camera, D. C., S. D. N. Y., Doc. 13/42, *F. H. Owens* v. *Bell & Howell Co.* Judgment (notice Jan. 9, 1943).

1,885,527, A. Luft, Garment, D. C., S. D. N. Y., Doc. 18/164, *The Sporting Footwear Mfg. Corp.* v. *American Boy Clothes, Inc.* Judgment (notice Jan. 19, 1943).

1,895,704, F. F. Crosby, License holder, D. C., W. D. Pa., Doc. 1721, *Williamsport Die & Machine Co. et al.* v. *Ideal Shirt Co.* Dismissed without prejudice Jan. 22, 1943.

1,947,138. (See Re. 19,825.)

1,982,406, H. F. Tonnies, Exposure meter, C. C. A., 2d Cir., Doc. —, *Weston Electrical Instrument corp. et al.* v. *Dejur-Amsco Corp.* Judgment reversed; complaint dismissed (notice Feb. 2, 1943).

1,995,801, J. Field, Corset, appeal filed Jan. 30, 1943, C. C. A., 2d Cir., Doc. —, *The Warner Bros. Co.* v. *American Lady Corset Co.*

2,006,445, B. J. Davidson, Display box, filed Jan. 22, 1943, D. C. Md., Doc. 1865, *National Biscuit Co.* v. *Austin Packing Co., Inc.*

2,007,108, H. Bresnick, Medical preparation, D. C., S. D. N. Y., Doc. 9/481, *E. S. Bresnick et al.* v. *U. S. Vitamin Corp.* Judgment (notice Dec. 18, 1943).

2,108,894, Kopp & Morris, Slip construction, D. C., S. D. N. Y., Doc. 11/237, *Aronson-Caplin Co., Inc.*, v. *Forteena Corp.* Order (notice Jan. 20, 1943).

2,114,718, S. J. Levy, Two way intercommunicating loud speaker system for power circuits, D. C., S. D. N. Y., Doc. 2/422, *International Carrier Call & Television Corp.* v. *R. C. A. et al.* Judgment (notice Jan. 25, 1943).

2,116,570, D. Goldman, Yarn fabric package, filed Jan. 8, 1943, D. C., S. D. N. Y., Doc. 20/200, *Belsic Products* v. *E-Z Thread Co.*

2,131,881, H. J. Billings, Method of treating cereals and resulting product, D. C., W. D. N. Y., Doc. 1096, *Cream of Wheat Corp.* v. *Hecker Products Corp.* Bill and counterclaim dismissed Jan. 11, 1943.

2,136,793, W. H. Gaebler et al., Treatment of superphosphate, filed Jan. 19, 1943, D. C. Md., Doc. 1856, *The Davison Chemical Corp.* v. *Armour & Co. of Delaware et al.*

2,160,810, E. J. Abbott, Winding machine, appeal filed Nov. 10, 1942, C. C. A., 1st Cir., Doc. 3832, *Abbott Machine Co.* v. *Universal Winding Co.*

2,187,666, W. H. Schumann, Artificial fish bait, D. C., N. D. Ohio, E. Div., Doc. 20191S, *Whyte Fly Tackle Co.* v. *Fly Fish Kit Co.* Patent held valid as to claim 12, injunction Jan. 22, 1943.

2,195,803, A. F. Willat, Method of waving hair, D. C., N. D. Calif., S. Div., Doc. 22186-W, *Heatless Permanent Wave Co. et al.* v. *The Emporium Capwell Co.* Dismissed without prejudice Jan. 6, 1943.

2,238,314, W. Falk, Lock mechanism for doors, suit for declaratory judgment filed Jan. 22, 1943, D. C., S. D. Calif., C. Div., Doc. 2609-H, *Pacific Overhead Door Co.* v. *V. L. Holmes.*

2,241,229, C. A. Williams, Culinary untensil and method of making same, filed May 20, 1942, D. C., N. D. Ill. (Freeport), Doc. 82, *T. Friedman* v. *The Washburn Co. et al.*

2,245,910, A. L. Finkelstein, Brassière, D. C., S. D. N. Y., Doc. 19/552, *Snug-Fit Foundations Co. et al.* v. *Welfit Brassiere Corp. et al.* Order (notice Dec. 18, 1942).

2,255,823, A. Silverstein, Coat, D. C., S. D. N. Y., Doc. 16/129, *Philip Shlansky & Bro., Inc.*, v. *Siegel & Alexikoff.* Stipulation and order (notice Dec. 19, 1942).

2,280,467, M. Blanc, Glove, D. C., S. D. N. Y., Doc. 18/467, *Picardy Mills, Inc.*, v. *Steinberg Bros.* Consent order of discontinuance (notice Jan. 19, 1943).

2,287,690, Loverch & Rubin, Marking and cutting machine, filed Jan. 22, 1943, D. C., S. D. N. Y., Doc. 20/269, *Avico Implement Corp.* v. *O. I. Judelshon et al.*

2,305,890, J. H. Moore, Composite picture, filed Dec. 31, 1942, D. C., S. D. N. Y., Doc. 20/174, *J. H. Moore, Inc.*, v. *Artfield Creations, Inc., et al.*

Re. 18,755, F. J. Day, Air conditioning means, D. C., N. D. Calif. (Sacramento), Doc. 4444, *W. C. Phillips et al.* v. *F. T. Ramsey.* Decree for plaintiff, injunction (notice Jan. 19, 1943).

Re. 18,841, J. Mayer, Hair waving method, D. C., N. D. Ohio, E. Div., Doc. 20302, *The Philad Co.* v. *Arthur's Permanent Wave Shoppe.* Judgment Jan. 16, 1943. Doc. 20304, *The Philad Co.* v. *The Smart Set Beauty Salon, Inc.* Decree as above.

Re. 19,866, A. Epstein, Knitted cap, filed Dec. 18, 1942, D. C., S. D. N. Y., Doc. 20/134, *Epstein & Hammer, Inc.*, v. *May Knitting Co., Inc.*

Re. 21,595, M. Imershein, Undergarment, D. C., S. D. N. Y., Doc. 17/27, *Graceform-Camlin Corset Co., Inc.*, v. *Rivoli Corset Co., Inc.* Stipulation and order (notice Jan. 2, 1943).

Des. 122,729, J. Segall, Textile fabric, D. C., S. D. N. Y., Doc. 15/424, *Dixo Fabrics Co.* v. *Empire Textile Corp.* Stipulation of dismissal without prejudice (notice Dec. 18, 1942).

Des. 125,540, L. Friedman, Handbag, C. C. A., 2d Cir., Doc. —, *Gold Seal Importers, Inc.*, v. *Westerman Rosenberg, Inc.* Decree reversed (notice Jan. 25, 1943).

Des. 126,280, B. Recht, Dress ensemble, D. C., S. D. N. Y., Doc. 14/160, *Dorsa Dresses, Inc.*, v. *June Modes, Inc.* Stipulation of discontinuance (notice Jan. 11, 1943).

Des. 130,281, E. M. Horblit, Dress, D. C., S. D. N. Y., Doc. 17/199, *Boston Marilyn Dresses* v. *Form-Fit Dresses, Inc., et al.* Stipulation of discontinuance (notice Jan. 26, 1943).

Des. 134,339, H. Wiesen, Dress, filed Dec. 16, 1942, D. C., S. D. N. Y., Doc. 20/120, *Wiesen-Victor, Inc.*, v. *Jomax Frocks, Inc.*

Des. 134,356, V. S. Jacobs, Photo plaque, filed Dec. 18, 1942, D. C., S. D. N. Y., Doc. 20/140, *La France Flower & Novelty Co., Inc.*, v. *Majestic Products Co.*

TRADE-MARKS

OFFICIAL GAZETTE, MARCH 2, 1943

[VOL. 548. No. 1]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 448,914. ARMIN JOSEPH KRAUS, North Bergen, N. J. Filed Nov. 25, 1941.

CAURAS

FOR PLASTIC AND ELASTIC SUBSTANCE USEFUL AS A RUBBER SUBSTITUTE.

Claims use since Oct. 25, 1941.

CLASS 2

RECEPTACLES

Ser. No. 454,155. SYLVANIA INDUSTRIAL CORPORATION, Fredericksburg, Va., and New York, N. Y. Filed July 10, 1942.



No claim is made to the representation of a sausage nor to the words "Kroquettes" and "Choice Hamburger" apart from the mark shown.

FOR CELLULOSE SAUSAGE CASINGS.

Claims use since Dec. 1, 1941.

Ser. No. 454,156. SYLVANIA INDUSTRIAL CORPORATION, Fredericksburg, Va., and New York, N. Y. Filed July 10, 1942.



Applicant disclaims the words "Pure Pork Sausage" and the representation of a sausage, apart from the mark shown.

FOR CELLULOSE SAUSAGE CASINGS.

Claims use since Dec. 1, 1941.

Ser. No. 456,851. LUCIEN LELONG, INC., Chicago, Ill. Filed Nov. 16, 1942.

CABOCHON

FOR EMPTY COMPACT CASES FOR BOTH LOOSE AND CAKED POWDER, MADE IN WHOLE OR IN PART OF BASE METAL.

Claims use since Dec. 11, 1940.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 430,126. EFFERVESCENT PRODUCTS, INC., Elkhart, Ind. Filed Mar. 29, 1940.

Acetyl-Vess

Without waiver of any common law rights, applicant disclaims the word "Acetyl" per se.

FOR ALKALINE EFFERVESCENT TABLETS HAVING AN ANALGESIC-ANTIPYRETIC ACTION.

Claims use since Feb. 24, 1940.

Ser. No. 442,641. TURCO PRODUCTS, INC., Los Angeles, Calif. Filed Apr. 16, 1941.

ACRYL

FOR INHIBITOR FOR USE IN ACID SOLUTIONS IN METAL PICKLING AND HARD WATER SCALE REMOVAL OPERATIONS.

Claims use since Apr. 28, 1937.

Ser. No. 453,502. MYRTLE EVANS WIGGINS, doing business as The Lifol Company, Tulsa, Okla. Filed June 5, 1942.

Life Oyl



The word "Oyl" is disclaimed apart from the mark.
FOR PERMANENT HAIR WAVING SOLUTION
Claims use since June, 1930.

Ser. No. 453,717. COSMETICS INC., Nashville, Tenn. Filed June 17, 1942.

Marie Petersen

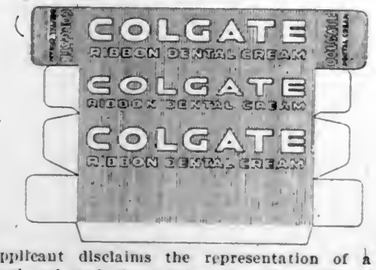
The expression "Marie Petersen" is a facsimile signature of a living person, Marie Petersen.
FOR MAKE-UP CREAM, COMPLEXION CREAM, COMPLEXION POWDER, COMPLEXION BASE, FACE POWDER, FACIAL MASQUE, DRY ROUGE, CREAM ROUGE, LIPSTICK, LIQUIFYING CLEANSER, EYE-LID CREAM, PORE PASTE, SKIN FRESHENER, LIQUID FACE POWDER, LIQUID BODY SKIN MAKE-UP, MASCARA, EYE SHADOW, COLOGNE AND DEODORANT.
Claims use since Sept. 1, 1941.

Ser. No. 456,328. THE VAD CORPORATION, New York, N. Y. Filed Oct. 21, 1942.

Vad

FOR LIPSTICKS AND CLEANSING CREAMS.
Claims use since Oct. 15, 1942.

Ser. No. 456,680. COLGATE-PALMOLIVE-PEET COMPANY, Jersey City, N. J. Filed Oct. 24, 1942.



Applicant disclaims the representation of a carton colored red and the words other than "Colgate" and "Ribbon." The drawing is lined for red. Applicant is the owner of T. M. Reg. No. 227,647, registered under the 10-year proviso for the term "Colgate."
FOR DENTAL CREAM.
Claims use since July 27, 1934.

Ser. No. 456,997. WENDELL WALKER, doing business as Kaynine Products, Chicago, Ill. Filed Nov. 23, 1942.

Spot-Not

FOR COMPOUND FOR APPLICATION TO CARPETS AND UPHOLSTERY TO PREVENT STAINS BY DOGS AND CATS.
Claims use since Mar. 15, 1939.

Ser. No. 457,066. THE NEVILLE COMPANY, Neville Island, Pittsburgh, Pa. Filed Nov. 26, 1942.

NEVTEX

FOR PLASTICIZED COUMARONE-INDENE POLYMER COMPOSITIONS ADAPTED FOR THE WEATHERPROOFING OF TEXTILE FABRICS.
Claims use since Aug. 17, 1942.

Ser. No. 457,379. THE CHICAGO PHARMACAL COMPANY, Chicago, Ill. Filed Dec. 14, 1942.

BAUMODYNE

FOR A RUBEFACIENT FOR USE IN RELIEVING THE DISCOMFORT OF SORE, ACHING MUSCLES, NEURALGIA, ARTHRITIC JOINTS, AND OTHER CONDITIONS WHERE A RUBEFACIENT IS REQUIRED.
Claims use since Nov. 4, 1942.

Ser. No. 457,545. GOODWILL INDUSTRY, DR. J. Q. A. MARTIN, INCORPORATED, New Bern, N. C. Filed Dec. 21, 1942.

MARTINA RUB

J. Q. A. Martin

The word "Rub" is disclaimed apart from the mark. The facsimile signature is that of J. Q. A. Martin, the president of applicant corporation.
FOR SALVE FOR TREATMENT OF SORE MUSCLES, ACHES AND PAINS DUE TO NEURALGIA AND EXPOSURE, AND FOR EXTERNAL APPLICATION IN THE TREATMENT OF COLDS.
Claims use since Aug. 16, 1939.

Ser. No. 457,657. RENCIR PARFUMS, LTD., New York, N. Y. Filed Dec. 30, 1942.

DARING

FOR PERFUMES AND TOILET WATER.
Claims use since Dec. 23, 1942.

Ser. No. 457,716. BLUE SUDS COMPANY, Detroit, Mich. Filed Jan. 2, 1943.

EVEN IRON

FOR STARCH TABLETS.
Claims use since Jan. 28, 1939.

Ser. No. 457,782. ROHM & HAAS COMPANY, Philadelphia, Pa. Filed Jan. 6, 1943.

ZIRCOTAN

FOR MINERAL TANNING MATERIAL.
Claims use since Dec. 29, 1942.

Ser. No. 457,799. WALLACE & TIERNAN PRODUCTS, INC., Belleville, N. J. Filed Jan. 7, 1943.

LUCIDERM

FOR GERMICIDAL COMPOSITIONS.
Claims use since Dec. 15, 1942.

Ser. No. 457,920. THE NATIONAL DRUG COMPANY, Philadelphia, Pa. Filed Jan. 14, 1943.

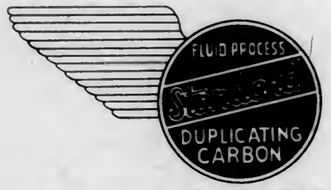
VATOX

FOR PRODUCT, WHICH COMPRISES THE COMBINATION OF A BACTERIAL VACCINE AND A TOXOID, WHICH, WHEN INJECTED INTO THE PATIENT, PRODUCES AND/OR STIMULATES ANTITOXIC AND ANTIBACTERIAL SUBSTANCES.
Claims use since Feb. 1, 1940.

CLASS 11

INKS AND INKING MATERIALS

Ser. No. 449,069. STANDARD MAILING MACHINES COMPANY, Everett, Mass., now by change of name Standard Duplicating Machines Corporation. Filed Nov. 29, 1941.



Applicant is the owner of Reg. No. 365,780. The words "Fluid Process Duplicating Carbon" and "Standard" are disclaimed apart from the mark.
FOR DUPLICATING CARBON PAPER.
Claims use since Nov. 1, 1939.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 449,669. THE CELOTEX CORPORATION, Chicago, Ill. Filed Dec. 22, 1941.

CELOTEX

FOR HEAVY BODIED AND LIGHT BODIED WATERPROOF ADHESIVES FOR CEMENTING OR ADHERING TOGETHER CONSTRUCTION MATERIALS—NAMELY, PLASTIC ADHESIVES COMPRISING A BASE OF RESINS, A PLASTICIZER, PIGMENTS, AND A SOLVENT, AND ALCOHOL BASE ADHESIVES COMPRISING A BASE, A PIGMENT, AND A SOLVENT; CEMENTS COMPRISING AN ASPHALT BASE FOR ADHERING CONSTRUCTION MATERIALS—NAMELY, "19/UP" CEMENT COMPRISING AN ASPHALT BASE, MINERAL AGGREGATE, AND A SOLVENT, AND/OR COMPRISING A CUT-BACK BASE, A MINERAL AGGREGATE, AND A SOLVENT; LAP CEMENT COMPRISING A FLUX BLOWN ASPHALT AND A SOLVENT AND/OR COMPRISING A CUT-BACK BASE AND AN ASPHALT SATURATION; PLASTIC CEMENT COMPRISING AN ASPHALT BASE, MINERAL AGGREGATE, AND A SOLVENT AND/OR COMPRISING A CUT-BACK BASE, MINERAL AGGREGATE, AND A SOLVENT; SUPER LAP CEMENT COMPRISING AN ASPHALT SATURATION, AN ASPHALT COATING, AND SOLVENTS AND/OR COMPRISING A CUT-BACK BASE AND AN ASPHALT SATURATION; TO COLD CEMENTING ADHESIVE COMPRISING AN ASPHALT EMULSION; TO COLD CEMENT COMPRISING AN ASPHALT BASE MINERAL AGGREGATE, AND A SOLVENT AND/OR A CUT-BACK AND A MINERAL AGGREGATE; AND "TRAFFIC TOP" COMPOUND COMPRISING AN ASPHALT BASE, ASBESTOS FIBRES AND OTHER MINERAL FIBRES AND A SOLVENT.
Claims use to heavy bodied and light bodied waterproof adhesives for cementing or adhering together construction materials—namely, plastic adhesives and alcohol base adhesives since December, 1934; to cements comprising an asphalt base since Feb. 14, 1938, and particularly to "19/up" cement since Sept. 8, 1938; to lap cement since Nov. 17, 1938; to plastic cement since Sept. 1, 1939; to super lap cement since Nov. 29, 1938; to cold cementing adhesive since Jan. 14, 1939; to cold cement since September, 1938; and to "Traffic Top" compound since Feb. 14, 1938.

Ser. No. 456,484. ALLIED CHEMICAL & DYE CORPORATION, New York, N. Y. Filed Oct. 28, 1942.

Barrett

Applicant is owner of registrations Nos. 87,311, and 87,312, and others.
FOR ROOFING CEMENT, BITUMINOUS BASE COATING COMPOSITIONS FOR ROOFS AND OTHER CONSTRUCTION PURPOSES, PITCH, ASPHALT, AND TAR FOR ROOFING, ROAD, AND OTHER CONSTRUCTION PURPOSES, FELT-BASE ROOFING, SHINGLES, PA

PERS AND FELTS USED FOR BUILDING, SHEATHING, INSULATING, AND OTHER CONSTRUCTION PURPOSES, SIDING, BACKING BOARD FOR SIDING AND SHINGLES, MINERAL WOOL INSULATION AND BITUMINOUS WATERPROOF COATINGS FOR PIPES.

Claims use to roofing cement and bituminous base coating compositions for roofs and other construction purposes since June, 1936; to pitch since October, 1937; to asphalt since February, 1939; to tar since May, 1941; to felt-base roofing, papers, and felts since August, 1936; to shingles since February, 1938; to siding since October, 1939; to backing board since September, 1940; to mineral wool since September, 1937; and to bituminous coatings for pipes since May, 1940.

Ser. No. 456,807. PROTEXOL CORPORATION, Kenilworth, N. J. Filed Nov. 13, 1942.

PYRESOTE
PROTEXOL CORPORATION
KENILWORTH
N.J.

The term "Kenilworth, N. J." is disclaimed apart from the mark.

FOR LUMBER IMPREGNATED TO PROTECT IT AGAINST FIRE, DECAY, AND INSECT ATTACK.

Claims use since 1930.

Ser. No. 457,342. PACIFIC HUTS, INC., Seattle, Wash. Filed Dec. 11, 1942.

PACIFIC HUT

The word "Hut" is disclaimed apart from the mark.

FOR PACKAGED WOODEN, PLASTIC, AND METALLIC STRUCTURAL ELEMENTS FOR ASSEMBLY INTO HOUSING UNITS, SAID ELEMENTS COMPRISING SILL MEMBERS, JOIST MEMBERS, FLOORING MEMBERS, DOORS AND THEIR CASINGS, BULKHEAD PANELS, WALL PANELS, AND EAVE SECTIONS.

Claims use since Aug. 15, 1942.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 457,361. DIAMOND MAGNESIUM COMPANY, Painesville, Ohio. Filed Dec. 12, 1942.

AIRALOY

FOR MAGNESIUM AND MAGNESIUM ALLOYS.

Claims use since Dec. 3, 1942.

Ser. No. 457,363. HOYLAND STEEL COMPANY, INCORPORATED, New York, N. Y. Filed Dec. 12, 1942.

MSM

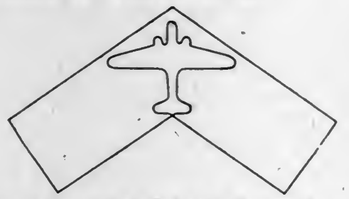
FOR TOOL STEEL IN THE FORM OF BARS, BILLETS, SHEETS, AND STRIPS.

Claims use since Nov. 25, 1942.

CLASS 15

OILS AND GREASES

Ser. No. 448,890. THE ATLANTIC REFINING COMPANY, Philadelphia, Pa. Filed Nov. 25, 1941.



Representation of the airplane is disclaimed apart from the mark.

FOR LUBRICATING OILS.

Claims use since Nov. 25, 1937.

Ser. No. 448,896. THE ATLANTIC REFINING COMPANY, Philadelphia, Pa. Filed Nov. 25, 1941.



The drawing is lined for blue and red. The representation of the airplane is disclaimed apart from the mark.

FOR LUBRICATING OILS.

Claims use since Nov. 25, 1937.

Ser. No. 453,327. FOOD MACHINERY CORPORATION, San Jose, Calif. Filed May 28, 1942.

FLAVORSEAL

FOR FRUIT COATING SOLUTIONS OF WAXY MATERIAL IN A VOLATILE SOLVENT.

Claims use since Nov. 20, 1940.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 450,145. PLASTIC PRODUCTS COMPANY, Detroit, Mich. Filed Jan. 10, 1942.

GLAZA-WOOD

FOR ELASTIC COMPOUND IN THE NATURE OF PUTTY OR GLAZING COMPOSITION FOR SETTING GLASS IN WOOD SASH.

Claims use since Dec. 23, 1941.

Ser. No. 453,346. LEE R. TIMMONS, doing business as Charles Paint Research Co., Kansas City, Mo. Filed May 28, 1942.

RUB-X

The word "Rub" is disclaimed apart from the mark.

FOR LIQUID CLEANING AND POLISHING COMPOUND FOR ENAMELED AND VARNISHED SURFACES AND FURNITURE, HAVING INCIDENTAL PROPERTIES AS A CLEANER FOR GLASS AND METAL SURFACES.

Claims use since Feb. 18, 1942.

Ser. No. 456,798. HALL HARDWARE COMPANY, Minneapolis, Minn. Filed Nov. 13, 1942.

Quic-tone

FOR FLAT WALL FINISH PAINT IN DRY, PASTE, AND READY MIXED FORM.

Claims use since Sept. 24, 1942.

CLASS 19

VEHICLES, NOT INCLUDING ENGINES

Ser. No. 456,417. FERNANDO CARRARA, New York, N. Y. Filed Oct. 26, 1942.

CARER·CAR

No claim is made to the word "Car" and to the representation of the goods apart from the mark.

FOR CASTER HAND TRUCKS FOR MOVING HEAVY LOADS.

Claims use since Feb. 20, 1942.

Ser. No. 457,119. GUARDIAN ELECTRIC MANUFACTURING CO., Chicago, Ill. Filed Nov. 30, 1942.

G

FOR CONTROL HANDLES FOR AIRCRAFT INCLUDING ELECTRICAL SWITCHES DIRECTLY CARRIED THEREBY, AND FOR CONTROL WHEELS FOR AIRCRAFT INCLUDING ELECTRICAL SWITCHES DIRECTLY CARRIED THEREON.

Claims use on control handles for aircraft, including electrical switches directly carried thereby, since Dec. 30, 1940: and on control wheels for aircraft, including electrical switches directly carried thereon, since June 30, 1942.

Ser. No. 457,185. CROASDALE & DEANGELIS, Haverford Township, Pa. Filed Dec. 3, 1942.

CRYSTALX

The word "Crystal" is disclaimed apart from the mark.

FOR WINDSHIELDS OF TRANSPARENT MATERIAL NOT INCLUDING GLASS.

Claims use since November, 1942.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 450,209. THE NEW ENGLAND BOX COMPANY, Greenfield, Mass. Filed Jan. 14, 1942.

STEERBOGGAN

FOR TOBOGGANS.

Claims use since Dec. 22, 1941.

Ser. No. 455,550. THE WRIGHT-DAYTON COMPANY, Dayton, Ohio. Filed Sept. 15, 1942.

FOR TOY MONOPLANES ADAPTED TO BE PROJECTED INTO FLIGHT BY MEANS OF A CATAPULT OR SLING.

Claims use since Feb. 12, 1941.

Ser. No. 457,708. HAYES N. PEDERSEN, Racine, Wis. Filed Jan. 1, 1943.

CRAFT CARDS

The word "Cards" is disclaimed apart from the mark.

FOR TOY CARDS, COMBINABLE IN VARIOUS RELATIONS TO PROVIDE DIFFERENT DESIGNS OR FIGURES.

Claims use since December 12, 1942.

Ser. No. 457,940. PARKER BROTHERS, INC., Portland, Maine, and Salem, Mass. Filed Jan. 15, 1943.

GREMLIN

FOR GAME PLAYED WITH MOVABLE PIECES.

Claims use since Jan. 12, 1943.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 457,222. INDUSTRIAL ENGINEERING CO. INC., Minneapolis, Minn. Filed Dec. 5, 1942.

Ind-L Way

FOR BURR TRIMMING MACHINES, CUSHIONED CUTTER PILOTS, DRILL GRINDING FIXTURE, HACK SAW BLADE GRINDING FIXTURES, SAW FILING MACHINES, UNIVERSAL TOOL AND CUTTER GRINDERS.
Claims use since Sept. 10, 1942.

Ser. No. 457,411. ATLAS IMPERIAL DIESEL ENGINE CO., Oakland, Calif. Filed Dec. 15, 1942.

ATLAS IMPERIAL

FOR DIESEL ENGINES AND PARTS THEREOF.
Claims use since July, 1917.

Ser. No. 457,729. HARRY J. SEAMAN, doing business as Seaman Motors, Milwaukee, Wis. Filed Jan. 2, 1943.

PULVI-MIXER

The term "Mixer" is disclaimed apart from the mark.
FOR ROTARY PLOWS.
Claims use since July, 1939.

Ser. No. 457,845. BENDIX AVIATION CORPORATION, South Bend, Ind. Filed Jan. 11, 1943.

GOV-U-RETOR

FOR CARBURETORS, GOVERNORS, AND ACCESSORIES THEREFOR.
Claims use since Nov. 1, 1939.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 450,129. OTTO J. VINCENT, doing business as Bemco Mfg. Co., Seattle, Wash. Filed Jan. 9, 1942.

BEMCO

FOR COMBINATION BEVERAGE COOLERS AND DISPENSERS, REACH-IN COOLERS AND REFRIGERATORS, WALK-IN REFRIGERATOR CABINETS, BACK REFRIGERATOR SECTIONS AND BOTTLE AND KEG COOLERS.
Claims use since July 15, 1935.

Ser. No. 457,827. MURRAY M. FIBUS, doing business as Steel City Manufacturing Co., Youngstown, Ohio. Filed Jan. 9, 1943.

LIQ-AIRE

FOR BEVERAGE COOLERS.
Claims use since June 15, 1942.

CLASS 33

GLASSWARE

Ser. No. 438,998. SHARP & DOHME, INCORPORATED, Philadelphia, Pa. Filed Dec, 18, 1940.

SPASAVER

FOR GLASS BOTTLES.
Claims use since Oct. 22, 1940.

Ser. No. 457,244. IMPERIAL GLASS CORPORATION, Bellaire, Ohio. Filed Dec. 7, 1942.

SIGNATURE CRYSTAL

The word "Crystal" is disclaimed apart from the mark.
FOR GLASSWARE FOR TABLE, CULINARY AND HOUSEHOLD PURPOSES.
Claims use since Nov. 14, 1942.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 450,227. THE B. F. GOODRICH COMPANY, New York, N. Y., and Akron, Ohio. Filed Jan. 15, 1942.

MILE KING

FOR PNEUMATIC VEHICLE TIRES.
Claims use since May, 1941.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 455,608. DELL PUBLISHING COMPANY, INC., New York, N. Y. Filed Sept. 18, 1942.

ANIMAL COMICS

The word "Comics" is disclaimed apart from the mark.
Applicant is owner of registration No. 257,314.
FOR MAGAZINES PUBLISHED BI-MONTHLY.
Claims use since Sept. 10, 1942.

Ser. No. 457,029. RALPH COOK, Cedar Lake, Ind. Filed Nov. 25, 1942.



FOR HUMOR OR FEATURE COLUMN PUBLISHED WEEKLY OR FROM TIME TO TIME. SCRIPTS FOR MONOLOGUES, DIALOGUES, DRAMATIC SKETCHES, AND RADIO BROADCASTS, SUCH SCRIPTS SOLD AS A PUBLICATION IN TRADE.
Claims use since Oct. 10, 1937.

CLASS 39

CLOTHING

Ser. No. 435,600. MISS AMERICA BRASSIERE COMPANY, Chicago, Ill. Filed Sept. 3, 1940.

Miss America

No claim is made to the word "America" apart from the mark.
FOR SWIM SUITS.
Claims use since Aug. 14, 1940.

Ser. No. 449,577. THE J. A. GUGGENHEIM CO., Cleveland, Ohio. Filed Dec. 18, 1941.

Alpine

FOR MEN'S AND BOYS' GYMNASIUM SHORTS, BASKETBALL SHORTS, TENNIS SHORTS, KNITTED CAPS AND LEATHER AND FABRIC GLOVES AND MITTENS.
Claims use since Nov. 1, 1939.

Ser. No. 450,231. I. B. KLEINERT RUBBER COMPANY, New York, N. Y. Filed Jan. 15, 1942.

Bedtimers

FOR SLIPPERS OF FABRICS SUCH AS ABSORBENT COTTON CHENILLE.
Claims use since Dec. 5, 1941.

Ser. No. 457,065. THE MANHATTAN SHIRT COMPANY, New York, N. Y. Filed Nov. 26, 1942.

MANBOWS

FOR NECKTIES.
Claims use since Nov. 6, 1942.

Ser. No. 457,191. THE SELBY SHOE COMPANY, Portsmouth, Ohio. Filed Dec. 3, 1942.

Easy Goers

No claim is made to the word "Easy" apart from the mark.
FOR SHOES MADE FROM LEATHER, FABRIC, RUBBER, OR COMBINATIONS OF THESE MATERIALS.
Claims use since Dec. 15, 1941.

Ser. No. 457,267. J. R. BEATON CO., INC., New York, N. Y., assignor to Berkshire Knitting Mills, Wyomissing, Pa. Filed Dec. 8, 1942.

"AS YOU LIKE IT"

FOR UNDERWEAR, FOR GIRLS AND WOMEN.
Claims use since October, 1937.

Ser. No. 457,487. WILSON BROTHERS, Chicago, Ill. Filed Dec. 17, 1942.

SKY WARDEN

Applicant is the owner of registration No. 363,497, dated Dec. 27, 1938.
FOR MEN'S AND BOYS' SPORT JACKETS.
Claims use since Oct. 23, 1942.

Ser. No. 457,644. SIEGEL BROTHERS KIKI MAID COATS, INC., New York, N. Y. Filed Dec. 29, 1942.

LUSTRABLOOM

FOR WOMEN'S AND MISSES' COATS, SUITS, JACKETS, SKIRTS, AND COAT AND SUIT ENSEMBLES.
Claims use since May 15, 1936.

Ser. No. 457,649. JOSEPH L. BERLÉ, New York, N. Y. Filed Dec. 30, 1942.

DELINEATOR

FOR BRASSIÈRE.
Claims use since Sept. 12, 1942.

Ser. No. 457,714. BLUE BUCKLE OVERALL CO. INC., Lynchburg, Va. Filed Jan. 2, 1943.

HOME FRONT

FOR OVERALLS AND OVERALL JACKETS, BAND OVERALLS AND DUNGAREES, WORK PANTS AND SHIRTS, AND ONE PIECE WORK SUITS FOR MEN AND BOYS.
Claims Aug. 1, 1942.

Ser. No. 457,769. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed Jan. 6, 1943.

CELROSE

FOR MEN'S AND BOYS' UNDERWEAR AND SWIMMING TRUNKS.
Claims use since Jan. 2, 1943.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 451,368. SILK SCREEN SUPPLIES, INC., Brooklyn, N. Y. Filed Mar. 3, 1942.

Stenyon

FOR STENCIL CLOTH.
Claims use since Feb. 18, 1942.

Ser. No. 454,956. TRIO CURTAIN CORPORATION, New York, N. Y. Filed Aug. 17, 1942.

DRAP-O-MATIC

FOR WINDOW CURTAINS.
Claims use since June 19, 1942.

Ser. No. 457,339. LESEM BACH & CO. INCORPORATED, New York, N. Y. Filed Dec. 11, 1942.

KOHINOOR

FOR PIECE GOODS OF COTTON, RAYON, SILK, WOOL MATERIALS AND ANY COMBINATION OF SAME, IN THE GRAY, FINISHED, PROCESSED AND DYED.
Claims use since Aug. 14, 1939.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 455,362. EUGENE B. BAEHR & SONS, New York, N. Y. Filed Sept. 5, 1942.

CATHEX

FOR CATHETERS.
Claims use since Aug. 31, 1942.

Ser. No. 456,946. MARSALES CO. INC., New York, N. Y. Filed Nov. 20, 1942.



The drawing is lined to denote the colors "blue" and "red" which colors constitute an essential and material feature.
FOR GAUZE BANDAGES AND ABSORBENT COTTON FOR SURGICAL AND HOSPITAL USE.
Claims use since July 15, 1942.

Ser. No. 457,621. AMERICAN DENTAL COMPANY, Cleveland, Ohio. Filed Dec. 28, 1942.

Acrytex

FOR DENTAL MATERIALS FOR REPAIRING TEETH—NAMELY, RESINOUS PLASTIC MATERIALS USED IN CONNECTION WITH, AND FOR, CROWNS, INLAYS AND FACINGS, BRIDGES AND DENTURES.
Claims use since Jan. 1, 1939.

Ser. No. 457,740. CORALITE DENTAL PRODUCTS COMPANY, Chicago, Ill. Filed Jan. 4, 1943.

Duplacryl

FOR DENTAL IMPRESSION AND RELINE MATERIAL OF METHACRYLATE COMPOSITION.
Claims use since Nov. 3, 1941.

CLASS 46

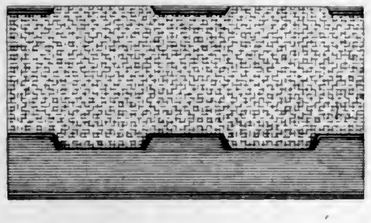
FOODS AND INGREDIENTS OF FOODS

Ser. No. 449,505. THE SUN-RAYED CO., Frankfort, Ind. Filed Dec. 15, 1941.

B-won

The letter "B" is disclaimed apart from the mark.
FOR BEVERAGE TYPE JUICE INCLUDING TOMATO WITH CELERY.
Claims use since Nov. 28, 1941.

Ser. No. 452,474. GRISTEDE BROS. INC., New York, N. Y. Filed Apr. 21, 1942.



The drawing is lined for cream and blue and these colors are claimed. Applicant is the owner of registration No. 330,564, issued to Gristede Bros. Inc. on Dec. 3, 1935. Applicant disclaims representation of a label per se.
FOR CANNED FISH, CANNED FRUITS, CANNED FRUIT JUICES FOR FOOD PURPOSES, CANNED FRUIT SALADS, CANNED SOUPS, CANNED VEGETABLE JUICES, AND CANNED SPICES.
Claims use since June 29, 1940.

Ser. No. 453,751. CHAS. FREEDMAN, El Centro, Calif. Filed June 19, 1942.



FOR FRESH VEGETABLES.
Claims use since Jan. 21, 1942.

Ser. No. 456,315. THE LOGIN CORPORATION, San Francisco, Calif. Filed Oct. 21, 1942.

Rhapsody

FOR FOOD PRODUCTS—NAMELY, DEHYDRATED SOUP MIX, CANNED FRUITS, CANNED VEGETABLES, CANNED FISH, FRESH CITRUS FRUITS, FRESH FRUITS—NAMELY, FRESH GRAPES.
Claims use since 1940.

Ser. No. 456,570. SAFEWAY STORES, INC., OF NEVADA, also doing business as Table Products Company, Reno, Nev., and Oakland, Calif. Filed Oct. 31, 1942.



FOR CHILI SAUCE.
Claims use since Dec. 24, 1941.

Ser. No. 457,300. O. R. RECKER, doing business as O. R. Recker Packing Co., Phoenix, Ariz. Filed Dec. 9, 1942.

OSCAR

FOR FRESH VEGETABLES—NAMELY, LETTUCE.
Claims use since Nov. 28, 1942.

Ser. No. 457,413. COMSTOCK CANNING CORPORATION, Newark, N. Y. Filed Dec. 15, 1942.

COMSTOCK'S

GOLD RING

No claim is made to the word "Comstock's" apart from the mark.
FOR CANNED FRUITS AND VEGETABLES.
Claims use since October, 1937.

Ser. No. 457,546. JOSEPH P. KUERTZ, doing business as Kuertz Food Products Co., Cincinnati, Ohio, assignor to Frank Poynter, Cincinnati, Ohio. Filed Dec. 21, 1942.

Moonbeam

Applicant is the owner of trade-mark registrations Nos. 180,072 and 267,666.
FOR MAYONNAISE, OIL SALAD DRESSINGS, SANDWICH SPREADS, AND TARTAR SAUCE.
Claims use since Nov. 1, 1919.

Ser. No. 457,831. VICTOR JOSEPH CO., New York, N. Y. Filed Jan. 9, 1943.

VITA-JOY

FOR APPLES.
Claims use since Nov. 11, 1942.

Ser. No. 457,892. EDWARD S. CARMACK, doing business as Zip Manufacturing Company, Little Rock, Ark. Filed Jan. 13, 1943.

ZIMCO

FOR IMITATION FLAVORING EXTRACTS FOR FOOD PURPOSES.
Claims use since Nov. 24, 1941.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 443,436. SOCIEDAD ANONIMA VINEDOS Y BODEGAS ARIZU, Buenos Aires, Argentina. Filed May 9, 1941.



No claim is made to the words "Marca Registrada" apart from the mark.
FOR BRANDY, ANISETTE, DISTILLED ALCOHOLIC LIQUEURS, CORDIALS AND ALCOHOLIC APERATIVES, ALCOHOLIC BITTERS.
Claims use since May 15, 1897.

Ser. No. 457,184. CONRAD, INCORPORATED, St. Louis, Mo. Filed Dec. 3, 1942.

GYPSY TEARS

FOR LIQUEURS.
Claims use since Nov. 25, 1942.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 456,256. THE AMERICAN ART WORKS, INC., Coshocton, Ohio. Filed Oct. 17, 1942.

Artex

FOR ADVERTISING SIGNS MADE OF CARDBOARD PRINTED, PAINTED, STAMPED, OR OTHERWISE MARKED.
Claims use since Aug. 18, 1942.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

MARCH 2, 1943

400,293. RADIO RECEIVING SETS AND RADIO TUBES, AND FOR STORAGE BATTERIES AND DRY CELL BATTERIES. SPIEGEL, INC., Chicago, Ill.
Filed May 20, 1939. Serial No. 419,638. PUBLISHED JULY 25, 1939. Class 21.

400,294. STAPLING MACHINES, TACKERS, AND PLIERS FOR FASTENING TOGETHER SUCH MATERIALS AS PAPER, CARDBOARD AND/OR CLOTH OR THE LIKE. SPEED PRODUCTS COMPANY, Long Island City, N. Y.
Filed April 6, 1940. Serial No. 430,466. PUBLISHED JUNE 25, 1940. Class 23.

400,295. WINES. LOMBARDY WINE CORP. OF NEW YORK, New York, N. Y.
Filed July 2, 1940. Serial No. 433,689. PUBLISHED MARCH 31, 1942. Class 47.

400,296. RICE. STANDARD RICE COMPANY, INC., Houston, Tex.
Filed August 30, 1940. Serial No. 435,564. PUBLISHED DECEMBER 24, 1940. Class 46.

400,297. PETROLEUM PRODUCTS—NAMELY, GASOLINE AND LUBRICATING OILS. CAPITOL TIRE & RUBBER CO., INC., Boston, Mass.
Filed March 27, 1941. Serial No. 442,000. PUBLISHED DECEMBER 8, 1942. Class 15.

400,298. WINES. K. ARAKELIAN, INC., New York, N. Y.
Filed August 23, 1941. Serial No. 446,481. PUBLISHED DECEMBER 15, 1942. Class 47.

400,299. BLANK FORMS — NAMELY, CARDS, CHECKS, LOOSE LEAVES, TIME SLIPS, SALES SLIPS, INDEXES, AND ACCOUNTING AND TABULATING FORMS. THE McBEE COMPANY, Athens, Ohio.
Filed October 3, 1941. Serial No. 447,523. PUBLISHED DECEMBER 22, 1942. Class 37.

400,300. RUBBER BELTING AND RUBBER CHUTE LINING. POTTS-CURRY INVESTMENT CO., Salt Lake City, Utah.
Filed October 13, 1941. Serial No. 447,764. PUBLISHED DECEMBER 22, 1942. Class 35.

400,301. RUBBER BELTING AND RUBBER CHUTE LINING. POTTS-CURRY INVESTMENT CO., Salt Lake City, Utah.
Filed October 13, 1941. Serial No. 447,765. PUBLISHED DECEMBER 22, 1942. Class 35.

400,302. RUBBER BELTING AND RUBBER CHUTE LINING. POTTS-CURRY INVESTMENT CO., Salt Lake City, Utah.
Filed October 13, 1941. Serial No. 447,766. PUBLISHED DECEMBER 22, 1942. Class 35.

400,303. SOOTHING CREAM FOR SKIN IRRITATIONS. HARLAN U. BIGALOW, doing business as Hub Products Co., Cleveland, Ohio.
Filed October 14, 1941. Serial No. 447,780. PUBLISHED DECEMBER 15, 1942. Class 6.

400,304. INDEX TABS OF THE CHARACTER USED ON FILE GUIDES, FOLDERS, AND LOOSELEAF BINDERS. YAWMAN AND ERBE MANUFACTURING COMPANY, Rochester, N. Y.
Filed November 3, 1941. Serial No. 448,377. PUBLISHED JANUARY 20, 1942. Class 37.

400,305. VARIABLE GEARS FOR CYCLES AND CARS. CYCLO GEAR COMPANY LIMITED, Birmingham, England.
Filed November 7, 1941. Serial No. 448,448. PUBLISHED DECEMBER 15, 1942. Class 23.

400,306. CALCIUM SULFATE FOR USE AS A PIGMENT EXTENDER. GENERAL CHEMICAL COMPANY, New York, N. Y.
Filed November 21, 1941. Serial No. 448,785. PUBLISHED JANUARY 13, 1942. Class 6.

400,307. WINE CORDIALS. DANIEL B. LICHTERMAN, doing business as Swift Importing Co., Chicago, Ill.
Filed December 8, 1941. Serial No. 449,284. PUBLISHED DECEMBER 22, 1942. Class 47.

400,308. MINIATURE FLYING PLANE BUILDING KITS. JOE OTT MANUFACTURING CO., Chicago, Ill.
Filed January 19, 1942. Serial No. 450,314. PUBLISHED DECEMBER 22, 1942. Class 22.

400,309. YARNS OF CELLULOSE. COURTAULDS, LIMITED, London, England.
Filed February 4, 1942. Serial No. 450,714. PUBLISHED APRIL 21, 1942. Class 43.

400,310. CARDIGANS, PULLOVERS, JUMPERS AND CHILDREN'S SUITS, KILTS, AND KILT JACKETS. ERNEST ALEXANDER DUNBAR, doing business as Dunbar & Nairn, Glasgow, Scotland.
Filed February 10, 1942. Serial No. 450,875. PUBLISHED DECEMBER 15, 1942. Class 39.

400,311. MOTION PICTURE FILMS, SOUND FILMS, COMBINED SOUND AND MOTION PICTURE FILMS, FILM MAGAZINES, AND MOTION PICTURE FILMS FOR USE IN CONNECTION WITH SYNCHRONIZED APPARATUS FOR SIMULTANEOUSLY REPRODUCING COORDINATED LIGHT AND SOUND EFFECT. TIME, INCORPORATED, New York, N. Y.
Filed March 17, 1942. Serial No. 451,695. PUBLISHED DECEMBER 22, 1942. Class 26.

400,312. MECHANICAL AND HYDRAULIC JACKS. SNAP-ON TOOLS CORPORATION, Kenosha, Wis.
Filed April 6, 1942. Serial No. 452,174. PUBLISHED DECEMBER 15, 1942. Class 23.

400,313. PERIODICAL. MONROE REISMAN, doing business as Happiness Magazine, New York, N. Y.
Filed April 30, 1942. Serial No. 452,697. PUBLISHED DECEMBER 15, 1942. Class 38.

400,314. FLAXSEED NUTRITIONAL FOOD PREPARATION IN GRANULATED FORM. PARKE D. BROLLIER, doing business as Parke-Lee Products Co., Lorain, Ohio.
Filed May 1, 1942. Serial No. 452,707. PUBLISHED DECEMBER 22, 1942. Class 46.

400,315. PAINT OILS, AND SPECIFICALLY RAW AND BOILED LINSEED OIL. SPENCER KELLOGG AND SONS, INC., Buffalo, N. Y.
Filed May 12, 1942. Serial No. 452,963. PUBLISHED DECEMBER 22, 1942. Class 16.

400,316. NEWSPAPER CHARLES MARUT, doing business as Przewodnik Katolicki (The Catholic Leader), New Britain, Conn.
Filed May 20, 1942. Serial No. 453,141. PUBLISHED DECEMBER 15, 1942. Class 38.

400,317. PNEUMATIC HORNS, AND AIR RAID ALARM EQUIPMENTS OF THE CLASS INCLUDING A PLURALITY OF SPACED SOUND PRODUCING UNITS OR HORNS OPERABLE THROUGH THE MEDIUM OF AN ELECTRICAL OR FLUID PRESSURE CONTROL SYSTEM. THE WESTINGHOUSE AIR BRAKE COMPANY, Wilmerding, Pa.
Filed May 22, 1942. Serial No. 453,189. PUBLISHED DECEMBER 15, 1942. Class 23.

400,318. KNITTED WOOLEN JERSEY FABRICS IN THE PIECE. A. DAVIS & SONS, INC., New York, N. Y.
Filed June 3, 1942. Serial No. 453,433. PUBLISHED DECEMBER 15, 1942. Class 42.

400,319. MOTOR DRIVEN RAZORS MECHANICALLY VIBRATING A RAZOR BLADE MOUNTED THEREIN BY A SPRING MOTOR, AND RAZOR BLADES THEREFOR. BIRDSELL LABORATORIES, INC., South Bend, Ind.
Filed June 8, 1942. Serial No. 453,531. PUBLISHED DECEMBER 15, 1942. Class 23.

400,320. METAL PLATING PREPARATION DESIGNED TO IMPART A SIMULATED OR IMITATION GOLD PLATE FINISH. SPECIAL CHEMICALS CORPORATION, New York, N. Y., assignor to Lionel Cinamon and Bessie P. Cinamon, doing business as Special Chemicals Company, New York, N. Y.
Filed June 24, 1942. Serial No. 453,858. PUBLISHED DECEMBER 15, 1942. Class 6.

400,321. KNITTING YARN. WOOL NOVELTY CO. INC., New York, N. Y.
Filed June 26, 1942. Serial No. 453,904. PUBLISHED SEPTEMBER 8, 1942. Class 43.

400,322. WINE. SAN MARINO WINE CORPORATION, New York, N. Y.
Filed June 27, 1942. Serial No. 453,928. PUBLISHED DECEMBER 22, 1942. Class 47.

400,323. TRADE MAGAZINE PUBLISHED AT IRREGULAR INTERVALS. W. NEWBOLD ELY, Ambler, Pa.
Filed July 3, 1942. Serial No. 454,033. PUBLISHED DECEMBER 22, 1942. Class 38.

400,324. THERMOPLASTIC ADHESIVE FILMS AND FABRICS. BEMIS ASSOCIATES INC., Watertown, Mass.
Filed July 28, 1942. Serial No. 454,552. PUBLISHED DECEMBER 22, 1942. Class 5.

400,325. LIQUID FIRE EXTINGUISHING AGENT. SCIENTIFIC PRODUCTS CORPORATION, Los Angeles, Calif.
Filed August 25, 1942. Serial No. 455,109. PUBLISHED DECEMBER 15, 1942. Class 6.

400,326. GATE VALVES, SUCKER ROD HANGERS, ROTARY SLIPS, SCRUBBERS, SEPARATORS (OIL, GAS, AND STEAM), ROUND KELLY DRIVES, AND MUD SCREENS. W-K-M COMPANY, INC., Houston, Tex.
Filed September 5, 1942. Serial No. 455,385. PUBLISHED DECEMBER 22, 1942. Class 23.

400,327. TABLE BOARD GAME. HASKELITE MANUFACTURING CORPORATION, Chicago, Ill.
Filed September 8, 1942. Serial No. 455,416. PUBLISHED DECEMBER 22, 1942. Class 22.

400,328. WINES. PASTENE WINE & SPIRITS CO., INC., Boston, Mass.
Filed September 10, 1942. Serial No. 455,459. PUBLISHED DECEMBER 22, 1942. Class 47.

400,329. LIQUID PROTECTIVE COATING USED TO COAT THE TOP LAYERS OF SURGICAL BANDAGES, ETC. AMERICAN BANDAGE CORP., Chicago, Ill.
Filed September 12, 1942. Serial No. 455,495. PUBLISHED DECEMBER 15, 1942. Class 6.

400,330. COMBINATION MAGAZINE AND CATALOGUE. THE BAR MART INC., New York, N. Y.
Filed September 12, 1942. Serial No. 455,497. PUBLISHED DECEMBER 22, 1942. Class 38.

400,331. PREPARATION OR PRODUCT IN TABLET OR POWDERED FORM FOR HUMAN CONSUMPTION, FOR THE PURPOSE OF MAKING UP ANY VITAMIN DEFICIENCY IN THE DIET. FREDERICK HERRSCHNER, doing business as Victory Vitamin Co., Chicago, Ill.
Filed September 16, 1942. Serial No. 455,563. PUBLISHED DECEMBER 15, 1942. Class 6.

400,332. WOMEN'S AND GIRLS' DRESSES MADE OF SILK, COTTON, WOOL, LINEN, WORSTED, RAYON, AND "CELANESE." HORWITZ & DUBERMAN, New York, N. Y.
Filed September 16, 1942. Serial No. 455,564. PUBLISHED DECEMBER 15, 1942. Class 39.

400,333. JEWELRY—NAMELY, EXPANSION BRACELETS. MARVEL JEWELRY MFG. COMPANY, Providence, R. I., assignor to Arthur Albanese, Providence, R. I.
Filed September 19, 1942. Serial No. 455,629. PUBLISHED DECEMBER 22, 1942. Class 28.

400,334. ACOUSTICAL MEASURING INSTRUMENTS, INSTRUMENTS FOR MEASURING AND TESTING INDIVIDUAL HEARING CHARACTERISTCS, AND PARTS, SUPPLIES, AND ACCESSORIES FOR SUCH INSTRUMENTS, AND INDICATING DEVICES FOR INDICATING HEARING CHARACTERISTICS, AND PARTS THEREOF. VACOLITE COMPANY, Dallas, Tex.
Filed September 19, 1942. Serial No. 455,637. PUBLISHED DECEMBER 22, 1942. Class 26.

400,335. MARSHMALLOW PREPARATIONS USED AS INNER LAYERS OR FILLING FOR CANDY, AS ICINGS AND TOPPINGS FOR CAKES, IN FRUIT SALADS, PASTRIES, AND DESSERTS, AND USED AS TOPPINGS FOR ICE CREAM SUNDAES AND TOPPINGS FOR USE BY SODA FOUNTAINS. WHITE STOKES COMPANY, INC., Chicago, Ill.
Filed September 23, 1942. Serial No. 455,715. PUBLISHED DECEMBER 22, 1942. Class 46.

400,336. ACOUSTICAL MEASURING INSTRUMENTS, INSTRUMENTS FOR MEASURING AND TESTING INDIVIDUAL HEARING CHARACTERISTICS, AND PARTS, SUPPLIES, AND ACCESSORIES FOR SUCH INSTRUMENTS, AND INDICATING DEVICES FOR INDICATING HEARING CHARACTERISTICS, AND PARTS THEREOF. VACOLITE COMPANY, Dallas, Tex.
Filed September 24, 1942. Serial No. 455,740. PUBLISHED DECEMBER 22, 1942. Class 26.

400,337. INSECT KILLER, INSECTICIDES, AND COMPOSITIONS FOR EXTERMINATING INSECTS. H. W. BALDWIN, doing business as Baldwin Laboratories, Saegertown, Pa.
Filed September 25, 1942. Serial No. 455,744. PUBLISHED DECEMBER 15, 1942. Class 6.

400,338. RED AND COUCH FOUNDATIONS USED AS A SUBSTITUTE FOR BED AND COUCH SPRINGS. HONORBILT PRODUCTS, INC., Philadelphia, Pa.
Filed September 26, 1942. Serial No. 455,800. PUBLISHED DECEMBER 22, 1942. Class 32.

400,339. PRINTED AND PICTORIAL CHARTS. DAVID H. FABER, doing business as Plane Facts, Inc., New York, N. Y.
Filed September 29, 1942. Serial No. 455,842. PUBLISHED DECEMBER 22, 1942. Class 38.

400,340. LADIES' AND MISSES' DRESSES AND DRESS ENSEMBLES, CONSISTING OF A DRESS AND A COAT, BLOUSES, SUITS, COATS, SLACKS, PLAYSUITS. DAVID CRYSTAL INC., New York, N. Y.
Filed September 30, 1942. Serial No. 455,861. PUBLISHED DECEMBER 15, 1942. Class 39.

400,341. INDUSTRIAL POSTERS. D. L. WHEATON, Los Angeles, Calif.
Filed October 5, 1942. Serial No. 455,991. PUBLISHED DECEMBER 22, 1942. Class 38.

400,342. HAND LUGGAGE—NAMELY, SUIT CASES. LIDO LUGGAGE CO., INC., New York, N. Y.
Filed October 7, 1942. Serial No. 456,021. PUBLISHED DECEMBER 22, 1942. Class 3.

400,343. HAND LUGGAGE—NAMELY, SUIT CASES. LIDO LUGGAGE CO., INC., New York, N. Y.
Filed October 7, 1942. Serial No. 456,022. PUBLISHED DECEMBER 22, 1942. Class 3.

400,344. MEDICINAL PREPARATION FOR TREATING INFLAMMATION OF THE UNDER BRONCHIAL WAYS AND LUNGS. ALBA PHARMACEUTICAL COMPANY, INC., New York, N. Y.
Filed October 10, 1942. Serial No. 456,114. PUBLISHED DECEMBER 15, 1942. Class 6.

400,345. CANNED SAUER KRAUT AND SAUER KRAUT JUICE. MEETER'S, INC., Lansing, Ill.
Filed October 14, 1942. Serial No. 456,192. PUBLISHED DECEMBER 22, 1942. Class 46.

400,346. WATCHES FOR MEN AND LADIES. BULOVA WATCH COMPANY, INC., New York, N. Y.
Filed October 15, 1942. Serial No. 456,212. PUBLISHED DECEMBER 22, 1942. Class 27.

400,347. MEDICINAL PREPARATIONS TO STIMULATE THE CIRCULATORY SYSTEM OF THE HUMAN BODY, AND INDICATED IN AND FOR THE PREVENTION AND TREATMENT OF THE SYMTOMATIC MANIFESTATIONS THAT MAY RESULT FROM AN EXCESSIVE DECELERATION OF BLOOD CIRCULATION. THE KNOX COMPANY, Los Angeles, Calif.
Filed October 15, 1942. Serial No. 456,216. PUBLISHED DECEMBER 15, 1942. Class 6.

400,348. MINERAL ROCK. THE PHILADELPHIA AND READING COAL AND IRON COMPANY, Philadelphia, Pa.
Filed October 15, 1942. Serial No. 456,223. PUBLISHED DECEMBER 22, 1942. Class 1.

400,349. SKIN FRESHENER AND TONIC, LIQUEFYING CREAM, CREAM LOTION, LIPSTICKS, AND DRY SKIN CREAM. POND'S EXTRACT COMPANY, New York, N. Y.
Filed October 15, 1942. Serial No. 456,224. PUBLISHED DECEMBER 15, 1942. Class 6.

400,350. FIRE EXTINGUISHING POWDER. UNITED LABORATORIES, INCORPORATED, Cleveland, Ohio.
Filed October 15, 1942. Serial No. 456,226. PUBLISHED DECEMBER 15, 1942. Class 6.

400,351. THREAD AND YARN OF ARTIFICIAL ORIGIN. NORTH AMERICAN RAYON CORPORATION, New York, N. Y.
Filed October 16, 1942. Serial No. 456,243. PUBLISHED DECEMBER 15, 1942. Class 43.

400,352. THREAD AND YARN OF ARTIFICIAL ORIGIN. NORTH AMERICAN RAYON CORPORATION, New York, N. Y.
Filed October 16, 1942. Serial No. 456,244. PUBLISHED DECEMBER 15, 1942. Class 43.

400,353. THREAD AND YARN OF ARTIFICIAL ORIGIN. NORTH AMERICAN RAYON CORPORATION, New York, N. Y.
Filed October 16, 1942. Serial No. 456,245. PUBLISHED DECEMBER 15, 1942. Class 43.

400,354. THREAD AND YARN OF ARTIFICIAL ORIGIN. NORTH AMERICAN RAYON CORPORATION, New York, N. Y.
Filed October 16, 1942. Serial No. 456,246. PUBLISHED DECEMBER 15, 1942. Class 43.

400,355. VAGINAL DOUCHE. TEXAS PHARMACAL COMPANY, San Antonio, Tex.
Filed October 16, 1942. Serial No. 456,253. PUBLISHED DECEMBER 15, 1942. Class 6.

400,356. PAINTING SETS CONTAINING A STATUETTE ESPECIALLY MADE FOR COLORING BY HAND, A PALETTE OF WATER COLORS, A PAINT BRUSH, AND A COLOR GUIDE. GEORGE W. BEEMAN, doing business as the Detroit Toy Co., Grosse Pointe, Mich.
Filed October 19, 1942. Serial No. 456,267. PUBLISHED DECEMBER 22, 1942. Class 22.

400,357. SMOKING TOBACCO AND CIGARETTES. LARUS & BROTHER COMPANY, INC., Richmond, Va.
Filed October 19, 1942. Serial No. 456,271. PUBLISHED DECEMBER 22, 1942. Class 17.

400,358. ALL VITAMIN CAPSULE. NION CORPORATION, Los Angeles, Calif.
Filed October 19, 1942. Serial No. 456,273. PUBLISHED DECEMBER 15, 1942. Class 6.

400,359. EAR DROPS. RHINOMO COMPANY, Dallas, Tex.
Filed October 19, 1942. Serial No. 456,274. PUBLISHED DECEMBER 15, 1942. Class 6.

400,360. SKIN FRESHENER, CREAM LOTION, FACE POWDER AND ROUGE. POND'S EXTRACT COMPANY, New York, N. Y.
Filed October 20, 1942. Serial No. 456,293. PUBLISHED DECEMBER 15, 1942. Class 6.

400,361. SKIN FRESHENER AND CREAM LOTION. POND'S EXTRACT COMPANY, New York, N. Y.
Filed October 20, 1942. Serial No. 456,294. PUBLISHED DECEMBER 15, 1942. Class 6.

400,362. FACE POWDER AND ROUGE. POND'S EXTRACT COMPANY, New York, N. Y.
Filed October 20, 1942. Serial No. 456,295. PUBLISHED DECEMBER 15, 1942. Class 6.

400,363. LADIES' AND MISSES' COATS, SUITS, JACKETS, AND COAT AND SUIT ENSEMBLES. JULIUS NELSON CORP., New York, N. Y.
Filed October 21, 1942. Serial No. 456,322. PUBLISHED DECEMBER 15, 1942. Class 39.

400,364. MISSES' COATS AND SUITS. LOU SCHNEIDER, INC., New York, N. Y.
Filed October 21, 1942. Serial No. 456,326. PUBLISHED DECEMBER 15, 1942. Class 39.

400,365. PAINT OILS, AND SPECIFICALLY RAW AND BOILED LINSEED OIL. SPENCER KELLOGG AND SONS, INC., Buffalo, N. Y.
Filed October 22, 1942. Serial No. 456,340. PUBLISHED DECEMBER 22, 1942. Class 16.

400,366. PRINTING DEVICES FOR USE IN ADDRESSING AND SIMILAR MACHINES—NAMELY, PRINTING PLATES BEFORE AND AFTER EMBOSSING FOR USE ALONE, ETC. ADDRESSOGRAPH-MULTIGRAPH CORPORATION, Cleveland, Ohio.
Filed October 23, 1942. Serial No. 456,357. PUBLISHED DECEMBER 15, 1942. Class 23.

400,367. PRINTING DEVICES FOR USE IN ADDRESSING AND SIMILAR MACHINES—NAMELY, PRINTING PLATES BEFORE AND AFTER EMBOSSING FOR USE ALONE, ETC. ADDRESSOGRAPH-MULTIGRAPH CORPORATION, Cleveland, Ohio
Filed October 23, 1942. Serial No. 456,358. PUBLISHED DECEMBER 15, 1942. Class 23.

400,368. ELECTRICALLY OPERABLE HEARING AIDS FOR AIDING THE HEARING OF PERSONS WITH IMPAIRED HEARING. CRYSTALEAR, INC., Chicago, Ill.
Filed October 24, 1942. Serial No. 456,382. PUBLISHED DECEMBER 22, 1942. Class 44.

400,369. EYEGLASS AND SPECTACLE FRAMES AND PARTS THEREFOR—NAMELY, NOSEPIECES AND TEMPLES MADE OF METAL, SHELL, AND VARIOUS PLASTIC COMPOSITIONS. ALEXANDER KONO, doing business as Kono Manufacturing Company, Woodside, Long Island, N. Y.
Filed October 24, 1942. Serial No. 456,397. PUBLISHED DECEMBER 22, 1942. Class 26.

400,370. ELECTRIC VACUUM CLEANERS. FREDERICK BISSELL, doing business as The National Super Service Company, Toledo, Ohio.
Filed October 27, 1942. Serial No. 456,446. PUBLISHED DECEMBER 22, 1942. Class 21.

400,371. HAIR WAVING SOLUTIONS. TURBANWAY, INC., New York, N. Y.
Filed October 27, 1942. Serial No. 456,478. PUBLISHED DECEMBER 15, 1942. Class 6.

400,372. LONG DRAFT LEATHER APRONS USED IN TEXTILE MACHINERY. J. B. KENNINGTON, doing business as Textile Apron Company, East Point, Ga.
Filed October 30, 1942. Serial No. 456,534. PUBLISHED DECEMBER 22, 1942. Class 35.

400,373. PHARMACEUTICAL PREPARATIONS USEFUL IN THE TREATMENT OF ITCHING AND IRRITATION IN CERTAIN TYPES OF SKIN SENSITIVITY INCLUDING THE MORE COMMON TYPES OF INDUSTRIAL DERMATOSES. DONALD MERRELL & COMPANY, Wyoming, Ohio.
Filed October 30, 1942. Serial No. 456,537. PUBLISHED DECEMBER 15, 1942. Class 6.

400,374. TOOL BITS. THE HENRY G. THOMPSON & SON COMPANY, New Haven, Conn.
Filed October 31, 1942. Serial No. 456,574. PUBLISHED DECEMBER 15, 1942. Class 23.

400,375. ADHESIVE CEMENT. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio.
Filed November 3, 1942. Serial No 456,627. PUBLISHED DECEMBER 22, 1942. Class 5.

400,376. PERIODICAL. TRANSRADIO NEWS FEATURES, INC., New York, N. Y.
Filed November 6, 1942. Serial No. 456,677. PUBLISHED DECEMBER 22, 1942. Class 38.

[ACT OF MARCH 19, 1920. SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

400,377. (CLASS 45. BEVERAGES, NONALCOHOLIC.) MUTUAL ORANGE DISTRIBUTORS, Redlands, Calif. Filed Dec. 8, 1941. Serial No. 449,289.

GOLDEN ADE

FOR CANNED CITRUS FRUIT JUICE CONCENTRATE.
Claims use since Nov. 27, 1941.

400,378. (CLASS 6. CHEMICALS, MEDICINES AND PHARMACEUTICAL PREPARATIONS.) SIMON KLEINKRAMER, doing business as Perfumery Lybozo, New York, N. Y. Filed Dec. 10, 1941. Serial No. 449,348.

Old Delft

FOR PERFUME, HAND CREAM, COLD CREAM, SKIN CREAM, POMADE, ROUGE, FACE POWDER, BATH SALTS, BRILLIANTINE, NAIL POLISH REMOVER, DEODORANT, LIPSTICKS, TOOTHPASTE, MOUTH WASH AND SHAMPOO.
Claims use since Nov. 7, 1941.

400,379. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) A. FINKL & SONS COMPANY, Chicago, Ill. Filed Jan 2, 1942. Serial No. 449,964.

SHELL-DIE

FOR HOT WORK DIE STEELS AND FORGINGS FOR DIES, PUNCHES, AND INSERTS.
Claims use since Dec. 20, 1941.

400,380. (CLASS 44. DENTAL, MEDICAL AND SURGICAL APPLIANCES.) THE BLESSING HEARING AID COMPANY, Peabody, Mass. Filed Feb. 2, 1942. Serial No. 450,675.

Blessing

FOR ELECTRICALLY AMPLIFIED HEARING AID DEVICES.
Claims use since Dec. 17, 1941.

400,381. (CLASS 12. CONSTRUCTION MATERIALS.) PLANT RUBBER & ASBESTOS WORKS, San Francisco, Calif. Filed Feb. 23, 1942. Serial No. 451,179.



FOR MAGNESIA HEAT INSULATING MATERIAL, PIPE COVERING, AND BLOCKS.
Claims use since Dec. 31, 1941.

400,382. (CLASS 12. CONSTRUCTION MATERIALS.) PLANT RUBBER & ASBESTOS WORKS, San Francisco, Calif. Filed Feb. 23, 1942. Serial No. 451,180.

PRECISION MOLDED

FOR MAGNESIA HEAT INSULATING MATERIAL, PIPE COVERING, AND BLOCKS.
Claims use since Dec. 31, 1941.

400,383. (CLASS 6. CHEMICALS, MEDICINES AND PHARMACEUTICAL PREPARATIONS.) IRVING WORTHMAN, BROOKLYN, N. Y. Filed Feb. 27, 1942. Serial No. 451,277.

Pine-ol-ized

FOR PAPER KERCHIEFS IMPREGNATED WITH A MEDICAMENT USED IN THE TREATMENT OF HEAD COLDS.
Claims use since December, 1941.

400,384. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) UNIVERSAL FLASHLIGHT CO. INC., Washington, D. C. Filed Mar. 23, 1942. Serial No. 451,862.

"CHESTLITE"

FOR ELECTRIC FLASHLIGHTS.
Claims use since Dec. 1, 1941.

400,385. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) P. R. MALLORY & CO., INC., Indianapolis, Ind. Filed Apr. 11, 1942 Serial No. 452,288.

MALLORY

FOR METALLURGICAL PRODUCTS—NAMELY, NON-FERROUS ALLOYS, COPPER AND ITS ALLOYS, BRONZE, PRECIOUS METALS AND THEIR ALLOYS, REFRACTORY METALS AND THEIR ALLOYS AND COMPOSITIONS, SPECIFICALLY TUNGSTEN AND MOLYBDENUM IN THEIR SUBSTANTIALLY PURE FORM AND TUNGSTEN, MOLYBDENUM, RHENIUM, TUNGSTEN CARBIDE, AND MOLYBDENUM CARBIDE IN ALLOYS AND METAL COMPOSITIONS WITH OTHER METALS, POWDER METALLURGICAL PRODUCTS, SPECIFICALLY PARTLY FINISHED BODIES OF PRESSED AND SINTERED MIXTURES OF COPPER, SILVER, TUNGSTEN, MOLYBDENUM, NICKEL, COBALT, ZINC, AND CADMIUM, IN VARIOUS PROPORTIONS WITH OR WITHOUT SMALL PERCENTAGES OF OTHER INGREDIENTS, LAMINATED METALS, SPECIFICALLY SHEET STEEL CLAD WITH COPPER OR SILVER AND THEIR ALLOYS AND COPPER CLAD WITH SILVER AND SILVER ALLOYS, AND UNFINISHED AND PARTLY FINISHED CASTINGS.
Claims use since July, 1936.

400,386. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) AMERICAN FLEXIBLE COUPLING COMPANY, Erie, Pa. Filed Apr. 23, 1942. Serial No. 452,516.

AMERICAN

FOR SHAFT COUPLINGS.
Claims use since June 15, 1929.

400,387. (CLASS 32. FURNITURE AND UPHOLSTERY.) CLOPAY CORPORATION, Cincinnati, Ohio. Filed Nov. 19, 1942. Serial No. 456,917.

FLORENTINE

FOR WINDOW COVERING ON THE ORDER OF A VENETIAN BLIND AND FORMED FROM AN ACCORDION PLEATED SHEET OF PAPER BOARD OR SIMILAR MATERIAL.
Claims use since Feb. 15, 1939.

400,388. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS.) DETROIT STOKER COMPANY, Detroit, Mich. Filed Nov. 23, 1942 Serial No. 456,973.

LoStoker

FOR FUEL STOKERS.
Claims use since August, 1932.

400,389. (CLASS 6. CHEMICALS, MEDICINES AND PHARMACEUTICAL PREPARATIONS.) RAD CHEMICAL CO., Chicago, Ill. Filed Nov. 25, 1942. Serial No. 457,053.

RAD'S
Indian Alterative

FOR TONIC HERB TEA IN LEAF FORM FOR THE ALLEVIATION OF DIGESTIVE AND RHEUMATIC DISORDERS.
Claims use since 1900.

400,390. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS.) AMERICAN COAL BURNER COMPANY, Chicago, Ill. Filed Dec. 28, 1942. Serial No. 457,620.

FYR-FEEDER

FOR NATURAL OR FORCED DRAFT STOKERS.
Claims use since Jan. 17, 1936.

TRADE-MARK REGISTRATIONS RENEWED

22,443. **COSMOLINE.** UNGUENTS. Registered February 7, 1893. E. F. HOUGHTON & CO. Re-renewed February 7, 1943, to E. F. Houghton & Co., Philadelphia, Pa., a corporation of Pennsylvania, assignee.

138,267. **JAEGER WOOLWARE.** KNITTED AND WOVEN WEARING-APPAREL—NAMELY, UNDERWEAR, HOSIERY, SWEATERS, BATHING SUITS. Registered December 21, 1920. DR. JAEGER'S SANITARY WOOLEN SYSTEM CO., New York, N. Y. Renewed December 21, 1940, to The Jaeger Company, Ltd., London, England, a limited company of Great Britain, assignee by mesne assignments.

161,918. **PLANADA.** PRESERVED FRUITS,—VIZ, FIGS. Registered November 28, 1922. THE BECKWITH COMPANY, Reedley, Calif. Renewed November 28, 1942, to Planada Packers, Planada, Calif., a corporation of California, successor.

162,065. **PANTHER.** STEEL. Registered December 5, 1922. THE ELECTRIC ALLOY STEEL COMPANY, Youngstown, Ohio. Renewed December 5, 1942, to Allegheny Ludlum Steel Corporation, Pittsburgh, Pa., a corporation of Pennsylvania, assignee by mesne assignments.

162,067. **PYTHON.** STEEL. Registered December 5, 1922. THE ELECTRIC ALLOY STEEL COMPANY, Youngstown, Ohio. Renewed December 5, 1942, to Allegheny Ludlum Steel Corporation, Pittsburgh, Pa., a corporation of Pennsylvania, assignee by mesne assignments.

163,029. **GO-DEVIL.** DRAIN SOLVENTS. Registered January 2, 1923. BUFFALO SPECIALTY COMPANY. Renewed January 2, 1943, to Liquid Veneer Corporation, Buffalo, N. Y., a corporation of New York, by change of name.

163,205. **"DIAMOND TOP" AND DRAWING.** SPORT CAPS, ROOTERS' CAPS, AND COLLEGE HATS MADE OF FELT OR FLANNEL. Registered January 2, 1923. WHEELER MANUFACTURING CO., Berkeley, Calif., a co-partnership. Renewed January 2, 1943.

163,734. **RED LETTER.** FERTILIZER. Registered January 23, 1923. THE AMERICAN AGRICULTURAL CHEMICAL COMPANY. Renewed January 23, 1943, to The American Agricultural Chemical Company, New York, N. Y., a corporation of Delaware, assignee.

163,923. **VICTORY.** CERTAIN NAMED FIREWORKS. Registered February 6, 1923. VICTORY SPARKLER & SPECIALTY CO. Renewed February 6, 1943, to Victory Fireworks & Specialty Company, Elkton, Md., a corporation of Maryland, assignee.

164,402. **BURT.** PAPER BOXES. Registered February 20, 1923. F. N. BURT COMPANY, LIMITED. Renewed February 20, 1943, to F. N. Burt Company, Inc., Buffalo, N. Y., a corporation of Delaware, assignee.

164,643. **SEE SAW.** SALAD DRESSING. Registered February 27, 1923. SEEBASS PRODUCTS, INC., New York, N. Y., a corporation of New York. Renewed February 27, 1943.

164,709. **REPRESENTATION OF AN OWL.** GASOLINE AND BENZINE. Registered February 27, 1923. THE OWL DRUG COMPANY. Renewed February 27, 1943, to The Owl Drug Co., San Francisco, Calif., a corporation of Nevada, assignee.

164,775. **SHADOW RIB.** HOSIERY. Registered February 27, 1923. BURSON KNITTING COMPANY, Rockford, Ill., a corporation of Illinois. Renewed February 27, 1943.

164,855. **AMACCO.** FERTILIZER. Registered February 27, 1923. THE AMERICAN AGRICULTURAL CHEMICAL COMPANY. Renewed February 27, 1943, to The American Agricultural Chemical Company, New York, N. Y., a corporation of Delaware, assignee.

164,927. **"QUAKER MAID" AND DRAWING.** TABLE SIRUP. Registered February 27, 1923. ATLANTIC SYRUP REFINING CO. Renewed February 27, 1943, to William H. Burns, doing business as Atlantic Syrup Refining Company, Philadelphia, Pa., assignee.

164,979. **REPRESENTATION OF AN OVAL.** PAINT, VARNISH, AND CALCIMINE BRUSHES. Registered February 27, 1923. THE ESMOND MILLS. Renewed February 27, 1943, to The Esmond Mills, Inc., Esmond, R. I., a corporation of Rhode Island, assignee.

164,980. **NIKKO.** PAINT, VARNISH, AND CALCIMINE BRUSHES. Registered February 27, 1923. HANLON & GOODMAN COMPANY, New York, N. Y. Renewed February 27, 1943, to Hanlon & Goodman Co., Belleville, N. J., a corporation of New York.

165,000. **RITE.** PAINT, VARNISH, AND CALCIMINE BRUSHES. Registered February 27, 1923. HANLON & GOODMAN COMPANY, New York, N. Y. Renewed February 27, 1943, to Hanlon & Goodman Co., Belleville, N. J., a corporation of New York.

165,022. **SKIABARYT.** A CHEMICAL PREPARATION USED IN X-RAY EXAMINATIONS. Registered February 27, 1923. MERCK & CO., New York, N. Y. Renewed February 27, 1943, to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey, assignee.

165,023. **BENZYPHOS.** A PREPARATION USED AS AN ANTISPASMODIC. Registered February 27, 1923. MERCK & CO., New York, N. Y. Renewed February 27, 1943, to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey, assignee.

165,805. **REPRESENTATION OF A BUNNY.** CERTAIN NAMED TEXTILE FABRICS. Registered March 20, 1923. THE ESMOND MILLS. Renewed March 20, 1943, to The Esmond Mills, Inc., Esmond, R. I., a corporation of Rhode Island, assignee.

166,015. **FREDERICKA.** HOSIERY. Registered March 27, 1923. UNION MANUFACTURING CO., Frederick, Md., a corporation of Maryland. Renewed March 27, 1943.

166,054. **AGRICO.** GUANO. Registered March 27, 1923. THE AMERICAN AGRICULTURAL CHEMICAL COMPANY. Renewed March 27, 1943, to The American Agricultural Chemical Company, New York, N. Y., a corporation of Delaware, assignee.

166,120. **JUPITER.** LUBRICATING OILS. Registered March 27, 1923. THE STAR OIL COMPANY, Chicago, Ill., a corporation of Illinois. Renewed March 27, 1943.

166,235. **EMPEROR.** PRESSING, GRINDING, AND ELEVATING MACHINERY; BRICK, CONCRETE, AND CEMENT-MAKING MACHINERY. Registered March 27, 1923. SUTCLIFFE, SPEAKMAN & COMPANY LIMITED, Leigh, England, a corporation of Great Britain. Renewed March 27, 1943.

166,380. **DOUBLE A. C.** FERTILIZER. Registered April 3, 1923. THE AMERICAN AGRICULTURAL CHEMICAL CO. Renewed April 3, 1943, to The American Agricultural Chemical Company, New York, N. Y., a corporation of Delaware, assignee.

166,521. **TWENTIETH CENTURY.** DENTAL ALLOY. Registered April 3, 1923. THE L. D. CAULK COMPANY, Milford, Del., a corporation of Delaware. Renewed April 3, 1943.

166,570. **SNO-LINE.** CANNED VEGETABLES. Registered April 10, 1923. EPHRAIM SANITARY CANNING COMPANY, Ephraim, Utah. Renewed April 10, 1943, to Rocky Mountain Packing Corporation, Salt Lake City, Utah, a corporation of Utah, assignee.

166,608. **WHITBEY.** COATS, BATHING SUITS, CAPES, CHILDREN'S DRESSES, INFANTS' DRESSES, SLEEVELESS DRESSES, AND ONE-PIECE STRAIGHT-LINE DRESSES. Registered April 10, 1923. R. H. MACY & CO., INC., New York, N. Y., a corporation of New York. Renewed April 10, 1943.

166,854. **"PAX" AND DRAWING.** CERTAIN NAMED MACHINERY, AND TOOLS AND PARTS THEREOF. Registered April 17, 1923. SANDERSON BROTHERS & NEWBOULD LIMITED, Sheffield, England, a United Kingdom corporation. Renewed April 17, 1943.

167,105. **CLEAR SPRING.** ENGLISH-FINISH BOOK PAPER, SUPERCALENDERED BOOK PAPER. Registered April 24, 1923. WEST VIRGINIA PULP & PAPER COMPANY, New York, N. Y., a corporation of Delaware. Renewed April 24, 1943.

167,527. **C & G 1 C & G 2 C & G 3.** CRUDE ASBESTOS. Registered May 1, 1923. HOBDELL, WAY AND COMPANY, LIMITED, London, England. Renewed May 1, 1943, to Raw Asbestos Distributors Ltd., Spotland, Rochdale, England, an organized company of Great Britain, assignee.

167,664. **STAYNEW PROTECTOMOTOR.** AIR FILTERS. Registered May 8, 1923. STAYNEW FILTER CORPORATION, Rochester, N. Y., a corporation of New York. Renewed May 8, 1943.

167,785. **SCHICKSNAPS.** NECKLACE CLASPS AND FASTENERS. Registered May 8, 1923. HARRY C. SCHICK, INC., Newark, N. J., a corporation of New Jersey. Renewed May 8, 1943.

167,907. **"CHESEBROUGH'S VASELINE" AND DRAWING.** PETROLEUM JELLY AND PREPARATIONS THEREOF. Registered May 8, 1923. CHESEBROUGH MANUFACTURING COMPANY, CONSOLIDATED, New York, N. Y., a corporation of New York. Renewed May 8, 1943.

168,604. **CLUB PARCHMENT.** WRITING PAPER AND ENVELOPES. Registered May 29, 1923. SAMUEL WARD MANUFACTURING COMPANY, Boston, Mass., a corporation of Massachusetts. Renewed May 29, 1943.

169,054. **"THE NATIONAL STANDARD" AND DRAWING.** COMPLETELY-PRINTED CLASSIFIED-ADVERTISING FORMS AND INSTRUCTION SHEETS. Registered June 5, 1923. THE BASIL L. SMITH SYSTEM, INC. Renewed June 5, 1943, to Basil L. Smith System, Philadelphia, Pa., a firm, assignee.

169,182. **PATRICIAN.** COVER PAPER. Registered June 12, 1923. PENINSULAR PAPER COMPANY, Ypsilanti, Mich., a corporation of Michigan. Renewed June 12, 1943.

169,502. **"BURT" AND DRAWING.** PAPER BOXES. Registered June 19, 1923. F. N. BURT COMPANY, LIMITED. Renewed June 19, 1943, to F. N. Burt Company, Inc., Buffalo, N. Y., a corporation of Delaware, assignee.

169,503. **"BURT" AND DRAWING.** PAPER BOXES. Registered June 19, 1923. F. N. BURT COMPANY, LIMITED. Renewed June 19, 1943, to F. N. Burt Company, Inc., Buffalo, N. Y., a corporation of Delaware, assignee.

169,577. **6 SIXINALL.** FURNITURE POLISH HAVING INCIDENTAL PROPERTIES AS A METAL POLISH. Registered June 26, 1923. JOHN F. DUTRA, doing business as Galtra Manufacturing Co. Renewed June 26, 1943, to John F. Dutra, doing business as Galtra Manufacturing Co., Fall River, Mass., successor.

169,822. **CLE-FORGE.** METAL-WORKING SMALL TOOLS. Registered July 3, 1923. THE CLEVELAND TWIST DRILL COMPANY, Cleveland, Ohio, a corporation of Ohio. Renewed July 3, 1943.

169,836. **DEODORINE.** DISINFECTANT AND DEODORIZERS. Registered July 3, 1923. B. HELLER & COMPANY, Chicago, Ill., a corporation of Illinois. Renewed July 3, 1943.

169,837. **COLD-STORINE.** CHEMICAL PREPARATION FOR CERTAIN NAMED PURPOSES. Registered July 3, 1923. B. HELLER & COMPANY, Chicago, Ill., a corporation of Illinois. Renewed July 3, 1943.

169,845. **CURALAK.** CERTAIN NAMED TOILET PREPARATIONS. Registered July 3, 1923. LIGHTFOOT SCHULTZ COMPANY, Hoboken, N. J. Renewed July 3, 1943, to Lightfoot Schultz Co., New York, N. Y., and Hoboken, N. J., a corporation of New York.

169,853. **SEMESAN.** FUNGICIDE, SEED DISINFECTANT, AND GENERAL DISINFECTANT. Registered July 3, 1923. E. I. DU PONT DE NEMOURS & COMPANY. Renewed July 3, 1943, to Bayer-Semesan Company, Wilmington, Del., a corporation of Delaware, assignee.

169,879. **VELVETONE.** FACE POWDERS, FACE BLEACHES, AND LIQUID FACE ROUGE. Registered July 3, 1923. CHARLES WEBB GODEFROY. Renewed July 3, 1943, to Godefroy Manufacturing Company, St. Louis, Mo., a corporation of Missouri, assignee.

169,966. **WESIX.** ELECTRIC HEATING APPARATUS. Registered July 10, 1923. W. WESLEY HICKS. Renewed July 10, 1943, to Wesix Electric Heater Co., San Francisco, Calif., a corporation of California, assignee by mesne assignments.

169,975. **"GILMORE" AND DRAWING.** A VOLATILE COMPOUND DERIVED FROM PETROLEUM. Registered July 10, 1923. GILMORE PETROLEUM COMPANY. Renewed July 10, 1943, to Gilmore Oil Company, Los Angeles, Calif., a corporation of California, assignee.

170,031. **VITAMEXOL.** TONIC FOR USE IN CONNECTION WITH CONVALESCENCE, ANAEMIA, MALNUTRITION OF CHILDREN, SENILE DEBILITY AND NEURASTHENIA. Registered July 10, 1923. R. J. STRASENBURGH COMPANY, Rochester, N. Y., a corporation of New York. Renewed July 10, 1943.

170,113. **ELITE.** CANDIES. Registered July 10, 1923. W. F. SCHRAFFT & SONS CORPORATION, Boston, Mass., a corporation of Massachusetts. Renewed July 10, 1943.

170,131. **"ELECTRIC DRAGON" AND DRAWING.** FIREWORKS. Registered July 10, 1923. THE NATIONAL FIREWORKS MANUFACTURING COMPANY, Boston and West Hanover, Mass. Renewed July 10, 1943, to National Fireworks, Inc., West Hanover, Mass., a corporation of Massachusetts, successor.

170,191. **ALUMNOL.** ASTRINGENTS AND MILD ANTISEPTICS. Registered July 10, 1923. H. A. METZ LABORATORIES, INC. Renewed July 10, 1943, to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York, by consolidation.

170,198. **MEDICOL.** WHITE MINERAL OIL FOR MEDICINAL PURPOSES. Registered July 10, 1923. SHERWOOD PETROLEUM COMPANY, INC., Brooklyn, N. Y. Renewed July 10, 1943, to Sherwood Refining Company, Inc., Englewood, N. J., a corporation of New Jersey, assignee.

170,199. **KREMOL.** WHITE MINERAL OIL FOR MEDICINAL PURPOSES. Registered July 10, 1923. SHERWOOD PETROLEUM COMPANY, INC., Brooklyn, N. Y. Renewed July 10, 1943, to Sherwood Refining Company, Inc., Englewood, N. J., a corporation of New Jersey, assignee.

170,231. **CARLTONIA.** CIGARS, CIGARETTES, AND SMOKING TOBACCO. Registered July 10, 1923. R. C. IMPORTATION CORPORATION, New York, N. Y. Renewed July 10, 1943, to Thomas F. Murtha, Flushing, Long Island, N. Y., assignee.

170,255. **V.** HOSE, BELTING, AND PACKING MADE WHOLLY OR PARTLY OF RUBBER OR OF A RUBBER COMPOSITION. Registered July 10, 1923. VOORHESS RUBBER MFG. CO., Jersey City, N. J. Renewed July 10, 1943, to Voorhess Rubber Mfg. Co., Inc., New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

170,274. **ASPIPHENIN.** ANTINEURALGICS. Registered July 10, 1923. FARBENFABRIKEN VORM. FRIEDR. BAYER & Co., Leverkusen, near Cologne-on-the-Rhine, Germany. Renewed July 10, 1943, to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York, by merger.

170,275. **CANADRAST.** HEMOSTATICS. Registered July 10, 1923. FARBENFABRIKEN VORM. FRIEDR. BAYER & Co., Leverkusen, near Cologne-on-the-Rhine, Germany. Renewed July 10, 1943, to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York, by merger.

170,276. **CERTAN.** PARASITICIDES. Registered July 10, 1923. FARBENFABRIKEN VORM. FRIEDR. BAYER & Co., Leverkusen, near Cologne-on-the-Rhine, Germany. Renewed July 10, 1943, to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York, by merger.

170,277. **VENETAN.** PARASITICIDES. Registered July 10, 1923. FARBENFABRIKEN VORM. FRIEDR. BAYER & Co., Leverkusen, near Cologne-on-the-Rhine, Germany. Renewed July 10, 1943, to Winthrop Chemical Company, New York, N. Y., a corporation of New York, by merger.

170,308. **"APW" AND DRAWING.** TOILET PAPER AND PAPER TOWELS. Registered July 10, 1923. ALBANY PERFORATED WRAPPING PAPER CO. Renewed July 10, 1943, to A. P. W. Paper Company, Inc., Albany, N. Y., a corporation of New York, by change of name.

170,434. **FEEN-A-MINT.** LAXATIVE CHEWING GUM. Registered July 17, 1923. HEALTH PRODUCTS CORPORATION, New York, N. Y. Renewed July 17, 1943, to White Laboratories, Inc., Newark, N. J., a corporation of New Jersey, assignee.

170,475. **"GRISWOLD" AND DRAWING.** DUTCH OVENS. Registered July 17, 1923. THE GRISWOLD MANUFACTURING COMPANY, Erie, Pa., a corporation of Pennsylvania. Renewed July 17, 1943.

170,548. **KOPPER KURED.** ROPE. Registered July 17, 1923. WHITLOCK CORDAGE CO., Jersey City, N. J., and New York, N. Y., a corporation of New Jersey. Renewed July 17, 1943.

170,627. **SUNNYBROOK.** VEGETABLE SEEDS. Registered July 17, 1923. W. ATLEE BURPEE CO., Philadelphia, Pa., a corporation of Pennsylvania. Renewed July 17, 1943.

170,654. **NATURIPE.** CANNED VEGETABLES. Registered July 17, 1923. EPHRAIM SANITARY CANNING COMPANY, Ephraim, Utah. Renewed July 17, 1943, to Rocky Mountain Packing Corporation, Salt Lake City, Utah, a corporation of Utah, assignee.

REISSUES

MARCH 2, 1943

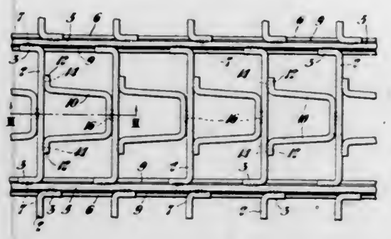
22,278

GRATING STRUCTURE

Gerald G. Greulich, Mount Lebanon, Pa.

Original No. 2,286,204, dated June 16, 1942, Serial No. 304,605, November 15, 1939. Application for reissue November 16, 1942, Serial No. 465,767

4 Claims. (Cl. 189—82)



3. A grating structure for open bridge decks and the like comprising, in combination, a plurality of primary members arranged in parallelism, a plurality of parallel substantially horizontally disposed U-shaped secondary members, the legs of said secondary members being secured to said primary members, and a plurality of horizontally disposed U-shaped tertiary members, said tertiary members being similarly disposed and aligned with respect to each other and provided at the ends of the legs thereof with right-angular flanges which are secured to said secondary members.

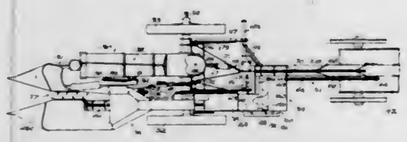
22,279

CORN PICKER

Benjamin M. Hyman, Moline, Ill., and Rector C. Fergason, La Porte, Ind., assignors to International Harvester Company, a corporation of New Jersey

Original No. 2,255,168, dated September 9, 1941, Serial No. 210,464, May 27, 1938. Application for reissue December 1, 1941, Serial No. 421,254

53 Claims. (Cl. 56—18)



39. In combination, a tractor having a rear axle, picker units extending along opposite sides of the tractor and comprising supporting structure extending along opposite sides of the tractor and beneath the tractor rear axle and picking mechanisms extending along the supporting structure at opposite sides of the tractor, means supporting the picker units on the tractor in pivotal connection of the supporting structure with the tractor, and a wagon elevator positioned at the rear of the tractor between the picker units and carried by the picking units, all the units being carried entirely by the tractor in balanced relation.

22,280

RUBBER JOINT

Thomas Lord, Erie, Pa., assignor, by mesne assignments, to Lord Manufacturing Company, Erie, Pa., a corporation of Pennsylvania

Original No. 2,294,674, dated September 1, 1942, Serial No. 321,701, March 1, 1940. Application for reissue December 21, 1942, Serial No. 469,731

15 Claims. (Cl. 248—358)



1. The combination of two members spaced apart and a yielding supporting connection between the members including rubber or the like projecting from the faces of the members in shear relation relatively to the face of each member and receiving the initial thrust on the connection with the connection out of straight line direct stress relation between the members, the general direction of the portions of the connection adjacent to the members being out of alignment.

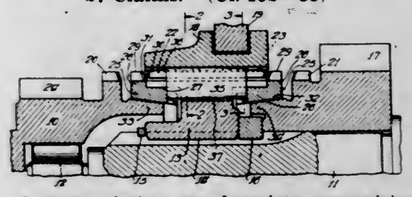
22,281

TRANSMISSION SYNCHRONIZER

Palmer Orr, Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois

Original No. 2,221,892, dated November 19, 1940, Serial No. 303,382, November 8, 1939. Application for reissue January 10, 1941, Serial No. 373,969

27 Claims. (Cl. 192—53)

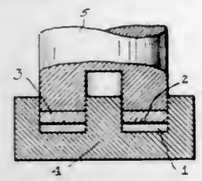


1. A transmission synchronizer comprising a pair of aligned torque transmitting members, a hub axially fixed upon one of said members, a jaw clutch sleeve encircling, drivingly connected to, and axially movable on said hub, a cooperating jaw clutch element drivingly associated with said other member and adapted to be engaged by said sleeve when the latter is moved axially, thereby to form a positive drive connection between said members, said hub having in its rim an axially extending outwardly opening recess and having an annular recess defined within the inner periphery of said rim, a synchronizer ring having a portion received within said annular recess and another portion projecting radially outwardly past said axial recess, said synchronizer ring having a lost motion driving connection with the hub, being axially movable relative to the hub into frictional driving engagement with a cooperating friction clutch element drivingly associated with the other member, and having blocking means adapted when in one of its positions permitted by said lost motion connection, to block axial advance of said movable jaw clutch element and,

when in another of its positions permitted by said lost motion connection to allow said movable jaw clutch element to complete its axial advance into positive clutching position, and a rigid bar disposed in said axial recess between said sleeve and said hub, axially slidable in said recess, adapted to receive axial thrust from said sleeve, and having an end in abutting relation to the radially outwardly projecting portion of said synchronizer ring so as to transmit such thrust to the synchronizer ring.

22,282
METHOD OF BONDING POWDERED METALLIC MATERIAL
Carl E. Swartz, Shaker Heights, Ohio, assignor, by mesne assignments, to S. K. Wellman Company, Cleveland, Ohio, a corporation of Ohio
Original No. 2,161,597, dated June 6, 1939, Serial No. 91,870, July 22, 1936. Application for reissue June 5, 1941, Serial No. 396,786
4 Claims. (Cl. 29—189)

1. A method of bonding powdered metallic material to a ferrous metal support comprising the steps of providing a mechanically and chemically clean surface on the support, covering such surface with a thin protective coating capable of protecting the ferrous metal of the support from oxidation up to an elevated temperature, holding a body of the powdered material having a metal base with a melting point not lower than that of aluminum in contact with the said coating, and effecting substantially complete diffusion of the coating and sintering of base metal of the powdered material directly to the ferrous support



by suitably heating the assembled support, coating and powdered material, the said coating serving during the heating to protect the clean surface of the ferrous support from the action of oxygen in the body of powdered material and the diffusion of said coating permitting a strong bond resistant to high temperatures to be formed directly between the ferrous support and the high melting point base metal of said body.

PLANT PATENTS

GRANTED MARCH 2, 1943

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

568
HYPERICUM
John J. Grullemans, Painesville, Ohio, assignor to The Wayside Gardens Company, Mentor, Ohio, a corporation of Ohio
Application September 5, 1942, Serial No. 457,440
1 Claim. (Cl. 47—60)

A variety of Hypericum herein shown and described, characterized by its exceptional hardiness, the recurvation of the wood creating a mound-like and semi-weeping appearance of the plant as a whole, the reflexure and recurvation of the petals of each flower, large number of conspicuous stamens, the rich color of the individual flowers, the exceptional floriferousness of the plant and the manner in which the flowers are borne, the unusual color of the seed carpels and the large number of flowers in bloom concurrently, and the lasting quality as cut flowers.

569
ROSE PLANT
Paul De Vor, Pleasanton, Calif., assignor to Jackson & Perkins Company, Newark, N. Y., a corporation of New York
Application September 12, 1942, Serial No. 458,108
1 Claim. (Cl. 47—61)

A new and distinct variety of polyantha rose plant, characterized predominantly as to novelty by the unusual coloring of its flowers, specifically Straw Yellow in the unfurling bud and Barium Yellow in the opening flower, fading to almost clear White when fully open as compared with the varying Pink of its parent variety, substantially as shown and described.

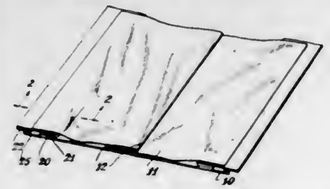
570
STRAWBERRY PLANT
Brooks D. Drain, Knoxville, Tenn., assignor to The University of Tennessee Research Corporation, Knoxville, Tenn., a corporation of Tennessee
Application October 10, 1941, Serial No. 414,531
1 Claim. (Cl. 47—62)

A healthy, prolific, fruiting strawberry plant variety substantially as illustrated and described, characterized by subacid, well flavored fruits which are medium red throughout, and by the development of a large number of runner plants.

PATENTS

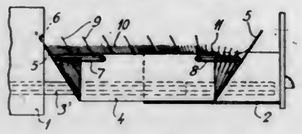
GRANTED MARCH 2, 1943

2,312,301
HEAT INSULATING MATERIAL
Channing Turner, New Canaan, Conn., and Bernard J. Brady, Yonkers, N. Y., assignors to Alfol Insulation Company, Inc., a corporation of Delaware
Application April 19, 1940, Serial No. 330,462
3 Claims. (Cl. 154—45)



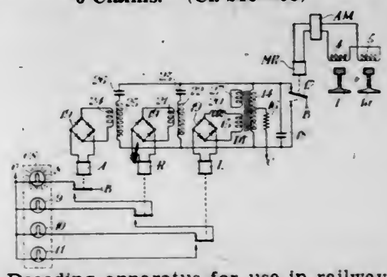
1. An assembly of heat insulation material and support material adapted to be shipped in rolled form and to be opened by tension on the sides of the support material, comprising a flexible foundation sheet of fibrous material having parallel folds approximately paralleling and adjacent its sides to form openable plaits running the length of the foundation sheet, bridging members consisting of strips of fibrous material folded longitudinally to form two legs, one on each side of such fold, each such bridging member having one leg attached to the foundation sheet between its edge and the adjacent plait and having the other leg attached to the foundation sheet between the plait and the center of the sheet and each of the bridging members being folded to lie flat approximately in the plane of the foundation sheet so that the foundation sheet and the bridging member form an approximately flat assembly that can be rolled up, but said bridging members being adapted, when the plaits are opened by stretching the foundation sheet laterally, to open to form ridges of triangular section running adjacent the edges of the foundation sheet, and further comprising a flexible heat-reflective sheet connected to said foundation sheet nearer its edges than said plaits and passing over the folds in the bridging members so that when the foundation sheet is expanded laterally and said bridging members are opened, they will spread the body of the heat-reflective sheet away from the foundation sheet and hold the two sheets in spaced relation.

2,312,302
CARD INDEX SYSTEM, FILING SYSTEM, AND THE LIKE
Martin August Hansen Aamodt, Oslo, Norway; vested in the Alien Property Custodian
Application July 18, 1939, Serial No. 285,200
In Norway June 29, 1938
1 Claim. (Cl. 129—16)



In a card index system, filing system and the like, a cabinet, a drawer, telescoping side supports for said drawer whereby the drawer may be pulled out of the cabinet a distance substantially one and one-half times its own length, a tray slidably mounted in said drawer, the end walls of said tray being hinged to the bottom of said tray and connected by slotted links to the upper part of the side walls of said tray whereby the end walls may be swung outwardly from the side walls when the drawer is drawn outward, friction studs impeding the outward movement of the tray whereby relative movement takes place between the tray and the drawer when the drawer is drawn out, and dividing plates with out-pressed dividing springs a symmetrically arranged, for dividing the tray into sections and functioning also to press outwardly the end walls of the tray.

2,312,303
RAILWAY TRAFFIC CONTROLLING APPARATUS
Leslie R. Allison, Forest Hills, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application April 26, 1941, Serial No. 390,609
6 Claims. (Cl. 246—63)

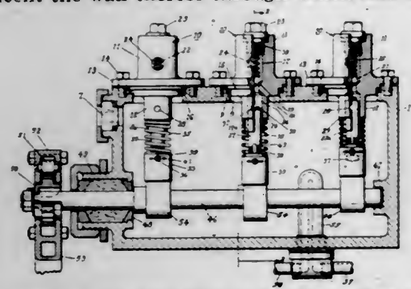


1. Decoding apparatus for use in railway signal systems having a code following relay responsive to track circuit energy coded at one or another of a plurality of code rates each rate comprising recurrent cycles consisting of alternate "on" and "off" intervals during which energy is and is not present in the track rails, comprising the combination with said code following relay of a decoding transformer having a magnetizable core provided with a winding supplied by said relay with unidirectional current in such manner as to cause reversals of flux in the transformer at a rate corresponding to the code rate of operation of said relay, selective circuits tuned to resonance at one or another of the plurality of code rates and supplied with energy from a winding of said transformer, and reactive means associated with said transformer for delaying the growth and decay of flux therein to reduce the harmonic components of voltages applied from the winding of said transformer to said selective circuits and thereby improve the selectivity of such circuits.

2,312,304
HYDROSTATIC MECHANICAL LUBRICATOR
Kosciusko M. Anderson, Sweetwater, Tex.
Application October 7, 1941, Serial No. 413,950
7 Claims. (Cl. 184—27)

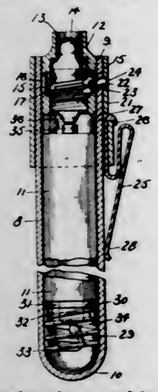
1. A lubricator, having an oil reservoir, a lubri-

cant forcing unit applicable to and removable bodily from said reservoir and comprising an elongated body extending into said reservoir, said body having an axial bore extending throughout its length, a discharge port communicating with one end of said axial bore exteriorly of said reservoir, the opposite end portion of said bore within said reservoir constituting the forcing cylinder, an intake port communicating with said cylinder interiorly of said reservoir and adjacent the wall thereof through which said body



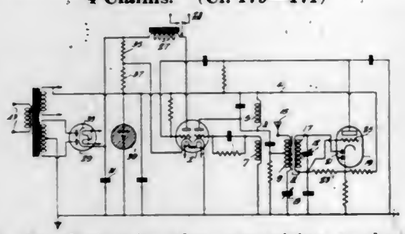
is inserted, check valve means disposed in said bore between said discharge and intake ports to control communication therebetween, a piston slidably positioned in the outer end of said cylinder, a cam follower threadedly engaging the outer end of said piston whereby longitudinal adjustment therebetween may be effected, and means carried by the inner end of said piston and engageable through said axial bore from the exterior thereof for effecting rotation of said piston relative to said cam follower, and means for imparting reciprocating movement to said piston.

2,312,305
FLASHLIGHT
Frederick J. Berlinger, Cincinnati, Ohio
Application October 9, 1940, Serial No. 360,422
7 Claims. (Cl. 240—10.68)



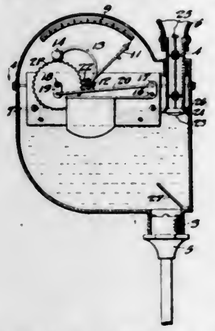
1. In a flashlight the combination of a cylindrical casing having a closed bottom end and an open end, a battery axially movable within the casing, a cylindrical carriage axially and rotatably movable within the casing and disposed adjacent the open end thereof, a lamp bulb held in the carriage and in contact with the battery, a switch between the bottom of the casing and the battery, a spring in the bottom of the casing for biasing the battery, lamp and carriage to open switch positions, a manually operated means rotatably and axially movable exteriorly of the open end of the casing for actuating the carriage, means for establishing a constant electrical contact between the lamp and the casing and means for operatively connecting the manually operated means and the carriage, said member upon operation being adapted to axially move the carriage, lamp and battery to closed or open switch positions.

2,312,306
INDICATOR OR RELAY SYSTEM
Rudolph A. Bierwirth, Haddon Heights, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application July 28, 1939, Serial No. 287,039
4 Claims. (Cl. 179—171)



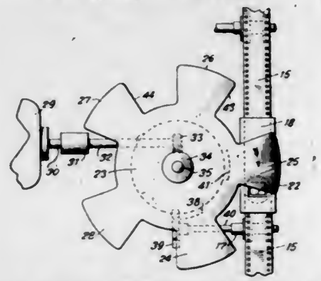
1. An electronic relay comprising a plurality of vacuum tubes, a source of energizing voltage for said tubes, a gaseous voltage limiting tube connected to said source for maintaining constant the amplitude of the voltage applied to one of said tubes so long as said source voltage exceeds the breakdown voltage of said limiting tube, impedance means in series circuit with said limiting tube for producing a voltage difference only as long as said limiting tube is operating, means for utilizing said voltage difference to energize the other vacuum tube so that said other tube becomes inoperative when said source voltage is no longer controlled by said limiting tube, and indicator means in operative circuit connection with said other tube.

2,312,307
HYDROMETER
Roswell W. Blanchard, Fitchburg, Mass., assignor to E. Edelmann & Co., Chicago, Ill., a corporation of Illinois
Application November 16, 1939, Serial No. 304,853
3 Claims. (Cl. 265—45)



1. A hydrometer comprising a casing body having a liquid container portion and provided with a viewing opening at one side above said portion, a liquid intake connection to said casing body opening into the liquid container portion, a float swingably mounted in the liquid container portion and responsive to a test quantity of liquid at a predetermined level, an indicating scale visible through the viewing opening, an indicating pointer swingably mounted and having an indicating end movable adjacent to the indicating scale, means normally exerting force to swing said indicating pointer to an inoperative position, a mechanical movement connection between the float and the indicating pointer for swinging said pointer over the indicating scale as the height of flotation of the float changes due to variations in the specific gravity of a test quantity of liquid at the predetermined level in the container portion of the body, a suction bulb connected with said casing body at the top thereof in communication with the liquid container portion, and valve means actuated by the test quantity of liquid upon attainment of the desired level of liquid in the container portion closing off said suction bulb.

2,312,308
MOTION PICTURE PROJECTION MACHINE
Ewald Boecking, Great Kills, Staten Island, N. Y.
Application December 30, 1939, Serial No. 311,756
12 Claims. (Cl. 88—18)

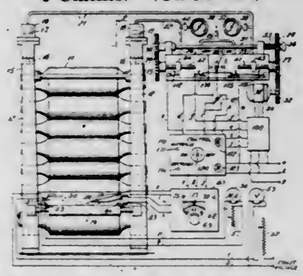


1. In a motion picture projection apparatus adapted to eliminate inherent and stroboscopic flicker when projecting pictures at the standard projection rate of 24 frames per second and with a source of alternating power current having a frequency of 60 cycles per second or other multiples of half that frequency, which comprises, an intermittent for feeding the film, a light beam intercepting shutter synchronized with the power current to operate at 60 shutter cycles per second, means for projecting a beam of light having a pulsation frequency which is a multiple of half the 60 cycle frequency and in synchronism with the power current, and means for driving said intermittent to pull down the film on two of each five light beam interceptions of the shutter.

2,312,309
PROCESS FOR APPLYING LACQUER FILM HAVING A FLAT FINISH
Charles Bogin and Herbert L. Wampner, Terre Haute, Ind., assignors to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland
No Drawing. Application May 15, 1940, Serial No. 335,324
3 Claims. (Cl. 117—168)

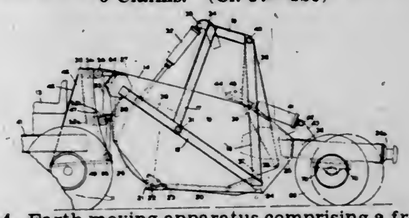
1. The process of forming a nitrocellulose lacquer film with a flat finish comprising applying the lacquer to a base while the lacquer is hot and at a temperature substantially above atmospheric temperature but below a temperature at which excessive decomposition of the lacquer occurs due to heat, the lacquer containing carnauba wax in an amount ranging from approximately 0.3 per cent to approximately 1.1 per cent based on the weight of the solid constituents of the lacquer, which is substantially completely soluble in said lacquer at said application temperature but in excess of that which is soluble in said lacquer at atmospheric temperature, the said amount of wax being below that required to produce the same degree of flattening with the same lacquer when applied at atmospheric temperature, such an amount of carnauba wax not substantially delaying the drying and hardening of said lacquer film.

2,312,310
PAPERMAKING
Donald B. Bradner and George C. Munro, Hamilton, Ohio, assignors to The Champion Paper and Fibre Company, Hamilton, Ohio, a corporation of Ohio
Application March 1, 1939, Serial No. 259,154
6 Claims. (Cl. 92—75)



1. Apparatus for producing paper having substantially uniform gloss which comprises in combination a calender, means including a motor for varying the gloss producing capacity of said calender, means including a photoelectric cell for detecting deviations from a predetermined value of the gloss on the paper as it passes from the calender, and an automatic electric relay circuit controller electrically connected to said photoelectric cell and to said motor to operate said motor in response to variations in the output of said photoelectric cell to increase the gloss producing capacity of the calender when the gloss on the paper falls below said predetermined value and to decrease the gloss producing capacity of the calender when the gloss on the paper exceeds said predetermined value.

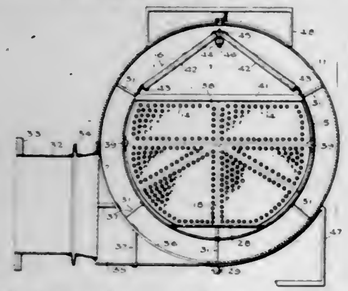
2,312,311
SCRAPER
Stewart F. Armington, Willoughby, and George E. Armington, South Euclid, Ohio, assignors to The Euclid Road Machinery Company, Euclid, Ohio, a corporation of Ohio
Application December 21, 1940, Serial No. 371,192
6 Claims. (Cl. 37—126)



4. Earth moving apparatus comprising a frame, two wheels supporting said frame, said wheels being spaced one at each side of said frame toward the rear end thereof and rotatable about an axis extending transversely of said frame, a power

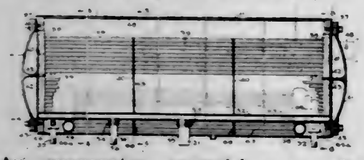
unit mounted at the forward end of said frame and having a drive connection with said wheels, a digging scoop open at its forward end, there being a connection between the forward end of said scoop and the rear end of said frame providing relative movement between said scoop and frame in a substantially vertical direction and substantially preventing all other relative movement between them, means for causing relative movement between said scoop and frame to raise and lower said scoop, and steerable wheel means supporting said scoop at its rear end.

2,312,312
EVAPORATOR
Walter E. Beline, Englewood, N. J., assignor to York Ice Machinery Corporation, York, Pa., a corporation of Delaware
Application October 17, 1941, Serial No. 415,476
13 Claims. (Cl. 62—126)



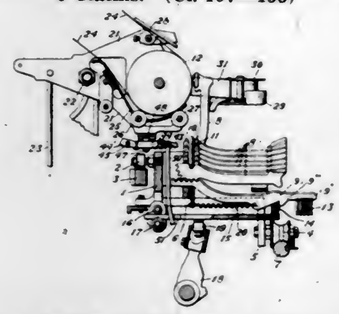
4. An evaporator comprising in combination an elongated generally cylindrical trough open at its top; a surface heat exchanger in the trough; a connection for supplying volatile liquid to said trough; a cylindrical enveloping shell enclosing the trough and forming therewith offtakes which lead from the top of the trough down both sides between trough and shell, said offtakes extending substantially the entire length of the trough; means associated with said shell and forming an outlet chamber of larger cross-section than either offtake and communicating with both offtakes through approximately half the length of the shell; and an outlet connection leading from said chamber.

2,312,313
EVAPORATOR
Walter E. Beline, Englewood, N. J., assignor to York Ice Machinery Corporation, York, Pa., a corporation of Delaware
Application October 17, 1941, Serial No. 415,477
15 Claims. (Cl. 62—126)



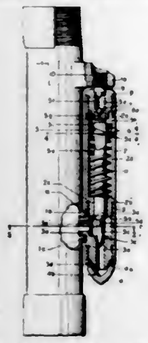
4. An evaporator comprising an elongated trough open at its top; a surface heat exchanger in the trough; an enveloping shell enclosing the trough and forming therewith an offtake which leads from the top of the trough down one side beneath and up the other side thereof, said offtake extending substantially the entire length of the trough; a second surface heat exchanger in said offtake; connections for supplying a volatile liquid to said trough; and separate connections for passing different heat conveying fluids through the respective heat exchangers.

2,312,314
RIBBON SHIFTING MECHANISM
Lucian Emmanuel Bordonaro, Rochester, N. Y., assignor to American Telephone and Telegraph Company, a corporation of New York
Application February 14, 1941, Serial No. 378,912
6 Claims. (Cl. 197—158)



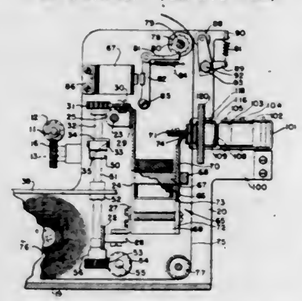
1. In a typing mechanism, a platen, typing means to type characters against said platen, said platen and typing means being movable longitudinally with respect to each other as successive characters are printed, a type ribbon, means to gradually feed said ribbon longitudinally with respect to the point at which the type strikes said platen, a longitudinal member lying parallel to said platen, said member having a tapered surface, and lever means riding upon said tapered surface to gradually shift said ribbon in a vertical plane as said platen and typing means move with respect to each other during the printing of each line of characters, thereby spreading the wear of the ribbon due to the impact of printing over a wider area thereof.

2,312,315
DIFFERENTIAL STAGE LIFT FLOW DEVICE
Alexander Boynton, San Antonio, Tex.
Application December 8, 1939, Serial No. 308,319
15 Claims. (Cl. 137—111)



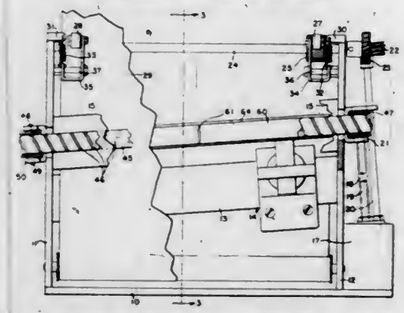
1. A well flowing device of the character described including a tubular valve body having a valved passageway in the wall thereof including an inlet and an outlet for admission of pressure fluid from the exterior to the interior of the body, a chamber in alignment with the passageway, a piston slidable in said chamber, a valve carried by the piston, means normally urging said valve to open position, there being openings in the chamber to admit pressure fluid tending to overcome said last mentioned means, and means for admitting pressure fluid to the passageway at a reduced pressure, said valve and passageway being cooperatively contoured whereby pressure fluid is automatically metered to the interior of the valve body.

2,312,316
FACSIMILE PAGE PRINTER
Charles W. Burcky, Park Ridge, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application September 20, 1941, Serial No. 411,666
11 Claims. (Cl. 178—11)



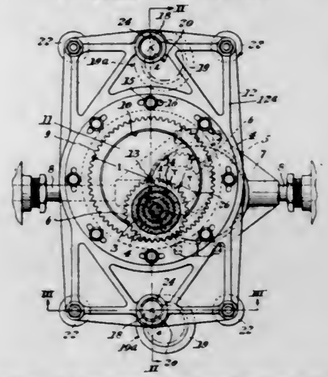
1. In a facsimile telegraph system, a transmitter, a receiver including a signal responsive speaker motor translatable across one face of a web of paper, a scanning tape translatable across the opposite face of said web of paper and adapted to cooperate with said motor to effect printing, means for depositing marking material on said tape, and means for driving said tape and said motor translating means in synchronism with said transmitter, whereby a printed record is made on said web in accordance with the vibratory response of said motor to received signal impulses.

2,312,317
FACSIMILE PAGE PRINTER
Charles W. Burcky, Park Ridge, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application September 20, 1941, Serial No. 411,667
13 Claims. (Cl. 178—11)



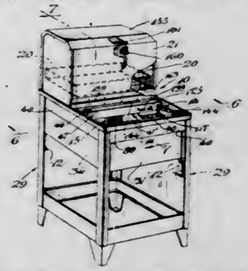
1. In a facsimile printing telegraph apparatus, the combination of a pair of continuously moving ridged tapes, means for driving said tapes continuously on opposite sides of a record web, and signal responsive means for actuating one of said tapes to pinch the web between it and the other tape for effecting printing.

2,312,318
MOTION CONVERSION MECHANISM
William J. Culbertson, Brocton, Ill.
Application October 17, 1941, Serial No. 415,384
9 Claims. (Cl. 74—52)



1. Motion conversion mechanism, comprising a crankshaft supported on bearings, a crank pin on a crank arm of said crankshaft, a sleeve rotatably mounted on said crank pin, an eccentric sheave and a pinion rigidly fixed to said sleeve, a strap operatively mounted on said eccentric sheave, the eccentricity of the eccentric sheave on the crank pin being equal to the throw of the crank arm, the pitch diameter of said pinion being greater than twice the throw of the crank arm, an internal gear having a pitch diameter twice the pitch diameter of said pinion and maintained in mesh therewith, means for rotating the center point of said internal gear about the axis of the crankshaft in the same direction and at the same angular velocity as the crank pin, and means for maintaining any diameter of said internal gear parallel to itself in all positions of the crank movement.

2,312,319
APPARATUS FOR WASHING GLASSES AND THE LIKE
Vincent W. Cunningham, deceased, late of Chicago, Ill., by Thomas H. Corbett, administrator, Chicago, Ill.
Application March 21, 1941, Serial No. 384,512
20 Claims. (Cl. 15—76)



17. In a machine for scrubbing and rinsing glasses, a tank-like open-top base section, a rinse compartment resting upon a rear portion of said base section so as to cover said rear portion, division wall means within said base section dividing said base section into three compartments, one of which constitutes a washing compartment extending rearwardly beneath a portion of said rinse compartment, another of which constitutes a flushing compartment hav-

ing an open-top portion located forwardly of said rinse compartment, and the other of which constitutes a drive compartment located beneath said rinse compartment, a rotatable glass scrubbing unit mounted in said washing compartment beneath said rinse compartment, a drive motor mounted in said drive compartment and operatively connected to said scrubbing unit to drive the same, and means operable to removably hold said rinse compartment in position on said base section.

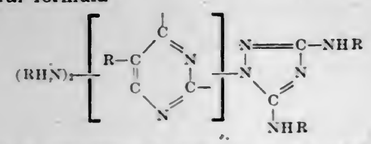
2,312,320

RESINOUS PRODUCT OF ALDEHYDES AND GUANAZO DIAZINES

Gaetano F. D'Alelio and James W. Underwood, Pittsfield, Mass., assignors to General Electric Company, a corporation of New York

No Drawing. Application September 27, 1941, Serial No. 412,692
19 Claims. (Cl. 260—42)

1. A composition of matter comprising the reaction product of ingredients comprising an aldehyde and a compound corresponding to the general formula



where R represents a member of the class consisting of hydrogen and monovalent hydrocarbon and halo-hydrocarbon radicals.

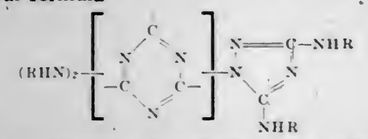
2,312,321

REACTION PRODUCT OF ALDEHYDES AND GUANAZO TRIAZINES

Gaetano F. D'Alelio and James W. Underwood, Pittsfield, Mass., assignors to General Electric Company, a corporation of New York

No Drawing. Application September 30, 1941, Serial No. 413,006
18 Claims. (Cl. 260—42)

1. A composition of matter comprising the reaction product of ingredients comprising an aldehyde and a compound corresponding to the general formula



where R represents a member of the class consisting of hydrogen and monovalent hydrocarbon and halo-hydrocarbon radicles.

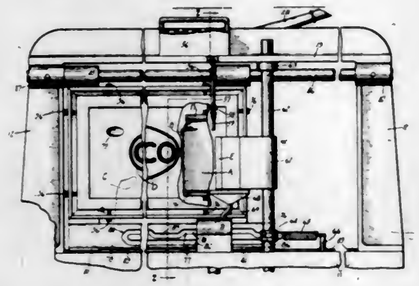
2,312,322

PRINTING MACHINE

Elof E. Dalton, Berwyn, Ill., assignor to American Can Company, New York, N. Y., a corporation of New Jersey

Application April 19, 1940, Serial No. 330,606
5 Claims. (Cl. 101—124)

1. A machine for printing on cylindrical containers, comprising a fabric screen carrying a design to be printed, means for supporting a container to be printed adjacent said screen, means for positively rotating said container supporting means, devices actuated by said container rotating means for moving said screen along a predetermined path of travel past said rotating container in one direction on a printing stroke and in a reverse direction on a return stroke, paint applying means for depositing printing paint on said moving screen, a stationary squeegee adjacent said screen for pressing the latter against the container while spreading the paint on the screen and for wiping the paint through the design portion of the screen onto the container as



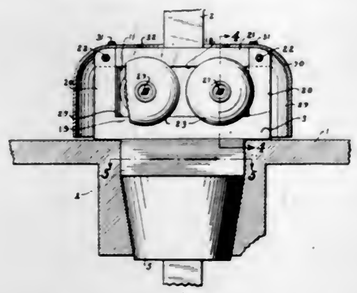
the design portion comes adjacent the container wall on the printing stroke of the screen, and mechanism for shifting said squeegee away from said screen to clear the container on the return stroke so that smearing of the printing on the container will be prevented, there being means present to shift said squeegee transversely of said screen to avoid contact with projections on said container.

2,312,323

ROLLER DRIVE FOR KELLY JOINTS

Oscar L. Derrick, Wichita Falls, Tex., assignor of five-twelfths to D. Houston Bolin, and four-twelfths to Henry L. Rugely, both of Wichita Falls, Tex.

Application January 30, 1940, Serial No. 316,423
10 Claims. (Cl. 308—6)



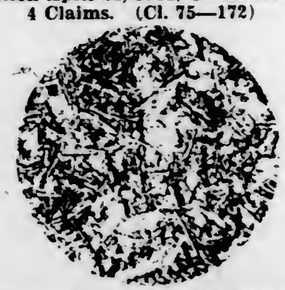
9. A guide bushing for a drill stem comprising a body having an opening therein for receiving the drill stem, said body having upstanding sides thereon, each having a pair of laterally spaced posts, a connecting bar extending between the upper ends of the posts of each pair and cooperating with the side and posts to form a slot in the side extending transversely of the axis of the body between the posts, a pair of rollers having the opposite ends thereof mounted in the slots and slidable therein toward and from each other for receiving therebetween the drill stem, and means for securing said rollers in adjusted positions relative to each other.

2,312,324

OSMIUM COMPOSITION

Andrew R. Devereux, Chicago, Ill., assignor to Goldsmith Bros. Smelting & Refining Company, a corporation of West Virginia

Application April 21, 1941, Serial No. 389,638
4 Claims. (Cl. 75—172)



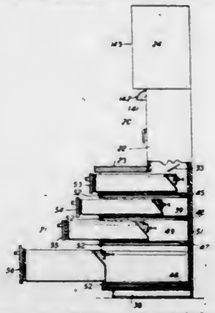
1. An osmium alloy consisting predominantly of an osmium-rich phase in the form of acicular crystals in interlaced arrangement held together by a matrix consisting essentially of platinum metal, the matrix being characterized by the absence of isolated masses of matrix.

2,312,325

CLOSURE MEMBERS

Guyon L. C. Earle, Forest Hills, N. Y., assignor to Genevieve M. Earle, Forest Hills, N. Y.

Application February 10, 1940, Serial No. 318,223
5 Claims. (Cl. 45—7)



1. A drawer structure comprising a framework adapted to move within a compartment, said framework having a front wall, a back wall and two side walls but having an open bottom, means within said compartment for movably supporting said framework, a track member supported in said compartment under said framework but separated therefrom, and a rack or tray member supported partially from said framework at the front portion thereof and partially from said track member at the rear portion of the rack or tray, said track member sloping downwardly and rearwardly in at least the rear portion thereof.

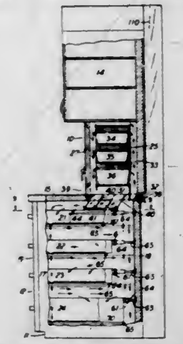
2,312,326

REFRIGERATOR

Guyon L. C. Earle, Forest Hills, N. Y., assignor to Genevieve M. Earle, Forest Hills, N. Y.

Application November 9, 1940, Serial No. 365,029
5 Claims. (Cl. 62—89)

1. In a refrigerator having a lower deep refrigerated portion and an upper set-back refrigerated portion, an evaporator in said upper portion, a deflecting means having spaces between portions thereof to deflect a portion of the cold air from said evaporator to the front part of said lower portion and to allow another portion of said cold air to pass through the



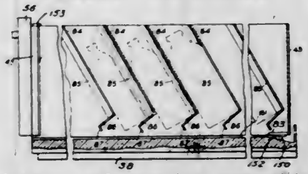
spaces in said means to cool the rear part of said lower portion, and a container, said deflecting means having guide means to conduct the water of defrosting into said container.

2,312,327

ARTICLE RACK

Guyon L. C. Earle, Forest Hills, N. Y., assignor to Genevieve M. Earle, Forest Hills, N. Y.

Original application February 10, 1940, Serial No. 318,223. Divided and this application January 16, 1941, Serial No. 374,630
7 Claims. (Cl. 211—74)



1. A drawer rack member comprising front, back and side walls but having an open bottom, and a plurality of supporting members for bottles and similar articles, said members having portions which are disposed in generally parallel relation in the space bounded by said walls, each of some of said supporting members comprising a long inclined portion adapted to support a side of a bottle or similar article and a shorter portion integral therewith positioned to extend rearwardly at an angle to said long inclined portion and terminating short of the inclined portion of an adjacent supporting member to support the bottom of another bottle or similar article a side of which is supported by the inclined portion of said adjacent supporting member.

2,312,328

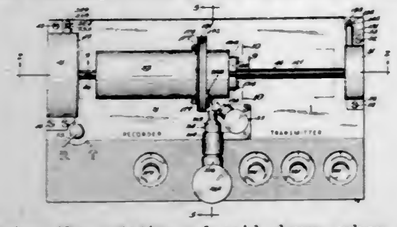
DUPLEX SYSTEM

William G. H. Finch, Newtown, Conn.

Application July 12, 1940, Serial No. 345,194
5 Claims. (Cl. 178—6.6)

1. A duplex facsimile apparatus comprising a drum, a fixed light beam scanning member for translating the light and shades of a picture into corresponding electrical currents, said drum being rotatable and axially movable with respect to said light beam scanning member, means for transmitting said currents, a recording stylus scanning member, means for driving said recording stylus scanning member about the circumference of said drum and in a fixed plane normal

to the axis of said drum, means for impressing received facsimile signals upon said stylus, means for axially displacing said drum with respect to each scanning member, and means for selectively



causing the rotation of said drum when said apparatus is in operation as a transmitter, and locking said drum against rotation when said apparatus is in operation as a recorder.

2,312,329

SYNTHETIC MOUNTING MATERIAL FOR MICROSCOPIC SPECIMENS

William D. Fleming, Edgewood, Md.

No Drawing. Application November 17, 1939, Serial No. 304,940

7 Claims. (Cl. 260—67)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A process for producing a synthetic mounting for microscopic media comprising reacting naphthalene and formaldehyde within a temperature range of −10° C. to 60° C. and in the presence of an acid catalyst, the reaction being initiated at −10° C. and slowly raised over a certain time interval to 60° C., purifying the reaction product with successive alkali and alcohol washes to remove occluded acids, naphthalene and water and under temperature conditions to prevent the formation of highly colored products, and then dissolving the purified product in a normally liquid aromatic solvent to produce a neutral resinous compound inert with respect to microscopic stains and having a refractive index higher than that of either Canadian balsam or the gum dammars.

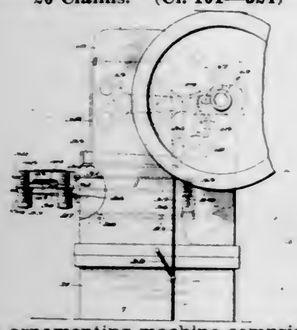
2,312,330

ORNAMENTING MACHINE

Benjamin W. Freeman, Cincinnati, Ohio, and Frederick Stuart Knight, Brockton, Mass.; said Knight assignor to said Freeman

Application March 25, 1938, Serial No. 198,120

20 Claims. (Cl. 101—324)



1. An ornamenting machine comprising a bed, a pressure applying plunger, a die unit mounted for movement into operating position with respect to said plunger, a work support movable with said die unit, means on said support for aligning a work piece relative to said die, and resiliently mounted means to apply a marking medium to said die, located for interposition between said die unit and said work support during movement of said die unit.

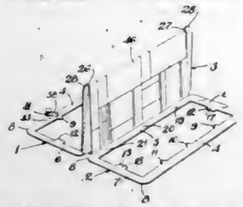
2,312,331

SUPPORTING FRAME FOR RECORD SHEETS

Benjamin H. Freedman, Asbury Park, N. J.

Application February 27, 1941, Serial No. 380,862

7 Claims. (Cl. 282—29)



4. The combination of an intervening imperforate plate and two border forming frame plates hinged to one another along adjacent edges for a record sheet folded in half with its folded edge engaging one edge of the intervening imperforate plate and the border forming frame plates engaging edges of the record sheet to secure it in place on said intervening plate, the border forming frame plates parallel to one another to form enclosed openings parallel to one another, the free edge of the intervening plate opposite to its hinged edge terminating just inwardly of adjacent inner edges of said border forming frame plates to form a space between the folded edge of the record sheet and said adjacent inner edges of said border forming frame plates, and lips extending inwardly from the edges of said border forming frame plates adjacent to the free edge of said intervening plate to engage the sheet covered over the edge of said intervening plate in closed position of said plates.

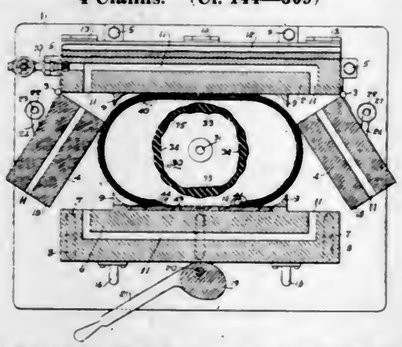
2,312,332

VENEER MOLDING PROCESS

Clarence U. Gramelspacher, Jasper, Ind.

Application August 11, 1939, Serial No. 289,697

4 Claims. (Cl. 144—309)



1. Apparatus for shaping a plurality of forming individual flexible sheets of wood into an article of predetermined configuration comprising an outer mold adapted to have the sheets disposed therewithin in a form approximating the desired outer form of the completed product, and hold it against expanding outwardly and an inflatable member within the sheets positioned in said outer mold and adapted to exert forming pressure outwardly against said sheets, said inflatable member having walls of varying thickness and disposed with the thickness of the walls inversely proportional to the extent of expansion required in order to exert evenly distributed forming pressure, on the portions of the sheets located at different distances from the center of the article to be formed, and means to expand said inflatable member.

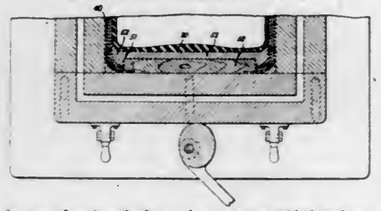
2,312,333

VENEER MOLDING PROCESS

Clarence U. Gramelspacher, Jasper, Ind.

Original application August 11, 1939, Serial No. 289,697. Divided and this application July 15, 1940, Serial No. 345,533

2 Claims. (Cl. 144—309)



1. A method of forming an article from individual sheets of wood, wherein the article has an irregular surface having sharp inward edges comprising disposing the sheets with adhesive between adjoining surfaces within a mold of approximately the desired form, inserting a baseboard having irregularly shaped side edges, so shaped as to conform to the said irregular surface of said sheets and inserting on the inside of the assembled sheets and baseboard a member having a smooth inner face and an opposite outer face shaped to correspond with the irregular face of the article, inserting an expansible member inwardly of said article, admitting a fluid under pressure to said expansible member to thereby expand the same against said first named member and the inside surfaces of said sheets and to exert forming pressure outwardly upon said sheets, and maintaining the fluid pressure until the adhesive between said sheets sets.

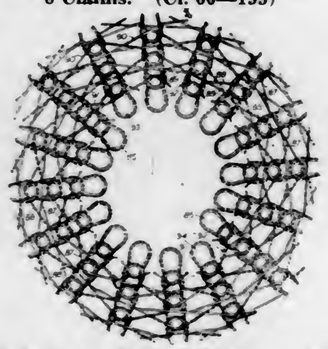
2,312,334

PRODUCTION OF KNITTED FABRICS

Albert Fairholme Guyler, William Henry Boaler, and William Ewart Stanley, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware

Original application January 29, 1941, Serial No. 376,432. Divided and this application August 19, 1941, Serial No. 407,398. In Great Britain February 3, 1940

8 Claims. (Cl. 66—195)



1. Tubular warp-knitted fabric comprising a large number of warp threads knitted together in at least two continuous helical series of stitches, the repeated knitting of each stitch into a preceding stitch forming a large number of wales crossing said helical series, each warp thread being confined to a few of said wales and passing from one wale to another between successive stitches into which said thread is knitted.

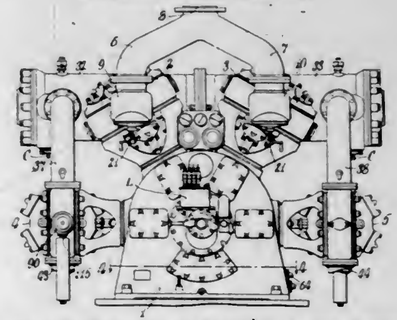
2,312,335

COMPRESSOR

Frank A. Halleck, Michigan City, Ind., assignor to Sullivan Machinery Company, a corporation of Massachusetts

Application April 24, 1939, Serial No. 269,610

8 Claims. (Cl. 230—26)



1. In combination, in a pump, a crankcase rotatably supporting a horizontal crankshaft having a single crankpin, a low pressure cylinder supported by said crankcase in a position with its axis making a substantial angle with the horizontal, a low pressure piston in said low pressure cylinder operatively connected with said crankpin, a high pressure cylinder supported by said crankcase with its axis making a substantial angle with the plane which includes the axis of rotation of said crankshaft and the axis of the low pressure cylinder, a high pressure piston in said high pressure cylinder operatively connected with said crankpin, and an intercooler supported by said cylinders and including a casing extending horizontally and substantially wholly in horizontal planes above the lowermost point in said low pressure cylinder whereby a driving motor for said crankshaft may have its casing supported by said crankcase above the bottom of the latter and below said intercooler.

2,312,336

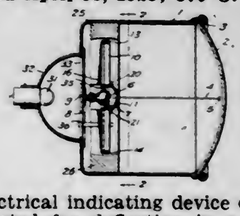
INDICATING DEVICE

Theodore B. Holliday, Dayton, Ohio

Application April 16, 1941, Serial No. 388,821

9 Claims. (Cl. 177—327)

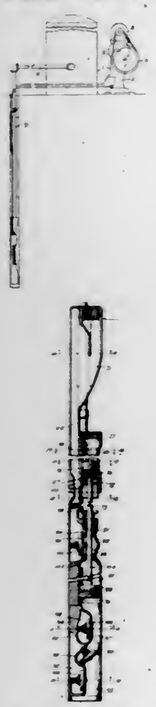
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. An electrical indicating device comprising a pointer pivoted for deflection in a plurality of planes, and a plurality of electric motor means operable upon said pointer, each of said motor means

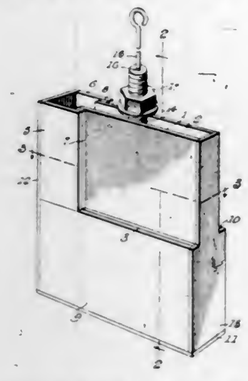
being capable of displacing said pointer in one of said planes to a degree proportional to the amount of energization of said motor means.

2,312,337
HYDRAULIC WELL PUMP
Leigh E. Hughes, Indianapolis, Ind.
Application January 29, 1940, Serial No. 316,128
6 Claims. (Cl. 103—44)



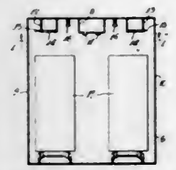
1. A compact, well bore receivable and submersible combination pressure liquid operable motor and liquid pump of double acting character including an upper cylinder, a power piston therein alternately subject to pressure liquid and at opposite ends for piston reciprocation, a second cylinder therebeneath and in longitudinal alignment therewith, a piston therein, a single rod rigidly connecting the adjacent ends of said pistons for second piston reciprocation with and by the first piston for pumping purposes, and a pair of pressure fluid supplying conduits each connected at its lower end to an end of the first mentioned cylinder for alternately supplying pressure thereto, a pump discharge pipe between the supply conduits and having nested relation therewith, an elongated, unitary pump structure suspended therefrom and in operative communication with the discharge pipe and mechanically including the second mentioned cylinder, an elongated discharge chamber in the upper end of the unitary pump structure and communicating with the discharge pipe and offset laterally of the second mentioned cylinder, opposite ends of the latter discharging to the chamber, a check valve for each pump cylinder discharge, an intake chamber beneath the pump cylinder and also communicating with each end thereof, and a check valve for each intake communication, the several valves being superposed relative to each other, and each having its axis non-parallel to the rod axis, the check valves of the lower cylinder end being positioned between the check valves of the upper cylinder end, the intake check valve of each being below the discharge check valve, the check controlled intake to the upper cylinder end lying parallel to the check controlled discharge from the lower cylinder end for an appreciable portion of their respective lengths.

2,312,338
ANCHOR BOLT INSERT
John Frederic Hulme, United States Army
Application September 24, 1941, Serial No. 412,113
2 Claims. (Cl. 72—105)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



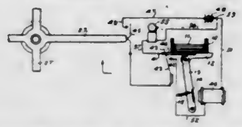
1. An insert adapted to be embedded in a supporting medium, comprising an elongated channel shaped member having side walls and end walls, said side walls having upper and lower portions, said upper portion being vertically outwardly offset with respect to the remainder of said upper portion at one end, whereby a securing member may be inserted in said channel shaped member, said lower portion being in the plane of said outwardly offset end of said upper portion, all the components of said side and end walls being in planes perpendicular to the base of said channel shaped member, and said end walls being shaped to conform to the cross-section of said channel member.

2,312,339
SMOKEHOUSE APPARATUS
Robert Leslie Jones, Evanston, Ill., assignor to Carrier Corporation, Syracuse, N. Y., a corporation of Delaware
Application December 23, 1938, Serial No. 247,415
6 Claims. (Cl. 99—259)



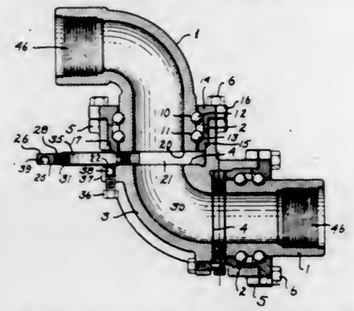
5. In a combination of apparatus for smoking food products, means forming a smokehouse enclosure, means including a supply passage and a plurality of heating elements for delivering to said enclosure air at a desired temperature, means for adding smoke to said air prior to its delivery from the passage to the enclosure, a supply duct at the ceiling of the enclosure for receiving air and smoke from the passage, nozzles in the bottom of said duct, means for discharging said air and smoke within said enclosure from said nozzles in a plurality of streams directed downwardly to the floor level of said enclosure from the ceiling level thereof, means for withdrawing air and smoke from said enclosure at a plurality of points substantially at the same level at the ceiling as the nozzles, and means for varying the condition of air delivered to the enclosure.

2,312,340
CHECK CONTROLLED AND DISPENSING TURNSTILE AND OTHER DEVICE
Howard M. Kilpatrick, New York, N. Y.
Application March 10, 1938, Serial No. 195,188
16 Claims. (Cl. 177—311)



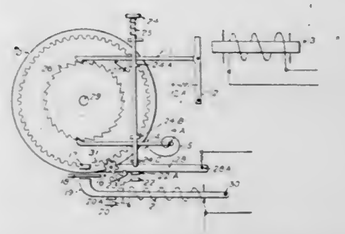
1. In combination, a signal means; a sensing means remote from the signal means adapted to sense the passage of a person; a check presenting means adapted to hold a check in position to be removed; and means cooperating with the signal and presenting means, a check when in said position and said sensing means during said sensing, to automatically cause said signal to operate.

2,312,341
PACKED SWIVEL JOINT
Walter E. King, Houston, Tex.
Application March 4, 1939, Serial No. 259,745
7 Claims. (Cl. 285—97.8)



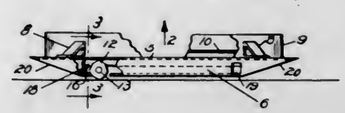
1. A swivel pipe or hose joint comprising a female conduit section having an enlargement in the end of the bore forming a shoulder therein, a male conduit section extending into said enlargement, bearing means between the male conduit section and the inner walls of said enlargement to swivelly connect said sections with the end of the male section and said shoulder in spaced parallel relation, a slot through the wall of the female member to form a passage to the groove defined by the bottom of the enlargement and the end of the male conduit section, and a seal assembly insertable into said slot groove to form a seal between the sections about the bore therethrough.

2,312,342
ZEROIZING MECHANISM
Walter B. Lang, Washington, D. C.
Application September 5, 1940, Serial No. 355,468
1 Claim. (Cl. 235—144)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



A reset mechanism for a counterwheel including an electro-magnet and plate closely adjacent the counterwheel, the said plate being disposed directly under the center of the counterwheel, an iron counterweight near the periphery of the counterwheel and tending to rotate the wheel by gravity, and manually operable means for closing an electrical circuit to energize the electro-magnet and cause the electro-magnet to strike the said plate to vibrate the counterwheel to assist the action of gravity on the counter-weight and rotate the wheel until the counter-weight is over or closely adjacent the said plate and within the magnetic field set up by the said plate when it is struck by the said electro-magnet, whereby the said counter-weight is caused to be moved by magnetic attraction into its lowermost position and closest to the said plate and thus bring the counterwheel to its actual zero position.

2,312,343
VIBRATING SCREEN
Mark Lintz, San Francisco, Calif.
Application February 1, 1941, Serial No. 377,019
6 Claims. (Cl. 209—330)



1. A device of the character disclosed comprising a free-floating non-cylindrical roller having trunnions and having two annular grooves positioned intermediate the trunnions, a plate carried upon the roller and having downwardly and inwardly turned edges positioned to embrace the trunnions, said downwardly and inwardly turned edges forming, together with the bottom of the plate, elongated channels of greater width than the diameter of the trunnions through which the journals of the roller may travel, said edges being beveled upwardly at opposite ends, guide means on the plate positioned to engage the grooves in the roller, a screen element carried upon the plate, and resilient brackets on the plate in a position to hold the screen removably, the surface of the roller projecting downwardly beyond the inwardly turned edges so as to engage a supporting surface.

2,312,344

POLYHYDRIC ALCOHOLS OF THE ETIOCHOLANE AND PREGNANE SERIES AND THE MANUFACTURE THEREOF

Willy Logemann, Berlin-Charlottenburg, Germany, assignor, by mesne assignments, to Schering Corporation, Bloomfield, N. J., a corporation of New Jersey

No Drawing. Application July 10, 1937, Serial No. 153,002. In Germany July 14, 1936
16 Claims. (Cl. 260—348)

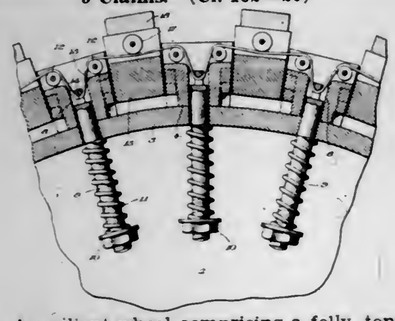
1. Process for the manufacture of polyhydric alcohols of the cyclopentano polyhydro phenanthrene series, comprising reacting a compound of the etio-cholane series having an unsaturated side chain on the carbon atom 17, with an agent capable of adding on an oxygen atom at a —C═C— group, and subjecting the reaction product to the action of a hydrolyzing agent.

2,312,345

WHEEL

Frank K. Loomis, New Paltz, N. Y.

Application November 1, 1941, Serial No. 417,548
5 Claims. (Cl. 152—20)



1. A resilient wheel comprising a felly, tension blocks secured upon the felly in spaced relation, tread blocks slidably engaged with the tension blocks and disposed between them to be limited in movement thereby, guide rollers mounted in the several blocks, a flexible endless connection trained over the rollers on the tension blocks and under the rollers on the tread blocks, and tension devices mounted in the felly and the tension blocks and engaged with the flexible connection between the rollers on the tension blocks.

2,312,346

METHOD OF PRODUCING FAST DYED PATTERNED PARCHMENTIZED FABRICS

Fritz Lorenz and Ernst Weiss, Wattwil, Switzerland, assignors to Heberlein Patent Corporation, New York, N. Y., a corporation of New York

No Drawing. Application June 22, 1939, Serial No. 280,518. In Germany July 1, 1938
3 Claims. (Cl. 8—62)

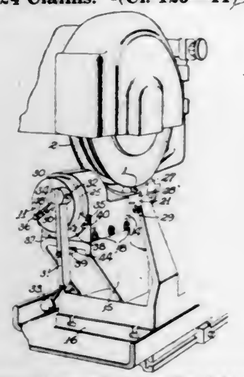
1. A process for the production in cellulosic textile fabrics, of locally colored pattern areas which are fast-dyed and which embody permanent parchmentized effects, said process comprising: pattern printing the fabric with a paste containing a parchmentizing swelling agent in solution and a water-insoluble dyestuff dispersed therein by the action of said agent, said swelling agent being present in such concentration as to impart permanent parchmentized effects to the fabric, and said dyestuff being selected from the group consisting of water-insoluble vat dyes and water-insoluble azo dyestuffs of the naphthol series; allowing said paste to remain on the fabric until a desired permanent parchmentization has been effected and the dyestuff has penetrated the fiber; and thereafter subjecting the fabric to treatment for removing said agent.

2,312,347

DRESSING DEVICE

Sern Madsen, Rockford, Ill., assignor to Mattison Machine Works, Rockford, Ill., a corporation of Illinois

Application January 4, 1941, Serial No. 373,083
24 Claims. (Cl. 125—11)



24. In a wheel dressing device having, in combination, a dressing tool, means supporting said tool for movement successively along tangent arcuate paths each described by rotation about predetermined centers, actuating means for said tool supporting means operable selectively to shift the tool movement successively from one center to the other, and means operable automatically to restrict the motion of the tool by said actuating means to the selected one of said centers.

2,312,348

FINISHING TEXTILE FABRICS

Warren C. Magill, Jeffersonville, Ind., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York

No Drawing. Application December 30, 1937, Serial No. 182,545
4 Claims. (Cl. 8—123)

4. A method of pre-shrinking and finishing cellulosic textile fabric, consisting in padding the material in a copper sulphate bath having a concentration of about 100 to 150 g. per liter, and passing the padded material through a solution containing approximately 125 to 175 g. per liter of caustic soda and about 100 g. per liter of aqua-ammonia, the temperature of the baths and the time of treatment being so controlled that the fibers are not substantially solubilized, washing the material, souring, rewashing and stentering.

2,312,349

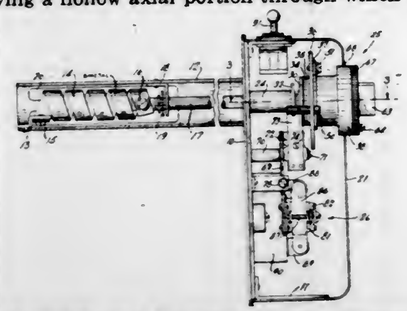
CONTROL DEVICE

Homer E. Malone, Milwaukee, Wis., assignor to Perfex Corporation, Milwaukee, Wis., a corporation of Wisconsin

Application October 3, 1940, Serial No. 359,509
16 Claims. (Cl. 200—138)

1. In a control device, an operating shaft rotatable in opposite directions, condition responsive means for rotating said shaft, a hub member on said shaft, control operating means actuated by said shaft, manual means on the shaft

for adjusting the control operating means, said adjusting means comprising an adjusting member coupled to the control operating means and having a hollow axial portion through which the



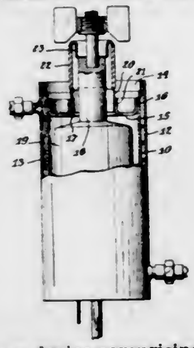
shaft passes, and a holding member secured to the shaft and extending axially within the hollow portion of the adjusting member for manually holding said shaft from rotation while said adjusting member is being adjusted.

2,312,350

DISCHARGE DEVICE

Donald E. Marshall, Allwood, and William J. Knochel, Irvington, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Original application September 26, 1940, Serial No. 358,474. Divided and this application April 18, 1942, Serial No. 439,574
3 Claims. (Cl. 250—27.5)



1. A discharge device comprising a closed tubular casing, an anode within said casing, a header forming a part of the closure for said casing, a collar secured vacuum tight to said header and likewise forming part of the closure, an insulative member carried by the last-mentioned member and having substantially the same coefficient of expansion thereas, and means closing the outer end of said insulative member and having a vacuum-tight seal therewith, said means supporting the anode and having a part thereof which under expansion moves the anode opposite to movement thereof due to expansion of the collar.

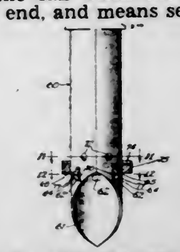
2,312,351

CAN OPENER SPOUT

Lawrence J. McCarthy, Maywood, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York

Application August 1, 1939, Serial No. 287,761
1 Claim. (Cl. 221—23)

As an article of manufacture, a spout comprising a tube having a sharp end adapted to cut into a can or the like, when said end is driven thereagainst, said tube having means projecting laterally outwardly therefrom for connecting said tube to the can when the latter is penetrated by said end, and means sealing the junc-



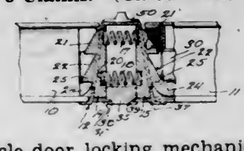
ture of said tube with the can when said tube is connected to the can, said projecting means including one or more integral tongues biasing said tube toward the interior of the can so as to promote the sealing action, said tube being transversely open at said tongues for drainage.

2,312,352

LOCKING MECHANISM FOR VEHICLE DOORS

Arnold P. Mickler, Orlando, Fla.

Application February 5, 1940, Serial No. 317,431
3 Claims. (Cl. 70—264)



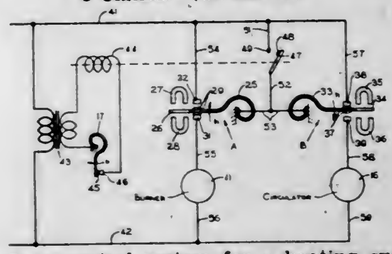
1. A vehicle door locking mechanism comprising, in combination, latching mechanism including a part fixedly carried by the door, a member carried by the door post adapted for interlocking engagement with said door part, means mounting said member for movement from a door part interlocking position to a retracted position, door carried means normally operative to actuate said member to retracted position, thereby to unlatch the door, and door locking means including a member mounted for vertical movement within the door post from an inoperative to an operative position in which it renders said door carried means ineffective to actuate the member as aforesaid.

2,312,353

CONTROL SYSTEM

Wayland R. Miller, Milwaukee, Wis., assignor to Perfex Corporation, Milwaukee, Wis., a corporation of Wisconsin

Application November 30, 1939, Serial No. 306,852
3 Claims. (Cl. 236—9)



3. In a control system for a heating system including a heater having fuel combustion means and fluid circulating means for circulating heating fluid to a space, the combination of, a first switch controlled in accordance with the demand

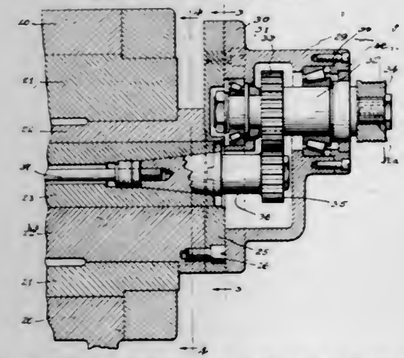
for heat in said space, a second thermostatic switch controlled in accordance with the heater, said second switch comprising a switch arm, a first contact engaged thereby when the heater temperature is below a predetermined low value and a second contact engaged by said switch arm when the heater temperature is above said predetermined low value, a third thermostatic switch including a switch arm and a contact engaged thereby when the heater temperature is below a predetermined high value, and connections between a source of power, said switches, said fuel combustion means and said circulating means, said connections providing a first energizing circuit for said fuel combustion means through said first and third switches and a second energizing circuit therefor through the first contact of said second switch, said connections also providing an energizing circuit for said circulating means through the first switch and the second contact of the second switch.

2,312,354

ATTACHMENT FOR MILLING MACHINES

Harold Norberg, Detroit, Mich., assignor to The Gordon-R-Company, Royal Oak, Mich., a corporation of Michigan

Application May 16, 1942, Serial No. 443,265
4 Claims. (Cl. 10—154)



1. In a planetary milling machine of the type having one concentrically mounted outer member and two eccentrically mounted members within the outer member and one within the other, means for increasing the external thread cutting capacity comprising a housing mounted to turn with the outer eccentrically mounted member, driving means in said housing, means connecting said driving means to said inner eccentric member whereby rotation of said inner member is imparted to said driving member, driven means in said housing connected to and spaced radially in relation to said driving means, and thread cutting means driven by said driven member and extending from said housing.

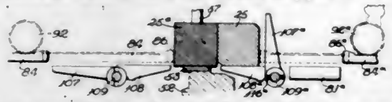
2,312,355

METHOD OF SCALPING BILLETS

Alexander Oberhoffken, Birmingham, Mich., assignor to The Ingersoll Milling Machine Company, Rockford, Ill., a corporation of Illinois

Original application July 21, 1938, Serial No. 220,467, now Patent No. 2,238,434, dated April 15, 1941. Divided and this application August 1, 1940, Serial No. 349,172
6 Claims. (Cl. 90—11)

1. The method of scalping billets which comprises supporting a billet on a work support with one of its longitudinal sides exposed, scalping said side, pushing said billet off from said support through the intermediary of a second billet while leaving the latter billet positioned on said support; scalping a side of the second billet, turning the first billet on its longitudinal axis to expose a different side thereof, pushing the second billet off from said support through



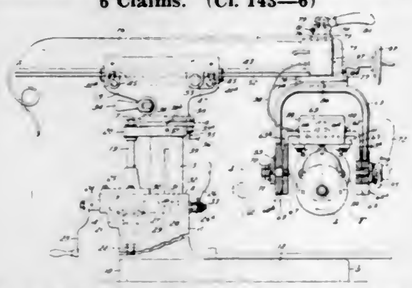
the intermediary of said first billet to position the latter on said support, scalping said other side of said first billet, turning the second billet on its longitudinal axis to expose a second side, pushing the first billet off from the support through the intermediary of said second billet and leaving the latter positioned on said support, and scalping the second side of the latter billet.

2,312,356

RADIAL SAW

William Ferdinand Ocenasek, Plainfield, N. J., assignor to Walker-Turner Co. Inc., Plainfield, N. J., a corporation of New York

Application August 31, 1939, Serial No. 292,827
6 Claims. (Cl. 143—6)



3. In a machine tool of the radial type the combination of a base member, a column rising therefrom; a laterally extending and longitudinally shiftable ram member at the top of the column; a two-armed yoke member having its pintle journaled in the ram at the forward end thereof, said yoke having its arms extending toward the base, a second two-armed yoke member revolvably supported within said first named yoke and having its arms pivotally connected to the arms of the first named yoke with the axis of said pivot horizontal and laterally offset from the bridge portion connecting said arms; means for detachably securing a power driven tool assembly to the bridge portion of said second yoke and in spaced relation with the arms thereof; clamp means for clamping said yokes in a preselected angularly adjusted position; and separate clamp means coacting with the pintle of said first named yoke and with the ram for clamping said first named yoke firmly to the ram as to be movable therewith as a single unit.

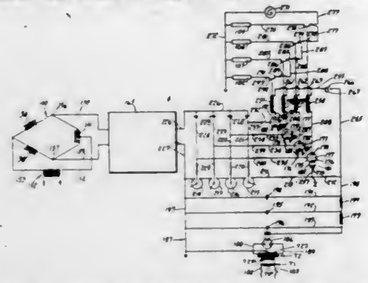
2,312,357

SORTING MACHINE

Harold T. Odquist, Yonkers, and Benjamin Shmurak, New York, N. Y., assignors to American Can Company, New York, N. Y., a corporation of New Jersey

Application March 2, 1940, Serial No. 321,990
7 Claims. (Cl. 209—88)

3. In a machine for sorting sheets in accordance with their thickness, the combination of an electric gauging device having an electric output comprising a variable alternating voltage the magnitude of which varies with the thickness of the sheet being gauged, electric instrumentalities including a plurality of thyratron tubes to the grids of which the said voltage output of said gauging



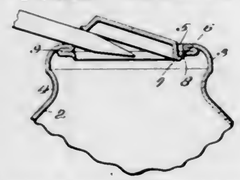
device is applied, and sorting elements connected with said thyratron tubes for sorting the sheets into respective thickness classifications, the thyratron tube selectively responding to the magnitude of the electric output imposed on its grid becoming conducting and actuating its corresponding sorting element for sorting a gauged sheet according to thickness.

2,312,358

METAL CONTAINER FOR BEVERAGES

William F. Punte, Syracuse, N. Y., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York

Application February 25, 1941, Serial No. 380,556
1 Claim. (Cl. 220—27)



A metal container for beverages comprising a seamless body and top formed from a single integral piece of metal, said top being cone-shaped and terminating in a nozzle having the end thereof closed, said closed end of the nozzle being shaped to provide an annular depression surrounded by a pouring lip, the metal in the bottom of the depression being thinned directly beneath the inner edge of the lip to facilitate rupturing and the pouring of the beverage over said lip when the ruptured part is removed, the wall surrounding the annular depression above the thinned portion being folded back upon itself beneath the top and into contact therewith to provide a rigid support to facilitate the rupturing of the metal at the thinned portion, and a bottom end seamed to the body portion for closing the same after filling.

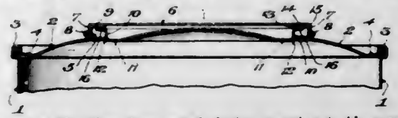
2,312,359

EASY OPENING CONTAINER

William F. Punte, Syracuse, N. Y., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York

Application April 9, 1941, Serial No. 387,763
2 Claims. (Cl. 220—27)

1. An easy opening container comprising a body, metal top and bottom ends hermetically joined thereto, said top end having a depression formed therein surrounded by a wall disposed at an angle to the bottom wall of the depression, the metal at the angle being thinned, said surrounding wall at the upper end thereof being folded



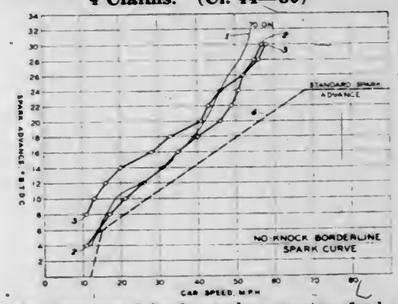
underneath the top end into contact therewith and back upon itself and into contact to form a rigid support for the surrounding wall beneath the same and a rigid fulcrum support for a tool used for rupturing and prying out the metal forming the bottom wall of the depression.

2,312,360

MOTOR FUEL

Thomas H. Risk, Highland Park, Lawrence M. Henderson, Winnetka, and Austin B. Wilder, Chicago, Ill., assignors to The Pure Oil Company, Chicago, Ill., a corporation of Ohio

Application December 15, 1939, Serial No. 309,458
4 Claims. (Cl. 44—80)



1. An improved hydrocarbon motor fuel comprising a base stock consisting substantially of saturated hydrocarbons boiling above 140° F. but within the gasoline range, and between approximately 5% and 25% by volume of addition agent, said agent consisting of olefinic hydrocarbons boiling within the approximate range of 100° F. to 140° F. and having an octane blending value of not substantially less than 110, the octane number of the base stock being such that an amount of addition agent within the aforementioned limits will produce a final motor fuel of not less than approximately 70 octane number.

2,312,361

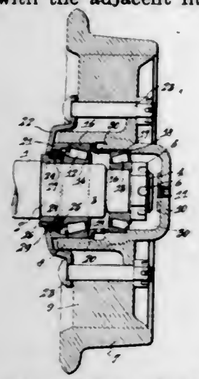
WHEEL

Hugh W. Sanford, Knoxville, Tenn., assignor to The Sanford Investment Company, Wilmington, Del., a corporation of Delaware

Application February 15, 1940, Serial No. 319,121
9 Claims. (Cl. 308—211)

1. The combination with an axle, of a wheel having a hub, at least two sets of anti-friction bearings between the hub and axle and spaced apart axially thereof, the outer set of anti-friction bearings being of smaller average diameter of rolling parts than the inner set, axle race means for the anti-friction bearings, hub race means for the anti-friction bearings, abutment means on the axle in abutting relation with the axle race means, restraining means at the inner end of the hub and having a portion in position for abutting relation with the hub race means, said hub race means including a spacing portion

having different outside diameters where in bearing relation with the adjacent hub race means



and coacting respectively with and separating the two sets of anti-friction bearings.

2,312,362

METHOD OF TACKIFYING SYNTHETIC RUBBER

Donald V. Sarbach, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application August 26, 1941, Serial No. 408,350
4 Claims. (Cl. 260—36)

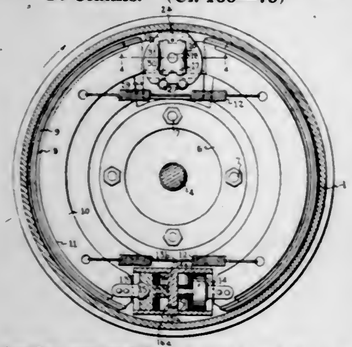
1. The method of imparting tack to an unvulcanized synthetic rubber prepared by copolymerizing a butadiene-1,3 hydrocarbon and an alpha-methylene nitrile, which comprises applying to the surface of the rubber a solution containing a volatile organic solvent and, dissolved therein, not over about 20% by volume of a naphthalene hydrocarbon containing at least one benzyl radical attached to a nuclear carbon atom in the naphthalene ring and at least one alkyl radical containing not more than 6 carbon atoms also attached to a nuclear carbon atom in the naphthalene ring, and allowing the solvent to evaporate.

2,312,363

VEHICLE BRAKE

Charles A. Sawtelle, Plymouth, Mich.

Application September 5, 1941, Serial No. 409,601
12 Claims. (Cl. 188—78)



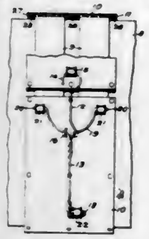
1. A brake comprising a brake drum, a pair of opposed brake shoes interiorly engageable with said drum, means associated with corresponding ends of said shoes for separatively actuating and applying them to the drum, a nut engaged between the other ends of said shoes, a torque-transmitting lever normally occupying a radial relation to the brake and mounting the nut and affording it sliding travel in a direction parallel to the brake axis, a screw rotatively carried by the lever and adapted to actuate the nut, fulcrum means engaged by an end of said lever, establishing a pivot axis parallel to the brake axis, said nut presenting divergent opposed faces to the shoes and said faces being similarly formed with shoe-engaging, torque-receiving areas and with shoe-engaging, torque-delivering areas located more remotely from said pivot axis than said receiving areas, and means holding the shoes normally yieldably retracted from the drum and in engagement with said areas of the nut, said shoes being free to alternatively undergo a limited advance with the drum, responsive to a torque imposed by the drum, and the lever being movable about its fulcrum from its normal radial position by such advance of either shoe, whereby the torque-delivering area of the nut is withdrawn from the advanced shoe and the torque-receiving area is withdrawn from the other shoe, and whereby said lever transmits a predetermined fraction of said torque from the advanced shoe to the other shoe.

2,312,364

GROMMET

Daniel F. Shepherd, United States Army, Richmond, Va.

Application August 26, 1941, Serial No. 408,336
1 Claim. (Cl. 102—1)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



A grommet for protecting the outer surface of cylindrical metal objects comprising a split ring having cushioning means secured to the inner perimeter thereof, a lever of flexible material formed with a central operating arm and laterally diverging arms having pivotal connection with one end of the ring substantially coextensive with the width of the ring, a link loosely connected with the lever at the juncture of the diverging arms and the operating arm, the opposite end of the link being loosely connected with the central portion of the other end of the ring, and means carried by the lever end of the ring into and out of engagement with which the lever arm is flexed to lock or unlock the lever.

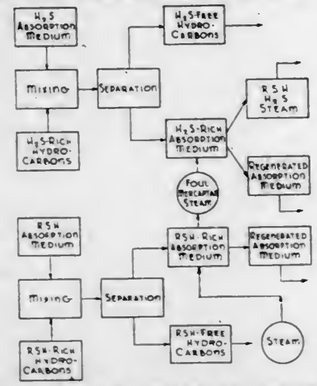
2,312,365

UTILIZATION OF FOUL STEAM FOR HYDROGEN SULPHIDE REMOVAL

William H. Shiffler, San Francisco, and Laverne P. Elliott, Berkeley, Calif., assignors to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware

Application December 9, 1940, Serial No. 369,230
10 Claims. (Cl. 196—30)

1. The process comprising mixing hydrocarbons containing mercaptans with an aqueous alkaline solution in order to remove said mercaptans from said hydrocarbons, separating the said hydrocarbons thus freed of mercaptans from said aqueous alkaline solution, regenerating said aqueous alkaline solution for further use in mercaptan absorption by steaming the same, passing the foul, mercaptan-containing steam to a hydrogen sulphide removal treatment wherein hydrocarbons



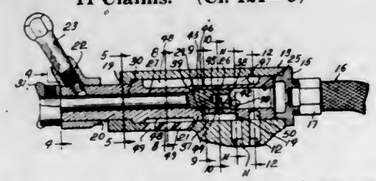
containing hydrogen sulphide are passed through an alkaline liquid absorption medium for hydrogen sulphide after which the hydrogen sulphide-freed hydrocarbons are separated from the absorption medium and the absorption medium is regenerated for re-use and employing said foul, mercaptan-containing steam from the mercaptan removal system to regenerate said hydrogen sulphide absorption medium.

2,312,366

CONTROLLING MECHANISM

Frank E. Sinclair, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts

Application July 23, 1940, Serial No. 346,938
11 Claims. (Cl. 121—9)



1. In a valve mechanism, in combination, a valve casing, a pair of ports opening into said casing, means including an adjustable valve operative in one position for connecting said ports respectively to pressure fluid supply and exhaust and operative in another position for reversing the connections to said ports, and means for regulating the amount of pressure fluid flowing to one of said ports when said valve is in one of its positions including means for establishing a communication and adjustably controlling the communication of said latter port with exhaust.

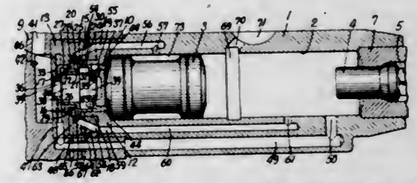
2,312,367

PRESSURE FLUID MOTOR

Elmer G. Gartin, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts

Application March 28, 1941, Serial No. 385,709
15 Claims. (Cl. 121—19)

1. In a pressure fluid motor, a cylinder having a bore, a piston reciprocable in said bore, and means for supplying pressure fluid to said cylinder bore to effect reciprocation of said piston including means providing a valve chamber, passage means connecting said valve chamber to the opposite ends of said cylinder bore, a pressure fluid supply communicating with said valve chamber, relatively movable valves in said valve chamber for controlling the flow of pressure fluid from said supply to said passage



means respectively, means for throwing said valves into their different operating positions including separate throwing passages communicating with said valve chamber at points spaced from each other and controlled by said piston for subjecting pressure areas on said valves simultaneously to valve throwing pressures, and means controlled by said piston for venting one of said throwing passages prior to release on certain strokes of said piston and effecting an early throwing of one of said valves.

2,312,368

METHOD AND APPARATUS FOR DESTROYING INSECT LIFE IN FLOUR AND THE LIKE IN BULK

Franklin S. Smith, New Haven, Conn.

Application March 16, 1939, Serial No. 262,155
32 Claims. (Cl. 21—102)

2. In apparatus of the character described, in combination, a casing having means forming an inlet passageway at its upper end and an outlet passageway at its lower end, said inlet passageway comprising a tube-like substantially cylindrical product-guiding member, an elongated supporting element extending downwardly through said member and having means for supporting and holding it against rotation, said supporting element having mounted at its lower end the stator element of an electric motor, a sleeve shaft rotatably supported by said supporting element above said stator and carrying at its lower end an electrode member presenting an interior substantially frusto-conical product-supporting surface that is concentric with said sleeve shaft and that is of increasing radius in an upward direction and extends externally about said first-mentioned member, electrode means, means insulatingly supporting said electrode means in the space between said product-supporting surface and said first-mentioned member and spaced inwardly from said surface to form a treatment zone therebetween, means for impressing a potential difference between said electrode means and said electrode member to effect electric discharge therebetween, and driving means for rotating said electrode member and comprising a rotor element companion to said stator element and having mechanical connection with said electrode member, said outlet passageway comprising an annular product-guiding member having means for guiding it to product discharged peripherally from said rotating electrode member.

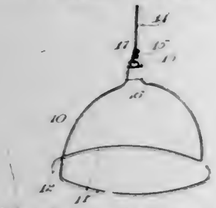
4. An apparatus as claimed in claim 2 in which said supporting means for said electrode means is rotatable and has means coacting with said first-mentioned member to support it for rotation

about the latter, and means for driving it to traverse the electrode means relative to the rotating product-supporting surface of said electrode member.

5. An apparatus as claimed in claim 2 in which said electrode means comprises a plurality of electrodes and the means for impressing a potential difference between said electrode member and said electrodes comprises a plurality of generating means, one for each electrode and each having coacting elements one of which is rotatable relative to the other, means supporting the rotatable elements thereof from, and for rotation about, one of the members that form said inlet and outlet passageways, and means for driving said rotatable elements.

29. The method of treating a flowing comminuted product in air which comprises causing progressively increasing centripetal forces to act on the product and causing the product to exert progressively increasing centrifugal forces for compacting the product to a volume on the order of half its prior volume, subjecting the compacted product to disruptive electrical discharge, then causing the centripetal and centrifugal forces to collapse to effect discharge of the treated product tangentially.

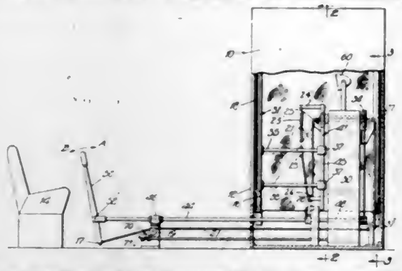
2,312,369
TOY BALLOON
Stanley Solecki, Chicago, Ill.
Application July 21, 1941, Serial No. 403,452
3 Claims. (Cl. 46—88)



1. A holder for toy balloons comprising a receptacle adapted to be lowered on a balloon of somewhat greater girth than the receptacle entrance, and means carried by the receptacle to engage the sides of the balloon and slightly compress the same, whereby to secure a retaining grip on the balloon, the receptacle being a wire arch, and said means being a pair of oppositely-directed extensions of the ends of the arch, such extensions being in substantially semi-circular juxtaposition to form a diametrically-split ring.

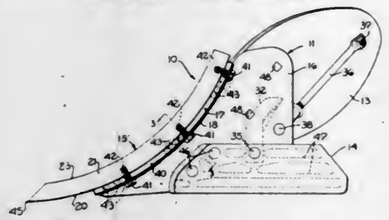
2,312,370
ELEMENTARY FLIGHT TRAINING DEVICE
Charles W. Soule, Winnemucca, Nev., assignor of one-third to Oliver Ramsdell, Winnemucca, Nev.
Application January 23, 1942, Serial No. 427,869
6 Claims. (Cl. 35—12)

1. An apparatus of the character described comprising in combination, a housing having a viewing opening in one of its side walls, a student's seat spaced with respect to said housing and facing the viewing opening thereof, a translucent scenic element movable in opposite directions past the viewing opening of the housing, an airplane nose element, means for mounting the said nose element to the rear of the scenic element for oscillatory and reciprocating movement in a plane parallel to the plane of the scenic element, means for casting a shadow of the nose element upon the scenic element, manually operated means operable from the student's seat for imparting both oscillatory and reciprocating movement to the nose element, a reversible motor for operating said scenic element, and means operable from the student's seat for controlling



the operation of the reversible motor to move the scenic element in opposite directions relative to the oscillating movement imparted to the nose element.

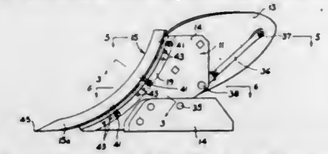
2,312,371
PLOW BOTTOM
Carl G. Strandlund, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application September 5, 1939, Serial No. 293,437
8 Claims. (Cl. 97—113)



1. A plow bottom of the moldboard type, comprising a frog having a moldboard receiving section, an arcuate bar forming a combined point and shin member having upper and lower faces, both formed as surfaces of revolution about a common axis, the upper face being substantially conical and the furrowward edge of the bar being arcuate about said axis, said axis being substantially perpendicular to the vertical plane of forward travel of the plow bottom, said frog having a portion formed as a surface of revolution about said axis to receive the lower face of said bar, a moldboard fixed to the moldboard receiving section of said frog and having an edge arcuate about said axis fitting against the arcuate edge of said bar with the upper face of the moldboard flush with the substantially conical upper face of the bar, forming a smooth continuous surface, and means for adjustably fixing said bar to said bar-receiving portion of the frog in different positions thereon so as to provide for shifting said arcuate bar downwardly and forwardly about said axis, whereby the upper faces of said bar and moldboard remain substantially flush one with the other and maintain said continuous smooth surface in all adjusted positions of the bar on the frog.

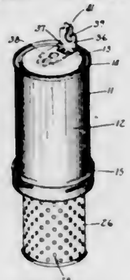
2,312,372
PLOW
Carl G. Strandlund, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application January 8, 1940, Serial No. 312,830
14 Claims. (Cl. 97—113)

1. In a plow, a moldboard, a frog having a moldboard receiving surface for supporting the moldboard, a combined point and shin comprising an arcuate member of bar stock of substantial thickness having upper and lower surfaces of revolution, means on said frog offset below said moldboard receiving surface and including a surface of revolution corresponding to the lower sur-



face of revolution of said arcuate member for supporting said member in contact with the landside edge of said moldboard so that said arcuate member may be shifted downwardly about the center of revolution of said surfaces, said member being materially thicker than said edge of the moldboard, and means adjustably fixing said member to said frog.

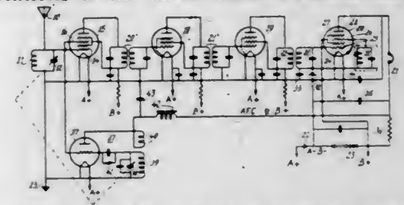
2,312,373
COMBINATION CONTAINER AND DISPENSER
Louis A. Trevisan, Bloomfield, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application December 9, 1939, Serial No. 308,473
1 Claim. (Cl. 299—24)



A storing and disseminating device for chemical crystals, comprising an imperforate open ended distributing container for holding said crystals, said open end of the container being sealed by a frangible sheet to preserve the chemical contents, and a supplemental perforated receptacle having an open end in threaded engagement with the open end of the container and over said sealing sheet, said frangible sealing sheet being adapted to be broken out when said container and receptacle are separated to open the container, whereby reassembly of the said receptacle upon the thus opened container produces a vapor disseminating device permitting a supply of crystals to pass into and fill said receptacle when the latter is placed below said container in inverted position, and instrumentalities on the opposite end of said container for supporting said device in its inverted position so that the crystals will vaporize and disseminate through said perforations.

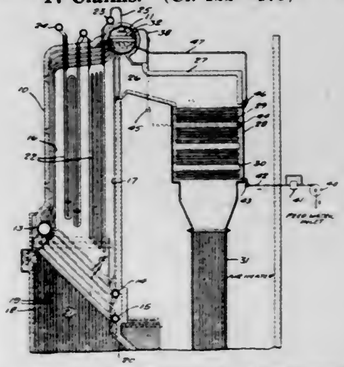
2,312,374
HIGH FREQUENCY SYSTEM
William H. Unger, New York, N. Y., assignor, by mesne assignments, to Patents Research Corporation, New York, N. Y., a corporation of New York
Application August 15, 1941, Serial No. 406,961
6 Claims. (Cl. 250—20)

1. A frequency variation response circuit comprising an electron discharge tube provided with a cathode, an anode and a plurality of grids, an input circuit connected to one of said grids and said cathode, an output circuit connected to said anode and said cathode, means including resonant impedance means connected between said cathode and another of said grids for causing variations of the anode current substantially in



proportion to the relative frequency departure of an impressed input signal frequency from the resonant frequency of said impedance means, said input circuit being designed to offer a low enough impedance to the modulation frequencies of an undesired amplitude modulation of said input frequency to render the effect thereof on the anode current due to rectification in said input circuit substantially negligible.

2,312,375
VAPOR GENERATOR
Gilbert C. Whitney, Jr., New York, N. Y., assignor to Foster Wheeler Corporation, New York, N. Y., a corporation of New York
Application December 7, 1939, Serial No. 307,957
17 Claims. (Cl. 122—479)

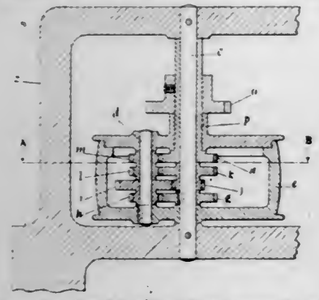


1. In a vapor generator, a vapor generating section, a vapor and liquid drum connected to the vapor generating section, a vapor and liquid contacting device in the drum, a gas passage arranged to receive gases after flowing in heat exchange relationship with the vapor generating section, a heat exchange device in said gas passage having a portion in which liquid is heated and a connecting portion in which heated liquid is vaporized, means for delivering liquid to the first mentioned portion of the heat exchange device, a conduit for delivering heated liquid from said liquid heating portion of the heat exchange device to the vapor and liquid contacting device in the drum, and a separate conduit for conducting vapor from the vaporizing portion of the heat exchange device to a point of use.

2,312,376
GEARING
Harry Jones Andrew, Oldham, England
Application May 25, 1942, Serial No. 444,451
In Great Britain June 16, 1941
1 Claim. (Cl. 74—306)

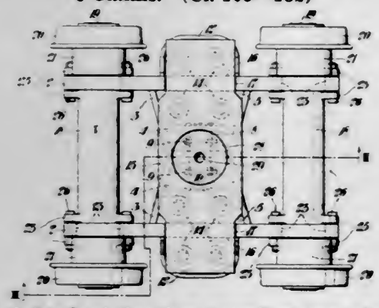
In a driving mechanism for a tapping or

screwing tool for the machine tapping of screw threads, in combination, a fixed spindle, a driven wheel or pulley revolving about said spindle, a second spindle mounted in said wheel or pulley parallel to said first spindle so that it revolves around it, an elliptical gear wheel secured upon the first spindle, a first pair of elliptical gear wheels revolving freely upon the second spindle, one of which meshes with the aforesaid elliptical gear wheel, a pair of elliptical gear wheels revolving freely upon the first spindle, one of which meshes with the other of the pair of el-



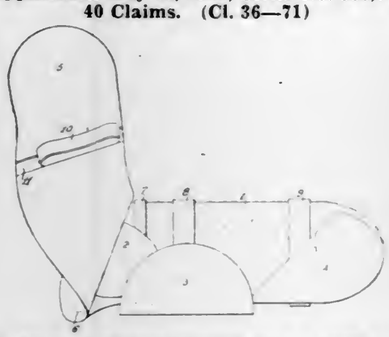
liptical gear wheels upon the second spindle, a second pair of wheels, one circular and one elliptical, revolving freely upon the second spindle, the elliptical wheel meshing with the second of the pair of elliptical wheels upon the first spindle, a single circular wheel revolving freely upon said first spindle and meshing with the circular wheel of the pair upon the second spindle, all the aforesaid wheels being within the wheel or pulley, and a circular wheel external to the wheel or pulley for driving the tapping or screwing tool secured upon a sleeve-like extension of the said single circular wheel.

2,312,377
TRUCK
George H. Bauer, Gary, Ind.
Application February 5, 1941, Serial No. 377,561
6 Claims. (Cl. 105—182)



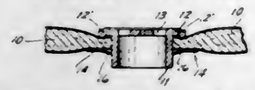
3. A truck of the class described comprising a pair of spaced apart side sill members, a removable pin arranged between said sill members substantially centrally thereof for holding them in engagement with each other, a plurality of vertically arranged coil springs mounted on both of said side sill members substantially centrally thereof and opposite said pin, a bolster plate arranged on said coil springs substantially perpendicular to said side sill members and for limited vertical movement relative thereto, each of said side sill members having a slotted opening arranged therein substantially centrally thereof in which said bolster plate is disposed to said bolster plate having a slotted opening arranged in the lower side thereof at points directly opposite each of said side sill members in which the upper sides of the respective side sill members are disposed so as to provide a guiding means for the bolster plate in its vertical movement, and a pair of axles arranged between said side sill members having wheels aranged on each end thereof for supporting the truck.

2,312,378
ARCH SUPPORT
John D. Baum, Parma, Ohio
Application May 23, 1940, Serial No. 336,730
40 Claims. (Cl. 36—71)



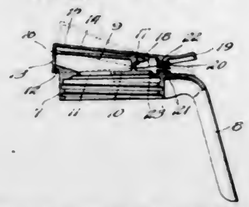
33. An arch support, comprising a base having spaced apart lateral edge portions, an attachment element comprising a portion on the base between said edge portions and having means associated therewith frictionally engaging the spaced apart edge portions, and the said attachment element portion being thereby attached to the base and rendered manually, slidably adjustable on the base, in the direction of the said edge portions, a pad associated with the said attachment element portion for movement therewith to adjust its position on the base.

2,312,379
ANCHORING DEVICE FOR APPLICATION TO MATTRESS WALLS
Michael Bechik, St. Paul, Minn.
Application December 3, 1941, Serial No. 421,455
2 Claims. (Cl. 5—347)



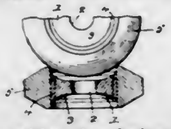
1. An anchoring attachment for mattress wall ventilators and the like comprising a cylindrical shank having a head at one end thereof and a lock washer engageable with the shank for compressing a mattress wall between same and said head, said head including a circumferential flange having an annular recess therein adjacent said shank and opposed to said washer, and said washer comprising a circular member of substantially greater diameter than said head and having a central passage of less diameter than said shank, said passage being defined by the inner ends of radially disposed resilient locking prongs adapted to be inclined from the plane of said head to bite against the peripheral surface of said shank upon forcing said washer toward said head, whereby to tightly compress the material of a mattress wall between the circular portion of said washer and the circumferential flange of said head spaced from the shank thereof.

2,312,380
DISPENSING CONTAINER
Rudolph Bernhardt, Chicago, Ill.
Application October 26, 1939, Serial No. 301,447
1 Claim. (Cl. 65—31)



A dispensing top for a container comprising a cap having an outlet opening, a substantially rectangular pouring spout extending upwardly from the cap and over one side thereof with a pouring lip at the outlet end, the top of the spout being inclined from its inner end to its outer end and having a projection at its inner end with a transverse groove on its lower side to provide an open bearing, a pin detachably engaging with said groove, a closure carried by the pin and adapted to fit closely over the pouring spout, said closure having a thumb piece projecting beyond the pin, and a spring engaging with the cap and with the thumb piece for holding the closure in closed position the device being such that the closure may be readily unhooked from the projection to remove the same and the spring from the cap as for cleaning.

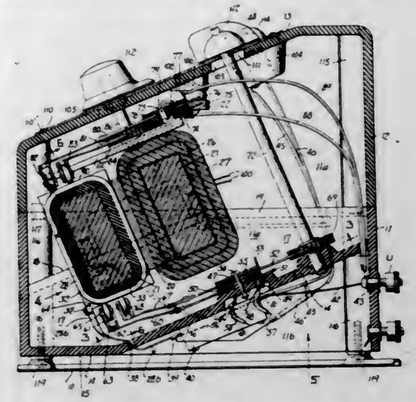
2,312,381
MEDICINAL TABLET
Frank J. Bickenheuser, Tulsa, Okla.
Application October 24, 1940, Serial No. 362,693
1 Claim. (Cl. 167—57)



A medicinal tablet for being dissolved in a selected potable liquid, including a medicinal central thin portion composed of a medicament not readily soluble in said potable liquid, an effervescent annular portion, and a protective layer between said portions, which layer is soluble in said potable liquid, thickness of the central portion being less than the thickness of a neighboring portion of the said annular portion, thereby to provide central recesses in the opposed faces of the tablet, and the curvature of the periphery of the annular portion and the thickness of the central portion being such as to prevent edgewise insertion of the periphery of one tablet into contact with any part of the exposed surface of said central portion of another of such tablets, the effervescent annular portion being composed of substances that will react in said potable liquid to give gas and a residue soluble in said potable liquid.

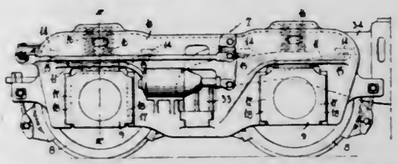
2,312,382
TRANSFORMER
Joseph L. Bonanno, Maplewood, and Anthony Ehret, Hillside, N. J., assignors to The Lionel Corporation, New York, N. Y., a corporation of New York
Application December 7, 1940, Serial No. 369,056
18 Claims. (Cl. 171—119)

1. A transformer having a secondary winding provided with two parallel exposed faces, a fixed support, a plurality of contacts bearing on each of the exposed faces of the secondary winding, the contacts being concentrically pivoted to the support and insulated, a gear train for operating



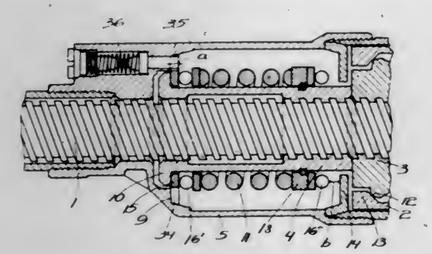
each contact, and an operating shaft for each gear train, the shafts for operating the contacts bearing on one face of the secondary extending past the gears for operating the other contacts so that all the shafts are accessible to one side of a coil face.

2,312,383
RAILWAY CAR TRUCK
Jerome G. Bower, New York, N. Y., assignor to The Buckeye Steel Castings Company, Columbus, Ohio
Original application February 18, 1938, Serial No. 191,308, now Patent No. 2,224,136, dated December 10, 1940. Divided and this application October 30, 1940, Serial No. 363,533
2 Claims. (Cl. 105—183)



2. In a railway car truck of the type having wheel supported axle journal boxes, a rigid side frame member having a window about midway between its ends and having its end portions vertically slidable on the journal boxes, bolster means having an end portion extending into said window, resting on the side frame member and vertically movable in unison with said side frame member, and spring means supporting the side frame member on the journal boxes, the improvement in which the spring means comprises tubular members connected to the journal boxes and each arranged immovably transversely and longitudinally relatively to the journal box with which it is associated, semi-elliptic springs extending through the tubular members, supports fixedly arranged within the side frame member and resting on the ends of the semi-elliptic springs, and coil springs supported at the top of the journal boxes and supporting the side frame member, the side frame member immediately above the journal boxes being of inverted U-shaped cross section and housing said coil springs.

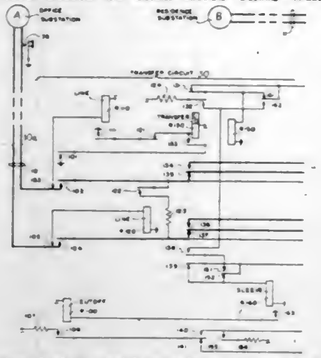
2,312,384
AUTOMATIC SLACK ADJUSTER FOR BRAKES
Bert Henry Browall, Malmo, Sweden, assignor to Svenska Aktiebolaget Bromsregulatar, Malmo, Sweden, a corporation of Sweden
Application February 16, 1942, Serial No. 431,173
In Sweden May 31, 1941
5 Claims. (Cl. 188—202)



1. An automatic slack adjuster for brakes, comprising a two-part brake rod one part of which is movable axially in relation to the other part and comprises a screw-spindle having non-selflocking threads, an operating member movable axially on said other rod part and adapted to be moved in relation thereto in one direction at application and in the other direction at release of the brake, a coupling nut on said spindle for coupling it to said other rod part at application of the brake, an adjusting nut on said spindle for coupling it to said operating member at release of the brake, means providing a slip friction clutch between said adjusting nut and said operating member and including a spring-pressed abutment ring axially movable and rotatable with said adjusting nut, coacting elements on said operating member and said adjusting nut for moving the latter on said spindle at application of the brake, and means for positively coupling said abutment ring to said operating member in both directions of rotation when in normal position corresponding to released brake, said coupling means being adapted to be disengaged by an axial movement of said operating member relatively to said adjusting nut at application of the brake, and said coacting elements on said operating member and said adjusting nut being arranged to provide for such an axial play between said operating member and said adjusting nut that, at application of the brake, said coupling means will be disengaged before said operating member begins to move said adjusting nut.

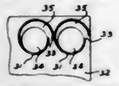
2,312,385
TELEPHONE SYSTEM
Karl L. Burgener, Chicago, Ill., assignor to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application October 24, 1941, Serial No. 416,365
14 Claims. (Cl. 179—27)

1. In a telephone system which includes a manual office, an office line, a residence line, office and residence substations respectively served by said office and residence lines, jacks terminating said lines in said office, means including an operator cord circuit for setting up connections between said lines and the other lines of the system, and means in said manual office selectively controllable over one of said lines from the substation served by said one line for diverting to the other of said lines calls which have



been extended to said one line through said cord circuit and the jack terminating said one line.

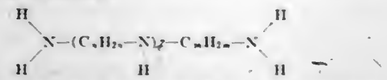
2,312,386
SPRAY BOOTH
Eugene F. Brady, Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application April 7, 1939, Serial No. 266,520
2 Claims. (Cl. 261—79)



1. In an apparatus for treating a gas to remove impurities therefrom, a chamber having an axially horizontal and spirally cylindrical side wall with the spaced edges forming a slot in the wall and the chamber having an end wall with an aperture therein part of whose rim is tangent to an arc of the side wall at the bottom thereof, and means to cause gas to be cleaned to move into the chamber between the spaced edges of the side wall and substantially tangentially thereto so that the gas entering the chamber tangentially must move helically around the chamber to the aperture and axially out thereby, in combination with means to cause a spray of washing liquid to pass transversely through the helically advancing gas substantially in the direction of the axis of the helical motion of the gas.

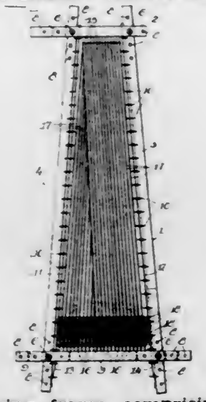
2,312,387
FROTH FLOTATION OF ACIDIC MINERALS
Ludwig Jacob Christmann, Yonkers, N. Y., and David Walker Jayne, Jr., Old Greenwich, and Stephen E. Erickson, Springdale, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application September 4, 1940, Serial No. 355,367
3 Claims. (Cl. 209—166)

1. In ore concentrating processes of separating acidic ore materials from non-metallic ore constituents the process which comprises carrying out the concentration operation in the presence of a promoter for the acidic ore material, said promoter being chosen from the group consisting of the reaction products of polyalkylene polyamines represented by the following general formula:



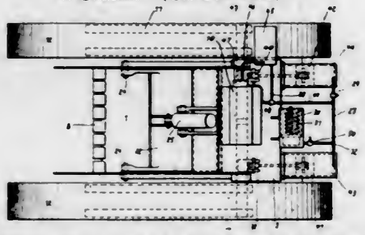
in which n, m, and x are small whole numbers, with talloel and salts thereof.

2,312,388
HAND WEAVING FRAME
Lee L. Clements, Evanston, Ill., assignor of two-thirds to Margaret M. Fisher, Evanston, Ill.
Application February 19, 1941, Serial No. 379,570
3 Claims. (Cl. 139—34)



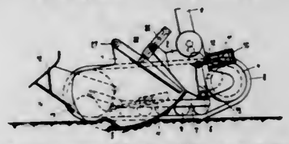
1. A weaving frame comprising side pieces and end pieces, means for adjustably connecting said pieces together whereby to provide working areas of different sizes and shapes, hooks on the end pieces to which the warp threads are attached, removable wires on the side pieces to which the woof threads are attached, each of the side pieces having a plurality of eye members longitudinally spaced therealong for slidably receiving the wires, said wires each having a bent portion, one of said eye members being adjacent the bent portion, the bent portion being held under distortion by the adjacent eye member to releasably hold the wire against longitudinal displacement.

2,312,389
AUTOMOTIVE CRAWLER VEHICLE WITH A SCRAPER BOWL
Hugo Cordes, Hamburg-Altona, Germany; vested in the Alien Property Custodian
Application February 12, 1940, Serial No. 318,597
In Germany February 13, 1939
1 Claim. (Cl. 37—124)



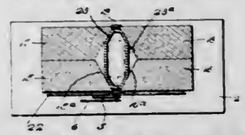
In a device of the kind described, a vehicle frame, a scoop bowl rigidly mounted in said frame, a driving motor mounted on said frame, a pair of independent crawler track frames between which said vehicle frame is positioned, pivot means connecting said crawler track frames to said vehicle frame rearwardly of said bowl, said pivot means being arranged for independent tilting movement of the crawler frames, crawler tracks carried by said crawler track frames, track operating means connecting the engine and tracks, a pair of hydraulic cylinders carried by the vehicle frame at opposite sides thereof, each cylinder having a piston and rod, operative connections between said rods and said crawler track frames, means to supply fluid under pressure to said cylinders including a pipe connecting the cylinders, a pump, a pipe leading from the pump and connected to the first pipe, a third cylinder having a piston spring urged towards one end of the cylinder, a third pipe leading from said end to the first pipe, a stock-cock in the first pipe, and a stop-cock in the third pipe.

2,312,390
AUTOMOTIVE CRAWLER VEHICLE WITH A SCRAPER BOWL HAVING A BULLDOZER BLADE
Hugo Cordes, Hamburg-Altona, Germany; vested in the Alien Property Custodian
Original application February 12, 1940, Serial No. 318,597. Divided and this application October 23, 1940, Serial No. 362,466. In Germany February 13, 1939
6 Claims. (Cl. 37—124)



6. A vehicle provided with a scoop bowl having means for dumping the load, the scoop bowl being movably supported in such a manner that its cutting edge is adapted to be lowered below the ground level; said vehicle being characterized in that the scoop bowl is provided with a movable power actuated apron capable of closing said scoop bowl at the cutting edge, one of the walls of said apron being at the same time shaped in the form of a bull-dozer blade.

2,312,391
TIMEKEEPER
Gaston Victor Georges Cusin, Paris, France, assignor to Cartier, Inc., New York, N. Y., a corporation of New York
Application January 17, 1940, Serial No. 314,316
In France June 17, 1939
21 Claims. (Cl. 58—2)



1. A time indicating device of the type described, which comprises, in combination, an annular dial, two time marking hands adapted to cooperate with said dial, a clockwork for actuating said hands, and at least two blocks of transparent material substantially surrounding at least the part of said clockwork which is connected with said hands, at least one of the faces of said blocks which are adjacent to said part of the clockwork being arranged to produce total reflection of the central visual rays substantially perpendicular to the dial of said time indicating device.

2,312,392
SOFT-BOND ARTICLE
Rupert S. Daniels, Union, N. J., assignor to Bakelite Corporation, New York, N. Y., a corporation of New Jersey
No Drawing. Application May 18, 1940, Serial No. 336,015
8 Claims. (Cl. 51—298)

1. Method of preparing an abrasive article of the soft-bond type from granules having as a bond a phenolic resin which comprises mixing

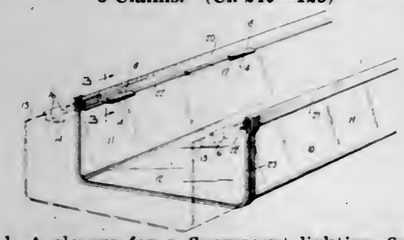
the granules with a phenolic novolak resin together with a hardening agent selected from the group consisting of hexamethylenetetramine, high formaldehyde phenolic resin and compounds containing the azomethine group and polymers thereof, said hardening agent being present in amount to yield available methylene equivalent to about 3 to 6 per cent of hexamethyleneteramine based on the weight of the novolak resin, molding the mixture, and baking the molded article to a state characterized by a softening of the bond that becomes crumbly without fusion under grinding pressure at temperatures approximating 100° C. or higher.

2,312,393

LIGHTING FIXTURE CLOSURE

James Donnelly, Meriden, Conn., assignor to The Miller Company, Meriden, Conn., a corporation of Connecticut

Application February 24, 1941, Serial No. 380,138
3 Claims. (Cl. 240—128)



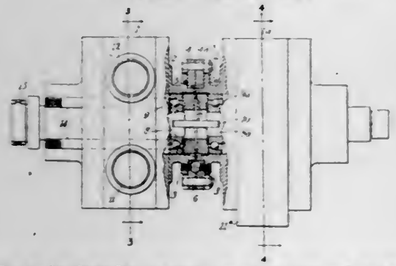
1. A closure for a fluorescent lighting fixture having an elongated opening of substantial area, comprising a substantially rigid metal frame which includes parallel downwardly opening channel shaped members forming a trackway open at one end, a light diffusing panel of sheet plastic having a substantially different coefficient of expansion than the frame and having its edges extending upwardly into the frame channels, and means for supporting the panel in place with the edges thereof in the channels, said means including spaced elements fixedly secured to the panel along each of its edges, said elements interengaging with the frame members when the panel is slid into the channels from the open end and permitting sliding movement longitudinally thereof only, whereby the panel may expand and contract longitudinally independently of the frame members, its edges conforming to the channel walls to prevent buckling of the panel.

2,312,394

HYDRAULIC MOTOR

Frederick Cecil Draper, Chipping Sodbury, England

Application March 26, 1941, Serial No. 385,360
In Great Britain August 12, 1939
1 Claim. (Cl. 60—97)



In a hydraulic motor, a plurality of substantially coaxial motor elements each including a stator and a rotor having slots receiving sliding blades, a flexible coupling establishing a driving connection between the several motor elements inter-engaging coupling plates secured to the stators and at a position between them to facilitate correct alignment of the motor elements.

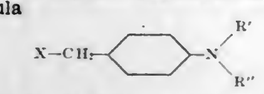
2,312,395

ACYLATED P-AMINOBENZYL AMINES AND THEIR QUATERNARY DERIVATIVES

Kurt Engel, Saint Louis, Upper Rhine, France, and Kurt Pfaehler, Riehen, near Basel, Switzerland, assignors to the firm J. R. Geigy A. G., Basel, Switzerland

No Drawing. Application May 31, 1939, Serial No. 276,744. In Switzerland June 10, 1938
7 Claims. (Cl. 260—401)

7. The new acylated p-aminobenzyl amines of the formula



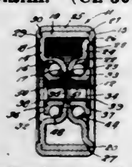
X being a radical selected from the group consisting of R.NH.CO.NH— and R.CO.NH.CO.NH—, R being a high molecular aliphatic hydrocarbon radical with at least 11 C-atoms, and R′ and R″ representing substituents selected from the group consisting of H, alkyl, cycloalkyl and aralkyl radicals, only one of the R′ and R″ being at most identical with H.

2,312,396

WHEEL FOR ROLLER SKATES

John Thomas Enley, Riverside, N. J.

Application December 21, 1940, Serial No. 371,179
1 Claim. (Cl. 301—5.7)



Roller skate wheel comprising a body member of sheet stock having concave raceways in opposite sides and an axial aperture therethrough, an annular series of bearing balls for each raceway and resting thereagainst, and a bearing retaining unit comprising a tubular retainer passing through said aperture having an intermediate external annular deformable ridge, cones nonadjustably telescoped upon said retainer with their large ends overlying said series of balls and their small ends against said ridge, said retainer having end flanges clamping said cones against said ridge, and clamping said retainer unit against both said series of balls with circumferentially uniform pressure.

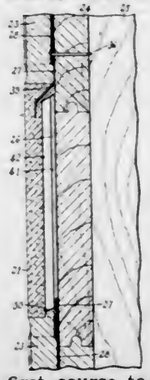
2,312,397

BUILDING CONSTRUCTION

Louis A. Falco, New Haven, Conn., assignor to The Dextone Company, New Haven, Conn., a corporation of Connecticut

Application January 27, 1941, Serial No. 376,025
15 Claims. (Cl. 72—23)

11. A building wall comprising a course of slabs each of which has flexible end strips in overlapping relation to those of adjacent slabs in the same course, said strips forming flexible bottoms of mortar-receiving grooves, mortar groutings in said grooves between the ends of adjacent slabs, said slabs having upwardly projecting flexible strips by means of which they are secured to a backing, and an upper course of slabs having their bodies extending down partially over said last-named strips but spaced from the bodies of



the slabs in the first course to provide a mortar-receiving groove the back of which is formed by said strips, and a grouting of mortar in said groove, all of said strips being of water-repellent material of a character to conserve and maintain the mortar joints upon expansion.

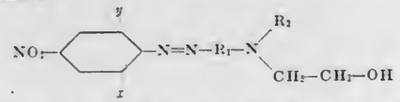
2,312,398

DYESTUFF PREPARATIONS

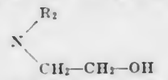
Friedrich Felix, Basel, Switzerland, assignor to the firm of Society of Chemical Industry in Basle, Basel, Switzerland

No Drawing. Application May 24, 1940, Serial No. 337,081. In Switzerland June 8, 1939
3 Claims. (Cl. 8—26)

1. Dyestuff preparations containing at least two dyestuffs dyeing blue shades of the general formula



wherein x stands for a member of the group consisting of cyanogen, halogen, and SO_2-alkyl, y stands for a member of the group consisting of halogen and NO_2, provided that only one of the two symbols y and x stands for halogen, R_1 stands for an aromatic nucleus of the benzene series in which the —N=N-group and the



-group stand in para position to one another and in which a substituent of the group consisting and CH_2CH_2OH, which dyestuff preparations dye acetate rayon in shades of a more increased tinctorial power than the individual components.

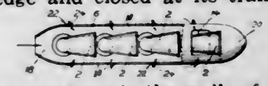
2,312,399

COOLING EXHAUST CONDUITS

Anselm Franz, Dessau, Germany; vested in the Alien Property Custodian

Application July 6, 1939, Serial No. 283,099
In Germany July 9, 1938
12 Claims. (Cl. 60—35.6)

1. In an engine, a row of exhaust conduits projecting from said engine, a substantially streamlined cowling enclosing all except the outlet ends of said conduits and being spaced from said conduits to form an air outlet through said cowling at each conduit, said cowling being open at its leading edge and closed at its trailing edge, a
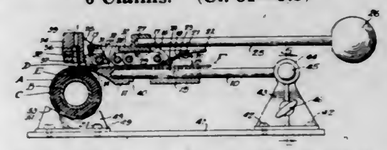


plurality of openings in the walls of said cowling adjacent each conduit, and means adjacent each opening for directing air in the form of jets against said conduits, said air being discharged from said cowling through the air outlets.

2,312,400

COMBINATION BAND PULLING AND PUNCHING TOOL

Elmer J. Govanus, Chicago, Ill., assignor to Punch-Lok Company, Chicago, Ill., a corporation of Illinois

Application February 8, 1941, Serial No. 378,118
6 Claims. (Cl. 81—9.3)



1. In a portable tool for tensioning a metal band and locking it in tensioned condition, the combination with a body member equipped with a longitudinal band slideway open at the front end of said body member for the insertion of the band, a band grip, and means for moving said grip lengthwise of said slideway to tension the band, of a punch head pivoted on and overhanging the front end of said body member and in its fully lowered position covering the entrance end of said slideway, a pointed punch mounted in said head adapted to offset a lug from the tensioned band into an anchorage member under a hammer blow on said head, and a member slidable on said body member operative, through contact with said head, to raise the latter sufficiently to uncover the entrance end of said slideway for the insertion of the band.

2,312,401

DYESTUFFS OF THE ANTHRAQUINONE SERIES

Donald P. Graham, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application February 24, 1941, Serial No. 380,303
2 Claims. (Cl. 260—274)

1. The olive dyestuffs obtained by the condensation of a Bz-1-1′-anthraquinonylamino-benzanthrone which carries halogen in an alpha position of the benzanthrone nucleus with a 1-amino-anthraquinone-2-phenyl-azo-methine and subjecting the resulting condensation product to a caustic alkaline fusion.

2,312,402

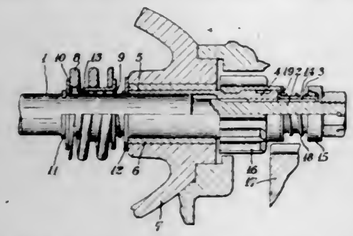
STARTER FOR INTERNAL COMBUSTION ENGINES

Stephane Granjon, Saint Etienne, France, assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application March 4, 1941, Serial No. 381,747
In France March 5, 1940
2 Claims. (Cl. 74—7)

1. In an engine starter drive a casing, a hol-

low shaft slidably journalled therein having a threaded portion projecting from the casing, a power shaft journalled in the hollow shaft having a portion of reduced diameter splined in the threaded portion of the hollow shaft and extending there-beyond, a pinion threaded on the hollow shaft for movement into and out of engage-



ment with a member of an engine to be started, yielding abutment means for the hollow shaft on the power shaft within the casing, and fixed abutment means on the reduced extension of the power shaft defining the idle position of the hollow shaft and the operative position of the pinion.

2,312,403

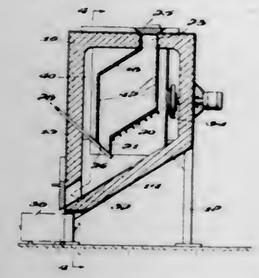
TEMPERING FURNACE FOR SMALL PARTS

Rudolf Gröger, Hanau, Germany; vested in the Alien Property Custodian

Application March 3, 1941, Serial No. 381,559

In Germany December 11, 1939

3 Claims. (Cl. 263—36)



1. A tempering furnace for small objects of various sizes, comprising a heating chamber, a plurality of spaced receptacles mounted within said chamber, including at least one receptacle for each size of the small objects to be treated, said receptacles being substantially in the shape of parallelograms of relatively narrow thickness and arranged within the chamber with two sides of the parallelograms in vertical position and the other two sides sloping downwardly, inlet charging means at the uppermost corner of each receptacle and extending through the top of the furnace, outlet emptying means at the lowermost corner of each receptacle, means extending to the outside of said furnace to control said outlet emptying means separately, heating elements within said furnace, and circulating means for directing air past said heating elements and into contact with said receptacles to treat the articles within said receptacles, each of said pocket-like receptacles having perforations of a size smaller than the size of the articles to be treated in that particular receptacle, whereby air directed to said receptacles passes into actual contact with the articles treated.

2,312,404

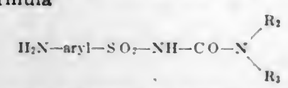
METHOD OF PREPARING N-SULPHONYL-UREAS

Erich Haack, Radebeul, near Dresden, Germany; vested in the Alien Property Custodian

No Drawing. Application December 7, 1940, Serial No. 369,117. In Germany November 22, 1939

8 Claims. (Cl. 260—397.7)

1. The process of preparing N-sulphonylureas of the formula



wherein aryl represents a benzene-nucleus, the amino radical H_2N stands in p-position to the sulphonyl group, wherein R_2 stands for a radical selected from the group consisting of hydrogen and alkyl, and wherein R_3 stands for a radical selected from the group consisting of hydrogen, alkyl and aryl, comprising treating a corresponding N-acetyl-sulphanilyl-isoureaalkylether with a hydrogenhalide, until the halide of the alkyl radical of the ether is split off.

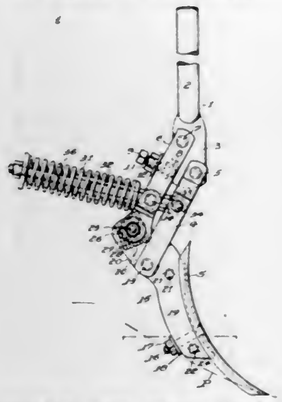
2,312,405

SPRING TRIP MOUNTING FOR CULTIVATOR STEELS

Charles Wellington Haagen, Philadelphia, Pa., assignor to S. L. Allen & Co., Inc., Philadelphia, Pa., a corporation of Pennsylvania

Application January 4, 1941, Serial No. 373,089

3 Claims. (Cl. 97—184)



1. In cultivator steel spring trip mechanism, a vertical standard, a pair of links pivoted at vertically and horizontally spaced points to the standard for movement in a common plane and normally extending angularly downward from said points, an arm adapted to support a cultivator steel, pivots respectively connecting the links with the arm at normally substantially vertically aligned points more widely spaced than the pivotal connections of the links with the standard, an element pivoted to one link between its pivotal connections and extending beyond and in sliding relation with the pivot connecting the other link with the arm, yielding means carried by the element, means fixed to the element engaging one end of the yielding means and movable means interposed between said pivot and the other end of the yielding means operative through the bias of the latter to urge said pivot toward the first link thereby tending to restore the pivots connecting the links with the arm to substantial vertical alignment after they have been displaced therefrom by movement of the links about their pivotal connections with the standard to a position in which they extend angularly upward from said connections.

2,312,406

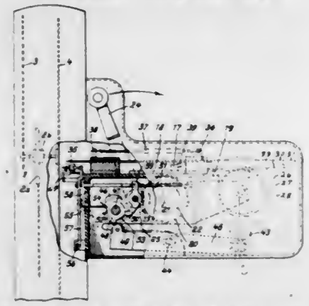
WEIGHING MACHINE

Arthur Hahn, Balingen, Germany; vested in the Alien Property Custodian

Application March 6, 1939, Serial No. 260,242

In Germany September 23, 1938

8 Claims. (Cl. 234—5.4)



1. In a weighing machine of the type including a balance system and a printing mechanism associated therewith, the provision of driving means for the printing mechanism, a locking device engageable in the driving means for preventing untimely operation of the printing mechanism, control means for the locking device and including a feeling member engageable with the balance system of the weighing machine for preventing release of the locking device when the balance system is swinging outside the limits of graduation error but permitting release of the locking device when the balance system is at rest or is swinging within the limits of graduation error, and actuating means for the control means.

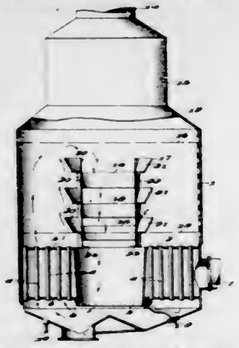
2,312,407

VACUUM PAN

James Hamill, West Orange, N. J.

Original application May 17, 1939, Serial No. 274,253. Divided and this application June 18, 1941, Serial No. 398,657

5 Claims. (Cl. 159—27)



1. The improvement in vacuum pans of the type having a calandria provided with a downtake and a plurality of tubes, said improvement consisting of a tubular-like member positioned above the downtake in substantially vertical alinement therewith for promoting the circulation of the mass being concentrated in the pan, said tubular-like member providing a vertically extending passageway for the circulating mass descending toward the downtake and comprising a plurality of sets of vertically spaced arcuate louvres, each of said louvres having an outer surface inclined upwardly and outwardly for deflecting the circulating mass ascending adjacent the tubular member away from the column of circulating mass descending in said passageway and said tubular member having a plurality of overflow openings the upper and lower edges of which are respectively defined by the lower and upper edges of the louvres of each set, the openings formed by the louvres of one of said sets being arranged in staggered relation with respect to the openings formed by the louvres of another of said sets.

2,312,408

CONTACT SPRING ASSEMBLY

Harry Hansen, Clifton, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application December 4, 1941, Serial No. 421,573

7 Claims. (Cl. 200—166)



1. A method of assembling contact springs comprising arranging the springs at the desired spacing with the holes therein in alignment, inserting an insulating bushing in said holes and forcing a solid pin into said insulating bushing to cause said bushing to expand and grip said springs.

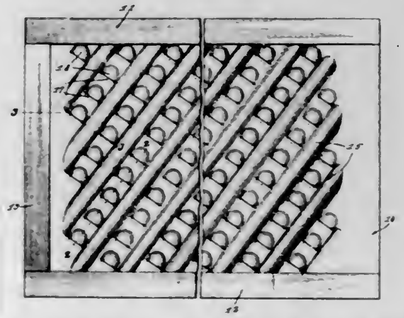
2,312,409

PLACER SCREEN

Alonzo V. Harris, Farmington, N. Mex.

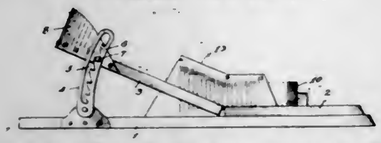
Application December 23, 1941, Serial No. 424,167

6 Claims. (Cl. 209—506)



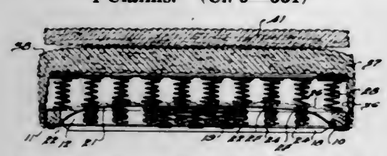
1. A placer screen comprising a single length of sheet material the upper surface of which is formed with a plurality of sockets, said sockets being arranged in spaced parallel diagonally extending rows and said rows being separated by ridges, the individual sockets comprising each of the said rows being spaced from each other and having an elongated opening extending normally to the said ridges, the marginal edges of the openings extending in overlapping relation and the lower marginal edge being bent downwardly in diverging relation with the said upper marginal edge.

2,312,410
DEVICE AS AN AID IN SHOE FITTING
Imla E. Hewitt, Jr., Springfield, Ill.
Application March 17, 1941, Serial No. 383,664
2 Claims. (Cl. 33—3)



1. In a device as an aid in shoe fitting, the combination of a substantially horizontally disposed toe supporting portion, a heel supporting portion adjoining at one end the said toe portion and upwardly tiltable at various angles with respect to the same from a fixed point thereat, means to support said heel portion at any given height of inclination, a series of marks at the toe supporting portion for denoting distances from the rear extremity of the heel portion to the toe ends of a foot being fitted, and a series of marks for indicating the distance between the ball of said foot and the said toe ends of the foot.

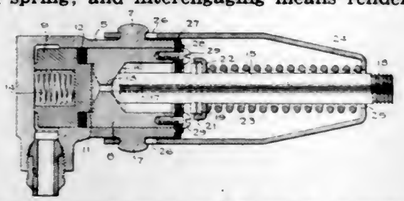
2,312,411
UNIT BOX SPRING AND MATTRESS
Henry Hopkes, Grosse Pointe, Mich., assignor to No-Sag Spring Company, Detroit, Mich., a corporation of Michigan
Application July 7, 1938, Serial No. 217,933
4 Claims. (Cl. 5—351)



1. A box spring mattress embodying a frame of rectangular shape, transversely disposed members interconnecting the longitudinal sides of said frame, coil springs mounted on said members, a sinuous spring strip disposed parallel to each of said members and secured to the tops of said springs, longitudinally disposed sinuous spring strips connected to the transverse end members of the frame and to said transversely disposed strips, noise preventing means disposed over said strips, a coil spring assembly mounted on said strips and frame, said assembly embodying a plurality of coil springs mounted in rows and fastened to each other against longitudinal and lateral shifting, and means for securing the marginal coil springs of said assembly to the side and end members of said frame.

2,312,412
WORK CYLINDER
Matthew W. Huber, Chicago, Ill., assignor to Hydraulic Controls, Inc., a corporation of Illinois
Application September 17, 1941, Serial No. 411,236
4 Claims. (Cl. 121—38)

1. The combination of a cylinder having approximately diametrically opposed lugs, an outwardly acting piston with push rod; a spring reacting inwardly to return the push rod and piston; a spring seat encircling said push rod and there sustaining said spring, said spring seat having laterally displaceable approximately parallel arms capable of engaging said lugs when the spring seat is positioned so as partially to stress said spring; and interengaging means rendered



effective by the action of the spring to prevent the escape of the arms from the lugs.

2,312,413
MANUFACTURE OF FLUOSULPHONATES
Ralph K. Iler, East Cleveland, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 27, 1939, Serial No. 311,139
2 Claims. (Cl. 23—50)

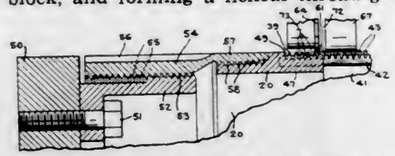
1. In a process for producing a metal fluosulphonate, the steps comprising causing interaction between chlorosulphonic acid and a metal fluoride selected from the group consisting of alkali metal, alkaline earth metal, and ammonium fluorides, by mixing the fluoride and chlorosulphonic acid under conditions such that contact between them is effected, maintaining the reactants at a temperature of about from 40–150° C. during such contact, evolving from the reaction mixture hydrogen chloride formed by the reaction, and recovering as the product of the reaction the fluosulphonate of the metal fluoride used.

2,312,414
PROCESS FOR CONCENTRATING ORE MATERIALS
David Walker Jayne, Jr., Old Greenwich, Conn., Stephen Edward Erickson, Calumet, Minn., and Harold Milton Day, Cos Cob, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application September 4, 1941, Serial No. 409,531
13 Claims. (Cl. 209—166)

1. In ore concentrating processes utilizing differential surface wettability principles of separating acidic silicious gangue from non-metallic ore constituents, the process which comprises carrying out the concentration operation in the presence of at least one of the products obtained by a method of the group consisting of, reacting a mixture of a primary alkylol amine, an aromatic sulfonic acid and a higher fatty acid by heating at a temperature above 250° C., reacting a mixture of an aromatic sulfonic acid salt of a primary alkylol amine and a fatty acid by heating at a temperature above 250° C., and by heating a mixture of a primary alkylol amide of a higher fatty acid and an aromatic sulfonic acid at a dehydration temperature.

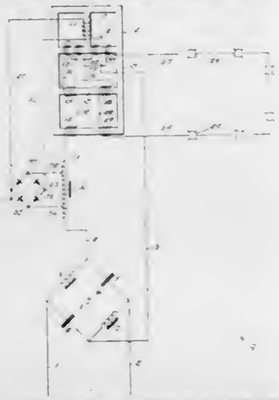
2,312,415
METHOD OF WELDING THE ENDS OF SUPPORTING RODS TO END FITTINGS OF WELL SCREENS
Albert A. Jens, St. Paul, Minn., assignor to Edward E. Johnson, Incorporated, St. Paul, Minn.
Application October 12, 1940, Serial No. 360,968
4 Claims. (Cl. 29—163.5)

1. A method of attaching couplings to well screens which consists in forming a screen surface over a multiplicity of longitudinal elements held to outline a cylinder, and having end portions extending outwardly at each end of the screen surface, forming end fittings for said screen embodying a coupler block, forming a multiplicity of longitudinally extended holes in said coupler block, and forming a helical thread-groove



on the outside of said coupler block, said groove extending into said holes at each crossing point thereof, applying the screen to the coupler block with the aforesaid exposed ends within said holes, wrapping a wire in the thread-groove and progressively welding said wire to the successive element ends at each crossing point of the wire therewith.

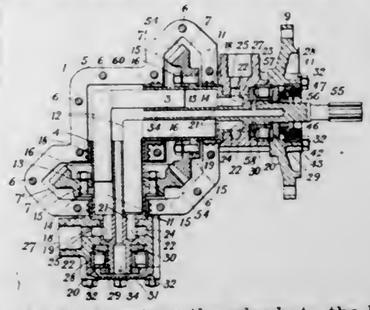
2,312,416
CONSTANT CURRENT TRANSFORMER
Richard A. S. Johnson, Chicago, Ill.
Application October 31, 1941, Serial No. 417,332
6 Claims. (Cl. 171—119)



1. The combination with a monocyclic square regulator, a rectifier which receives current from the output of the monocyclic square, and output transformer and a coil operatedly associated with the output transformer and receiving direct current from the rectifier whereby the output of the transformer will be controlled by the current from the rectifier and constant current will be delivered from the transformer.

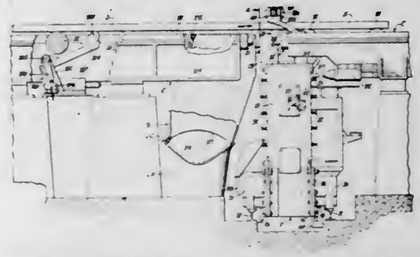
2,312,417
PUMP, COMPRESSOR, OR HYDRAULIC MOTOR
Dudley George Jones, Aldwych, London, England
Application May 7, 1940, Serial No. 333,866
In Great Britain May 8, 1939
2 Claims. (Cl. 121—62)

1. A fluid engine, comprising a casing, two cylinder blocks in said casing at an angle to each other, the blocks having projecting elements between their ends, bearings directly mounted in the casing circumscribing the ends of the blocks, angular pistons arranged one end of each piston in a cylinder in one block and the other end of each piston in a cylinder in the other block, driving worm wheels for the cylinder blocks circumscribing the blocks between said bearings, said driving worm wheels having coacting parts enabling studs parallel with and around the axes



of the blocks to secure the wheels to the blocks, and a driving worm in mesh with said driving worm wheels.

2,312,418
PROCESS AND APPARATUS FOR CONDITIONING THE SURFACES OF METAL BODIES
Arthur M. Keller, Livingston, James H. Bucknam, Cranford, and Alfred J. Miller, Garwood, N. J., assignors to The Linde Air Products Company, a corporation of Ohio
Application May 11, 1940, Serial No. 334,510
20 Claims. (Cl. 148—9)

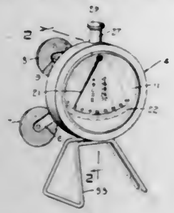


17. A process for surface conditioning a metal body such as a steel slab, comprising heating at least a portion of the surface metal to be removed to the ignition temperature; directing by suitable means a stream of oxidizing gas obliquely against and along a surface of said slab for removing surface metal therefrom; moving said gas applying means relatively along said surface; moving said gas applying means away from said surface before the end of said slab is reached; and continuing the flow of gas therefrom for a short time to prevent slag adherence thereto and to finish conditioning said surface.

2,312,419
TENSIOMETER
Franklin King, Narrows, Va., assignor to Celanese Corporation of America, a corporation of Delaware
Application October 2, 1940, Serial No. 359,325
1 Claim. (Cl. 265—1.6)

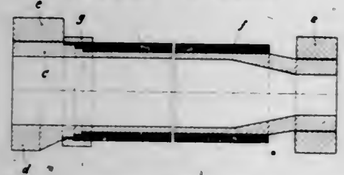
A device for measuring the tension in running yarns, threads, filaments or the like, comprising a casing, a shaft mounted in said casing, a boss on said shaft, a lever arm fixed to said boss, a contractile spring attached to said lever arm and said casing, means for adjusting the load on said spring, a pointer mounted on said shaft

for pivotal movement in said casing and a pair of pulleys adapted to engage said running yarns, threads or filaments, one of said pulleys being fixed to said casing and the other of said pulleys being operatively connected to said pointer, the construction and arrangement being such that the tension in the yarns, threads or filaments



causes the pulley operatively connected to the pointer to be depressed whereby the pointer is moved against the action of said contractile spring to indicate the amount of tension in said yarns, threads or filaments and means for dampening the movement of said pointer, said means including a plunger adapted to be pressed against said boss.

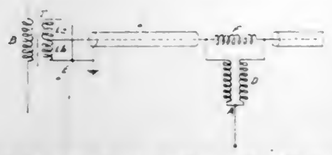
2,312,420
HIGH PRESSURE CONTAINER
Emil Kopf and Roland Wasmuht, Dortmund, Germany; vested in the Alien Property Custodian
Application December 10, 1938, Serial No. 245,048
In Germany December 14, 1937
2 Claims. (Cl. 220—3)



1. A high pressure container comprising a hollow cylindrical body of sufficient strength to withstand longitudinal forces developed within the body, thickened end portions integral with the hollow cylindrical body capable of withstanding longitudinal and transverse forces, stepped transition portions between the body and the end portions, a plurality of metal plates forming concentric cylinders fitted on said hollow body intermediate the adjacent stepped portions and tensioned circumferentially of the hollow body, said concentric cylinders increasing in length so as to successively bear against and overlie the stepped portions until they cover the stepped portions of greatest diameter so as to cooperate with the hollow cylindrical body and the stepped transition portions to withstand both longitudinal and transverse forces developed within the hollow body.

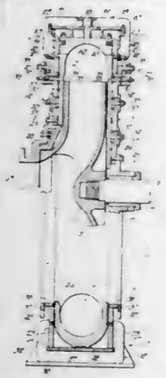
2,312,421
DIRECTION FINDING SYSTEM
Kurt Koschmieder, Berlin, Germany; vested in the Alien Property Custodian
Application June 27, 1941, Serial No. 400,015
In Germany June 27, 1940
4 Claims. (Cl. 250—11)

1. In a direction finding system, a directional antenna system, a non-directional antenna system, means for coupling said systems comprising an asymmetric high frequency line having a grounded and an ungrounded conductor, a transformer having a primary winding in circuit with said directional antenna system and a pair of secondary windings, said secondary windings being wound in opposition to each other, a connection joining adjacent ends of said windings with the



ungrounded conductor of said line, the outer terminals of said windings being connected to said grounded conductor, a goniometer field coil connected in series in said ungrounded conductor, a choke coil connected across said field coil, said non-directional antenna system being connected to the middle point of said choke coil.

2,312,422
DREDGE PUMP
George C. Kumlin and John W. Meckenstock, Chicago, Ill., assignors to Meckum Engineering, Inc., Chicago, Ill., a corporation of Illinois
Application August 20, 1941, Serial No. 407,570
13 Claims. (Cl. 103—114)

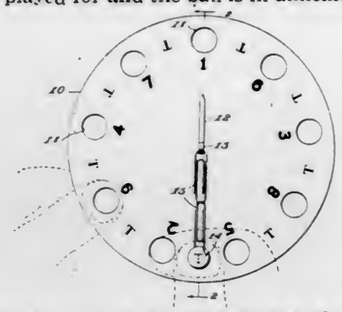


10. In a pump structure, the combination of an annular housing forming the peripheral portion of said pump, liner segments in said annular housing, side plates including lining members forming the balance of the pump enclosure, cooperative flange elements connected with said annular housing and said side plates respectively for fastening the latter to the housing and in radial spaced relation thereto, and seal means disposed between the liner segments and said lining members to prevent fluid leakage from within the pump and between the housing and said side plates.

2,312,423
GAME
Matthew F. Lathers, Orlando, Fla.
Application October 13, 1941, Serial No. 414,877
2 Claims. (Cl. 273—87)

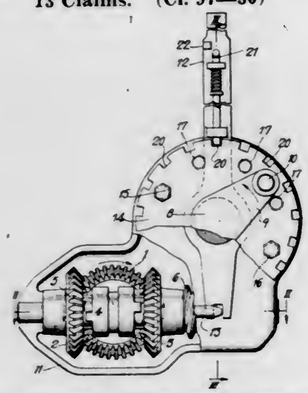
1. A miniature golf game comprising a flexible plane disc-like base having a plurality of uniformly spaced holes adjacent the margin thereof with the centers of the holes in a circle whose center is at the center of the base, a pointer pivotally supported at the center of the base, a ball,

and a flexible connection between the pointer and ball, the holes being in non-diametrical alinement for positioning the ball between a pair of holes when the pointer is directed toward a hole to be played for and the ball is in alinement with



the pointer and on the opposite side of said center, and the flexible base imparting a throw to the ball upon impact on the bottom thereof beneath the ball.

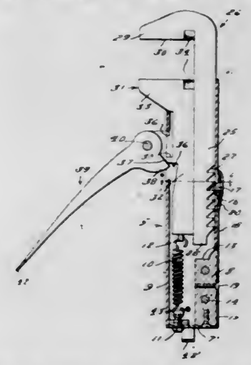
2,312,424
LIFTING MECHANISM FOR TRACTOR OPERATED IMPLEMENTS
Anton Lentz, Heidelberg, Germany; vested in the Alien Property Custodian
Application July 6, 1940, Serial No. 344,188
In Germany September 1, 1939
13 Claims. (Cl. 97—50)



1. A gearing for lifting and lowering implements operated by a motor driven tractor, said gearing comprising crank drive means, connecting means operatively connecting said crank drive means and the motor of said tractor, said connecting means including two gear transmissions adapted to operate said crank drive means in opposite directions and coupling means for individually alternately connecting said gear transmissions with said crank drive means, and coupling disengaging means operatively connected with said coupling means and adapted to be engaged and operated by said crank drive means and disengaging said coupling means from said gear transmissions at predetermined positions of said crank drive.

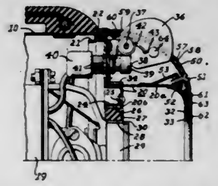
2,312,425
WRENCH
Frank LePiane, Roosevelt, N. Y.
Application October 6, 1941, Serial No. 413,845
1 Claim. (Cl. 81—87)

A wrench comprising an elongated flat transversely rectangular casing having an open end and a closed end, and an elongated longitudinal slot in one edge thereof, a pair of jaw members having flat shanks extending into said open end of the casing and relatively slidable in edge-to-edge engaging relation therein inwardly and outwardly of said open end, respectively, into different positions, detent means for releasably holding one shank in different positions, a spring in said casing having its ends fastened to the inner end of the other shank and to the closed end of the casing, respectively, in the line of



movement of said other shank and tensioning said other shank against outward sliding, and means to slide said other shank outwardly in opposition to said spring comprising a lateral edge lug on said other shank extending into the slot in said one edge of the casing flush with said edge, a pair of opposed ears extending from said one edge of the casing at opposite sides of said slot, a cam pivoted between said lugs and having a handle and a radial shoulder rotatable into said slot into camming engagement with said lug.

2,312,426
VACUUM CLEANER
Gustaf Einar Lofgren, Riverside, Conn., assignor to Electrolux Corporation, New York, N. Y., a corporation of Delaware
Application June 25, 1941, Serial No. 399,597.
6 Claims. (Cl. 15—16)



1. In a vacuum cleaner, a hollow casing, means including an electric motor for producing flow of air through said casing, an end member secured to said casing and formed with a port for flow of air therethrough, a hood member surrounding said end member and removably secured thereto, portions of said members being spaced from each other to provide an enclosed chamber, an electric switch carried by said end member and having a reciprocable plunger extending into said chamber, an operating member pivotally mounted on said end member and contacting said plunger so as to reciprocate the latter, said operating member extending through an opening in said hood member, the portion of

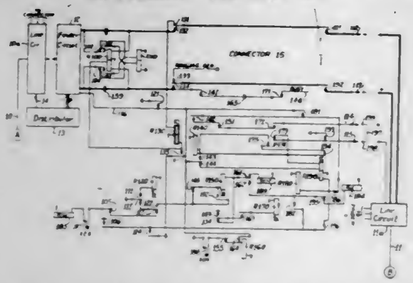
said end member which bounds said chamber being imperforate so as to prevent flow of air into said chamber.

2,312,427

AUTOMATIC SWITCHING APPARATUS

Clarence E. Lomax, Oak Park, Ill., assignor to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware

Application January 11, 1941, Serial No. 374,073
15 Claims. (Cl. 179—18)



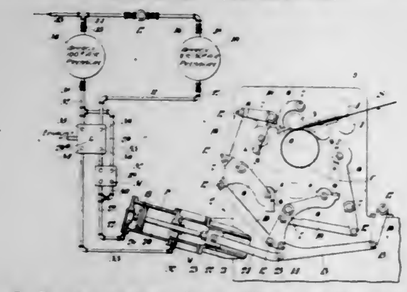
1. In a telephone system, a two-motion impulse responsive connector switch comprising movable contacts, a pair of operating magnets for respectively imparting the two motions to said movable contacts, a line relay, a change-over relay, said line relay being disposed in the magnetic field of said change-over relay and being so arranged that the leakage flux resulting from energization of said change-over relay assists in the energization of said line relay, circuits interconnecting said magnets, said change-over relay and the contacts of said line relay, and means for controlling said circuits so that said change-over relay is energized in series with one of said magnets during the transmission of one series of impulses to said switch and is energized in series with the other of said magnets during the transmission of a succeeding series of impulses to said switch.

2,312,428

APPARATUS FOR COILING STRIP MATERIALS AND THE LIKE

Edwin T. Lorig, Dormont, Pa.

Application December 17, 1940, Serial No. 370,556
5 Claims. (Cl. 242—78)



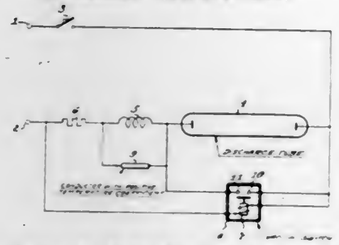
5. In apparatus for coiling continuous strip material, a plurality of pivotally mounted arms circularly arranged, a roller arranged on the inner end of each of said arms for contacting and guiding the strip material as it enters therebetween, a link member arranged between and interconnecting each of said arms, a fluid pressure cylinder for moving said link members together with said arms and the rollers carried thereby so that said rollers are arranged in one position to form cooperatively a substantially closed circular opening into which the strip material enters for coiling the same, a source of high pressure fluid, a fluid line connecting said source to one end of said fluid pressure cylinder, means arranged in said line between said source and said cylinder for reducing the fluid pressure in said line so that a low pressure fluid may be supplied thereby to that end of said cylinder, said low fluid pressure in said cylinder adapted to maintain the said arms together with the rollers carried thereby in their fully closed position and against the outer convolutions of the strip material of the coil continuously throughout the coiling thereof so that the arms together with the rollers carried thereby are moved gradually outwardly as the size of the coil increases in diameter thereby compressing the low pressure fluid in that end of said cylinder so as to increase the pressure therein whereby the pressure of said rollers against the successive convolutions of the coil increases as the weight and size of the coil increases so as to prevent slippage of the successive convolutions relative to each other, and a fluid line connecting said source to the opposite end of said cylinder whereby the high pressure fluid when introduced into that end of said cylinder will rapidly move said arms together with the rollers carried thereby to their fully open positions so as to permit removal of the coil after the coiling of the strip has been completed.

2,312,429

IGNITING AND OPERATING CIRCUIT FOR ELECTRIC DISCHARGE TUBES

Fritz Lucan, Berlin-Nikolassee, Germany; vested in the Alien Property Custodian

Application September 21, 1940, Serial No. 357,765
In Germany August 18, 1939
3 Claims. (Cl. 176—124)



1. A circuit arrangement for igniting and operating electric discharge tubes comprising a discharge tube, a reactor for ignition purposes in series with the tube to one terminal thereof, a ballast resistor in series with said reactor and tube to the same said terminal thereof, and a conductor whose conductivity increases when its temperature rises connected constantly in parallel closed circuit with said reactor and progressively diverting current from the reactor to pass through said conductor after current begins to flow.

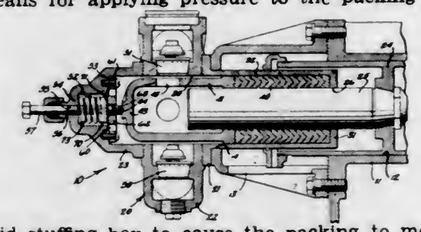
2,312,430

PUMP PISTON PACKING

Roy M. Magnuson, Campbell, Calif., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware

Application October 9, 1941, Serial No. 414,331
5 Claims. (Cl. 286—14)

1. In a pump the combination of: means forming a chamber having a piston opening; means forming a stuffing box about said opening; a piston extending through said stuffing box; means for applying pressure to the packing in



said stuffing box to cause the packing to more tightly conform to said piston; and means giving an audible signal to the operator when said pressure has reached a pre-determined value.

2,312,431

OIL-MODIFIED COMPOSITION AND ITS PREPARATION

Virgil E. Meharg and Arthur P. Mazzucchelli, Bloomfield, N. J., assignors to Bakelite Corporation, a corporation of New Jersey

No Drawing. Application August 18, 1938, Serial No. 225,572
11 Claims. (Cl. 260—19)

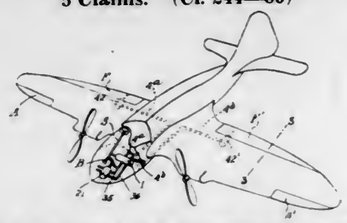
1. Method of preparing a composition suitable as a binder in a dry-process molded friction element which comprises reacting a mol of a phenol with 0.575 to 0.8 mol of formaldehyde in the presence of an acid catalyst until the formaldehyde has combined to form a resin, adjusting the pH of the reaction mass to within a range of 2.3 to 8.25, dehydrating, incorporating with the resin a vegetable oil in amount up to 50 per cent by weight of the resin, heating until a sample becomes brittle on cooling with a melting point of 80° C. or above and grindable to a fineness of 200 mesh or finer without sintering on standing at room temperature, and adding from 2 to 15 per cent of a hardening agent to make the composition thermo-setting under molding conditions of heat and pressure.

2,312,432

CONTROL OF TWO OR MORE CONCOMITANT DEVICES

Jean Mercier, Neuilly-sur-Seine, France; vested in the Alien Property Custodian

Application April 23, 1938, Serial No. 203,849
In Great Britain May 13, 1937
5 Claims. (Cl. 244—85)



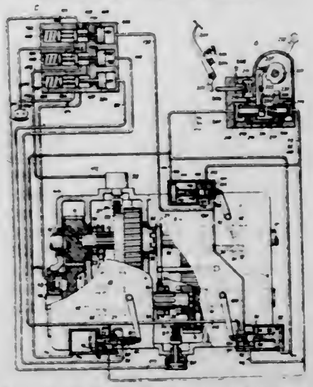
1. In a machine, the combination of two fluid actuated devices intended to be operated simultaneously and correspondingly, and capable, when operated in a different manner, of producing a disturbance in the working of said machine, control means independent of said devices and adapted to be actuated by the operator of the machine for correcting such disturbances, valve means for distributing fluid under pressure to said devices, said valve means comprising a valve body having inlet and outlet ports, means for alternatively connecting said ports to a supply and a discharge conduit, respectively, distributing ports in said valve body connected to said devices, respectively, and movable valve means inside said valve body normally affording communication between said distributing ports and said inlet and outlet ports and adapted, when displaced from neutral position, to restrict the communication between said inlet port and one of said distributing ports and simultaneously to restrict the communication between said outlet port and said other distributing port, and means for controlling said movable valve means from the outside, said means for controlling said movable valve means being operatively connected with said control means for correcting the disturbances in the machine.

2,312,433

DEVICE FOR OPERATING CHANGE SPEED GEARS IN MOTOR VEHICLES

Gustav Meyer, Friedrichshafen-on-the-Bodensee, Germany; vested in the Alien Property Custodian

Application February 12, 1941, Serial No. 378,658
In Germany February 15, 1940,
9 Claims. (Cl. 74—339)



1. In a change speed gear including a plurality of pairs of coacting gears, one gear of each pair being mounted on main shaft portions and the other gear of each pair being mounted on lay shaft portions, couplings between the gear pairs operative to establish driving connection from one gear pair to another gear pair, a plurality of selectively operable braking devices each operative to retard one gear pair, and actuating means for each braking device becoming operative in dependency on disconnection of the coupling establishing driving connection from the gear pair adapted to be retarded by said braking device to another gear pair.

2,312,434

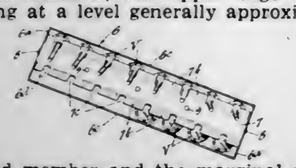
CARRIER FOR POPPET TYPE ENGINE VALVES

Herbert J. Nathan, Bismarck, N. Dak.

Application May 18, 1940, Serial No. 335,956
5 Claims. (Cl. 206—1)

1. A carrier for poppet type engine valves comprising, a flat base, a valve head-retaining member formed of flat material and disposed above said base in spaced, parallel relation therewith to co-operate therewith in forming a valve head-receiving chamber therebetween, structure rigidly interconnecting said base and said mem-

ber, and an upstanding flange carried by said base and extending in parallel, outwardly spaced relation with an edge of said member to partially define said chamber, the upper edge of said flange being at a level generally approximating



that of said member and the marginal portion of said member at said edge thereof being inclined outwardly and somewhat upwardly and having therealong a series of spaced, outwardly opening valve neck-receiving notches therein.

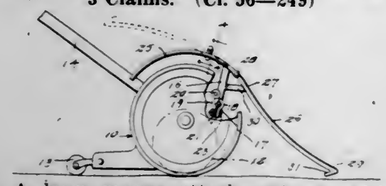
2,312,435

SHRUBBERY FENDER FOR LAWN MOWERS

Thomas L. Nelson, Delmar, Del.

Application October 27, 1941, Serial No. 416,705

3 Claims. (Cl. 56—249)



1. A lawn mower attachment comprising a support including a projecting lug portion and provision for detachably connecting with a lawn mower, a stationary fender carried by the support and arranged to arch over a wheel of the lawn mower, a movable fender pivoted to the said first fender and resting upon the projecting lug portion of the support, the said last fender being arranged to extend downwardly in advance of the mentioned wheel and the forward end thereof being bent back upon itself to provide a runner engageable with the ground to accommodate the fender to irregularities in the ground surface, and a spring catch adapted to retain the movable fender when the same is swung about its pivot and away from the supporting lug to assume an unobstructive position adjacent to the said stationary fender.

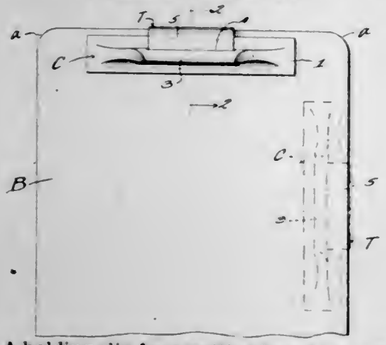
2,312,436

CLIP FOR WRITING BOARDS

Harold A. Oldham, Des Moines, Iowa

Application March 28, 1942, Serial No. 436,677

6 Claims. (Cl. 24—66)



1. A holding clip for a writing board comprising two members, one of said members constituting a clamping element and the other a tensioning element, the tensioning element constituting a longitudinally split tubular member, one longitudinal marginal portion of the tensioning member engaging the clamping member and the opposed marginal portion to engage the board from below, the clamping member being provided with a slot in which is received the coacting marginal portion of the tensioning member.

2,312,437

PLASTIC MASSES FROM POLYVINYL COMPOUNDS

Hans Orth, Troisdorf, Germany; vested in the Alien Property Custodian

No Drawing. Application August 11, 1939, Serial No. 289,626. In Germany August 15, 1938

3 Claims. (Cl. 260—36)

1. Plastic masses comprising polyvinyl compounds and ethers of low volatility selected from the group consisting of ethers of 1- and 2-hydroxymethyl-5,6,7,8-tetrahydronaphthalenes.

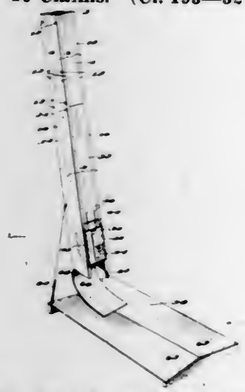
2,312,438

BOTTLE CHUTE

Frank Payment, Massena, N. Y.

Application January 16, 1942, Serial No. 427,058

10 Claims. (Cl. 193—32)



1. A bottle chute for guiding bottles dropping along a substantially vertical path, comprising an elongated body of rigid material having open upper and lower ends and a passage therebetween, means in said chute for retarding the descent of said bottles, said body having a substantially flat wall section, means pivoting said section to said body, the lower end of said section hanging freely downward and being swingable transversely of said path whereby to clear said chute, a stop on said casing for engaging said section to prevent the lower end thereof from swinging in one direction substantially beyond alignment with the remainder of said body, and resilient means engaged between said body and said section resiliently to resist swinging of said section in the opposite direction substantially beyond said alignment.

2,312,439

WOOD PLANING MACHINE

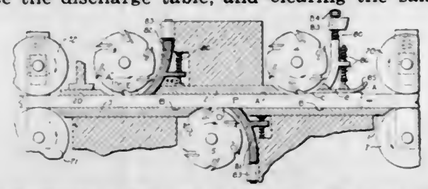
Thomas A. Peterson, Longview, Wash.

Application July 3, 1940, Serial No. 343,744

4 Claims. (Cl. 144—116)

1. In a double surface wood planer, a fixed feed table, a stationary guide in part overlapping

and in part extending beyond said feed table and spaced therefrom a given distance, a stationary discharge table in part overlapping and in part extending beyond the guide, and spaced therefrom less than the distance between said guide and said feed table, three planing cutter heads spaced along the path of travel of a lumber piece as defined by said tables and guide, the first cutter head being disposed opposite the feed table and clearing the same by an amount equal to the spacing between the feed table and the guide, to remove the first, rough cut from one surface of a lumber piece of normal or greater than normal thickness, the next cutter head being disposed opposite the guide and clearing the latter by an amount equal to the spacing between the guide and the discharge table, to remove a finish cut from the opposite surface of such piece, and the third cutter head being disposed adjacent to said stationary guide and opposite the discharge table, and clearing the same



by an amount less than the spacing between the guide and the discharge table, to remove a finish cut from the first surface of the piece, said cutter heads being disposed in closely juxtaposed relationship to each other along the path of travel of the lumber piece and the ends of said feed and discharge tables and the ends of said guide nearer said cutter heads being disposed closely adjacent to the respectively proximate cutter heads, to positively insure straight-line movement of and to hold against chattering throughout its length that portion of a lumber piece being planed which is disposed between said first and third cutter heads during advance of the lumber piece through the machine, thereby to avoid cutter head-produced ridges in the planed surfaces and to assure smoothness of said surfaces.

2,312,440

ALKALOID SALTS AND THE MANUFACTURE THEREOF

Jean Lucien Regnier, Paris, France; vested in the Alien Property Custodian

No Drawing. Application March 27, 1936, Serial No. 71,309. In France April 2, 1935

2 Claims. (Cl. 260—472)

1. A salt of β-phenyl-propionic acid and diethyl-amino-ethanol-p-amino benzoate.

2. A process for producing water-soluble anaesthetic compounds, which comprises reacting an anaesthetic base which is a para-aminobenzoic ester of an alkamine with an acylating agent the acyl group of which is that of an aralkyl monocarboxylic acid having, in its aliphatic parts, from 3 to 6 carbon atoms including the carbon atom of the carboxylic group, so as to form an acylated alkamine, and reacting the acylated alkamine with an acid.

2,312,441

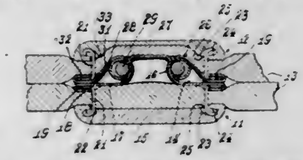
SNAP FASTENER

Harold J. Reiter, Chicago, Ill.

Application March 17, 1941, Serial No. 383,685

3 Claims. (Cl. 24—218)

1. A snap fastener socket installation comprising, in combination, a socket element made from a sheet of material and having an annular internally channelled socket wall, a split ring in the channel, a skirt integral with and extending downwardly and outwardly from the upper end of the channelled wall and having its outer marginal portion disposed substantially in the plane of the lower end of the said wall, the free circumferential edge portion of said marginal portion being folded upwardly and inwardly to provide a retaining flange, a ring carried on the top surface of said marginal portion beneath said flange, said ring being substantially the width of said retaining flange, and a plurality of



piercing tangs integral with the free inner edge of said ring and extending upwardly substantially at right angles to the plane of said ring in close proximity to the inner edge of the retaining flange to prevent distortion of the tangs at their bases when subjected to endwise pressure; a sheet of supporting material disposed over the socket element with the tangs extending therethrough; and an attaching element disposed over said material having a circumferential channel to receive said tangs, said attaching element including means to deflect the free ends of the tangs into said channel when the two elements are pressed together.

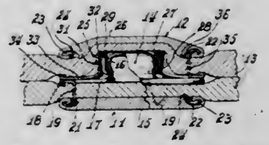
2,312,442

SNAP FASTENER

Harold J. Reiter, Chicago, Ill.

Application July 5, 1941, Serial No. 401,145

8 Claims. (Cl. 24—216)



1. A snap fastener element comprising, in combination, a stud receiving resilient socket, a flange integral with the upper end of said socket extending downwardly in close spaced relation annularly to the adjacent surface of the socket and terminating in a circular marginal portion disposed in a plane below the lower end of the socket, and a plurality of circumferencially spaced piercing tangs struck out of said flange inwardly of its free circumferential edge and disposed substantially at right angles to the plane of said marginal portion.

2,312,443

SNAP FASTENER

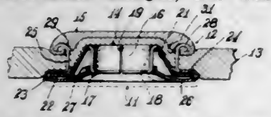
Harold J. Reiter, Chicago, Ill.

Original application July 5, 1941, Serial No. 401,145. Divided and this application June 12, 1942, Serial No. 446,692

10 Claims. (Cl. 24—216)

1. A snap fastener socket element comprising, in combination, a cylindrical stud receiving expansible socket, a circular flange integral with and extending downwardly from the upper end of said socket and then outwardly so as to dis-

pose its outer circumferencial margin substantially in the plane of the lower end of the socket, an internally channelled ring loosely embracing said circumferencial margin, one wall of said



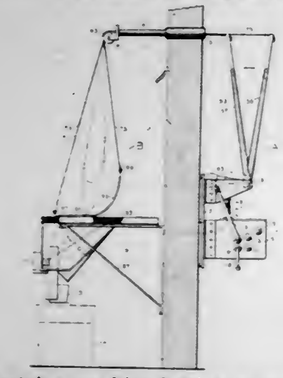
ring being of sufficient width to dispose its inner circumferencial edge in close association with the lower end of the socket and limit socket expansion, and a plurality of piercing tangs integral with the other wall of said ring.

2,312,444

MIXING MACHINE

Edmund P. Rochford, Kingston, N. Y., and Joseph Stuart, II, and Kurt Wassen, Wilmington, Del., assignors to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

Application April 20, 1942, Serial No. 439,626
5 Claims. (Cl. 259—29)



1. A mixing machine having in combination a mixing crank having a driving connection with a cam shaft; a series of cams affixed to the cam shaft; a series of lever arms reciprocally actuated by said cams; a series of cords each of which has one end connected to a respective lever arm; a flexible mixing mat having distended ends, each end of which is connected to the other respective end of each of the cords, said mat adapted to mix a material disposed thereupon in accordance with the reciprocating movement of the lever arms; a dumping crank integral with a dumping cam shaft; and a series of dumping cams affixed to the dumping cam shaft, said dumping cams adapted to actuate the lever arms to form a declined trough of the mixing mat whereby the mixed material is discharged therefrom.

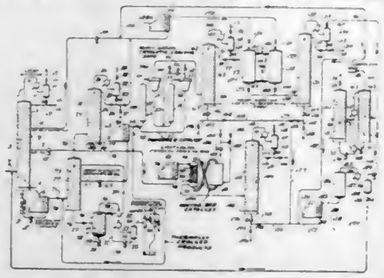
2,312,445

CATALYTIC COMBINATION PROCESS

Robert F. Ruthruff, Chicago, Ill.

Application May 13, 1940, Serial No. 334,741
13 Claims. (Cl. 196—49)

1. In the conversion of a hydrocarbon mixture of wide boiling range into hydrocarbons boiling within the usual motor fuel range, the process comprising fractionating said hydrocarbon mixture in a first fractionation zone to form a plurality of condensates including a condensate at least the major portion of which boils within the usual motor fuel range and a condensate at least the major portion of which boils above the usual motor fuel range; subjecting said higher boiling condensate, in the presence of a cracking catalyst, to a conversion temperature under catalytic cracking conditions to effect the formation of a high yield of gasoline components, subjecting catalytically cracked products to fractionation in a second fractionating zone to form a residue and a condensate comprising gasoline; blending the lower boiling condensate from said first fractionating zone with hydrogen from a source hereinafter described, subjecting the blend, in the presence of a reforming catalyst, to a conversion tem-



perature under catalytic reforming conditions to effect the formation of a high yield of aromatics within the usual motor fuel boiling range and hydrogen, subjecting catalytically reformed products to fractionation in a third fractionating zone to form a condensate comprising aromatics within the usual motor fuel boiling range and hydrogen; recycling a portion of said hydrogen to the catalytic reforming zone; subjecting the residue from said second fractionating zone in the presence of a hydrogenating catalyst and a portion of said hydrogen to a conversion temperature under hydrogenating conditions to effect the upgrading of said residue and passing upgraded residue to the first fractionating zone.

2,312,446

PLASTIC MATERIAL FROM VEGETABLE GLUES

Friedrich Schoenbeck, Wulkow, near Alt-Ruppin, and Erich Czapp, Berlin-Pankow, Germany; vested in the Alien Property Custodian

No Drawing. Application June 8, 1938, Serial No. 212,594. In Germany June 15, 1937
6 Claims. (Cl. 106—158)

1. A plastic material comprising a vegetable glue, an inorganic oxide gel material in the form of a paste and a cellulose ether.

2,312,447

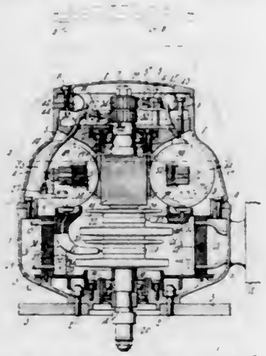
MULTICYLINDER MAGNETO

Wolfgang E. Schwarzmann, Longmeadow, and Frank S. Coe, Springfield, Mass., and Leon W. Rosenthal, New York, N. Y., assignors to American Bosch Corporation, Springfield, Mass., a corporation of New York

Application March 3, 1942, Serial No. 433,114
16 Claims. (Cl. 171—209)

11. In a multicylinder magneto of the gearless inductor type, a rotor shaft adapted to be coupled to an engine, distributor mechanism which includes a rotor mounted on the shaft and which also includes a stationary member having electrodes arranged in cooperation with the distributor rotor, interrupter mechanism which includes a cam mounted on the shaft and which also includes interrupter contacts arranged in cooperation with the cam, generator mechanism which includes a magnetic rotor mounted on the

shaft and which also includes a stator structure having a coil electrically connected to the distributor rotor and to the interrupter contacts and also having a supporting member supporting the interrupter contacts, a sectionalized frame which has a lower section fastened to the stationary distributor member and adapted to be fastened to the engine and which also has an upper section housing the generator and interrupter mechanisms and having a detachable cap, said shaft being journaled in the lower section of the frame and also being journaled in and supported by the supporting member, and the supporting



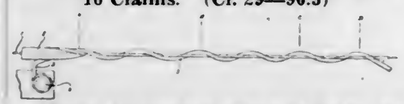
member being detachably fastened to the upper section of the frame beneath the interrupter cap and also being detachably fastened to the lower section of the frame, whereby upon removing the cap the supporting member may be detached from the upper housing section and then from the lower housing section, so that the rotor shaft with the parts mounted thereon together with the stator structure and inerrupter mechanism may be removed as a unit from the lower section of the frame without disturbing the stationary distributor member and without detaching the lower section of the frame from the engine.

2,312,448

STRAND HANDLING APPARATUS

John N. Selvig, Westfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application June 12, 1940, Serial No. 340,064
16 Claims. (Cl. 29—90.5)



1. A device for treating a strand drawn axially therethrough comprising a rod-like member formed into a helix having a plurality of turns and in which the internal diameter of the first turns is greatest, that of the next turns is least, and that of the last turns is intermediate.

2,312,449

CATIONIC EXCHANGE MATERIAL

Milton J. Shoemaker, Madison, Wis., assignor to Research Products Corporation, Madison, Wis., a corporation of Wisconsin

No Drawing. Application October 13, 1938, Serial No. 234,789.
10 Claims. (Cl. 252—179)

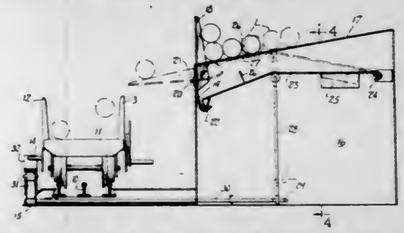
1. The method of preparing a carbonaceous cationic exchange material which comprises impregnating a granular carbonaceous material from the group consisting of fossil carbonaceous material, and wood, wood pulp and grain hulls which have been subjected to carbonization under conditions whereby they retain appreciable amounts of hydrogen, with an aqueous solution of up to approximately 30% by weight of an alkali until said granules have become softened and swollen, subjecting said treated material to an oxidizing action by means of free oxygen, subjecting said oxidized material to a dilute aqueous solution of an acidic reagent which forms water-soluble reaction products only with said alkali to neutralize the excess alkalinity in said granules, said solution of acidic reagent having an acidity equivalent to that of a concentration of from approximately 0.78% to approximately 10% by weight of sulfuric acid and water washing the excess of said acidic reagent from said granules.

2,312,450

DEVICE FOR STORING TOY LOGS AND LOADING TOY CARS THEREWITH

Richard G. Smith, Amsterdam, N. Y., assignor to The Lionel Corporation, New York, N. Y., a corporation of New York

Application April 20, 1940, Serial No. 330,672
4 Claims. (Cl. 214—41)



1. A toy for storing and delivering toy logs and the like, said toy comprising a sloping log supporting platform, stop means normally extending upwardly along the lower part of the platform and against which the logs roll and releasable to free the logs for rolling downwardly, and a check device spaced from the stop means and movable upwardly when the stop means is released to check the rolling of logs more remote from the stop means whereby a limited portion of the logs in the platform may be dischargd at a time, the stop means comprising stakes and means for normally locking them in a vertical position, the stakes when released being swung downwardly by the pressure of the logs behind them, the stake locking means being operated by the check device.

2,312,451

WELDING PROCESS

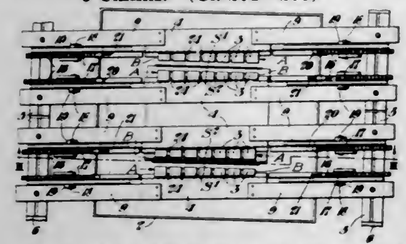
George N. Strike, Los Angeles, Calif.

Application May 2, 1941, Serial No. 391,528
7 Claims. (Cl. 29—148.2)



1. A welding process to produce a hollow body, comprising rolling recessed complementary heated elements, rolling the complementary elements together while still hot with the recesses facing each other, to weld the elements together by heat and pressure, and bending the body during the welding thereof to impart substantially uniform curvature thereto in one direction.

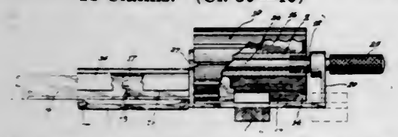
2,312,452
METHOD AND APPARATUS FOR CONTINUOUSLY ELECTROPLATING METALLIC STRIP
Ewart S. Taylerson, Pittsburgh, Pa., assignor to Carnegie-Illinois Steel Corporation, a corporation of New Jersey
Application April 28, 1939, Serial No. 270,708
6 Claims. (Cl. 204—206)



1. In the continuous electroplating of metallic strip, the method which includes supporting a series of aligned flat-faced soluble anodes with their flat faces in adjacent parallelism with a side of the strip, progressively moving said series of anodes across and in a path inclined toward the strip, the progressive movement and inclined path aforesaid coacting to maintain substantially uniform spacing between the strip and the series of anodes as the erosion of the latter progresses, successively removing worn anodes at one end of said series, and introducing fresh anodes at the other end of said series.

3. In apparatus for continuously electroplating metallic strip, a series of anodes supported transversely of the strip and substantially uniformly spaced from a side of the latter, said anodes progressively varying in cross section from a maximum adjacent one edge of the strip to a minimum adjacent the other edge thereof, and means for moving said anodes in the direction of their decreasing cross section transversely of and toward the strip to compensate for erosion of the anodes whereby the substantially uniform spacing aforesaid is maintained.

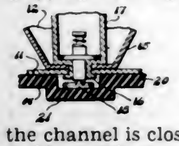
2,312,453
MAGAZINE FOR SAFETY RAZOR BLADES
Nicholas Testi, Boston, Mass., assignor to Gillette Safety Razor Company, Boston, Mass., a corporation of Delaware
Application February 7, 1942, Serial No. 429,852
11 Claims. (Cl. 30—40)



1. A magazine for thin sharp-edged blades, comprising a holder, a cylinder mounted for rotary movement in the holder and having a plurality of radial slots opening through the ends of the cylinder, each slot adapted to hold a blade, and means guided by the holder for removing a blade from the cylinder by endwise movement.

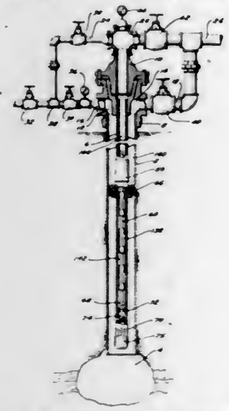
2,312,454
LAMP MOUNTING AND ASSEMBLY
Wagn Trautner, Springdale, Ohio, assignor to The K-D Lamp Company, Cincinnati, Ohio, a corporation of Ohio
Application September 3, 1940, Serial No. 355,205
3 Claims. (Cl. 177—329)

1. A lamp mounting consisting of a flexible flat metal strip having a lamp housing attached thereto, a rubber strip having an open wire-receiving channel in one face and lips at the edges thereof gripping the edges of the metal



strip, whereby the channel is closed by the metal strip and the rubber strip rendered coflexible with the metal strip, and means adapted to hold the opposite face of the strip in sealing conformation with a surface to receive the strip.

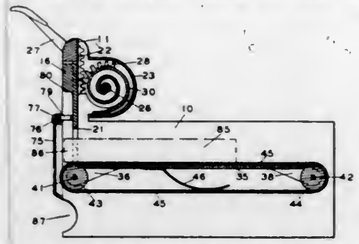
2,312,455
INTERMITTING SYSTEM FOR FLOWING WELLS
Lynn M. Trawick, Stroud, Okla.
Application September 3, 1940, Serial No. 355,274
15 Claims. (Cl. 103—233)



1. A system for controlling the lifting of well liquid including an eduction tubing disposed in a well, motive fluid inlet means interposed in the eduction tubing, intermittent means communicating with the inlet means and controlling the admission of motive fluid into the liquid at a point below the normal liquid level, said last mentioned means arranged in spaced relation in the eduction tubing and providing a choke for decreasing the volume of liquid to be lifted, differential means normally above the liquid level responsive to the hydrostatic head of the liquid being lifted for admitting motive fluid into the eduction tubing above the differential means and causing aerating of the liquid, and means for increasing the velocity of the motive fluid discharging into the eduction tubing.

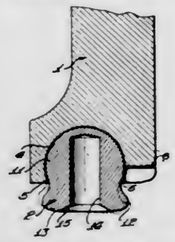
2,312,456
BUTTER DISPENSER
Franklyn C. Walters and Chester F. Proudman, New Canaan, Conn., assignors to The Walpro Products Corporation, New Canaan, Conn., a corporation of Connecticut
Application September 9, 1939, Serial No. 294,062
6 Claims. (Cl. 31—20)

1. A butter dispenser comprising a horizontal conveyor; cutting means above said conveyor and a closure for the discharge end of said conveyor comprising a door mounted to swing from closed to open position; an operating arm to open said door; a spring latch to hold said door in open position; and a trigger release for said latch to



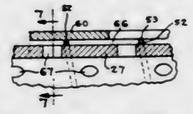
close said door in timed relation to said cutting means.

2,312,457
RIVET SET
Walter W. Weaver, South Gate, Calif., assignor to Aircraft Tools Inc., Los Angeles, Calif., a corporation of California
Application February 2, 1942, Serial No. 429,265
5 Claims. (Cl. 78—53.5)



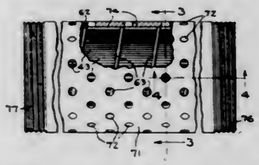
5. A rivet set comprising preformed and hardened ball and socket members, the margins of said socket having sufficient spring to admit and retain said ball member; an anvil formed on said ball member, and a stem continuing from said socket member for attachment to a riveting machine.

2,312,458
METHOD OF MAKING DEEP WELL SCREENS
Howard O. Williams, Minneapolis, and Albert A. Jens, St. Paul, Minn., assignors to Edward E. Johnson, Incorporated, St. Paul, Minn.
Original application August 1, 1938, Serial No. 222,410. Divided and this application April 15, 1940, Serial No. 329,749
2 Claims. (Cl. 29—163.5)



1. A method of making well screens which consists in providing a perforated pipe base and simultaneously rotating and advancing the same, providing a wire having a flat base and a narrowed edge and securing the end of said wire to the pipe base so the flat base of the wire contacts the pipe base, causing the wire to be fed to said pipe base as it is rotated and advanced so that the base of the wire will be laid helically upon the surface of said pipe base, progressively heating the wire as it is fed, thereafter cooling the wire to cause the same by contraction to grip the pipe base with its flat bases so as to be immovably held thereon and substantially integral therewith, holding on said helix of wire on said pipe base a multiplicity of screen forming elements similar in cross section to the cross section of the wire so that said elements will extend longitudinally in parallel relation with their narrowed edges engaging the narrowed edges of the helical coils and spaced to form longitudinal screening slots, again rotating and advancing the pipe base and screen-forming elements as held, causing a welding disc to travel over the longitudinal elements above said helix of wire, and transmitting a continuous electrical current through said welding disc and helical coil to cause the narrowed edges of the longitudinal elements to be welded to the narrowed edges of the helix of wire at every crossing point thereof.

2,312,459
METHOD OF MAKING DEEP WELL SCREENS
Howard O. Williams, Minneapolis, and Albert A. Jens, St. Paul, Minn., assignors to Edward E. Johnson, Incorporated, St. Paul, Minn.
Original application August 1, 1938, Serial No. 222,410. Divided and this application April 15, 1940, Serial No. 329,752
1 Claim. (Cl. 29—163.5)



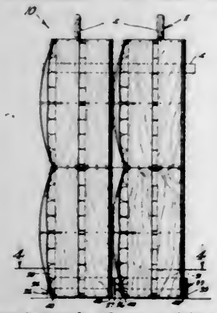
A method of making well screens which consists in holding a plurality of separate and disconnected longitudinal elements so that the outer and inner limits thereof falling within a transverse plane vertical to the lengths of the elements will outline circles with said several elements held spaced apart in said plane distances less than their widths to provide drainage slots, causing said rods as a body to be simultaneously rotated and advanced longitudinally across said plane while being continuously held in said spaced position, causing a wire to be fed in said plane to the outer surfaces of said rods as they are rotated and advanced so that the wire will be laid in helical coils upon the outer limits of said rods so spaced as to produce helical channels outside the rods many times the width of the wire, welding said wire to the rods at every crossing point thereof to form a screening surface made up of parallel longitudinal slots and held positioned by the helical coils of wire with wide helical spaces between said coils, forming a perforated pipe base of an inner diameter slightly less at the same temperature than the diameter of the cylinder outlined by the outer limits of said helical coils, bringing the perforated pipe base and the screening member including the helical coils thereon to such different temperatures that the pipe base may be applied over the helical coils, applying the pipe base to the helical coils when the temperatures are at such differences so as to bring certain perforations in the pipe base over the channels between the coils of the helix and thereafter permitting the temperatures to equalize, whereby the pipe base and screen member are immovably united through said helical coils to form together a substantially integral well screen device with the screening member on the inside of the pipe base and with helical channels extending between the screening surface and the inner surface of the pipe base.

2,312,460
APPARATUS FOR DEMONSTRATING LIGHT DISTRIBUTION
Stuart R. Williams, Newark, Ohio, assignor to Holophane Company, Inc., New York, N. Y., a corporation of Delaware
Application May 1, 1941, Serial No. 391,342
5 Claims. (Cl. 35—19)



1. A device for demonstrating light distribution from a luminair in a cone at a predetermined angle to the axis of the luminair comprising a transparent sheet of material formed into the surface of a cone of corresponding angle and bearing thereon indicia adapted to represent a photometric curve of the distribution to be demonstrated.

2,312,461
HAND TRUCK FOR CARRYING BOX-ON-END STACKS
Gilbert R. Woods, Whittier, Calif., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application December 15, 1941, Serial No. 422,996
5 Claims. (Cl. 214—65.5)



1. In a hand truck, the combination of: an upright frame; wheels on said frame about which said frame is adapted to be rocked in the operation of said truck; a pair of U-shaped clamping members slideably mounted on said frame close to the lower end thereof, each of said members having an outer clamping jaw and an inner clamping jaw the inner jaws of said members being adapted to by-pass each other; and means for shifting said members toward or away from each other to cause the inner jaw of one member and the outer jaw of the other member to cooperatively engage opposite portions of the bottom box of a stack of boxes which may be disposed between said jaws.

2,312,462
DYESTUFFS OF THE ANTHRAQUINONE SERIES
Alexander J. Wuertz and Donald P. Graham, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application February 24, 1941, Serial No. 380,302
2 Claims. (Cl. 260—274)

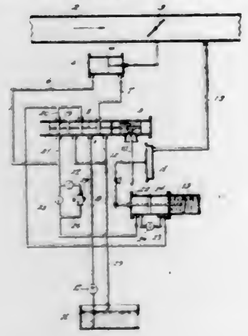
1. The olive to gray dyestuffs obtained by the condensation of a 6-bromo-Bz-1-1'-anthraquinonylamino-benzanthrone with 1 mole of a 1-amino-anthraquinone-2-phenyl-azo-methine and subjecting the resulting condensation product to a caustic alkaline condensation reaction.

2,312,463
POCKET FLASHLIGHT
Ewald Zdansky, Gross-Glienicke, Germany; vested in the Alien Property Custodian
Application February 3, 1941, Serial No. 377,158
In Germany February 3, 1940
7 Claims. (Cl. 240—10.6)



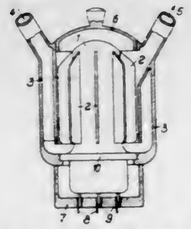
1. An electric lighting device comprising an elongated casing, a first transverse partition disposed in said casing and forming a closed lower and an open-ended upper compartment therein, a wet re-chargeable battery disposed in said lower compartment, a plurality of tubular extensions projecting from said first transverse partition downwardly into said lower compartment, a second transverse partition in said upper compartment forming a lower and an upper chamber therein, an absorbent packing disposed in said lower chamber, contact means disposed in said upper chamber and projecting laterally through the casing wall to the outside thereof, conductor means extending through said tubular extensions for engagement with terminals of said battery and for engagement with said contact means, and an electric lamp assemblage removably attached to the open end of said upper compartment for coaction with said contact means.

2,312,464
STABILIZER SYSTEM FOR REGULATORS
Herbert Ziebolz, Chicago, Ill., assignor to Askania Regulator Company, Chicago, Ill., a corporation of Illinois
Application August 3, 1940, Serial No. 350,711
4 Claims. (Cl. 121—41)



1. In a regulator of the hydraulic fluid type, an impulse system comprising a pilot valve responding to condition changes, a piston controlling the condition, a source of fluid to be controlled to operate said piston including a pair of conduits, a variable orifice in one of the conduits connecting the fluid source and pilot value to the piston, means for varying the size of the orifice proportionally to the pilot valve travel or displacement, means responsive to the pressure drop across the variable orifice, means for resetting the system in accordance with the movement of the pressure differential responsive means, restoring means to return the pressure differential responsive means into its neutral position, means to vary the rate of the restoring action, and means to vary the rate of travel of the differential pressure responsive means.

2,312,465
COOLED ELECTRON TUBE
Heinrich Zodtner, Berlin, Germany; vested in the Alien Property Custodian
Application March 13, 1941, Serial No. 383,161
In Germany March 2, 1940
1 Claim. (Cl. 250—27.5)



A cooling arrangement for a short wave electron tube provided with a base having lead in contacts and an envelope having a series of radially disposed cooling fins, comprising a vessel, an opening at the top of said vessel to receive said tube base foremost, a cover for said opening, a socket built into the bottom of said vessel provided with contacts to cooperate with those in the base of said tube, a shoulder formed at the base of said vessel coaxially with said socket, a rim on said tube adapted to cooperate with said shoulder and thereby form a closure for said socket, a wall depending from the top part of said vessel partway to said shoulder formed to enclose the lateral openings between the fins on said tube and to provide an air space between said wall and that forming the outer part of said vessel, an air inlet disposed at the top of said vessel communicating with said air space whereby air flowing therethrough passes through said air space to the bottom of the vessel and then flows upward through the spaces between the fins on said tube, and an air outlet opening disposed to permit air to flow out from the upper part of said vessel.

2,312,466
OXYGEN-BEARING ORE FLOTATION
Stephen Edward Erickson, Springdale, and David Walker Jayne, Jr., Old Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application February 8, 1940, Serial No. 317,888
15 Claims. (Cl. 209—166)

1. A method of concentrating oxygen-bearing ore materials which comprises carrying out the concentration operation in the presence of an effective amount of a collector of the group consisting of monoglycerol esters of an eighteen carbon-atom-containing fatty acid, diglycerol esters of an eighteen carbon-atom-containing fatty acid, glycol esters of an eighteen carbon-atom-containing fatty acid, and butyl esters of an eighteen carbon-atom-containing fatty acid.

2,312,467
STABILIZED PROTEIN CURD
Francis Clarke Atwood, Newtonville, Mass., assignor to Atlantic Research Associates, Inc., Newtonville, Mass., a corporation of Delaware
No Drawing. Application October 16, 1937, Serial No. 169,469
2 Claims. (Cl. 106—138)

1. The method of producing a stable, granular casein product of dry appearance adaptable for shipment in bags and free from dispersing agents, which comprises mixing moist, freshly formed casein curd containing not over 70% moisture with dry powdered sodium fluoride.

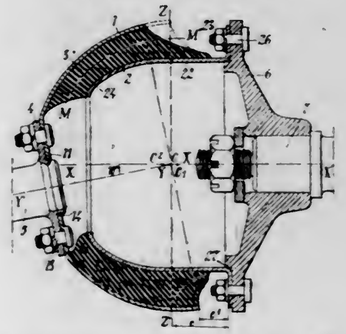
2,312,468
PRODUCTION OF SUCCINIC ACID
Friedrich Ebel, Mannheim, and Friedrich Pyzik, Ludwigshafen-on-the-Rhine, Germany; vested in the Alien Property Custodian
No Drawing. Application March 8, 1941, Serial No. 382,447. In Germany December 15, 1939
6 Claims. (Cl. 260—537)

1. A process for the production of succinic acid which consists in subjecting tetrahydrofurane in the liquid phase to oxidation by a nitrogenous oxidizing agent selected from the group consisting of nitric acid and higher oxides of nitrogen.

2,312,469
SIZED SYNTHETIC LINEAR POLYAMIDE YARN
Henry H. Freund, Richmond, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 14, 1941, Serial No. 393,411
10 Claims. (Cl. 117—139)

4. A synthetic linear polyamide yarn containing, as an adherent coating, a sufficient quantity of a substantially water-insoluble protein size to render the yarn snag-resistant in the production of sheer knit goods, said size containing a plasticizing agent and a hardening agent for said protein.

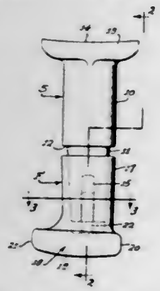
2,312,470
RESILIENT TRANSMISSION JOINT
Maurice François Alexandre Julien, Paris, France; vested in the Alien Property Custodian
Application January 11, 1939, Serial No. 250,452
In France February 19, 1938
7 Claims. (Cl. 64—11)



1. A resilient joint comprising inner and outer substantially hemispherical members having centres spaced apart along an axis, and a mass

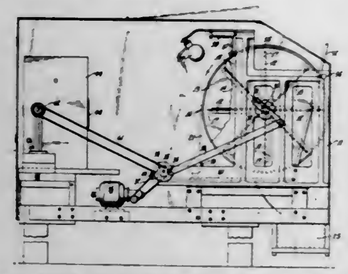
of resilient material arranged between said members and adhesively connecting the same, the resilient material having a thickness which diminishes towards the axis of said members, the area of adhesion of the resilient material with said inner member being at least equal to that of the area of adhesion with the outer member.

2,312,471
SHEEP FOOT TAMPER
John J. Low, Los Angeles, Calif.
Application August 3, 1940, Serial No. 350,453
3 Claims. (Cl. 94—48)



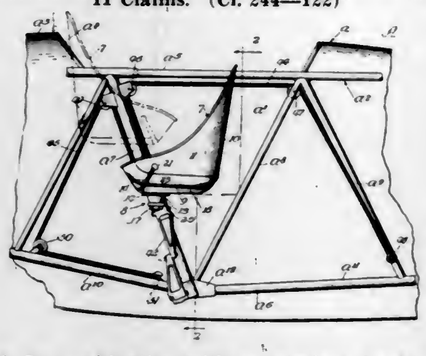
1. A sheep foot tamper, comprising a metal base, a collar on the base having an internal taper, tongues on the inner periphery of said collar extending lengthwise thereof, a metallic foot having a shank tapered at its outer end to conform to the internal taper of said collar, said shank having grooves lengthwise therein to slidably receive said tongues.

2,312,472
PHOTO RECORDING DEVICE
Frank E. Oiler, Pelham, N. Y., assignor to International Photo Recording Machines, Inc., New Rochelle, N. Y., a corporation of New York
Application February 14, 1941, Serial No. 378,859
8 Claims. (Cl. 88—24)



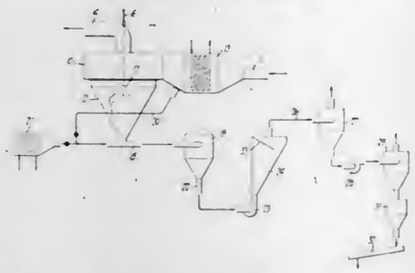
2. A record photographing device which comprises a rotary carriage wheel comprising alternate transparent plates and mirrors, the mirrors being angularly arranged on each side of said plates to reflect in the same outward direction respectively images of the top and bottom of any record placed on its surface, a camera positioned and focused to photograph both reflection from the mirrors of a pair when the plate between them is approximately horizontal, and means for positioning the wheel intermittently with said plates and mirrors successively in said approximately horizontal position, and means for illuminating both sides of said record when in said position.

2,312,473
ADJUSTABLE AIRPLANE SEAT STRUCTURE
George W. O'Hare, Bellflower, Calif., assignor to Vultee Aircraft, Inc., Downey, Calif., a corporation of Delaware
Application October 21, 1940, Serial No. 362,036
11 Claims. (Cl. 244—122)



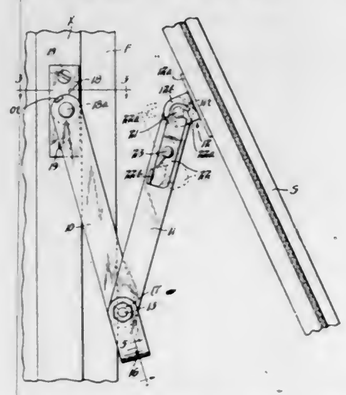
1. In combination with an airplane having a cockpit with a fixed upstanding structural member therein, a seat structure comprising a seat in the cockpit, and a single elongated rigid horizontal bracket extending between the bottom of the seat and the member and having one end thereof pivotally connected to the seat bottom so that the seat is rotatable bodily about a substantially vertical axis and its other end slidably connected to the member so that the bracket together with the seat is adjustable up and down, said bracket having releasable means at its said other end for locking it in its various adjusted positions and serving together with said releasable means and the structural member as the sole supporting medium for the seat.

2,312,474
DRYING METHOD
David D. Peebles, Berkeley, Calif., assignor to Golden State Company, Ltd., San Francisco, Calif., a corporation of Delaware
Application October 10, 1939, Serial No. 298,795
12 Claims. (Cl. 159—48)



2. In a method of drying liquid material containing protein susceptible to coagulation by heating, the steps of maintaining at least two zones of drying gas by continuous introduction of hot gas into and removal of gas from each zone, spraying the material into one zone with suspension of the particles in the drying gas whereby evolution of moisture converts the material into moist but solid particles without coagulation of protein, and then causing the particles to progress in a stream of gas without rest into the second zone with suspension of the particles in the gas maintained in said second zone for further removal of moisture content to form an anhydrous product substantially free of combined moisture, the gas introduced into the second zone having a relative humidity substantially less than the relative humidity of the gas discharged from the first zone.

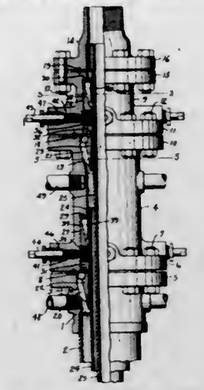
2,312,475
SASH HOLDER AND LOCK
Hans E. Petersen, Minneapolis, Minn., assignor, by mesne assignments, to Carl Olson, Minneapolis, Minn.
Application November 27, 1939, Serial No. 306,332
2 Claims. (Cl. 292—263)



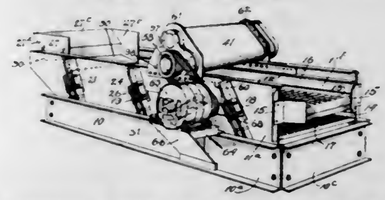
1. In combination with a sash frame and swinging sash mounted therein, a sash holder and lock comprising, a pair of toggle arms having a common pivotal connection, one of said arms being pivoted to said sash frame and the other thereof being pivoted to said sash, said pivotal connections spacing the opposing surfaces of said arms apart and being at such points with respect to said frame and sash as to be disposed substantially axially of each other with said arms in overlying relationship when said sash is closed, whereby said arms may be bodily swung in unison on said axially disposed connections, said arms at their extremities adjacent said axially disposed connections having cooperating opposed abutment lugs extending perpendicularly to their opposed faces, and having edge abutment surfaces meeting in a line disposed in a plane passing through the axially disposed connections when said arms are in overlying position, said lugs interlocking to prevent opening of said sash when said sash is closed and said arms swung in unison through substantially 180 degrees from their normal closed position.

2,312,476
WELL HEAD
Arthur J. Penick and Kirby T. Penick, Houston, Tex.
Application May 26, 1939, Serial No. 275,924
7 Claims. (Cl. 166—14)

1. A tubular well head having an internal seal ring support, an annular seal ring on the support, a slip seat on the seal ring, a pipe engaging slip supported by the slip seat and engageable with an inside pipe, said head having a radial bore into which the material of the seal ring extends and means accessible from the outside of the head to apply inward pressure to the material in the bore to cause the same to flow into the material of the seal ring.



2,312,477
VIBRATING SCREEN
Harold C. Pollitz, Cedar Rapids, Iowa, assignor to Iowa Manufacturing Company, Cedar Rapids, Iowa, a corporation of Iowa
Application August 3, 1940, Serial No. 350,525
1 Claim. (Cl. 209—329)

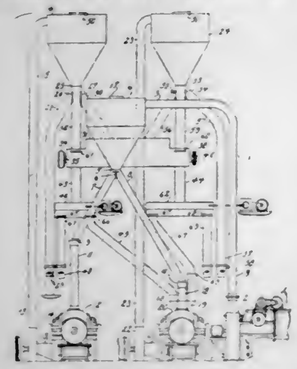


A vibrating machine comprising a base, a member to be vibrated, a plurality of leaf springs secured to said base and extending obliquely upwardly therefrom into secured engagement with said member, said springs forming a cantilever floating support for said member, a vibration-exciting mechanism mounted on said member and forming a floating assembly therewith, said mechanism including a pair of heavy shafts eccentrically mounted for rotation in opposite directions with respect to each other and at the same speed, and which shafts provide a uniformly distributed off-center load over substantially the entire length of said shafts, the unbalanced forces created by the rotation of said shafts being symmetrical about a plane passing between the shafts and perpendicular to the direction of extension of said springs, said vibration-exciting mechanism being located on said member in a position such that the plane of action of the vibrating forces passes directly through the center of gravity of said floating assembly.

2,312,478
MATERIAL SUBDIVIDING INSTALLATION
Oliver W. Randolph, Toledo, Ohio
Application February 3, 1941, Serial No. 377,083
2 Claims. (Cl. 83—93)

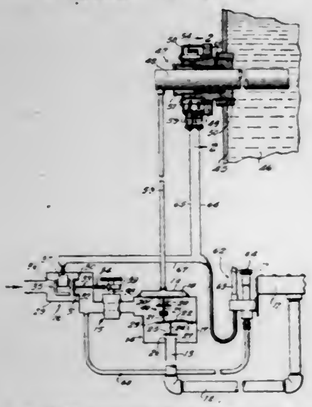
2. In combination a pair of mills, a pair of dust collectors, a conduit with pneumatic means to convey pulverized material from each mill to each dust collector, a housing enclosing a mixing and proportioning device, a conduit connecting each

collector with said housing to convey solids to the proportioning device, a pair of separate screens, a conduit connecting the proportioning device with each screen, means in the proportioning device to mix materials and proportion the same to each of the last mentioned conduits; a second conduit leading from each collector to the housing of the proportioning device and positioned to discharge



directly into one of the conduits connecting the proportioning device with a screen, valve shut off means in each of said second conduits positioned at entrance of said proportioning device, a conduit arranged to receive the overs from each screen and convey same to one of the mills and another conduit arranged to receive throughs from each screen and discharge same as finished product.

2,312,479
CONTROL SYSTEM
William A. Ray, Glendale, Calif.
Application March 28, 1941, Serial No. 385,719
3 Claims. (Cl. 236—21)



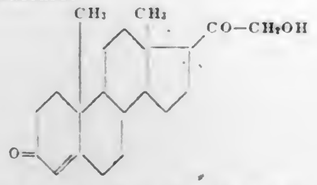
1. In a heating control system for a space: a burner for heating the medium in said space, a first valve for supplying fluid fuel to said burner, thermostatic means responsive to the temperature of said medium for controlling said first valve so that the temperature of the medium is normally maintained between predetermined limits, said thermostatic means including a thermal bulb immersed in said medium, a safety valve connected in series with said first valve and biased to closed position, manually operable means for opening said safety valve, means for normally retaining said safety valve in open position against the force of said bias, and thermostatic means mounted on said thermal bulb for rendering said safety valve retaining means ineffective upon abnormal rise of temperature adjacent the bulb.

2,312,480
DERIVATIVES OF PREGNANE AND PREGNENE
Tadeus Reichstein, Zurich, Switzerland, assignor, by mesne assignments, to Roche-Organon, Inc., Nutley, N. J., a corporation of New Jersey
No Drawing. Application March 10, 1938, Serial No. 195,161. In Switzerland March 22, 1937
14 Claims. (Cl. 260—397.4)

1. A process comprising subjecting cyclopentano-polyhydro-phenanthrene carboxylic acid halides substituted in the nucleus (the substituents belonging to the class consisting of H, halogen, hydroxyl, acyloxyl, alkoxyl) to the action of diazomethane.

2,312,481
SUBSTITUTED DERIVATIVES OF SATURATED OR UNSATURATED PREGNANE-DIONES
Tadeus Reichstein, Zurich, Switzerland, assignor, by mesne assignments, to Roche-Organon, Inc., Nutley, N. J., a corporation of New Jersey
No Drawing. Application March 10, 1938, Serial No. 195,162. In Switzerland March 24, 1937
18 Claims. (Cl. 260—397.4)

1. As a new compound pregnene-4-dione-3,20-ol-21 having the general formula $C_{21}H_{30}O_3$ and the structure:



it forms long needles, often triangles or cut triangles are observed becoming opaque at approximately 100° C. and melting at 137–139° C. (corr.); a solution of this compound reduces an ammoniacal silver solution in the cold; the ultra violet spectrum shows the typical band of the α-β-unsaturated ketones at 240 mμ and the compound is soluble in glacial acetic acid, ethanol, methanol, acetone, dioxane, benzene, ether, sparingly soluble in petroleumether and water.

2,312,482
DERIVATIVES OF THE CYCLOPENTANO-POLYHYDROPHENANTHRENE SERIES
Tadeus Reichstein, Basel, Switzerland, assignor, by mesne assignments, to Roche-Organon, Inc., Nutley, N. J., a corporation of New Jersey
No Drawing. Application January 9, 1939, Serial No. 250,025. In the Netherlands January 13, 1938
13 Claims. (Cl. 260—397.4)

1. A process comprising oxidizing compounds of the cyclopentano-dimethyl-polyhydro-phenanthrene series having at C_{17} a side chain of the form $—CHR_1.CH_2R_2$, R_1 and R_2 standing for radicals which are convertible into a hydroxyl group, and a hydroxyl group at the carbon atom C_3 to convert the C_3 hydroxyl group to a keto group.

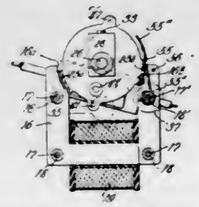
2,312,483
COMPOUNDS HAVING A PREGNANE OR PREGNENE SKELETON
Tadeus Reichstein, Basel, Switzerland, assignor to Roche-Organon, Inc., Nutley, N. J.
No Drawing. Application February 7, 1941, Serial No. 377,915
9 Claims. (Cl. 260—397.4)

1. A cyclopentano - dimethyl - polyhydro-phenanthrene compound having at the C_{17} carbon atom a side chain of the form $—CO—CH_2R$ wherein R is selected from the group consisting of halogen, hydroxyl, alkoxyl, aralkoxyl and acyloxyl, and having at the C_3 carbon atom a substituent selected from the class consisting of hydroxyl, acyloxyl, alkoxyl and keto.

2,312,484
METHOD OF PREPARING CYCLOPENTANO-POLYHYDROPHENANTHRENE KETOLS AND ESTERS THEREOF
Tadeus Reichstein, Basel, Switzerland, assignor to the firm of Roche-Organon Incorporated, Nutley, N. J.
No Drawing. Application May 16, 1941, Serial No. 393,833. In Switzerland August 16, 1940
4 Claims. (Cl. 260—397.4)

1. A process for the manufacture of ketols of the saturated and unsaturated cyclopentanopolyhydrophenanthrene series, which comprises treating compounds of the said series, containing a side chain —CHR—CHO, wherein R is a member of the group consisting of a free and an esterified hydroxyl, with an enolising agent, the said chain being thus transformed into $—COCH_2OH$.

2,312,485
RELAY
Louis E. Richmond, Shelby, Ohio, assignor to The Autocall Company, Shelby, Ohio, a corporation of Ohio
Application December 4, 1939, Serial No. 307,470
1 Claim. (Cl. 175—336)



In a relay structure for actuating a mercury tube switch, the combination of an electromagnet including a field structure comprising a pair of field poles, a pivot pin mounted substantially centrally between said field poles, said field poles having arcuate faces substantially concentric with respect to said pivot pin, an armature mounted substantially centrally on said pivot pin for oscillatory movement relatively to said field structure and comprising a pair of arcuate armature poles which are formed substantially concentric with respect to said pivot pin and which normally lie substantially out of registry with said arcuate field poles, thereby resulting in a two-gap field structure in which both gaps are of approximately the same dimensions, and automatic brake means for imposing a dead-beat retarding force on the oscillatory motion of said armature, said brake means comprising an arcuate brake shoe of magnetic material pivotally mounted on a pivot axis carried by said field structure in spaced relation to said pivot pin, said brake shoe projecting as an extension from one of said field poles and normally lying in proximity to one of said armature poles, to be effective at one of said gaps whereby said brake shoe establishes an unsymmetrical flux path through said field and armature poles at one of said gaps when said armature is in its normal position, said brake shoe being attracted magnetically into direct contact against said latter armature pole for exerting a frictional retarding force on the armature when the electromagnet is energized.

2,312,486
TRACTION INCREASING DEVICE
Schiller R. Riesen, Ponca City, Okla., assignor of seventy per cent to Avy V. Masterson, Belleville, Kans., and ten per cent to J. G. Shreckengaust, Ponca City, Okla.
Application April 2, 1941, Serial No. 386,517
1 Claim. (Cl. 152—220)

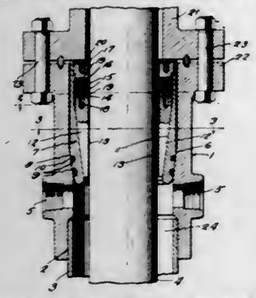


A traction increasing device for dual disk wheel assemblies wherein the adjacent wheels are slightly spaced apart and the webs thereof are provided with opposed edge openings; a tread plate disposed transversely across the tires of a dual wheel assembly and having angular straight end portions for fitting against the outermost side portions of the tires of the dual wheel assembly, an open tapered riser at the intermediate portion of the bridge member adapted to be wedged between the tires and having an opening in the outer portion thereof, an elongated rod for disposition between the wheels of an assembly and having one end disposed through the opening in the riser, and provided with securing means thereon for securing the rod to the riser, and a clamp structure at the remaining end of the rod comprising a flat bar adapted to be inserted at its ends into said openings to bear against the edges thereof, said ends being inclined to prevent the same from creeping off said edges, said tread plate having a traction increasing cleat thereon.

2,312,487
WELL CONTROL HEAD
Edmund J. Roach and Edward F. Cooke, Jr., Beaumont, Tex.
Application November 18, 1941, Serial No. 419,646
7 Claims. (Cl. 285—22)

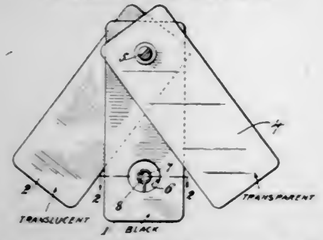
1. Casing control head for oil wells comprising a casing head having a planiform upper end and a longitudinal bore with an internal tapered seating shoulder for supporting a slip bowl unit adapted to surround an inner casing, said slip

bowl unit including a slip bowl with a complementary tapered external seat, said external seat being formed with ring grooves and expansible packing in said grooves normally extending therefrom adapted to be pressed sealingly against said casing head seat under the pressure of said slip bowl unit, said slip bowl projecting a



slight distance above the upper end of said casing head, a member engaging the projecting end of said slip bowl and bolted to the upper end of said casing head for positively holding said slip bowl unit to its seat and means within said slip bowl cooperating therewith to maintain said slip bowl unit wedgingly fixed to said inner casing.

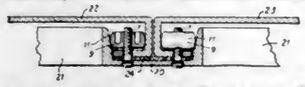
2,312,488
COAGULOMETER
Robert L. Rowland, Ogden, Utah
Application March 15, 1940, Serial No. 324,150
6 Claims. (Cl. 88—14)



1. An apparatus for determining the time period for the coagulation of a specimen of blood comprising, a main section provided with an opening, a film supporting member having an aperture therein, the edges of which are capable of supporting a blood film by surface tension and producing a thin spot in the film, said supporting member being carried by the main section within said opening, said member being of less thickness than said main section, a movable back section adapted to cover the lower end of said opening, and a top section adapted to cover the upper end of said opening whereby said back section and said top section cooperate with the main section, to seal a blood film on said film supporting member against evaporation.

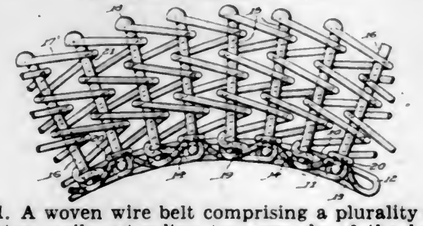
2,312,489
MEANS FOR ATTACHING PANELS TO FRAMEWORK
Ernest Schaefer, Fairview Village, Ohio, assignor to Ernest Gustav Schaefer and Anna Elizabeth Schaefer, both of Fairview Village, Ohio
Application February 25, 1941, Serial No. 380,526
11 Claims. (Cl. 189—34)

10. In a structure of the character described, a frame consisting of members having flange portions, a panel having flanges at the edges, fastener units disposed adjacent said edges between the flanges of said frame and panel, certain of said flanges having surfaces inclined angularly to



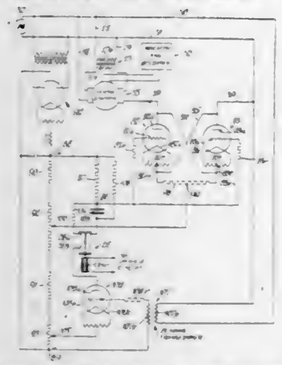
the plane of said panel, and means effective to simultaneously draw said fastener units toward said frame and against said inclined surfaces to thereby place said panel under tension.

2,312,490
FLEXIBLE WIRE BELT
Otto Carl Scherfel, Philadelphia, Pa., assignor to Audubon Wire Cloth Corporation, a corporation of New Jersey
Application August 28, 1940, Serial No. 354,568
7 Claims. (Cl. 198—201)



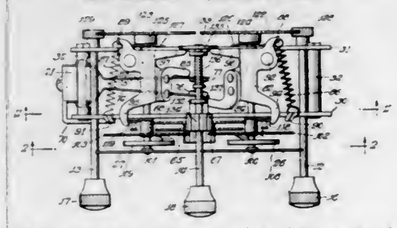
1. A woven wire belt comprising a plurality of bottom coils extending transversely of the belt and successively connected together to form a flexible structure, cross rods extending through said bottom coils and having the ends thereof at each edge of the belt projecting in a plane at an angle with respect to the plane of the belt to form flange defining posts, and flange forming coils secured to each of said posts and movably engaging an adjacent post, the turns of said flange forming coils being of greater length than the turns of said bottom coils to permit limited turning movement of each of said rods with respect to adjacent rods.

2,312,491
REMOTE METERING SYSTEM
Herbert P. Siewert, Waukegan, Ill.
Application October 7, 1939, Serial No. 298,517
8 Claims. (Cl. 177—351)



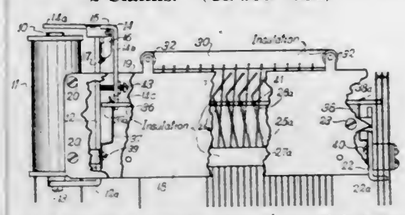
1. A telemetering system comprising, in combination, a transmitter for sending impulses at a rate per unit time which is determined by a variable to be transmitted; a multiplying device having means responsive to two electrical characteristics and means for measuring the product of said characteristics; means for maintaining both of said characteristics substantially constant, and means for reducing one of said characteristics from its otherwise constant value in accordance with the rate per unit time that said impulses are received.

2,312,492
TIME SWITCH
Max Schlenker, Peru, Ill., assignor to General Time Instruments Corporation, New York, N. Y., a corporation of Delaware
Application July 20, 1940, Serial No. 346,480
12 Claims. (Cl. 200—39)



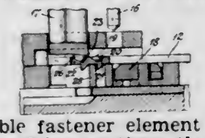
1. A time switch comprising two spaced parallel plates, time responsive means mounted on said plates, resilient electric contact members mounted on said plates and insulated therefrom and being normally spaced from each other in "set" and "off" positions, and contacting each other in "on" position, spring biased means adapted to be rele[illegible]rom displaced positions by said time respon[illegible]means to cause said contact members to successively assume "on" and "off" positions at predetermined times, and a single manually actuated means engaging said spring-biased means for restoring the same from "off" to "set" position without changing the relative position of said contact members.

2,312,493
RELAY
Hans Sengebusch, Villa Park, Ill., assignor to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application December 26, 1940, Serial No. 371,625
2 Claims. (Cl. 200—104)



1. A switching mechanism comprising two independent unitary side plate assemblies, two end members, and an actuating bar disposed between said side plate assemblies and said end members; each independent unitary side plate assembly comprising a flat plate, a row of passive contacts, a row of associated active switch springs, an insulating block, notches in said block for anchoring said contacts and springs at one of their ends in alternate relationship with each other, an insulating strip having notches for anchoring only said passive contacts at their other ends, said active springs being free at their other ends, and means fastening said insulating block and said insulating strip with its anchored contacts and springs in said notches to said plate to form an independent unitary side plate assembly; means for movably mounting said actuating bar on said end members, notches in said actuating bar for engaging the free ends of said active springs whereby said springs are flexed for switching relationship with their associated passive contacts when said actuating bar is moved, and means for independently mounting each unitary side plate assembly to said end members with one side plate assembly directly opposite the other side plate assembly, said last mounting means being such that either side plate assembly can be assembled to said end members and actuating bar or removed therefrom without affecting the other side plate assembly and its relationship with said actuating bar.

2,312,494
MANUFACTURE OF SEPARABLE FASTENER ELEMENTS
John G. Soave, Long Island City, N. Y., assignor to Waldes Koh-I-Noor, Inc., New York, N. Y., a corporation of New York
Original application July 3, 1939, Serial No. 282,686, now Patent No. 2,256,796, dated September 23, 1941. Divided and this application March 31, 1941, Serial No. 386,068
6 Claims. (Cl. 24—205)

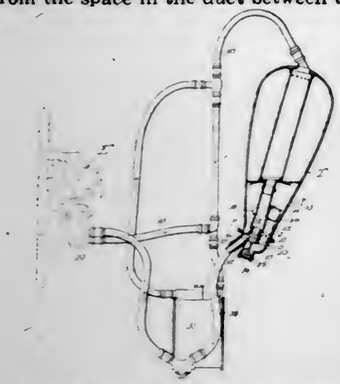


1. A separable fastener element comprising a head portion and jaw portions, the head portion of said element being substantially semi-circularly shaped and having a recess in one face and a pin projecting from the opposite face, the outer end portion of said pin being adapted to engage with the recess of another element, said pin in the recess engaging portion thereof having a cross-sectional area substantially less than the area of said recess and said recess having a forward wall which curves upwardly in a convave fashion from the bottom of the recess, the head portion of said element in the region of said recess and pin being reduced in thickness and the material thereof being denser than that of the remainder of the element, said jaw portions having straight parallelly disposed outer sides and transversely disposed ends, the exterior surfaces of said jaw portions intermediate the side and end edges being chamfered, and the interior sides of said head and jaw portions being substantially circular in form.

2,312,495
TANK OUTLET UNIT
Romus Soucek, Whittier, Calif., assignor to Vultee Aircraft, Inc., Vultee Field, Calif., a corporation of Delaware
Application February 20, 1942, Serial No. 431,692
8 Claims. (Cl. 137—21)

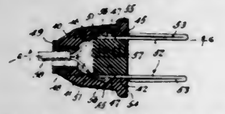
1. An outlet unit adapted for use in connection with a tiltable liquid containing tank and comprising means associated with the normal bottom of the tank and forming a J-shaped duct having the end of the short leg thereof communicating with the tank interior near said normal bottom and serving as a low level liquid inlet and the end of its long leg communicating with the interior of the tank at a point above the low level inlet and serving as a high level liquid inlet, a pair of spaced apart valve seats positioned in the short

leg of the duct so that they face one another and constituting the discharge ends of the two inlets, respectively, means forming a liquid outlet leading from the space in the duct between the valve



seats, and a single gravity responsive valve mounted loosely in said space and adapted to seat against either seat, depending upon the angular position of the tank.

2,312,496
ELECTRICAL OUTLET PLUG
Edward G. Schaeffer, Holyoke, Mass.
Application April 9, 1941, Serial No. 387,603
3 Claims. (Cl. 173—361)



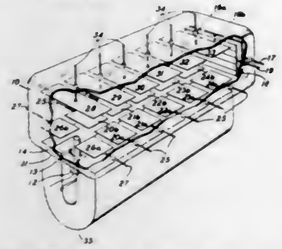
1. In an electric outlet plug, a body of insulation material having a recess of cross sectional oblong shape extending axially inward from the forward end of the plug body, opposite side walls of the recess having depressions extending longitudinally of said side walls to the end walls thereof and spaced from the mouth of the recess, a pair of contact prongs each having a pair of lateral projections adjacent the inner end thereof to provide an inner end portion of greater width than the width of the mouth of said recess, said prongs having their inner end portions disposed in said recess in engagement with the opposite end walls thereof respectively with the projections extending into said depressions, and a block of insulation material fitted within the recess between said pair of prongs and functioning to clamp the prongs in flat contact respectively with the opposite end walls of the recess.

2,312,497
ELECTRIC DRY SHAVER
Alfred H. Sorensen, Detroit, Mich.
Application June 20, 1938, Serial No. 214,620
5 Claims. (Cl. 30—43)



2. A dry shaver comprising, in combination, a head having a plurality of cutting edges and a cutter having an oscillating movement within said head, said cutter being a split sleeve and having two series of kerfs cut therein the ends of the kerfs being substantially normal to the wall of the sleeve, said kerf ends forming cutting edges disposed on each side of the split and spaced therefrom, the two series of cutting edges on said cutter sleeve being respectively positioned to coact with the cutting edges in said head.

2,312,498
SIGNAL TRANSLATING APPARATUS
Albert M. Skellett, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 16, 1941, Serial No. 388,786
7 Claims. (Cl. 250—175)



1. Electron discharge apparatus comprising an electrode having an electron emissive surface, a second electrode having an electron receiving surface substantially parallel to and in edge-to-edge relation with said first surface, and means adjacent said surfaces for producing a curved magnetic field adjacent said surfaces having its lines of force transverse with respect to the electron path between said electrodes and concave downward with respect to said surfaces.

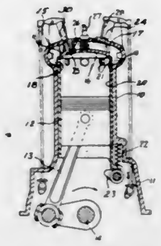
2,312,499
PLANOGRAPHIC PRINTING FORM
Friedrich Lierg, Vienna, Germany; vested in the Alien Property Custodian
No Drawing. Application April 19, 1939, Serial No. 268,832. In Germany May 7, 1938
28 Claims. (Cl. 95—5.4)

1. The process of manufacturing planographic printing bases for flat and offset printing which comprises casting a film from a dissolved colloid material which is insoluble in water and soluble in an organic solvent and has been treated to obtain that content of hydroxyl groups imparting to the particular colloid the capacity to absorb an amount of water sufficient to repel fatty ink while preserving the tannability of the colloid to such an extent that fatty printing ink is retained at the tanned areas thereof, incorporating a light-sensitive material into said film, and exposing and tanning said light sensitive film.

2,312,500
INTERNAL COMBUSTION ENGINE
Clarence Richard Smith, Vancouver, British Columbia, Canada
Application June 7, 1940, Serial No. 339,359
10 Claims. (Cl. 123—37).

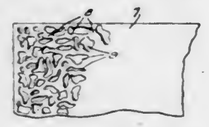
1. An internal combustion engine comprising a cylinder, a piston working in the cylinder, means for supplying fuel and air to the cylinder, an air chamber communicating with the cylinder adjacent the top thereof, said chamber being adapted to store compressed air, means for supplying fuel directly to the cylinder, a valve-

controlled exhaust port in the chamber through which the exhaust gases are expelled from the cylinder, a sleeve mounted in the cylinder between the wall of the latter and the piston, a



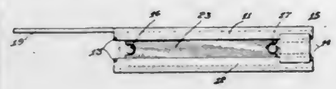
plurality of ports in the sleeve adjacent the upper end thereof, and means for reciprocating the sleeve and its ports to bring the air chamber into communication with the cylinder at predetermined intervals.

2,312,501
SANITARY NAPKIN
Albert A. Stonehill, Brooklyn, N. Y., assignor to Johnson & Johnson, New Brunswick, N. J., a corporation of New Jersey
Application February 26, 1940, Serial No. 320,965
1 Claim. (Cl. 128—290)



A sanitary napkin of the disposable type comprising an absorbent pad, means to control dispersion of the fluid absorbed by said pad comprising a sheet of tenuous porous cellulosic paper tissue having a fluid repellent size thereon providing moisture repellent framing fibers defining disconnected porous areas operative to transmit fluids through said sheet of tissue while substantially preventing lateral dispersion of said fluids, and an outer covering surrounding said pad and control means.

2,312,502
BLADE MAGAZINE
Nicholas Testi, Boston, Mass., assignor to Gillette Safety Razor Company, Boston, Mass., a corporation of Delaware
Application May 4, 1940, Serial No. 333,346
7 Claims. (Cl. 206—16)



1. A magazine containing a stack of end notched safety razor blades, comprising an enclosure having spaced pins in its bottom between which the stack is registered and held by the end notches of the blades, the enclosure having spaced flanges in its upper wall which expose the ends of said pins, one pin reaching the plane of said flanges and the other pin terminating below said plane sufficiently to provide a discharge opening of the width of a single blade, and a feed slide movable on the flanges of the upper wall of the enclosure and bridging the ends of said pins.

2,312,503
SAFETY RAZOR
Nicholas Testi, Boston, Mass., assignor to Gillette Safety Razor Company, Boston, Mass., a corporation of Delaware
Application July 27, 1942, Serial No. 452,400
10 Claims. (Cl. 30—72)

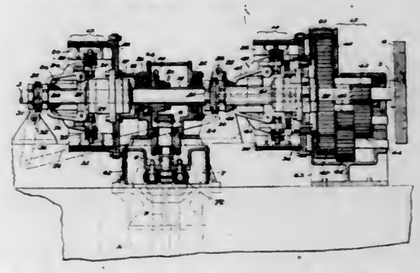


1. A safety razor having co-operating blade-clamping members with opposed faces shaped to flex a double-edged blade between them, means for forcibly moving said members together, and yielding means carried by one member tending at all times to oppose flexing of the blade by exerting pressure thereon along parallel lines disposed adjacent to its respective cutting edges, the lines of contact between said yielding means and said blade remaining the same irrespective of the relative positions of said blade-clamping members.

2,312,504
NAPHTHOQUINONE OXIDES
Max Tishler, Rahway, N. J., assignor to Research Corporation, New York, N. Y., a corporation of New York
No Drawing. Original application July 23, 1940, Serial No. 347,042. Divided and this application May 8, 1942, Serial No. 442,243
3 Claims. (Cl. 260—348)

1. A 2-alkyl-3 - alkenyl - 1,4 - naphthoquinone-2,3-oxide of the group consisting of 2-methyl-3-phytyl-1,4-naphthoquinone-2,3 oxide and 2-methyl-3-cinnamyl-1,4 - naphthoquinone-2,3 oxide.

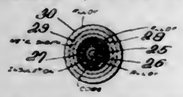
2,312,505
DRIVING MECHANISM FOR CENTRIFUGAL SEPARATORS
John F. Tholl, Needham, Mass., assignor to American Tool & Machine Co., Hyde Park, Boston, Mass., a corporation of Massachusetts
Application August 23, 1938, Serial No. 226,223
14 Claims. (Cl. 210—71)



1. The combination of a series of upright cen-

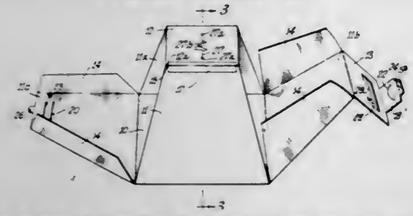
trifugal separators, a main horizontal shaft for driving all of said machines, and independent driving mechanisms between said respective centrifugals and said main shaft, each of said mechanisms being constructed and arranged to drive its respective centrifugal from said shaft positively at both a high operating speed and a low discharging speed, and controlling means operable to utilize either of said speeds and to shift from one speed to the other at will.

2,312,506
ELECTRIC CABLE OR OTHER INSULATED CONDUCTOR
Frederick William Tomlinson and Charles Murray Beckett, Newcastle-on-Tyne, England, assignors to Société Alsacienne de Constructions Mécaniques, Clichy, France, a body corporate of France
Application June 20, 1939, Serial No. 280,184
In Great Britain June 20, 1938
5 Claims. (Cl. 174—102)



1. An insulated electric conductor comprising at least one conducting core, a surrounding metallic sheath, pulverulent mineral insulation separating the core from the sheath, and a layer of ductile material applied to the surface of at least one of the metal parts, such ductile material being harder than the metal of the part to which it is applied and being airtight and encircling all the exterior of the metal part covered.

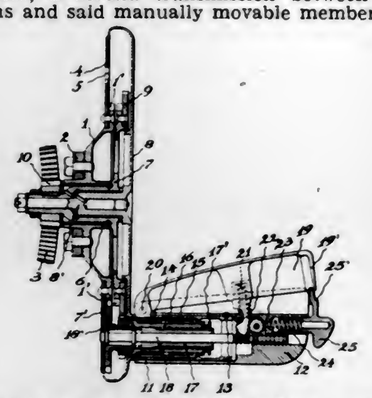
2,312,507
FOLDING BOX
William Trogman, Chicago, Ill.
Application March 6, 1939, Serial No. 260,037
1 Claim. (Cl. 229—52)



In a box, a handle structure including the provision of spaced openings in a wall of said box, and a U shaped handle element comprising a bight portion joining two parallel side portions and end portions offset from a plane struck through said bight and side portions and extending laterally therefrom so as to lie in a plane parallel with a plane containing the bight portion of said handle element, the offset of said end portion permitting the handle element to be rocked substantially in a direction toward and away from said wall of the box in which the openings are formed.

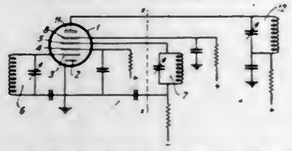
2,312,508
GUN LAYING MECHANISM
Victor Ulrich, Bad Cannstatt, and Richard Diener, Berlin-Reinickendorf, Germany; vested in the Alien Property Custodian
Application December 2, 1938, Serial No. 243,640
6 Claims. (Cl. 89—1)

1. Gun laying mechanism comprising, means for imparting gun laying motion, a manually movable member for actuating said means, a handle rotatably mounted on said manually movable member in such a manner as to remain stationary within the grasp of the gunner during operation of said member, a first transmission between said means and said manually movable member, a second transmission between said means and said manually movable member, the



second transmission having a different velocity ratio as compared with said first transmission, and a manual control device for selectively bringing either of said transmissions into operation, including means for locking the gun laying motion imparting means in a position to which it has been set and means for operatively connecting the manual control device to said means for locking the gun laying motion imparting means.

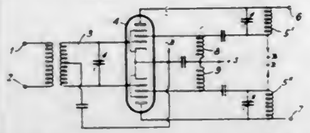
2,312,509
CIRCUIT FOR AMPLIFYING ELECTRIC OSCILLATIONS
Aldert van der Ziel and Kornelis Swier Knol, Eindhoven, Netherlands; vested in the Alien Property Custodian
Application May 7, 1941, Serial No. 392,202
In the Netherlands June 4, 1940
7 Claims. (Cl. 179—171)



1. A circuit arrangement for the amplification of ultra-high frequency oscillations, comprising an electron discharge tube having at least a cathode, a control grid, a screen grid, a perforate output electrode and one or more additional electrodes disposed in the order named, means for impressing a high positive bias on the screen grid and the one or more additional electrodes, and means for impressing a negative or low positive bias on the output electrode.

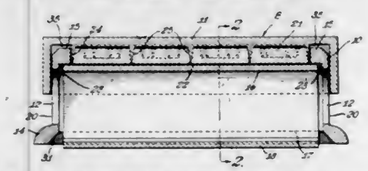
2,312,510
AMPLIFYING CIRCUIT FOR ULTRA-SHORT WAVES
Aldert van der Ziel, Maximiliaan Julius Otto Strutt, and Kornelis Swier Knol, Eindhoven, Netherlands; vested in the Alien Property Custodian
Application May 9, 1941, Serial No. 392,632
In the Netherlands June 19, 1940
9 Claims. (Cl. 179—171)

1. An amplifying-circuit arrangement for ultra-short waves including a push-pull circuit of two amplifying systems each of which comprises at least one cathode, one control-grid, one screen-grid and one anode and in which the cathodes of the two systems are interconnected through as short a lead as possible so as to provide negligible impedance, each screen-grid being connected for high frequencies to the corre-



sponding cathode through an inductance which is so proportioned that the input-damping of the circuit is zero or negative, and the anode of each amplifying system being connected for high frequencies through the corresponding part of the output-impedance to the end of the inductance connected to the corresponding screen-grid.

2,312,511
BUTTER-CHIP MAKER
Maurice J. Weinberg, New York, N. Y.
Application January 27, 1941, Serial No. 376,218
5 Claims. (Cl. 31—42)



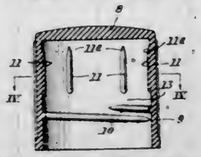
1. A device of the character described comprising, an inner frame having top, side and bottom walls, an outer frame having side and end walls loosely disposed over said inner frame, the upper end of the outer frame having an inwardly extending flange adapted to rest upon the top wall of the inner frame to form therewith a butter receiving chamber, and means associated with said outer frame adapted to engage the surface of butter in said butter chamber for forming an impression thereon.

2,312,512
SECTIONAL RIGID WAGON COVER
Henry Wiemer, Dow City, Iowa
Application July 12, 1940, Serial No. 345,123
1 Claim. (Cl. 296—100)



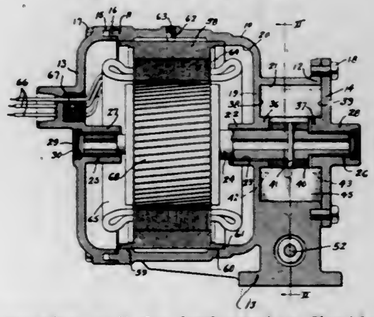
A sectional rigid wagon cover comprising a plurality of laterally extending flat covering sheets adapted to cover the top of a wagon box, said sheets including adjustable attaching means to provide attachment thereof to the side of a wagon box, including strap members freely slideable laterally with respect to said sheet covering members, attaching members hingedly connected to said strap members, said attaching members being attached to the sides of the wagon box, means for securing said strap members to said sheet covering members including U-shaped keepers attached to the sheet covering members.

2,312,513
SLIP CAP FOR BOTTLES
Gardiner C. Wilson, Lancaster Township, Lancaster County, Pa., assignor, by mesne assignments, to Hiram Walker & Sons, Inc., Peoria, Ill., a corporation of Michigan
Application July 19, 1939, Serial No. 285,389
1 Claim. (Cl. 215—43)



A combination slip and screw cap for bottles which have a threaded neck and an elongated extension above the threads on the neck comprising a cap-shaped body having a top and a deep skirt, the skirt having means on the interior thereof extending beyond the surface of the interior wall of the skirt and adapted to engage the threads on the neck of the bottle, axially extending ribs on the interior of the skirt spaced circumferentially thereabout between the said thread engaging means and the cap top and projecting from the interior wall of the skirt a height in a direction radially of the cap sufficient to slidably engage the said elongated extension of the neck of the bottle for which the cap is designed to be used at opposite sides of the neck to center the cap thereon when the cap is in either a slipped-on or screwed-on position on the bottle, the ribs being spaced from the thread engaging means in a direction axially of the cap so as to provide a continuously smooth zone on the interior of the cap skirt between the thread engaging means and the ribs.

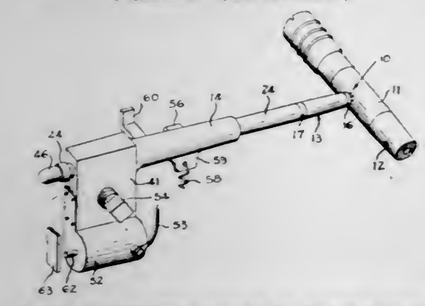
2,312,514
PUMP
Mark E. Zimmerer, Kokomo, Ind., assignor to Kingston Products Corporation, Kokomo, Ind., a corporation of Indiana
Application November 3, 1938, Serial No. 238,496
1 Claim. (Cl. 103—118)



A pumping unit for hydrocarbon liquid comprising a tubular casing having open ends, end covers respectively secured over said ends to close and seal the same, said covers including aligned bearings sealed at their outer ends to the exterior of the casing, an interior wall separating the inside of the casing into chambers, said wall having an opening therein, a shaft extending through said opening and having its ends extending partly through and supported in said bearings, driving motor parts in one of said chambers associated with said shaft, pumping parts in the other of said chambers associated

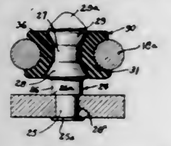
with said shaft, inlet and outlet connections with said latter chamber for the liquid to be pumped, said shaft having a bore therethrough connecting the outer ends of said bearings whereby the pressure of leakage fluid in the outer ends of said bearings and against the ends of said shaft will be equalized.

2,312,515
FEELER DEVICE FOR LOOMS
Elmer C. Alix, Charlton City, Mass., assignor to Charlton Woolen Company, Charlton, Mass., a corporation of Massachusetts
Application July 2, 1941, Serial No. 400,818
6 Claims. (Cl. 139—273)



1. An electric feeler device for looms comprising a base having a slideway therein, a tubular member slidably supported in said base, resilient means for constantly urging said tubular member longitudinally of the slideway in a direction away from said base, a member carried by said tubular member for limiting its longitudinal movement, bearing means secured to and insulated from the end of said tubular member opposite the base and a plurality of electric feeler contacts yieldingly supported in said bearing means, said feeler contacts comprising two separate groups of opposite polarity.

2,312,516
JOINT ASSEMBLY
Marshall Homer Alldredge, Detroit, Mich., assignor to Thompson Products Incorporated, Cleveland, Ohio, a corporation of Ohio
Application June 8, 1940, Serial No. 339,421
8 Claims. (Cl. 287—85)

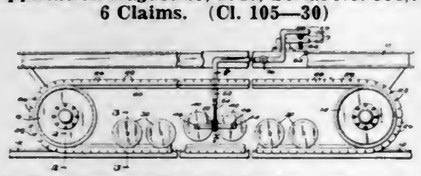


7. A joint assembly comprising a housing having an opening therethrough, a resilient bushing having a peripheral recess seated in said opening of the housing and having marginal rim portions overlying the housing at both ends of the opening to thrust thereagainst and retain the bushing in fixed relation to the housing, said resilient bushing having a bore therethrough with an expansible constricted intermediate throat portion lying in the housing and adapted for temporary enlargement upon application of appreciable expanding force to accommodate passage of an enlarged rigid stud portion while reclaiming the original constricted size upon cessation of the expansion force, and a stud in said bore having a complementally shaped bearing portion in bearing relation with the bushing whereby said stud can be inserted through the expansible bore of the bushing and be retained therein by said constricted intermediate portion of the bore.

2,312,517
METHOD OF NICKEL PLATING
Edwin M. Baker, Ann Arbor, Mich., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
No Drawing. Application December 19, 1938, Serial No. 246,678
2 Claims. (Cl. 204—49)

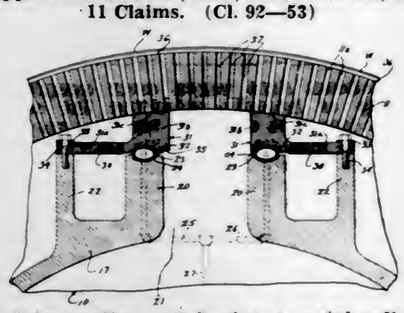
1. The method of obtaining directly a soft, ductile nickel plate of image reflective ability that may be readily buffed to produce a mirror-like surface, which comprises electrolyzing a solution having a pH between 5.5 and 2.5 and containing, as essential active ingredients, nickel plating salts consisting of a mixture of nickel chloride and nickel sulphate, between 0.05 and 0.5 g./l. of lead, and sodium formate as a carrier for maintaining said lead in solution.

2,312,518
TRACTION DEVICE
Harold L. Baldwin, Bingham, Maine
Application August 29, 1940, Serial No. 354,722
6 Claims. (Cl. 105—30)



1. Traction mechanism for locomotives, comprising spaced wheels having grooved circumferential faces, an endless flexible belt running upon said wheels and having a groove-fitting projection and a normally flat base provided with laterally spaced parallel flanges providing a rail-engaging tread surface therebetween, and an intermediate roll mounted between said grooved wheels in position to engage the inner face of the endless belt and having a concave circumferential face arranged progressively to flex the belt transversely and force its flanges temporarily toward each other in passing the said roll.

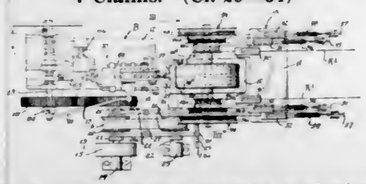
2,312,519
BALANCED SEAL FOR SUCTION ROLLS
Earl E. Berry, Beloit, Wis., assignor to Beloit Iron Works, Beloit, Wis., a corporation of Wisconsin
Application June 10, 1939, Serial No. 278,383
11 Claims. (Cl. 92—53)



7. In a suction roll having a metal cylinder

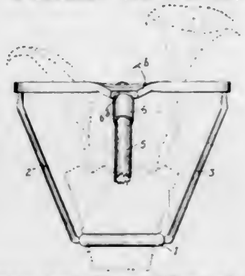
having a plurality of holes therethrough, a stationary suction gland in said cylinder, and a seal between the suction gland and the cylinder, the improvement which comprises an extension on the bottom of said seal exposed to the interior of the suction gland, said extension having an area sized relative to the total area of the holes in said cylinder communicating with said seal at any one time for counteracting the effect of vacuum in the holes to maintain a substantial balance for the seal irrespective of the vacuum existing in the holes.

2,312,520
MULTIWIRE PRODUCT MAKING MACHINE
Albert F. Bradley, Sterling, Ill., assignor to Northwestern Steel and Wire Company, Sterling, Ill., a corporation of Illinois
Application May 11, 1940, Serial No. 334,515
7 Claims. (Cl. 29—34)



1. In a combined wire drawing and wire fabricating machine, a plurality of wire drawing dies, a plurality of drums for pulling drawn wires through said dies, a common drive shaft for said drums, clutch devices for disengaging said drums from said drive shaft, a slack accumulator receiving said drawn wires from said drums, an intermittently operating feeding mechanism receiving the wires from said slack accumulator, and wire fabricating means for simultaneously acting on said plurality of wires to produce a plurality of wire products on each stroke of the machine.

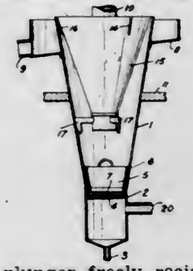
2,312,521
VASE AND FLOWER LIFTER
James P. Bull, San Diego, Calif.
Application April 18, 1942, Serial No. 439,473
5 Claims. (Cl. 294—19)



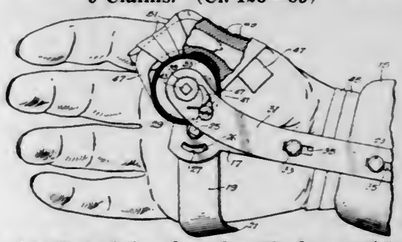
1. In a vase and flower lifter of the class described, the combination of an arcuate vase holder provided with an open space at one side thereof, outwardly and upwardly extending arms secured centrally to the side walls of said holder and a U-shaped bracket pivotally connected to the extended ends of said arms.

2,312,522
ORE PULP JIG
Gilbert G. Chisholm, London, Ontario, Canada
Application October 24, 1940, Serial No. 362,673
17 Claims. (Cl. 209—425)

1. An ore pulp jig, an inverted truncated conical ore pulp receiving casing open at its top and adapted to be vertically vibrated, means for vibrating said casing, a launder surrounding the open top of the casing, said casing having a lower cylindrical extension connecting with its smaller end whereby a throat is constituted, a shot bed supported in said throat, a water inlet in the cylindrical extension below such shot bed, a concentrate outlet in such cylindrical extension, and a plunger freely reciprocable axially in the casing and forming therewith a restricted discharge passageway between the top and interior of the casing for discharging lighter material of an ore pulp mixture carried within the casing, to the launder, and means for introducing an ore pulp mixture to the casing.

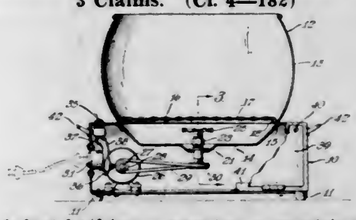


2,312,523
ADJUSTABLE TENSION SPLINT
Mitchell S. Corbett, Oak Park, Ill.
Application July 13, 1942, Serial No. 450,653
9 Claims. (Cl. 128—85)



1. A splint of the class described comprising, a forearm engaging member curved to fit the volar surface of the forearm, a hand rest supported on said forearm engaging member, and means, which includes a rotatable spool and means for latching said spool in adjusted position, supported on said forearm engaging member for positioning and tensioning the digit which is being treated.

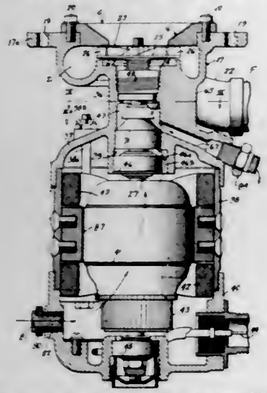
2,312,524
FOOT BATHING DEVICE
William B. Cox, Louisville, Ky.
Application September 29, 1941, Serial No. 412,853
3 Claims. (Cl. 4—182)



1. A foot bathing apparatus, comprising a hollow base having an opening in its upper end, a tub supported in said opening and extending below the same, a perforated foot rest disposed horizontally in the tub above its lower end, an

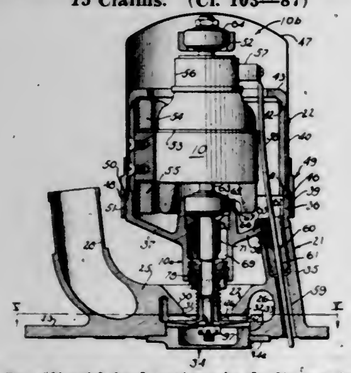
agitator in the tub below the foot rest, a vertically disposed agitator shaft connected to the agitator and extending through the bottom of the tub into the hollow base, and an electric motor in the base for rotating the shaft.

2,312,525
PUMP CONSTRUCTION
Russell R. Curtis, Dayton, Ohio, assignor to Curtis Pump Company, Dayton, Ohio, a corporation of Ohio
Application September 5, 1941, Serial No. 409,644
15 Claims. (Cl. 103—87)



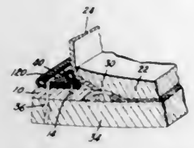
14. In a pump and motor assembly including a pump shaft driven by said motor and a housing providing a passageway between the motor and pump freely receiving said shaft, the improvement of a flame trap between the pump and motor comprising a first sleeve member in said passageway snugly engaging a portion of said shaft and rotatable with the shaft, a second sleeve member in said passageway disposed around the first sleeve member and snugly engaging a wall of the housing, and said sleeve members cooperating to define a narrow elongated tortuous path sealing the pump and motor against flame propagation therebetween.

2,312,526
BOOSTER PUMP
Russell R. Curtis, Dayton, Ohio, assignor to Curtis Pump Company, Dayton, Ohio, a corporation of Ohio
Application September 5, 1941, Serial No. 409,645
15 Claims. (Cl. 103—87)



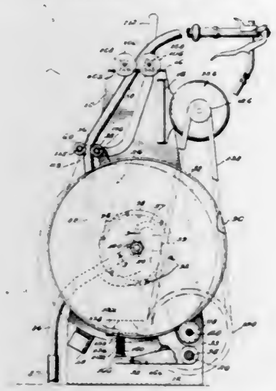
1. In a liquid fuel system including a fuel tank, the improvement which comprises a fuel pump mounted in said tank for receiving fuel directly therefrom, and means associated with said pump for beating out bubbles of gas and vapor from the liquid fuel, said means including agitators positioned for continuous open communication with fuel in the tank to act on the fuel before it becomes confined in the pump.

2,312,527
WELT SHOE AND WELTING THEREFOR
Nelson B. Cutler, Cynwyd, Pa., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application June 3, 1941, Serial No. 396,439
15 Claims. (Cl. 36—17)



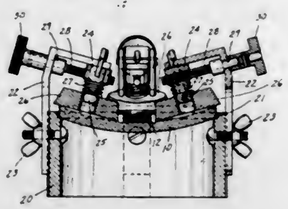
9. A shoe comprising an upper, an insole, a welt, inseam stitches securing together the welt, the upper, and the insole, a strip of tubular fabric in a substantially collapsed condition overlying the upper face of the welt and having an upturned inner marginal portion lying against the upper and closing the crease between the upper and the welt, a row of stitches securing said strip to said welt at the base of said upturned portion, an outsole, and outseam stitches securing the outsole to said welt and to said strip.

2,312,528
HOSE REEL
Ernest W. Davis, River Forest, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application October 1, 1940, Serial No. 359,268
14 Claims. (Cl. 299—78)



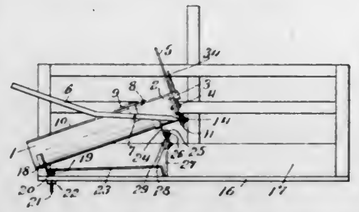
1. A hose reeling apparatus comprising a rotatable hose reel, a hose adapted to be wound upon said reel, frictional driving means for said reel normally out of engagement therewith, and means including said hose and actuated by tension in said hose for effecting engagement between said driving means and said reel, thereby to rotate said reel for rewinding the hose.

2,312,529
APPARATUS FOR PRODUCING ONE-PIECE MULTIFOCAL LENS BLANKS
Frank E. Duckwall, Indianapolis, Ind., assignor to Continental Optical Company, Inc., Indianapolis, Ind., a corporation
Original application May 17, 1940, Serial No. 335,810. Divided and this application April 15, 1941, Serial No. 388,657
7 Claims. (Cl. 51—127)



1. An apparatus for positioning a blanking out cam button on a multifocal lens blank having a boundary line separating its fields, comprising a holder for said blank having a seat for centering the blank thereon, a series of positioning heads each having a surface engageable by the cam button and extending to the surface of the blank, a bracket associated with each of said heads adjustably mounted on said holder, and a universal yielding and adjustable mounting on each of said brackets adapted to support and adjust the respective heads thereon to effect the accurate positioning thereof relative to said boundary line, whereby said heads may receive and position said cam button for alignment therewith.

2,312,530
BUNDLE HEADER
John E. Eklund, Neosho County, Kans.
Application July 28, 1941, Serial No. 404,267
11 Claims. (Cl. 146—82)



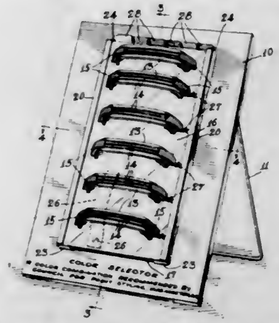
1. In a bundle header, in combination with a vehicle having a bed with a floor, a trough open at its upper side for its full length, a ledger blade extending across one end of said trough and over said floor and against which are adapted to bear the headed end portions of a bundle of stalks placed in said trough, said trough having an open discharge end, a movable blade, means supporting said movable blade on which it may be moved into and out of cooperation with said ledger blade for severing the headed end portions from the stalks, and means for supporting said trough on said vehicle and in a position inclining downwardly from the end across which extends said ledger blade including a clip fastened to said trough and adapted to embrace the upper edge of one wall of the bed of a vehicle, and a bar attached at one end to said trough and having means at its other end for attachment to the outer side of said wall.

2,312,531
PREWELT SHOE MANUFACTURE
Karl Engel, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application December 27, 1940, Serial No. 371,934
3 Claims. (Cl. 12—142)



1. That method of making prewelt shoes which comprises securing an insole to the welted margin of a prewelt upper along the sides of the upper but not at the toe end, inserting a last into the upper, supporting the toe portion of the upper in inverted position by means of a plate extending heightwise of the upper into the welt crease, forcing the toe portion of the last downwardly to shape the toe portion of the upper, laying the welted margin at the toe end of the upper over the toe portion of the insole, and completing the shoe.

2,312,532
DISPLAY BOARD
Folke G. H. Engstrom, Rockford, Ill., assignor to American Cabinet Hardware Corporation, Rockford, Ill., a corporation of Illinois
Application June 20, 1941, Serial No. 398,896
4 Claims. (Cl. 35—50)

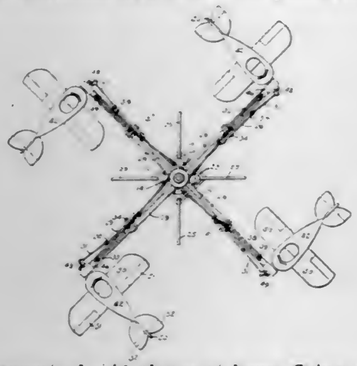


1. A device of the character described comprising, in combination, a base, a pair of laterally spaced members each providing a pair of channels facing toward the channels of the opposite member, a transparent pane mounted and permanently retained in the front channels, a plurality of differently colored articles mounted on said pane, and a plurality of differently colored sheets slidably mounted in the rear channels whereby the sheet at the front may be viewed as a background for the articles.

2,312,533
AERIAL MERRY-GO-ROUND
Lee U. Eyerly, Salem, Oreg.
Application January 17, 1941, Serial No. 374,886
6 Claims. (Cl. 272—40)

4. A merry-go-round of the class described characterized by having a plurality of aeroplane units capable of traveling about a vertical axis at selective elevations, means for permitting said planes to revolve on their longitudinal axes at

higher elevations and means for preventing the



revolvement of said planes at lower flying elevations.

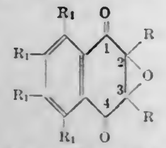
2,312,534
ACOUSTIC DEVICE
Henry D. Fiene, Aurora, Ill.
Application February 11, 1942, Serial No. 430,448
2 Claims. (Cl. 181—23)



1. An acoustic device of the class described comprising a plug adapted to conformably fit within the orifice of a person's ear, said plug having a passage therein adapted for attaching a hearing aid device thereto and a ventilating passage also extending through the plug to provide atmospheric communication for the interior of the ear, said passages communicating with each other at a point adjacent the inner end of the plug.

2,312,535
NAPHTHOQUINONE OXIDES AND METHOD OF PREPARING THE SAME
Louis F. Fieser, Belmont, Mass., assignor to Research Corporation, New York, N. Y., a corporation of New York
No Drawing. Application July 23, 1940, Serial No. 347,042
9 Claims. (Cl. 260—348)

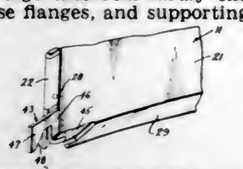
1. Compounds of the formula



in which one R is a β-alkenyl group, the other R is a member of the group consisting of hydrogen and monovalent aliphatic hydrocarbon groups and each R_1 is a member of the group consisting of hydrogen and alkyl.

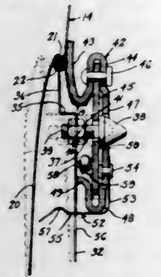
2,312,536
FENDER SHIELD CONSTRUCTION
Arthur P. Fergueson, Detroit, Mich., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application February 20, 1941, Serial No. 379,765
4 Claims. (Cl. 280—153)

1. A fender shield including a panel, the edges of which merge into rearwardly extending top, end and base flanges, and supporting arms each



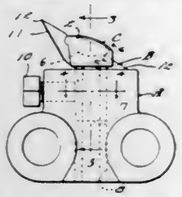
having an angularly shaped base seated against and secured to one of said end flanges and said base flange.

2,312,537
FENDER SHIELD LATCH MECHANISM
Arthur P. Fergueson and William B. Schueren, Detroit, Mich., assignors to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application October 6, 1941, Serial No. 413,802
4 Claims. (Cl. 292—225)



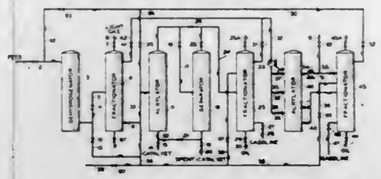
1. A fender shield latching mechanism for securing a fender shield to a vehicle which includes a latching element mounted on the vehicle for movement between a latching position and an unlatched position relative to a keeper element on the shield, means on said vehicle remote from said shield for controlling the movements of said element from one of said positions to the other of said positions, and a resilient supporting finger on said latching mechanism for temporarily supporting said shield when said latching element is first moved to its unlatched position.

2,312,538
REVERSIBLE COAL CUTTING BIT
Charles J. Forbes, Terre Haute, Ind.
Application January 16, 1942, Serial No. 427,049
1 Claim. (Cl. 262—33)



In a device of the character specified, a cutter chain block having a vertical socket, a bit holder having a shank extending into said socket and a head formed with a transverse slot or opening, a reversible cutter bit of general triangular form, mounted on the cutter chain block and extending through the opening in the bit holder, said cutter bit having a straight diagonal outer edge formed with a central arcuate recess extending approximately one-third of the length of said outer edge, and said cutter bit being curved or rounded off at its apex, a convex boss formed on the outer wall of the transverse slot or opening in the bit holder and co-acting with said arcuate recess in holding the cutter bit securely in place, and means for securing the cutter bit in the cutter chain block, the transverse slot or opening in the head of the bit holder being of greater width than the received portion of the cutter bit to allow separation of the co-acting recess and boss preparatory to reversal or replacement of the former.

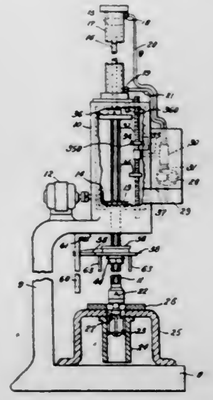
2,312,539
MANUFACTURE OF GASOLINE
Frederick E. Frey, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application August 26, 1940, Serial No. 354,299
7 Claims. (Cl. 196—10)



1. In a process for producing normally liquid hydrocarbons in the motor fuel boiling range from lighter hydrocarbons, the steps which comprise subjecting a hydrocarbon mixture containing ethylene and heavier olefin hydrocarbons and also propane and heavier paraffin hydrocarbons in a first alkylation step to a reaction temperature and pressure in the presence of an alkylation catalyst for a period of time sufficient to effect a union of said heavier olefins with paraffins to produce an optimum yield of paraffin hydrocarbons in the motor fuel boiling range, removing from the effluent a hydrocarbon mixture comprising normally liquid hydrocarbons so produced, separating also from the effluent a hydrocarbon mixture containing ethylene and light paraffins having at least three carbon atoms per molecule, subjecting said last-mentioned hydrocarbon mixture in a second alkylation step to alkylation conditions including a reaction temperature between 750 and 1100° F. under a pressure in excess of 500 pounds per square inch in the absence of a catalyst for a period of time sufficient to effect a union of ethylene with paraffins to produce an optimum yield of paraffins in the motor fuel boiling range, separating from the effluent a fraction comprising hydrocarbons in the motor fuel boiling range so produced, and also separating from said effluent a hydrocarbon fraction containing normally liquid hydrocarbons of not more than seven carbon atoms per molecule and returning said fraction to said second alkylation step.

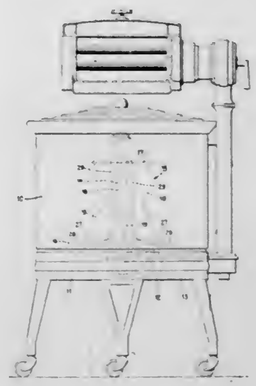
2,312,540
HONING MACHINE
Charles A. Fulmer, Waukegan, Ill.
Application January 29, 1942, Serial No. 428,759
9 Claims. (Cl. 51—34)

1. In a honing machine the combination of a work table for fixedly holding a cylinder, a rotating spindle, means for vertically reciprocating said spindle, a honing tool in axial alignment with the spindle and fastened to the end thereof for movement within the cylinder, and an adjustable limit stop fastened to the spindle and comprising a sleeve surrounding said spindle and having a downwardly tapering body, a yoke having an upwardly tapering opening formed therein for receiving the sleeve, means associated with the lower end of the sleeve for contacting the yoke and for drawing said sleeve into said open-



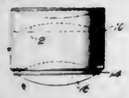
ing to rigidly clamp the stop to the spindle, and abutment shafts carried by the stop for engagement with the work table when the honing tool is in a predetermined position within the cylinder.

2,312,541
MACHINE FOR WASHING CLOTHES
Peter Eduard Geldhof, St. Joseph, Mich., assignor to Ninteen Hundred Corporation, St. Joseph, Mich., a corporation of New York
Application June 24, 1939, Serial No. 280,905
5 Claims. (Cl. 68—134)



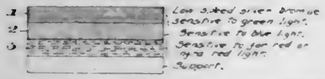
1. An agitator for a clothes washing machine which comprises a base and a central standard rising therefrom, said standard having a plurality of vanes projecting therefrom, each of said vanes having a side surface of substantially sine curve formation in vertical cross-section as viewed in a vertical plane passing transversely through a vane and all sections of said vanes taken parallel to said base being straight lines.

2,312,542
OPTICAL INSTRUMENT
Joseph S. Goodman, Albany, N. Y.
Application March 28, 1940, Serial No. 326,303
1 Claim. (Cl. 88—1)



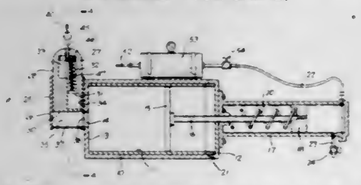
A short optical instrument for spying purposes comprising a double convex lens having a focal length of from about 25 mm. to about 34 mm. and a double concave lens having a focal length of from about 13 mm. to about 17 mm., the optical axes of said lenses being co-linear, the optical power of said concave lens being about double the optical power of said convex lens, and said lenses having about the same diameter, the distance between the vertices of the surfaces of said lenses facing each other being from about 12 mm. to about 17 mm.

2,312,543
PHOTOGRAPHIC PRINTING MATERIAL AND PROCESS FOR USING THE SAME
Paul Goldfinger, Brussels-Uccle, Belgium, assignor, by mesne assignments, to Chromogen, Incorporated, a corporation of Nevada
Application July 12, 1939, Serial No. 284,103
In Germany July 12, 1938
11 Claims. (Cl. 95—2)



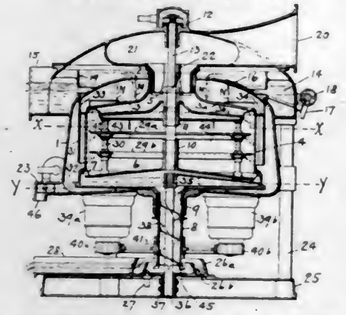
1. A light-sensitive material comprising a silver halide emulsion rear layer which is sensitive to infra-red light and is colored yellow, a blue-sensitive silver halide emulsion middle layer colored magenta and a blue-green colored silver halide emulsion front layer comprising silver bromide and being sensitized to green, the front layer having a speed less than $\frac{1}{10}$ of that of the blue-sensitive middle layer.

2,312,544
DISPENSING DEVICE
David Calvert Gould and Robert Kenneth Lusk, Vancouver, British Columbia, Canada
Application April 15, 1940, Serial No. 329,794
6 Claims. (Cl. 31—8)



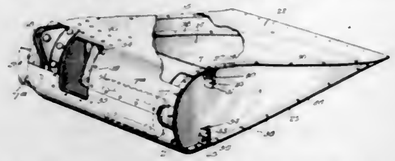
1. A dispensing device for plastic substances or the like comprising a chest for receiving a quantity of the substance, means for applying pressure to the substance in the chest, an open-ended casing carried by the chest, a plunger slidably mounted in the casing, a chamber in the casing beneath the plunger communicating with the interior of the chest, said chamber being adapted to receive a predetermined quantity of the substance under pressure from the chest, a handle by means of which the plunger may be moved downwardly through the chamber to discharge the substance therefrom, and means operated by the handle for maintaining the pressure on the substance in the chest to compensate for the substance removed therefrom.

2,312,545
CENTRIFUGAL SCREENING MACHINE FOR PAPER STOCK AND SIMILAR MATERIAL
Anton J. Haug, Nashua, N. H.
Application April 5, 1939, Serial No. 266,044
6 Claims. (Cl. 92—35)



1. A screening machine for paper stock and similar material, comprising a stationary casing to hold liquid stock, a rapidly rotating screen drum, an inlet for feeding said stock to the inside of the drum, annular partitions in said drum for maintaining internal liquid heads at different centrifugal levels, a tailings section of larger diameter than the drum, a stationary scoop for removing tailings from the drum, means to produce pulsations in the screened stock, and means to guide the tailings through a constricted opening to the tailings outlet.

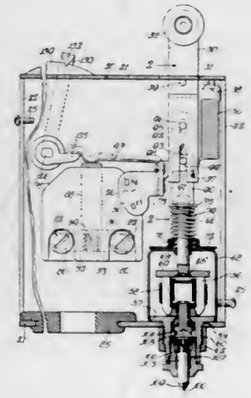
2,312,546
AIRPLANE AILERON
John G. Hazard and Albert E. Arslan, Los Angeles, Calif., assignors to Vultee Aircraft, Inc., Vultee Field, Calif., a corporation of Delaware
Application June 6, 1941, Serial No. 396,816
6 Claims. (Cl. 244—90)



1. An airfoil comprising a longitudinal beam extending from one end of the airfoil to the other curved transversely and forwardly so that it is of U-shaped cross section and serves as a nose former and designed and proportioned to form the main or primary load carrying member of the airfoil, a plurality of laterally spaced unitary rearwardly tapered ribs disposed behind the beam and having convex U-shaped nose portions curved conformably to and fitting within and secured to said beam, and a covering over the ribs.

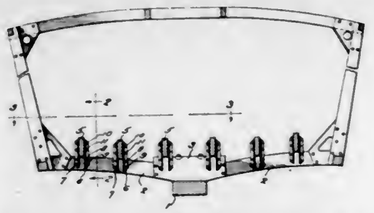
2,312,547
BURNER CONTROL APPARATUS
Charles V. Hildebrecht, Chicago, Ill., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis., a corporation of Wisconsin
Application February 11, 1942, Serial No. 430,378
10 Claims. (Cl. 236—1)

3. In combination, a fluid supply pipe, a controlling member having an operating position for the flow of fluid through said pipe and a safety position shutting off the flow of fluid through said pipe, a reset member mounted for rectilinear movement to reset and released positions, an actuator member mounted for rectilinear movement to resetting and released positions and cooperable with said reset member, when same is in released position, to reset said reset member to reset position by movement of said actuator member from released position to reset position, means for holding said reset member in reset position, an operating arm for actuating said



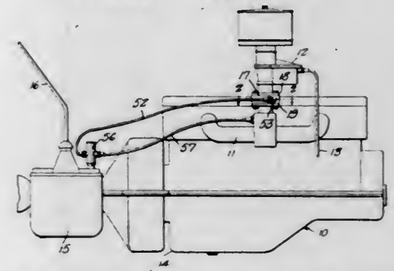
controlling member to operating position by cooperation of said actuator member therewith upon movement of said actuator member from resetting position to released position and only when said reset member is held in reset position, means for holding the parts in cooperative relationship, and condition responsive means having mechanical cooperation with said operating arm for releasing, by mechanical actuation of said arm by said condition responsive means, said controlling member for movement to safety position while said reset member is held in reset position.

2,312,548
BOAT HULL CONSTRUCTION
Andrew J. Higgins, New Orleans, La., assignor to Higgins Industries, Inc., New Orleans, La., a corporation of Louisiana
Application October 10, 1940, Serial No. 360,648
5 Claims. (Cl. 9—6)



1. Boat hull construction including a keel with a series of longitudinally spaced transverse frame members, said frame members arranged in pairs angularly disposed with respect to each other and the angularity of each pair varying from the angularity of other pairs, a longitudinal stringer resting upon said frame members, and rigid means fixedly secured to a plurality of said frame members, each including a rectilinear angle iron having a portion extending above the frame member to which it is secured in a vertical direction when the hull is on an even keel, having a vertical seating face engaging a side of said stringer and rigidly secured thereto for maintaining the depth dimension of said stringer vertical throughout.

2,312,549
SPEED GOVERNOR FOR INTERNAL COMBUSTION ENGINES
Henry E. Hiner, Milton, W. Va.
Application March 24, 1941, Serial No. 384,984
4 Claims. (Cl. 180—82.1)

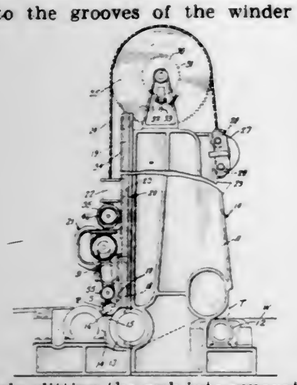


1. In combination with an internal combustion engine and transmission mechanism having drive connection with the crankshaft of the said engine, the said engine having a suction fuel intake passage and the transmission mechanism having gear shift means, a body mounted on the engine intake having a suction flow passage disposed in registration with the fuel intake passage of the engine, a pivoted intake valve mounted within the said suction passage of said body directly responsive to and disposed to be actuated toward closed position by the flow of fluid through the passage, means mounted to resiliently resist closing movement of the said valve, means for releasably locking the valve in open position, a conduit providing communicative connection between the outlet side of the suction passage and a chamber housing the means for releasably locking the valve, and means operable in conjunction with the transmission gear shift means for controlling the connection between the suction passage and the said chamber whereby to unlock the said valve when the gear shift means is in predetermined position.

2,312,550
METHOD AND APPARATUS FOR SLITTING ROLLS
Lloyd Hornbostel, Beloit, Wis., assignor to Beloit Iron Works, Beloit, Wis., a corporation of Wisconsin
Application November 14, 1941, Serial No. 419,171
16 Claims. (Cl. 164—65)

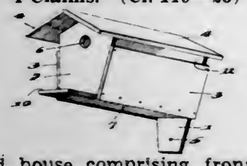
1. Web winding and slitting mechanism comprising a pair of winder drums defining a winding nip, a peripherally grooved winder shaft, means mounting said shaft for vertical movement in the winding nip, a slitter assembly mounted for vertical movement above said shaft mounting means, slitter disks rotatably mounted on said assembly, means for driving said disks, drums on said assembly adjacent said disks adapted to ride on the web material being wound for being driven by the web material independently of the disks, and said slitter disks having a larger diameter than said rider drums to pro-

ject into the grooves of the winder shaft for



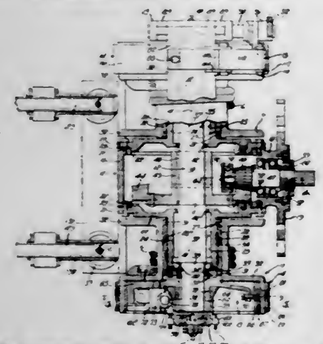
completely slitting the web into separate ribbons.

2,312,551
BIRDHOUSE
Lynn W. Hoskins, Knoxville, Tenn.
Application September 5, 1941, Serial No. 409,730
4 Claims. (Cl. 119—23)



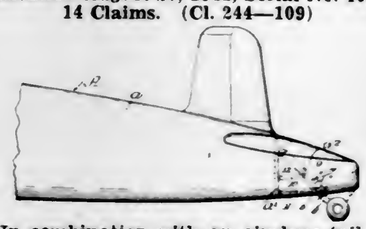
1. A bird house comprising front and back walls, side walls connected therewith and a roof extending thereover, said front wall having an entrance opening therein, said side walls being arranged at an acute angle to each other and having the lower edge portions thereof projecting at an acute angle to each other beneath the lower edge of the front wall in alignment with the upper portions of said side walls and all points on the inner surface of each side wall lying in the same plane, and a bottom having opposite edges slidably fitting said lower edge portions of the side walls and supported and guided thereby for movement into and out of closed positions.

2,312,552
POWER UNIT
Hugh Allen Hutchins, Arcadia, Calif.
Application March 18, 1940, Serial No. 324,646
5 Claims. (Cl. 254—185)



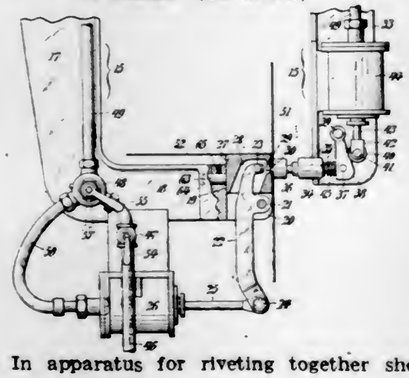
4. In a power unit attachment for a tractor, or the like, a housing, drums rotatably supported on opposite sides of the housing, a rotating shaft extending through the housing and projecting beyond the outer ends of the drums, an axial flange on the outer end of each drum, clutches on the projecting ends of the shaft engageable radially outward against the interiors of the flanges to connect the drums with the shaft, clutch actuating members movable axially outward with respect to their respective clutches to actuate the same, brake bands cooperable with the exteriors of the flanges to hold the drums against rotation, a manually turnable shaft adjacent the outer end of each drum, a brake releasing mechanism connected to each manually turnable shaft to be operated thereby, and a slack operating connection between each manually turnable shaft and the adjacent clutch actuating member so that the member is operable by the shaft and whereby the brake releasing mechanism may be operated without affecting the clutch actuating member.

2,312,553
AIRPLANE TAIL WHEEL STRUCTURE
John M. Hudson, Downey, Calif., assignor to Vultee Aircraft, Inc., Vultee Field, Calif., a corporation of Delaware
Application August 27, 1941, Serial No. 408,432
14 Claims. (Cl. 244—109)



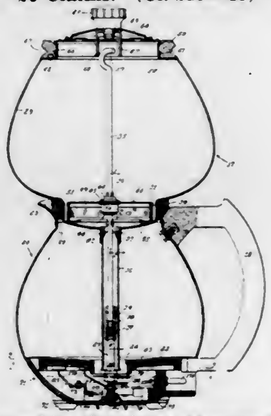
1. In combination with an airplane tail wheel structure including a tail wheel and an upstanding swivel type shaft for the wheel, mechanism for effecting self-centering of the wheel consisting of a crank connected to the shaft, a single lever having one of its portions pivotally connected to the crank and provided with a fulcrum for another portion thereof, and spring means applied to the lever for urging it into a position wherein it operates through the medium of the crank to center the wheel.

2,312,554
RIVETING APPARATUS
Jean Jacques, Philadelphia, Pa.
Application April 26, 1941, Serial No. 390,513
8 Claims. (Cl. 78—49)



1. In apparatus for riveting together sheet metal elements having aligned rivet holes, the combination of a frame including a lateral portion; a stationary abutment carried by the lateral portion, said abutment having a cavity and communicating die-aperture including opposed recessions with an intervening bore; presser means actuable to force a suitably-headed rivet, axially relative to the aligned holes aforesaid, with local displacement of the sheet metal elements into the adjoining recession of the die-aperture; a pivotal element carried by the frame lateral portion and having a crusher-head actuable in the abutment cavity; and means to rock said pivotal element, whereby the crusher-head is caused to deform the outer end of the rivet shank into head formation while said rivet is restrained from movement by the presser means.

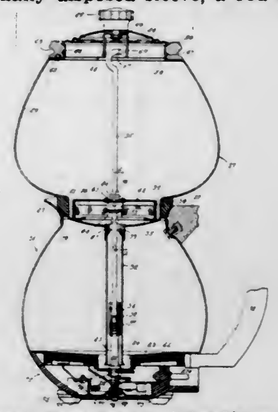
2,312,555
COFFEE MAKER
Ivar Jepson, Chicago, Ill., assignor to Chicago Flexible Shaft Company, Chicago, Ill., a corporation of Illinois
Application October 27, 1938, Serial No. 237,247
26 Claims. (Cl. 219—43)



1. The combination in a vacuum type coffee maker of a heating pot, a bowl adapted to seat thereon and having a tube for movement of liquid between the pot and the bowl, a heating element in the pot, and thermostat control means therefor comprising cooperating contacts for controlling the circuit through the heating element, thermostat means closely responsive to the temperature of the pot, said contacts being closed to start the coffee making process, and means responsive to the thermostat means for opening said contacts at a predetermined temperature in the coffee making process and for moving said contacts into a different operative relation with said thermostat means for recurrently closing and opening the heater circuit in a temperature range lower than said predetermined temperature to maintain the coffee at a substantially uniform serving temperature.

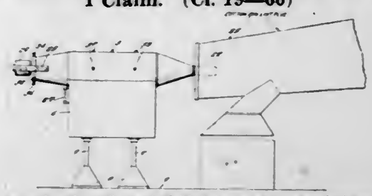
2,312,556
COFFEE MAKER
Ivar Jepson, Chicago, Ill., assignor to Chicago Flexible Shaft Company, Chicago, Ill., a corporation of Illinois
Original application October 27, 1938, Serial No. 237,247. Divided and this application September 11, 1939, Serial No. 294,306
14 Claims. (Cl. 53—3)

1. The combination in a vacuum type coffee maker of an open top heating pot, an open top coffee bowl adapted to seat in the open top of said pot, said bowl having a depending tube for movement of liquid between the pot and the bowl, a filter frame adapted to seat against the bottom of the bowl spanning the end of said tube, said frame having a marginal portion adapted to seat against the bottom of the bowl and an axially disposed sleeve, a rod extending



through said sleeve to a point adjacent the bottom of said pot, said rod having a freely rotatable collar thereon adapted to be received within said axial sleeve to releasably secure the filter frame to said rod and to apply pressure to the frame from said rod, and complementary screw threaded means on the lower end of the rod and on the pot for urging the collar against the frame and the frame against the bowl to secure the bowl, frame and pot together.

2,312,557
METHOD FOR ESTABLISHING THE MOISTURE CONTENT OF GINNED COTTON
Robert M. Joyce, Greenville, Miss.
Application June 27, 1940, Serial No. 342,832
1 Claim. (Cl. 19—66)

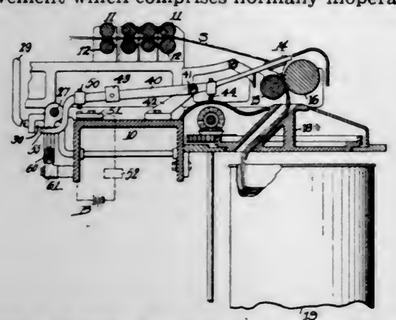


A method of establishing a predetermined moisture content in baled cotton, said method consisting in subjecting the cotton after ginning to air having a predetermined moisture content by blowing air into contact with a source of moisture to mix with such air moisture in finely divided form and conveying the resultant moisture laden air into the stream of cotton in the lint flue concurrent with the stream of cotton as the cotton emerges from the gin, and then baling the cotton.

2,312,558
KNOCK-OFF MECHANISM FOR DRAWING FRAMES
Francis B. Kelliher, Whitinsville, Mass., assignor to Whitin Machine Works, Whitinsville, Mass., a corporation of Massachusetts
Application June 24, 1942, Serial No. 448,251
5 Claims. (Cl. 19—168)

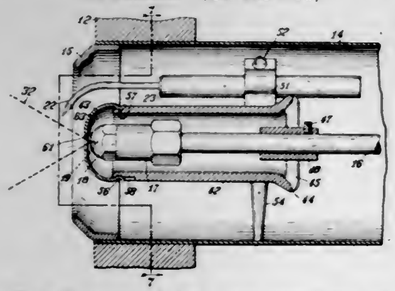
1. In a drawing frame having drawing rolls,

calender rolls, a knock-off device, and a plurality of movably mounted trumpets interposed between said drawing rolls and said calender rolls and each controlling said knock-off device, that improvement which comprises normally inoperative



means to prevent said trumpets from moving out of normal running position, and a device controlled by said knock-off device and rendering said latter means operative when said knock-off device operates to stop the drawing frame.

2,312,559
OIL BURNER
William F. Klockau, Moline, Ill.
Application August 2, 1939, Serial No. 287,873
12 Claims. (Cl. 158—78)

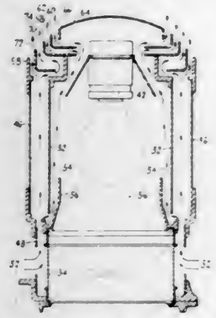


1. In a burner of the class described including a nozzle adapted to discharge liquid fuel under pressure into a combustion chamber, the combination of a thermally insulating shield surrounding said nozzle and operative to insulate said nozzle from the radiant heat of the flame during operation of the burner and from the radiant heat of the combustion chamber following cessation of operation of the burner, said shield having a substantially central aperture therein aligned with the nozzle orifice for the discharge of fuel into the combustion chamber, and having secondary apertures for the passage of air through said shield, said secondary apertures being angularly inclined in such relation as to prevent said radiant heat of the flame and of the combustion chamber passing through said latter apertures and impinging on said nozzle.

2,312,560
PROCESS FOR TREATING HYDROCARBONS CONTAINING OLEFINS
Karl Korpi, Redondo Beach, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California
No Drawing. Application March 2, 1940, Serial No. 321,983
15 Claims. (Cl. 260—668)

1. A process for converting hydrocarbons which comprises heating said hydrocarbons to a temperature of the order of 600 to 1000° F. for a sufficient period of time to convert said hydrocarbons, in the presence of a catalyst prepared by adsorbing phosphoric acid on a carrier followed by neutralizing said phosphoric acid on said carrier with approximately one-sixth to two-thirds equivalents of a caustic alkali per mol of said acid.

2,312,561
PHOTOGRAPHIC ENLARGER
Anthon A. Leonard, Glenside, Pa., assignor to De Jur-Amsco Corporation, Shelton, Conn., a corporation of New York
Application February 12, 1941, Serial No. 378,494
9 Claims. (Cl. 240—47)



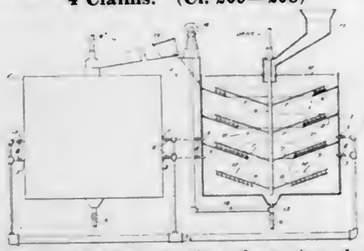
1. A top assembly for a vertically disposed cylindrical lamp house, said assembly comprising a series of circular upwardly flanged caps of progressively smaller diameter superposed in the order of decreasing diameter, said caps being annular and spaced at their inner and outer peripheries, each cap having a flat annular portion surrounded by an upwardly turned cylindrical portion, a topmost circular imperforate cap having a downwardly turned flange, and means including spacers to hold said caps in desired spaced superposed relation, the assembly affording ready egress of air, but baffling the passage of light.

2,312,562
PHOTOGRAPHIC APPARATUS
Anthon A. Leonard, Glenside, Pa., and Otto Boesel, Shelton, Conn., assignors to DeJur-Amsco Corporation, Shelton, Conn., a corporation of New York
Application April 11, 1941, Serial No. 388,010
18 Claims. (Cl. 88—24)



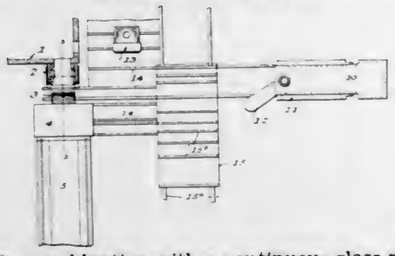
1. An enlarger comprising an upper bellows, a lower bellows, separable platens therebetween forming a negative stage, and means to raise the upper platen in order to open the negative stage, said means comprising an angle lever connected to the platen, a spring normally urging the platen to closed position, an operating lever pivotally connected to the angle lever, the connection between said operating lever and angle lever including a pin and slot to compensate for angularity, one end of said slot being in such direction that the mechanism is self-locking in the open position.

2,312,563
HYDRAULIC CLASSIFIER
Hamilton M. Lewers, Plymouth, Calif., assignor to The Permanente Corporation, Oakland, Calif., a corporation of California
Application November 4, 1941, Serial No. 417,794
4 Claims. (Cl. 209—208)



1. An apparatus of the character described comprising a container having a feeder at the top, a discharge at the bottom and means adapted to cause wash water to rise in counter-current to the feed to overflow near the top; and a plurality of superimposed settling compartments within the container, each of which communicates through a central opening in the bottom wall with the next thereunder, the said compartments being disposed so as to follow each other from above to below in an order of increasing depths, whereas the diameters of the bottom holes gradually decrease downwardly.

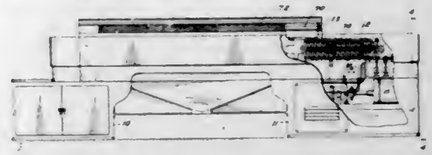
2,312,564
APPARATUS FOR THE MANUFACTURE OF SHEET GLASS
Joseph H. Lewis, Kingsport, Tenn., assignor to Blue Ridge Glass Corporation, Kingsport, Tenn., a corporation of New York
Application September 28, 1937, Serial No. 166,151
1 Claim. (Cl. 49—3)



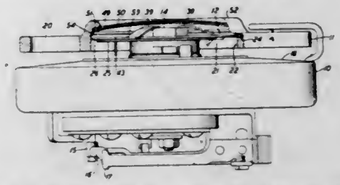
The combination with a continuous glass sheet rolling machine and a lehr in line with the sheet rolling machine and receiving the continuous sheet therefrom, of a movable forehearth adapted to be inserted in the line, in the rear of the sheet forming mechanism, and of a movable furnace having a discharge spout, the flow of which into the forehearth is controlled by suitable gates, said furnace being adapted by its movement to have its discharge brought above the movable forehearth.

2,312,565
FLAT KNITTING MACHINE
Stephen W. Lippitt, Cleveland, Ohio
Application November 21, 1941, Serial No. 419,885
13 Claims. (Cl. 66—64)

1. In a flat bed knitting machine embodying a cam carriage, mechanism for reciprocating said carriage comprising a cylinder, a fluid operated piston therein, linkage intermediate said piston and said carriage for multiplying the travel of the carriage in relation to the travel of the piston and means for altering the travel of said piston.

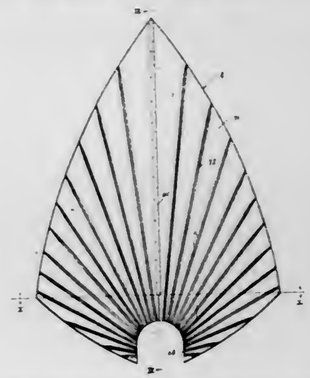


2,312,566
TELEPHONE CALLING DIAL DEVICE
George R. Lum, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 28, 1942, Serial No. 432,839
4 Claims. (Cl. 179—90)



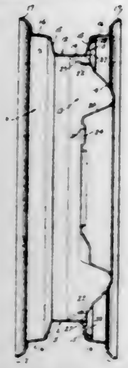
1. In a telephone calling dial device having a rotatable shaft and means controlled by operation of said shaft for controlling the sending of signal pulses, in combination, a finger wheel and a two-part support for said finger wheel, said finger wheel having recesses formed therein to receive one of the parts of said two-part support and said two-part support comprising an apertured disc mounted on said shaft, an incomplete ring of flexible material mounted in said finger wheel and latch means formed in said ring and engaging said disc to latch said ring to said disc.

2,312,567
SAILING CRAFT
George Albert Lyon, Allenhurst, N. J.
Application May 8, 1939, Serial No. 272,397
3 Claims. (Cl. 114—103)



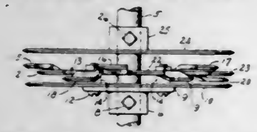
1. In a self-supporting sail structure, a sail constructed from self-supporting material, a yoke member substantially central of the foot portion of the sail, and a plurality of ribs integrally formed of the sail material secured to said yoke and radiating therefrom towards the sail edge.

2,312,568
WHEEL COVER STRUCTURE AND ASSEMBLY
George Albert Lyon, Allenhurst, N. J.
Application January 20, 1940, Serial No. 314,819
8 Claims. (Cl. 301—37)



1. In a vehicle wheel and ornamental member assembly the combination comprising a wheel having rim and body parts and a trim ring mounted on said rim part, said trim ring including an annular portion seated on and lying in intimate contact with one face of said rim part and a marginal portion of arcuate cross-section, said annular portion of said trim ring having a plurality of attaching fingers struck therefrom and bent back to extend obliquely axially forwardly behind said marginal portion and into biting engagement with said wheel, said trim ring having an annular series of apertures therein where said attaching fingers have been struck therefrom through which portions of said wheel may be seen.

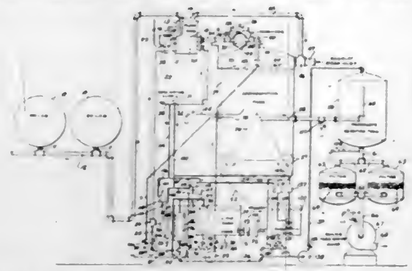
2,312,569
LAWN EDGER
Joe Maga, Los Angeles, Calif.
Application February 4, 1942, Serial No. 429,529
10 Claims. (Cl. 97—227)



1. An edging tool comprising cutting discs spaced laterally from each other, at least one of the discs having teeth around the periphery thereof, at least one of said teeth being offset with respect to, and in parallel relation with, the body of the disc and disposed in the space between the discs.

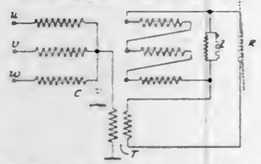
2,312,570
BOILER FEED WATER CONDITIONING EQUIPMENT AND METHOD
Henry J. Meier, Chicago, Ill.
Application March 9, 1939, Serial No. 260,669
19 Claims. (Cl. 122—401)

1. Water conditioning apparatus comprising a tank, a conduit communicating with the tank, a pump for flowing liquid through the conduit, a dilution water conduit communicating with the inlet of the pump, a valve in said dilution water conduit, a reagent solution conduit communicating with the inlet of the pump, a valve in the reagent solution conduit, a raw water feed conduit for supplying water to the tank, means responsive to water flow through the raw water feed conduit for actuating the valve in the re-



agent conduit, and means controlling the valve in the dilution water conduit for maintaining a constant pressure drop between the reagent solution conduit and the dilution water conduit.

2,312,571
ARRANGEMENT FOR REDUCING EQUALIZING OSCILLATIONS
Hans Meyer, Baden, Switzerland, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland,
Application July 16, 1941, Serial No. 402,713
In Switzerland December 24, 1940
11 Claims. (Cl. 171—97)



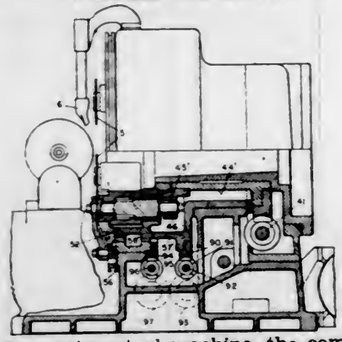
5. A multiphase power transformer comprising a star connected primary winding, a polygon connected secondary winding closed through a frequency-variant composite impedance, said impedance being of negligible magnitude at the power current frequency and of high magnitude at the frequency of equalizing oscillations arising from multiphase surges, and a transformer having a primary winding connected between the star point of said first primary winding and ground, the secondary winding of said second transformer being connected to said impedance to establish across the same an oscillatory voltage opposing the equalizing oscillatory current flow through said impedance.

2,312,572
PROCESS OF PREPARING AND TREATING CATALYSTS
Glen H. Morey, Terre Haute, Ind., and Frederick E. Frey, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware
No Drawing. Application November 9, 1937, Serial No. 173,709
26 Claims. (Cl. 252—254)

1. A process for treating catalysts containing black, unglowed chromium oxide reduced substantially to the extent possible with hydrogen at a temperature of from 175° to 250° C. to improve their characteristics, which comprises gradually heating said catalyst under non-oxidizing conditions to a temperature within the range 550° to 800° C., sufficiently slowly that the unglowed condition of said chromium oxide is substantially conserved, and maintaining the catalyst within said temperature range for a period of from 1 to 24 hours.

24. In a process of preparing a catalyst, precipitating a gel-type chromium oxide catalyst, washing the precipitate, and drying the precipitate in an oxidizing atmosphere at a temperature higher than room temperature and below about 200° C. for a period of time sufficient to establish a content of chromium with a valence greater than three that is equivalent in oxidizing capacity to a hexavalent chromium content within the range of 1 to 40 per cent of the total chromium in the mixture while avoiding disruption of the gel structure of the catalyst.

2,312,573
ROTARY TOOL MACHINE
Edwin R. Motch, Jr., Cleveland, and Johan Gustaf Moohl, Cleveland Heights, Ohio, assignors to The Motch & Merryweather Machinery Company, Cleveland, Ohio, a corporation of Ohio
Application April 26, 1940, Serial No. 331,746
6 Claims. (Cl. 29—70)



1. In a rotary tool machine, the combination of a rotatable member, a plurality of rotatable tools, means supporting said tools on said rotatable member for bodily movement towards and away from a common center, mechanical power drive means for rotating said tools about their own axes, fluid power means for rotatably driving said rotatable member, a second rotatable member mounted concentrically with said first rotatable member, a second fluid power means for rotatably driving said second rotatable member at a different rate of rotation than said first rotatable member, and means interconnecting said second rotatable member and said supporting means so constructed and arranged as to effect the aforesaid bodily movement of said tools on relative rotation of said rotatable members.

2,312,574
WITHDRAWN

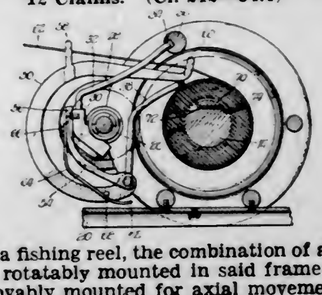
2,312,575
HOSE CLAMP
Charles H. McKee, Chicago, Ill., assignor to Punch-Lok Company, a corporation of Illinois
Application January 29, 1940, Serial No. 316,100
3 Claims. (Cl. 24—23)

1. In a clamp of the class described, a metal strap in the form of a ring having at least one convolution, the end portions of the strap extending into manually lapping relationship, a sealing sleeve comprising a metal strap having an intermediate portion extending transversely across the outside of the outermost of said mutually lapping portions, and end portions extending inwardly over the side edges of the ring and inwardly across the inside of the innermost of said lapping portions with the ends of the sleeve strap disposed in proximity to each other intermediate



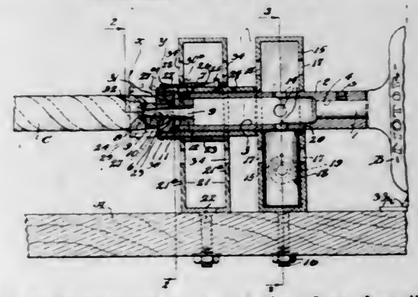
the width of the ring, said ends being provided with recesses which cooperate to form an opening, the innermost of said mutually lapping portions having an end portion extending reversely and underlying said recessed sleeve portions, and an upset interlock in the sleeve and lapping portions of the strap.

2,312,576
FISHING REEL
Noble A. Nelson, Chicago, Ill.
Application May 18, 1940, Serial No. 335,885
12 Claims. (Cl. 242—84.4)



1. In a fishing reel, the combination of a frame, a spool rotatably mounted in said frame, a support movably mounted for axial movement with respect to said spool, means operable in accordance with the movement of said spool for moving said support, a line follower mounted on said frame and engagingly resting upon the line wound upon said spool, and a guide finger engaging said line follower, said guide finger being mounted on said support for movement toward and away from said line follower.

2,312,577
CIGAR PIERCING APPARATUS
Benjamin J. Niemczynski, Bronx, and Joseph B. Midulla, New York, N. Y., and Joseph D. Midulla, Tampa, Fla.
Application February 20, 1941, Serial No. 379,876
4 Claims. (Cl. 131—254)



1. In a piercing cutter of the class described, a rotary support, a tubular member carried at one

end by said support for rotation therewith and formed with an elongated central passage having radial discharge openings through the wall thereof intermediate the ends of the passage, a tubular piercing cutter removably fixed in the opposite end of the central passage in said tubular member with its longitudinal axis in alignment with the axis of rotation of the rotary support and having a cutting edge at one end and an axial passage leading from the cutting edge into the elongated central passage of said tubular member, a casing surrounding said tubular member intermediate its ends and having spaced side walls located adjacent the opposite sides of the radial discharge openings, and a collection receptacle removably disposed in said casing below said tubular member intermediate said side walls.

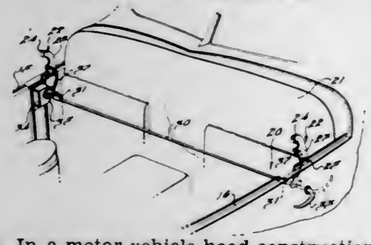
2,312,578

HOOD LOCKING MECHANISM

Homer Murray Northrup and James W. Greig, Grosse Pointe Park, Mich., assignors to Hudson Motor Car Company, Detroit, Mich., a corporation of Michigan

Application January 28, 1938, Serial No. 187,346

22 Claims. (Cl. 292—48)



20. In a motor vehicle hood construction having a hinged bonnet adapted to be raised and lowered, locking devices cooperable with the bonnet at the underside thereof at transversely spaced points for locking the same, a common means for positively and simultaneously moving said devices into bonnet locking positions and including means permitting movement of one device relative to the other as the devices are thus moved to locking positions.

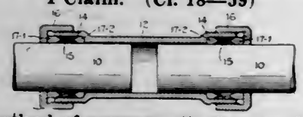
2,312,579

METHOD OF APPLYING COUPLING DEVICES

Joseph F. O'Brien, Jersey City, N. J., assignor to John B. Pierce Foundation, New York, N. Y., a corporation of New York

Application September 15, 1939, Serial No. 294,986

1 Claim. (Cl. 18—59)



The method of securement of a member within a tubular coupling means, comprising inserting said member into said coupling means, packing a fusible material within said coupling means intermediate said member and said coupling means, applying pressure to said fusible material to urge the same into intimate contact with said coupling means and said member, fusing the said material while mechanically increasing the pressure thereon, permitting the said material to resolidify, removing said pressure generating means, and substantially filling the extreme end portion of said coupling means with plastic material.

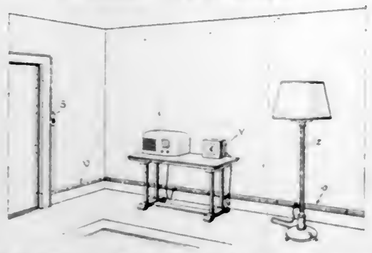
2,312,580

ELECTRICAL WIRING SYSTEM

Joseph F. O'Brien, Jersey City, N. J., assignor to John B. Pierce Foundation, New York, N. Y., a corporation of New York

Application July 27, 1940, Serial No. 348,059

8 Claims. (Cl. 173—334.1)



1. A multi-conductor electricity conductor unit arranged for seriatim electrical and mechanical interconnection with like conductor units: said unit comprising a housing having apertures affording entry of the blades of an electrical attachment plug; a plurality of electricity conductors disposed within said housing and coextensive therewith, two of said conductors being of the same polarity and positioned at different levels within said housing adjacent a side wall thereof, transverse wall means disposed within said housing and arranged to receive and uniformly position said conductors at said different levels, means cooperating with said transverse wall means to secure the conductors within said housing; an electricity conductor of opposite polarity extending longitudinally of said unit and having contact means in registry with an attachment plug aperture; one of said pair of conductors of the same polarity being offset to position a portion of its length intermediate its ends in registry with an aperture of said housing, said conductor having contact means disposed at said aperture to cooperate with said first-named contact means for electrical connection with the blades of an attachment plug.

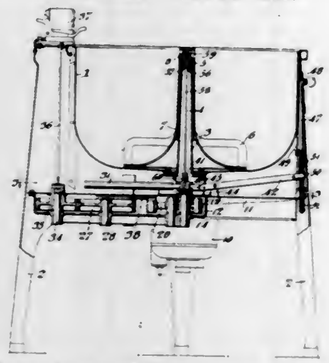
2,312,581

OSCILLATING IMPULSING MEANS FOR WASHING MACHINES AND THE LIKE

Allen J. Patch, Ripon, Wis.

Application August 3, 1940, Serial No. 350,248

4 Claims. (Cl. 68—133)



1. A washing machine comprising supporting structure, a tub having an opening centrally through the bottom thereof, a bearing housing extending upwardly around said opening and

provided with external bearings, an agitator oscillatably mounted in said tub and supported by the bearings of said bearing housing, oscillating driving means beneath the tub, and a flat leaf torsionally flexible shaft extending upwardly through said opening and housing connected at its upper end with said agitator and having an endwise movable connection at its lower end with the oscillating driving means whereby said flat leaf shaft is free to extend and contract longitudinally without restraint as the flat leaf torsionally flexes.

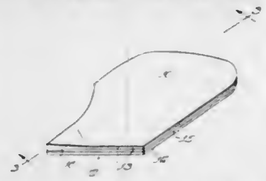
2,312,582

COMPOSITE METAL

Willbur W. Patrick, New Castle, Ind., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois

Application December 23, 1939, Serial No. 310,685

2 Claims. (Cl. 29—181)



1. A composite three-ply steel having a center layer of mild steel and outer layers of high carbon steel, said layers being of unequal thickness at one region thereof with one of the high carbon layers predominating and the mild steel layer being less than ⅓ the total thickness of the three ply steel at said one region, said high carbon layer having a carbon content of between .70 and 1.30 per cent. and a manganese content of between .15 and .40 per cent.

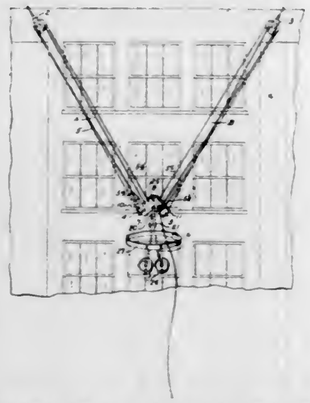
2,312,583

TACKLE

Rox D. Penlon, San Francisco, Calif.

Application December 1, 1941, Serial No. 421,139

8 Claims. (Cl. 227—11)



1. A tackle of the character described comprising a pair of blocks each containing two pulleys, means for securing said blocks to a support, three connected single pulleys, means for suspending an operator from said connected single pulleys, and a single rope reeved over all of the pulleys and having an end anchored to the connected single pulleys and the other end detachably secured thereto, whereby the operator can move himself vertically and horizontally with relation to the pair of secured pulley blocks.

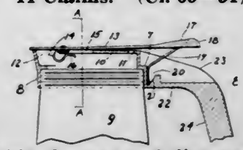
2,312,584

DISPENSING CAP AND CLOSURE FOR CONTAINERS

Axel H. Peterson, Kewanee, Ill.

Application December 12, 1938, Serial No. 245,090

11 Claims. (Cl. 65—31)



1. A combined cover and dispenser for a container, comprising a cover having an annular dependent skirt, a lifting means attached to said skirt forming a V shaped groove at the point of attachment, said skirt forming one side of said V shaped groove the other side of which acts as a stop for a spring piece attached to a slide plate normally closing a pouring spout in said cover, said V shaped groove having closed ends thus retaining the lower end of said spring piece in position at the bottom of said V shaped groove, means for guiding said slide plate, and means for sliding said slide plate into an open position.

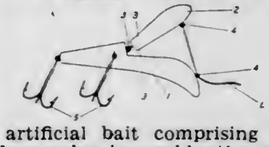
2,312,585

ARTIFICIAL BAIT CASTING LURE

Salvatore Piro, Jr., Mangham, La.

Application March 7, 1942, Serial No. 433,699

9 Claims. (Cl. 43—46)



1. An artificial bait comprising a weighted main body member in combination with a buoyant movable body member, said movable body member being hinged to the main body member at a medial portion of the length of the main body member, said main body member being provided with a hook and a line fastening means.

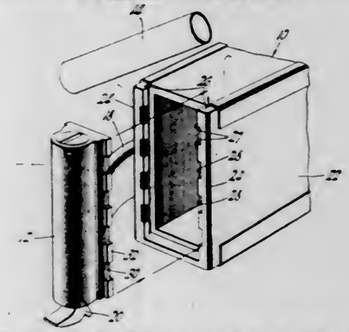
2,312,586

MACHINE GUN

William A. Plourde, Kenmore, N. Y., assignor to Bell Aircraft Corporation, Buffalo, N. Y.

Application January 8, 1941, Serial No. 373,636

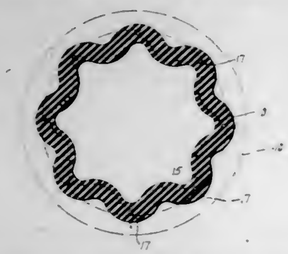
4 Claims. (Cl. 89—1)



1. In a machine gun, an open end gun casing, a back plate slidably mounted upon said casing

at the open end portion thereof by means of a slide connection means permitting movement of said back plate in a direction transversely of the longitudinal axis of said gun, said means comprising opposed series of spaced finger devices aligned parallel to the direction of sliding movement and extending from adjacent portions of said back plate and said casing, said finger devices being adapted to interlock in one position of sliding adjustment of said back plate relative to said casing and to disengage upon transverse sliding movement of said back plate to an extent approximately equal to one-half the pitch of spacing of said finger devices.

2,312,587
TUBULAR CORE
Harry S. Price, Dayton, Ohio
Application December 29, 1941, Serial No. 424,748
3 Claims. (Cl. 25—128)

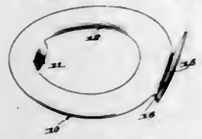


1. A radially expansible fluid tight tube for coring substantially circular passages in concrete, said tube having a vulcanized rubber wall of substantial thickness inherently assuming a corrugated cross sectional form when deflated and inflatable to assume a cross sectional form which is substantially circular and of greater outside diameter than a circle touching the outside of the convolutions of the deflated tube, said wall having flexible reinforcing means imbedded therein and extending substantially transversely of the longitudinal axis of the tube normally in a corrugated path and limiting the diameter of the tube by assuming a substantially circular path when the tube is inflated, said reinforcing means upon deflation of said tube causing initial separation of said tube to begin in and progress from spaced areas located circumferentially thereof.

2,312,588
PROCESS OF OBTAINING CRYSTALLIZED HEART STIMULANTS
Erich Rabald and Josef Kraus, Mannheim-Waldhof, Germany, assignors to Rare Chemicals, Inc., Nepera Park, N. Y., a corporation of New York
No Drawing. Application June 8, 1940, Serial No. 339,583. In Germany April 4, 1939
4 Claims. (Cl. 260—210)

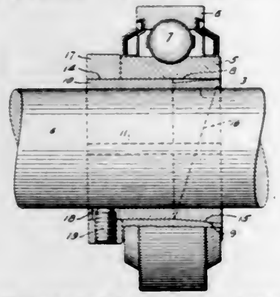
1. The process of obtaining crystallized digitalis glucosides and strophanthus glucosides which comprises treating a solution of a member of the group consisting of digitalis glucosides and strophanthus glucosides in at least one member of the group consisting of lower aliphatic mono-hydric alcohols, acetone and ethyl acetate with a three-valent metal hydroxide of the iron group, separating the thus treated three-valent metal hydroxide of the iron group and its adsorbed glucosides from the solvent; drying the thus separated three-valent metal hydroxide of the iron group and its adsorbed glucoside, eluating the glucoside from the three-valent metal hydroxide of the iron group with solvents which are miscible with the solvents from which the glucosides are adsorbed and which do not dissolve the said metal hydroxide of the iron group, removing the said metal hydroxide of the iron group from the glucoside and crystallizing the glucoside from said solution.

2,312,589
PROTECTOR FOR TOILET SEATS
Reuben G. Reeves, Camden, N. J.
Application August 9, 1941, Serial No. 406,175
1 Claim. (Cl. 4—243)



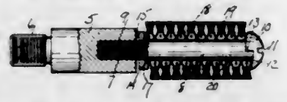
A protector for a toilet seat having a hinged lid comprising a sheet of paper in the form of a ring curved transversely throughout the circumference thereof to neatly fit the exterior contour of the seat, a lip depending from the inner periphery of the ring at the front portion of the seat and being curved transversely thereof, the curved lip cooperating with the adjacently disposed transversely curved portion of the ring to bind the front portion of the ring to the seat, a flap extending upwardly from the outer periphery of the ring diametrically opposite the lip and forming with the ring where connected thereto a V-shaped member which is forced between the rear end of the seat and the hinged portion of the lid thereby frictionally engaging said seat and lid, said V-shaped member cooperating with the lip for retaining the protector in position.

2,312,590
ADAPTER
Harry R. Reynolds, New Britain, Conn., assignor to The Fafnir Bearing Company, New Britain, Conn., a corporation of Connecticut
Application March 5, 1941, Serial No. 381,785
6 Claims. (Cl. 287—52.09)



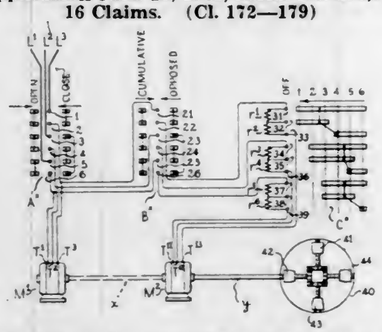
1. In a self-locking adapter for a bearing ring, a bearing ring having a cylindrical bore and an eccentrically formed tapered bore merging with said cylindrical portion, an adapter having a cylindrical outer surface to fit said cylindrical bore and having an eccentrically formed tapering outer surface to fit the corresponding bore in said bearing ring, said adapter having a cylindrical bore to fit a shaft, and means for holding said adapter against endwise disengagement from said bearing ring, for the purpose described.

2,312,591
BRUSH
Clarence G. Rowland, Newington, Conn., assignor to The Fuller Brush Company, Hartford, Conn., a corporation of Connecticut
Application April 23, 1940, Serial No. 331,142
5 Claims. (Cl. 15—182)



1. A brush comprising a stud, a head on the outer end of the stud, a spirally extending cam surface terminating in a radially disposed shoulder on the back of said head, an initially completely spirally formed grooved brush strip adapted to be positioned in its complete form on said stud with the back of the strip resting against the stud that is rotatable within the strip, bristles projecting from the outward facing mouth of the strip and with the end of the strip abutting said shoulder as a means for securing the strip to the stud, and means finally for securing the brush strip on said stud.

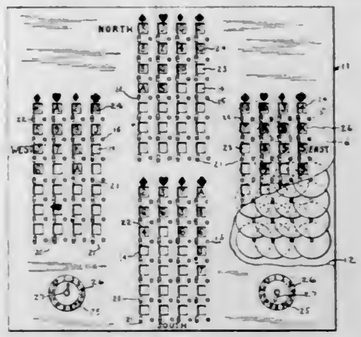
2,312,592
CONTROL SYSTEM FOR ALTERNATING CURRENT MOTORS
Edwin W. Seeger and Carroll Stansbury, Wauwatosa, Wis., assignors to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application June 16, 1941, Serial No. 398,248
16 Claims. (Cl. 172—179)



6. A system for controlling induction motors comprising, in combination, a pair of induction motors having different inherent speed-torque characteristics, each motor having a primary winding and a rotor, mechanical coupling means for the rotors of said motors providing for rotation thereof jointly at the same speed, means to reversibly connect the primary windings of said motors to a source of energy jointly in a manner to selectively provide for action of said windings either reversely or cumulatively with respect to each other, said means including means to effect different combined speed-torque characteristics of the motors during rotation thereof jointly in opposite directions respectively.

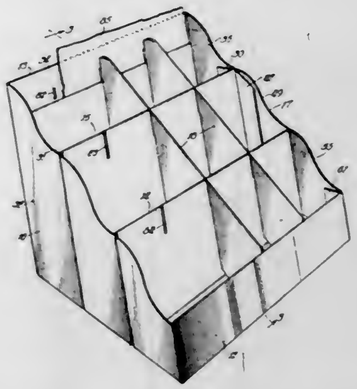
2,312,593
PRACTICE APPARATUS FOR CARD GAMES
William F. Shaw, Rocky River, Ohio, assignor of one-half to Horace C. Mayers, Rocky River, Ohio
Application July 3, 1941, Serial No. 400,903
8 Claims. (Cl. 273—148)

1. Card game apparatus, comprising a game board provided along its top with a series of apertures, a playing disc positioned under the top of said board near each aperture, each disc being provided with game indicia and means for its rotation to selectively bring game indicia disposed thereon into registry with a cooperating



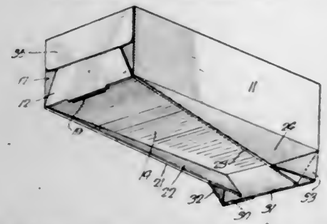
aperture, a shutter disposed between the top of said board and each disc, the same being adapted to selectively cover and uncover a cooperating aperture, said shutter being pivotally mounted around said disc rotating means, thereby providing simple and easily operated game apparatus.

2,312,594
DISPLAY STAND
Milton A. Smith and Wayne G. Wilcox, Chicago, Ill., assignors to Chicago Carton Company, Chicago, Ill., a corporation of Delaware
Application September 9, 1940, Serial No. 355,932
6 Claims. (Cl. 211—72)



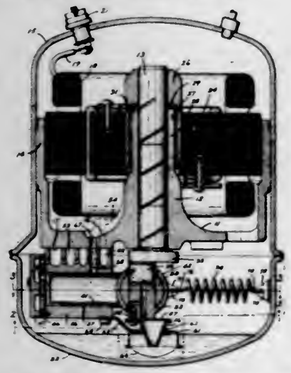
2. A paper board display stand of the class described, comprising a tubular body having connected front, back and side walls, and a two ply partition extending between an oppositely disposed pair of said walls, the plies of said partition being foldably connected along one longitudinal edge and the ends of the respective plies being connected to said pair of walls, and a bottom for said body member secured at one end to one of said body walls, said bottom member being provided with fold lines defining bottom sections and partition embracing sections, and means for detachably securing the other end of said bottom member to another of said body walls.

2,312,595
DISPLAY CARTON
Milton A. Smith, Chicago, Ill., assignor to Chicago Carton Company, Chicago, Ill., a corporation of Delaware
Application November 22, 1940, Serial No. 366,578
6 Claims. (Cl. 206—44)



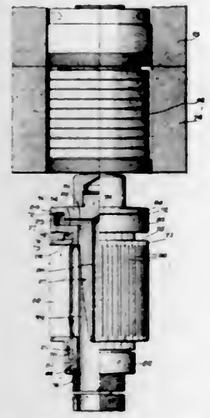
1. A display carton comprising a receptacle having bottom, side and rear wall portions and an easel structure depending from the sides and rear of the container for supporting the same in inclined display position, said rear wall comprising a pair of flaps respectively foldably connected to the rear ends of the respective side walls and folded into mutually overlapping, rear wall forming position, and said easel structure comprising a pair of triangular sections intervening between and integrally connecting the respective side walls and the bottom of the container, said triangular sections at each side of the container being foldable into face to face relation with the triangular sections adjacent the side edges of the bottom wall folded into downwardly extending position relative to the bottom wall, sections depending from the rear wall forming flaps, said sections being foldably connected to the lower edges of the respective flaps and being integrally foldably connected at their outer ends to the respectively adjacent ends of the triangular sections which are connected with said side walls.

2,312,596
REFRIGERATING APPARATUS
Rolf M. Smith, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application February 27, 1940, Serial No. 321,078
6 Claims. (Cl. 230—58)



1. A sealed unit comprising, a casing having a motor and a compressor directly connected to said motor mounted therein, said casing being under compressor discharge pressure, said motor including a shaft having an eccentric portion, said compressor including a cylinder and a piston disposed therein, means connecting said piston to said eccentric portion of said shaft for reciprocating the piston within said cylinder when said motor is operated, and means having a part attached to said connecting means and another part thereof attached to said casing for applying force to said piston at least in the direction of movement of the piston outwardly relative to its cylinder.

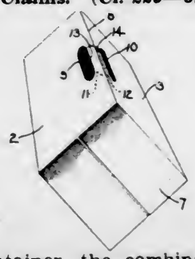
2,312,597
HIGH PRESSURE QUENCHING METHOD AND FIXTURE
Howard E. Somes, Grosse Pointe Park, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa., a corporation of Michigan
Application September 29, 1939, Serial No. 297,046
10 Claims. (Cl. 148—19.9)



1. Apparatus for heat treating a portion of an object near and including a cylindrical surface progressively in a given axial direction comprising, means for heating said portion to hardening temperature progressively in said given axial direction, to produce in said portion a progressing annular zone heated to the hardening temperature, means adjacent said heating means for ejecting a jet of fluid at an acute angle away from said heating means against the surface of said portion in a continuous line extending around the cylinder parallel to an equithermal line passing through the zone of hardening temperature, and means for ejecting a plurality of jets of fluid against different adjacent fractional portions of an axially extended zone adjacent said first-named jet and remote from said heating means and in trailing relation to said continuous line jet, said last mentioned means having a tendency to direct quenching fluid toward the heating member, which tendency is opposed by said first mentioned jet means.

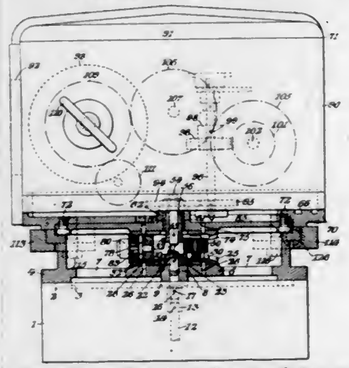
4. The method of quenching the surface of a heated article which comprises directing a plurality of substantially uniformly spaced main streams of quenching fluid under high pressure into impingement with the article surface from a point closely adjacent thereto, substantially normal thereto and at substantially uniformly spaced parallel regions of predetermined extent, causing each such main stream upon impingement with said surface to divide and flow in closely confined and restricted oppositely directed branch paths of substantial extent adjacent and in contact with said surface, then bringing the streams of adjacent branch paths together and causing them to flow in confined and restricted low-pressure exhaust paths away from said surface.

2,312,598
CONTAINER
Clarence B. Sprague, Grand Rapids, Mich., assignor to American Box Board Company, Grand Rapids, Mich., a corporation of Michigan
Application May 2, 1940, Serial No. 332,925
2 Claims. (Cl. 229—52)



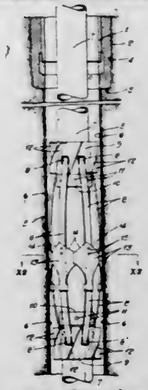
1. In a container, the combination with an elongated box having square ends thereon and four sides, of an opening in each of two adjacent sides near the common corner thereof, and a tab secured to the edge of each opening adjacent said corner folded inwardly and overlapping each other to form a handle, such a balance being maintained when the box is being carried that a vertical plane passing centrally of and longitudinally through said overlapped tabs will also pass through the opposite corner of the box.

2,312,599
REGISTER MOUNT
Tom Stephenson, West Hartford, Conn., assignor, by mesne assignments, to Veeder-Root Incorporated, Hartford, Conn., a corporation of Connecticut
Application August 18, 1941, Serial No. 407,303
2 Claims. (Cl. 235—1)



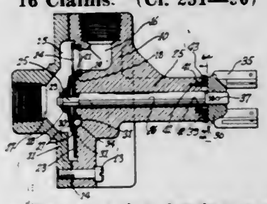
1. In swivel mechanism for register mechanisms which include a drive shaft connected by a train of gearing to a plurality of indicia wheels and tens-transfer mechanism; the combination of a swivel base member; with register mechanism having a base member adapted to be supported by and rotate on said swivel base; a drive gear for said register mechanism; a driver gear mounted on a drive shaft rotated by fluid passed by a meter; a gear plate rotatable about the axis of said meter driver gear; planetary gearing means mounted on and carried by said plate rotatable about the axis of said meter driver gear, connecting said meter driver gear with said register mechanism drive gear; a first ring gear rigidly mounted on and carried by said register base; a second ring gear mounted on said swivel base member; and gearing means, carried by said gear plate, connecting said first ring gear and said second ring gear; whereby said register mechanism, with its base member, may be rotated on its axis without effecting change of the readings on said indicia wheels of said register.

2,312,600
WELL MECHANISM
Robert Alexander Steps, Los Angeles, Calif.
Application January 2, 1941, Serial No. 372,788
3 Claims. (Cl. 166—4)



1. Well mechanism for pipe to be cemented in a well, said mechanism comprising in combination, spaced collar means adapted to fit on and embrace the pipe, a plurality of outwardly bowed springs secured to said collar means and adapted to bear against the wall of the well to center the pipe therein, and spirally extending vane means projecting externally from said collar means for flowing cement slurry around the pipe as it rises past said vane means, whereby the combined action of the centering springs and said spirally extending vane means cooperate to produce an unchanneled cement plug extending all around the pipe with the pipe approximately centered therein.

2,312,601
SHUTOFF VALVE
George B. Stillwagon, Jr., Dayton, Ohio, assignor of one-half to Kenneth G. Fraser, Dayton, Ohio
Application February 26, 1940, Serial No. 320,804
16 Claims. (Cl. 251—90)



1. In a valve, a casing having a plurality of inlet ports and an outlet port, sealing means arranged about said inlet ports, a valve member mounted in said casing for rotary movement and for axial movement and having an opening in constant communication with said outlet port, said opening being arranged normally in an in-

operative position to close said valve and being movable by the rotation of said valve member from said inoperative position into an operative position in line with any one of said inlet ports, yieldable means for moving said valve member axially to press the same against said sealing means, means for rotating said valve member, and means controlled by said rotating means for moving said valve member axially against the action of said yieldable means to relieve the pressure thereof on said sealing means during the rotation thereof from one of said positions to another of said positions, said sealing means being yieldable to maintain the same substantially in contact with said valve member when the pressure of the latter thereon has been relieved.

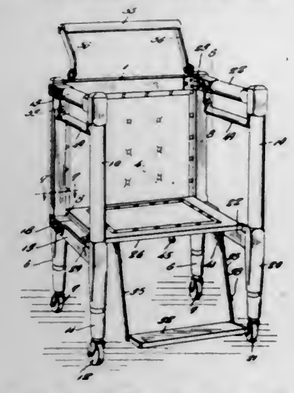
2,312,602

WALKER AND ROLLING CHAIR

Judson O. Taylor, Zanesville, Ohio; L. L. Combs and John Ebersbach executors of said Judson O. Taylor, deceased

Application July 2, 1941, Serial No. 400,829

6 Claims. (Cl. 155—22)



1. In a chair of the class described, a back member, legs depending from the corners thereof, a pair of side members hingedly connected at their rear edges to side parts of the back member, a leg attached to the front part of each side member, caster wheels carried by the four legs, a seat for the chair hingedly connected to the back member and resting against the front of the back member when in raised position, parts on the seat for resting against portions of the side members when in lowered position and means for holding the seat in raised position whereby one can enter the space formed by the two side members and the back member rails at the top of said side members forming arm rests, and hand-grips attached to the rails and disposed beneath the same.

2,312,603

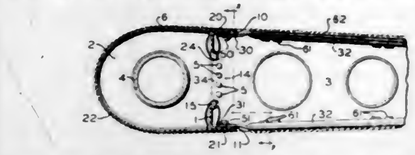
AIRFOIL CONSTRUCTION

Frank Terdina, Jr., Seattle, Wash., assignor to Boeing Aircraft Company, Seattle, Wash., a corporation of Washington

Application August 18, 1941, Serial No. 407,285

5 Claims. (Cl. 244—123)

1. A construction for airfoils and similar structure, comprising a longitudinal stiffener formed of sheet material, disposed in an upright plane, having spaced apertures flanged to define integral upright tabs outstanding from the plane of said longitudinal stiffener, a series of transverse upright formers of sheet material, of a size and shape to define the air foil contour at one side of said longitudinal stiffener, a separate series of transverse upright formers of sheet material, each of a size and shape to define the airfoil contour at the opposite side of said longitudinal stiff-



ener, each of said first and said second formers having an integral tab shaped and disposed, when its former is end-abutted against the stiffener, for contiguous registry with the corresponding stiffener tab at one side of the stiffener's plane, and means common to all tabs of each set which is in registry, for securing them together.

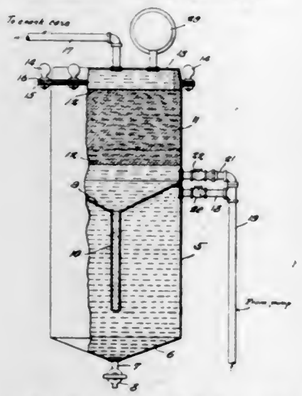
2,312,604

DEVICE FOR CONDITIONING OIL

Arthur R. Thompson, Norfolk, Va.

Application October 5, 1939, Serial No. 298,153

1 Claim. (Cl. 210—140)



In an oil filtering device for internal combustion engines, a body portion, a funnel-shaped partition dividing the body portion into upper and lower compartments, a pipe extending from the central portion of the funnel-shaped partition, the free end of said pipe terminating at a point adjacent to the bottom of the body portion and adapted to deliver oil to the bottom of the body portion, spaced upper and lower screening members partitioned within the body portion, filtering material held between the screening members, the upper screening member being spaced an appreciable distance below the top of the body portion providing an oil chamber at the top of the body portion, an outlet pipe adapted to connect with the crank case of a motor, extending into said chamber, an oil feed pipe adapted to be connected with the oil pump of the engine, extending into the body portion above the funnel-shaped chamber, a check valve in the feed pipe and adapted to prevent the return of oil through the oil feed pipe, a pipe extending from the oil feed pipe and communicating with the body portion below the partition, a one-way check valve in the latter pipe, whereby oil may flow from the body portion directly under the partition, to said feed pipe, and a drain pipe in the bottom of the body portion.

2,312,605

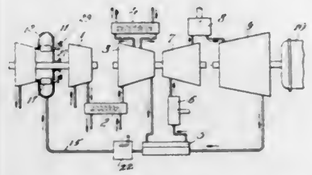
GAS TURBINE PLANT

Walter Traupel, Winterthur, Switzerland, assignor to Sulzer Frères, Société Anonyme, Winterthur, Switzerland

Application December 9, 1939, Serial No. 308,409

In Switzerland December 24, 1938

3 Claims. (Cl. 60—41)



1. A gas turbine plant which comprises an exhaust gas turbine having adjustable guide blades, a precompressor driven by the exhaust gas turbine, a first turbine, a main compressor driven by the first turbine, a main turbine arranged to drive a power means, a cooler, conduit connecting the cooler to the precompressor and the main compressor, whereby the compressed air is cooled before it enters the main compressor, an intermediate cooler connected by conduit to the main compressor whereby the compressed air may be cooled in an intermediate stage, a recuperator, a heater; conduit connecting the delivery end of the main compressor with the recuperator, the heater and the first turbine, whereby the air is heated in the recuperator, further heated in the heater and then passed into the first turbine, a second heater connected by conduit to the exhaust side of the first turbine and to the intake side of the main turbine, a single conduit connecting the exhaust side of the main turbine with the recuperator and with the intake side of the exhaust gas turbine, whereby all the exhaust gas from the main turbine passes through the recuperator and over the adjustable guide blades of the exhaust gas turbine.

2,312,606

HEADGEAR

Isador Turchin, Brooklyn, N. Y.

Application February 4, 1942, Serial No. 429,443

5 Claims. (Cl. 2—198)



1. A headgear made of a flat piece of material having a finished surface on both sides and consisting of a main body portion and a flap integral therewith and extending centrally therefrom, said main body portion having back edges of substantially the same length as the side edges of said flap and extending therefrom at obtuse angles thereto, and resilient means for detachably connecting the end of said flap to the ends of said main body portion, thereby forming a reversible headgear or adjustable crown size.

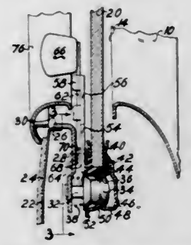
2,312,607

WINDOW REGULATOR

Edwin C. Vollrath, Wauwatosa, Wis., assignor to Nash-Kelvinator Corporation, Kenosha, Wis., a corporation of Maryland

Application September 11, 1940, Serial No. 356,242

3 Claims. (Cl. 268—97)



1. Window operating mechanism comprising a support rail defining a horizontal slot, a glass receiving member movably supported by said support rail for longitudinal movement therealong, an arm secured to said glass receiving member, means carried on said arm defining a second slot normal to the axis of said first mentioned slot, a pin slidably mounted in said second slot, and a projection on said pin engageable in a plurality of positions with an edge of said first slot in said support rail, said pin being movable with respect to said arm only in a line normal to the line of movement of said glass receiving member, and spring means attached to said arm for urging said projection into engagement with said support rail.

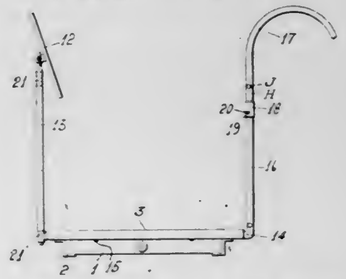
2,312,608

SHAVING AND TRAY SERVING APPLIANCE

Charles G. Wadsack, Stafford, Kans.

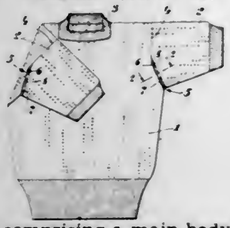
Application September 2, 1942, Serial No. 457,049

2 Claims. (Cl. 132—80)



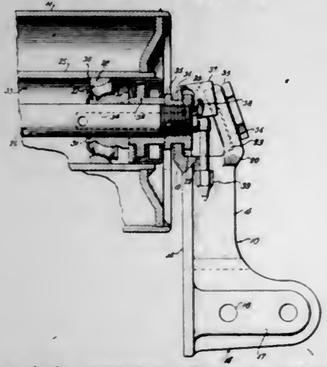
1. In a shaving and serving tray appliance of the class described comprising a U-shaped frame, the legs of the U terminating with a right angle bend at their outer extremities, and an arm hingedly connected to each terminal end of the legs of the U-shaped frame, the hinges being rule jointed, an arcuate hook rule joint hinged to the other ends of each arm, the hooks each also being swiveled to their respective ends of the arms and adapted to turn towards each other when the frame components are folded together, a tray and a drawer slidably connected so that the drawer is positioned beneath the tray and adapted to slide thereunder and outward from the tray, said tray having walls as means to carry the tray and drawer pendantly from the U-shaped frame, and a mirror and means to support the mirror extending upward from the U-shaped frame and being carried thereby.

2,312,609
SWEATER
Charles Warshaw, Kingston, N. Y., assignor to Renart Sportswear Corporation, New York, N. Y.
Application January 1, 1942, Serial No. 425,261
1 Claim. (Cl. 2—90)



A sweater comprising a main body portion and sleeves connected thereto along seams, the portion of said seams extending over the shoulders of the sweater being formed by the sewed together edges of said main body portion and of said sleeves, while the remaining portion of said seams, extending under the arms, comprises a tape knit strip having transverse elasticity and longitudinal resistance to stretching, said strip being secured along one edge to the sleeve and along its opposite edge to the main body portion, the strip being the sole connecting means under the arm.

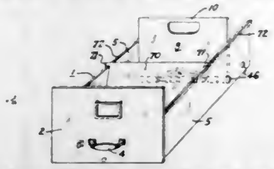
2,312,610
BELT CONVEYER IDLER
Charles R. Weiss and Richard W. Parker, Indianapolis, Ind., assignors to Link-Belt Company, a corporation of Illinois
Application June 10, 1941, Serial No. 397,474
4 Claims. (Cl. 308—20)



1. In a belt conveyer idler, an intermediate bracket for supporting adjacent ends of roll shafts, said bracket having a pair of spaced forks formed on its upper end, a bar on each side of said forks for interconnecting the arms of the forks, a clip overlying the upper ends of the forks to straddle and rest upon said bars for preventing accidental displacement of the shaft ends, and means for detachably securing the clip to said bars.

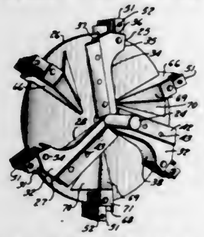
2,312,611
FILING DRAWER
Ross R. West, San Francisco, Calif., assignor to M. G. West Company, San Francisco, Calif., a corporation of California
Application April 12, 1941, Serial No. 388,287
3 Claims. (Cl. 129—32)

1. The combination, with a filing cabinet drawer having a longitudinally channeled bottom, of a shoe cooperating with said channeled bottom for temporary locking in any desired position lengthwise of said drawer, journals formed on said shoe arranged to receive a hinge pin transversely of said drawer and substantially in the bottom plane thereof, a follower board, journals



formed along the bottom thereof staggered from said shoe journals, a hinge pin extending through said shoe and follower board journals, springs disposed about said pin fixed radially thereof at one end of said springs and having the opposite end bearing against said follower plate, means for adjustably fixing the pressure exerted by said springs against said follower plate.

2,312,612
ROTOR
Earnest M. Wetmore, Tonkawa, Okla.
Application June 28, 1940, Serial No. 342,971
5 Claims. (Cl. 146—107)

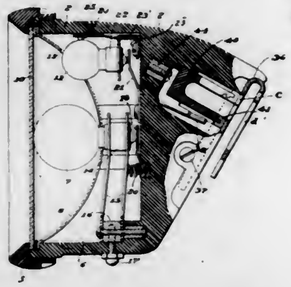


1. In a device of the character described, a circular rotor plate, means for rotating said plate, a plurality of spaced bosses radially arranged about said plate on one side thereof, knife blades mounted on alternate bosses and extending inwardly approximately from the periphery of the rotor plate to the center thereof, hammers pivotally mounted on the outer ends of said bosses, bosses mounted on said plate on the side thereof opposite said first named bosses, said last named bosses being cooperative with the first named bosses in forming seats for said hammers, and means on said bosses extending inwardly and toward the rotor plate to provide for free flow around said bosses.

2,312,613
MINER'S LAMP
Grant Wheat, Marlboro, Mass., assignor to Koehler Manufacturing Company, Marlboro, Mass., a corporation of Massachusetts
Application January 23, 1940, Serial No. 315,135
8 Claims. (Cl. 240—11.3)

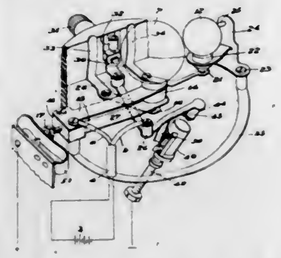
1. In a miner's lamp, the combination of a headpiece, a reflector in said headpiece, an electric lamp mounted in said headpiece in a centered position with reference to said reflector, said lamp including a bulb, circuit elements for supplying current to said bulb including a relatively stationary contact engaging one terminal of the bulb, and a spring actuated support for said bulb including substantially parallel leaf spring arms lying at approximately right angles

to the axis of said lamp and forming a parallel motion device, a sleeve joining the upper ends of the arms and forming a support for the bulb, the spring actuated support being so biased as to urge said lamp outward axially to break the engagement between said contact and said terminal, and means engaging the lamp bulb and supporting it against movement due to said spring action, whereby upon breakage of the bulb, the engagement of the terminal with the contact will automatically be broken.



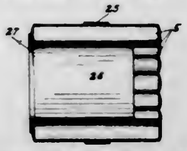
2. In a miner's lamp structure, the combination with a headpiece, an electric lamp mounted in said headpiece, a storage battery, and flexible conductors for leading current from said battery to said headpiece to supply said lamp, of means whereby said battery may be charged through said conductors, including a charging terminal inside said headpiece, a lock rotatably mounted in the rear portion of said headpiece for protecting said terminal from outside tampering, said lock having a key-hole exposed at the rear side of the headpiece, and key means for rotating said lock to a position where the key contacts with said terminal.

2,312,614
MINER'S LAMP
Grant Wheat, Marlboro, Mass., assignor to Koehler Manufacturing Company, Marlboro, Mass., a corporation of Massachusetts
Application January 27, 1941, Serial No. 376,097
13 Claims. (Cl. 173—356)



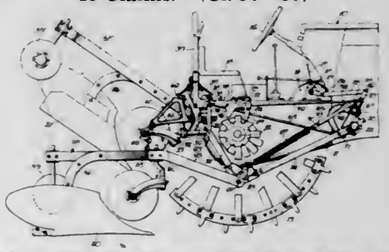
10. The combination with a miner's lamp structure of the type including a storage battery, charging contacts connected to said battery and mounted on said lamp structure, and a lock protecting one of said contacts, of a charging apparatus therefor comprising two charging terminals adapted to engage the charging contacts on said lamp structure, one of said terminals being in the form of a key adapted to operate said lock, and a charging circuit in which said charging terminals are connected.

2,312,615
BEARING ASSEMBLY MEANS
Thomas M. Allen, South Bend, Ind., assignor to Bantam Bearings Corporation, South Bend, Ind., a corporation of Indiana
Application November 15, 1939, Serial No. 304,462
7 Claims. (Cl. 206—46)



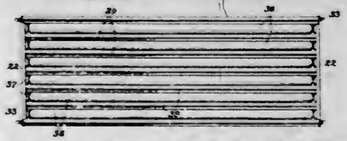
1. The combination, with a full complement roller bearing assembly, of means for maintaining said rollers in assembled relationship, comprising an outer sleeve member encircling said rollers and maintaining them in keystoned relation, and a pusher sleeve member disposed radially within said assembly and having a radial flange abutting axially against the roller ends for moving said rollers axially relative to said outer sleeve member.

2,312,616
TRACTOR PLOW
Herman E. Altgelt, South Bend, Ind., assignor to Oliver Farm Equipment Company, a corporation of Delaware
Substituted for abandoned application Serial No. 291,016, August 19, 1939. This application July 26, 1940, Serial No. 347,782
19 Claims. (Cl. 97—50)



1. A tractor plow in combination with a tractor comprising a draft section pivoted to said tractor, a plow section pivoted to said draft section, a plow base carried by said plow section, a transverse pin forming the connection between said sections, and means for adjusting said plow section on substantially a longitudinal and horizontal axis with respect to said draft section.

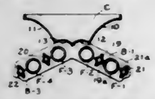
2,312,617
FLUORESCENT TUBE LIGHTING FIXTURE
Morris B. Beck, Lawrence, N. Y.
Application August 20, 1940, Serial No. 353,342
5 Claims. (Cl. 240—78)



5. A lighting fixture for industrial illumination to give a light distribution throughout a room which is uniform in the working plane, said lighting fixture being open at the top and bottom so as to permit the light to be distributed upwardly and downwardly, said lighting fixture

comprising a frame for supporting a plurality of fluorescent tubes in parallel spaced relation and elongated reflectors disposed between adjacent tubes, said reflectors being each constituted by concave reflecting surfaces meeting each other in four outwardly directed apices spaced 90° apart, with a pair of oppositely disposed apices lying in the horizontal plane containing the longitudinal axes of the two tubes immediately to opposite sides thereof and being in substantial contact with the surface of said pair of tubes whereby the illumination emanating from each tube is sharply cut off at said plane into two components, with one component distributed generally downwardly and laterally partly by reflection and with the other component distributed upwardly and laterally also partly by reflection and adapted to be redistributed laterally and downwardly by reflection from the ceiling so as to supplement the distributed illumination from the lower half of the tubes to give an illumination which is uniform in the working plane.

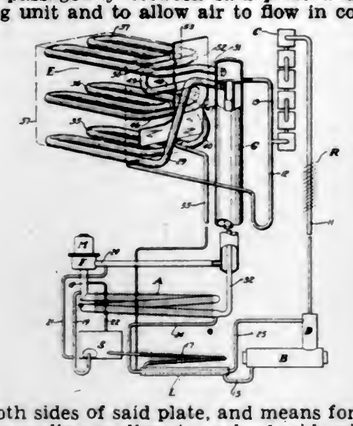
2,312,618
FLUORESCENT TUBE LIGHTING FIXTURE
Morris B. Beck, Lawrence, N. Y.
Application November 16, 1940, Serial No. 365,852
3 Claims. (Cl. 240—78)



1. A fluorescent tube lighting fixture comprising a canopy and a pair of spaced apart brackets carried thereby for supporting two pairs of fluorescent tubes in V-formation with the axes of each pair lying in a plane inclined to the horizontal and at an angle to the plane of the axes of the other pair to give the aforementioned V-formation and a substantially diamond shaped reflecting member mounted between the tubes of each pair to present a pair of opposed apices in the said inclined plane of the axes of the pair of tubes between which it is positioned and substantially bridging the space between said pair of tubes whereby the luminous flux from said tubes striking said reflecting member will be divided into two portions one of which will be directed generally upwardly and outwardly of the fixture, while the other one will be directed oppositely to said upwardly directed portion of the luminous flux, and an elongated reflector laterally concave in cross-section mounted above said brackets in parallel relation to tubes mounted therein, and serving to deflect a portion of said upwardly directed flux outwardly of the fixture.

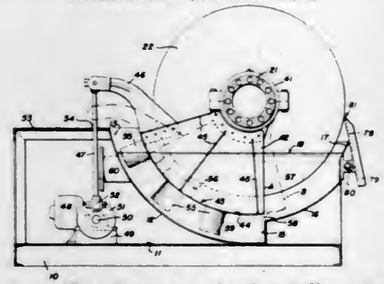
2,312,619
REFRIGERATION
Milo E. Bixler, North Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application January 25, 1939, Serial No. 252,745
21 Claims. (Cl. 62—119.5)

17. Refrigerating apparatus having a freezing unit arranged to support and refrigerate a horizontal receptacle supporting shelf, a flat vertically extending air-cooling unit positioned laterally of one side of said freezing unit and in spaced relationship thereto, a vertically extending heat conducting plate arranged in heat conducting relationship with said air-cooling unit and positioned laterally of and in spaced relationship to the said one side of said freezing unit to form an air passageway between said plate and said freezing unit and to allow air to flow in contact



with both sides of said plate, and means for supplying a cooling medium to each of said units.

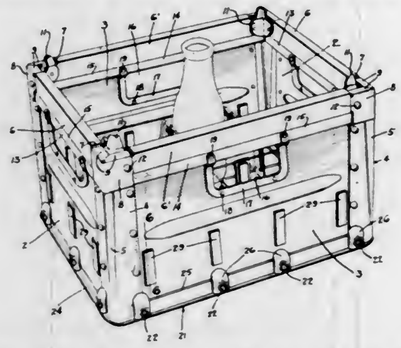
2,312,620
ROTARY FILTER TANK AND AGITATOR THEREFOR
Clarence B. Bowman, Salt Lake City, Utah, assignor to The Eimco Corporation, Salt Lake City, Utah
Application January 26, 1940, Serial No. 315,736
13 Claims. (Cl. 210—199)



1. In a filter having a horizontally rotatable vacuum filter member and means to operate the same, a tank enclosing the lower portion of said filter member and comprising a wall spaced from the periphery of said filter member, a riser extending upwardly from the lower edge of said wall, a second wall extending generally upward from the upper edge of said riser, and end walls joining said walls and said riser to define an enclosing tank, a rockable arm journalled concentric with the axis of rotation of said filter member and depending into the filter compartment, means for rocking said arm upon its journal, a septum exterior of the filter member and on said rockable arm dividing said tank into an adit and a filter compartment and cooperating with the riser to open and close communication between said compartments upon rocking movement of said arm, said adit chamber having an inlet, and means in the adit compartment for agitating solution therein.

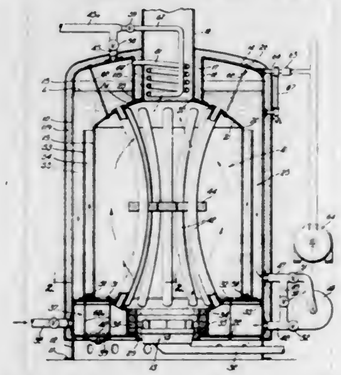
2,312,621
CRATE
Henry V. Bowman, Minneapolis, Minn.
Application August 18, 1939, Serial No. 290,835
2 Claims. (Cl. 220—71)

1. A box comprising a plurality of walls, corner irons securing together said walls at the corners of the box and extending substantially the full height of the walls, each corner iron being formed from a single blank of sheet metal bent to provide a pair of right angularly disposed legs, the upper portion of each leg of the blank being offset in an outward direction to provide an inwardly facing recess of right angle cross-section, wall-strengthening slats constituting the



upper edges of the box walls and having their ends received in said recesses, and a longitudinal reinforcing bead being formed at the corner of each angle iron between the legs thereof, said bead gradually increasing in size from the bottom of the box toward the top thereof, said slats and corner irons cooperating to support and protect the box walls against abnormal loads imposed on the top of the box.

2,312,622
STEAM BOILER
John E. Brantly, Pasadena, Calif.
Application January 22, 1940, Serial No. 315,031
2 Claims. (Cl. 122—166)

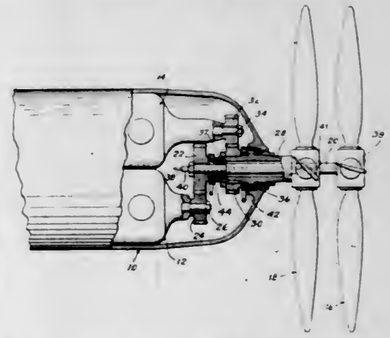


2. In a boiler, the combination comprising a cylindric wall forming a vertically extending fire box and having a substantially segmental spherical top, an outer wall spaced from said fire box to form a steam chamber thereabove and an annular water leg surrounding and directly exposed to the sides of the fire box wall, means forming a water chamber at the bottom of said fire box, segmental circularly curved water tubes converging toward the center of the fire box and extending continuously from said water chamber upwardly within the fire box through its top wall, a transverse baffle within the fire box between the upper and lower ends of said tubes and at the convergent portions of the tubes, means for passing combustion gases upwardly into said fire box, and means for discharging the gases from said fire box through the top of said outer wall.

2,312,623
TRACING PLASTIC
John C. Brooks, Longmeadow, and Elmer R. Derby, Springfield, Mass., assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application November 17, 1939, Serial No. 304,948
7 Claims. (Cl. 281—43)

1. A flexible transparent article in sheet form comprising essentially a polyvinyl acetal resin capable of use as a tracing medium having substantially no filler or pigment and having a substantially uniformly imprinted matte surface on at least one side thereof and a polished surface on the other and having a haziness value as determined by the Axilrod-Kline hazeometer, which has a photoelectrical cell opposite a light source, when employed in thicknesses of 3.5 to 6.0 mils, of substantially 90.5% to 93.5% when the polished side is toward the photoelectric cell and substantially 89.5% to 92.5% when the polished side is toward the light source.

2,312,624
COUNTERROTATING PROPELLER
Frank W. Caldwell, West Hartford, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application December 30, 1939, Serial No. 311,890
12 Claims. (Cl. 170—135.6)

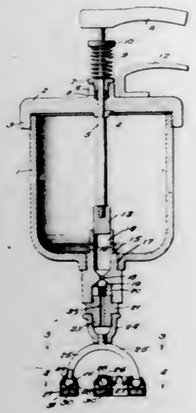


8. In a vehicle power plant comprising a pair of coaxial controllable-pitch propellers and means for rotating said propellers independently in opposite directions, means for holding one of said propellers against rotation, and means for turning the blades of the propeller so held to a pitch position at which aerodynamic forces acting on said propeller during flight tend to turn said propeller in the same direction as the direction of rotation of the other propeller.

2,312,625
MARKING DEVICE
George B. Cathey, San Angelo, Tex.
Application July 25, 1941, Serial No. 404,076
7 Claims. (Cl. 101—327)

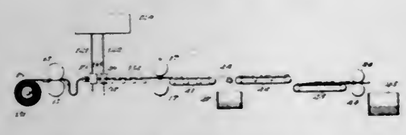
1. A marking device comprising an applicatory member formed with an open face defining a character or design, a diffusion member within

said applicatory member coextensive with said open face, and means for gradually forcing a



measured amount of marking fluid through said diffusion member.

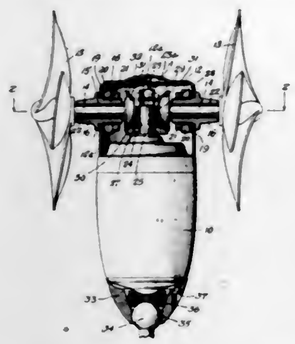
2,312,626
STRIP MARKING DEVICE
Alan C. Chamberlin and Henry W. Nieman, Bethlehem, Pa., assignors to Bethlehem Steel Company, a corporation of Pennsylvania
Application July 12, 1940, Serial No. 345,248
13 Claims. (Cl. 101—234)



1. In combination with a device for inspecting a moving work piece by photo-electric means, a member positioned adjacent the work piece and adapted to be rotated thereby, said member being relieved to permit the movement of the work piece out of contact therewith, motor means for initiating the rotation of said member, stop means for rendering said motor means ineffective, and means controlled by said photo-electric means for rendering said stop means momentarily ineffective.

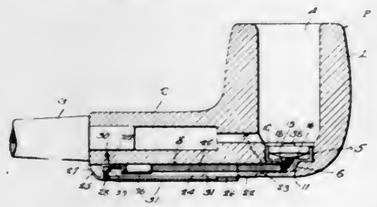
2,312,627
FAN
Joseph H. Cohen, Bridgeport, Conn., assignor to Casco Products Corporation, Bridgeport, Conn., a corporation of Connecticut
Application April 23, 1940, Serial No. 331,099
3 Claims. (Cl. 230—259)

1. In a device of the type described, a motor including a shaft driven thereby; a pair of shafts radially extending about said motor shaft; a fan secured to the outer end of each of said radially extending shafts; a bearing sleeve disposed about each fan shaft; a casing fixed to said motor and having a pair of elongate slots in the walls thereof for receiving said bearing sleeves, the edges of each slot supporting a bearing sleeve; a friction member carried by each bearing sleeve; releasable means secured to each bearing sleeve for locking the sleeve in the slot and for positively clamping the friction member against the inner surface of the wall of said casing, said means being adjustable to vary the clamping pressure on the friction member to alter the frictional engagement of said member on said wall and holding said sleeves against accidental move-



ment; and means for coupling the inner ends of said fan shafts to the motor shaft for rotation therewith, the coupling means permitting the bearing sleeves to be severally and jointly moved in said slots for angular adjustments relative to the axis of the motor shaft, whereby the fans may be disposed at different angular positions on the motor casing.

2,312,628
PIPE
James Russell Cook, Woodbury, N. J.
Application September 26, 1941, Serial No. 412,493
4 Claims. (Cl. 131—183)



3. A smoking pipe comprising a bowl and a stem, an ejector movable in the bowl, a slide mounted to reciprocate on the stem, a coiled spring extended between the slide and the ejector, and a flexible element extended through the convolutions of the spring and connected to the slide and to the ejector, the flexible element holding all of the convolutions of the spring in contact with each other, whereby the spring will constitute a longitudinally rigid thrust member, the flexible element constituting a pull member.

2,312,629
PARACHUTE TOY
M Kenneth Culver and Thurman M. McGregor, Houston, Tex.
Application April 12, 1941, Serial No. 388,234
14 Claims. (Cl. 46—86)

1. A parachute toy including, a hollow body, a parachute secured to the body by lines, means

for pulling the lines to draw the parachute into



the body, and means for withdrawing the parachute from the interior of said body.

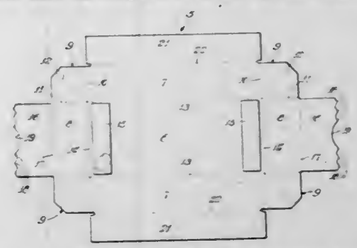
2,312,630
FASTENING MEANS
John F. Dauster, Wilkinsburg, Pa., assignor to Mine Safety Appliances Company, Pittsburgh, Pa.
Application October 29, 1940, Serial No. 363,287
4 Claims. (Cl. 128—140)



1. A fastener for a facepiece comprising a support in resilient material of the facepiece and bonded thereto and normally in an upright position and adaptable to be moved against the resilient material to a horizontal position to exert a downward pressure to the material of the facepiece to provide fluid tight engagement with a wearer, the support being positioned so that facepiece material underlies the fastener, a buckle and a connector joining the buckle to the support.

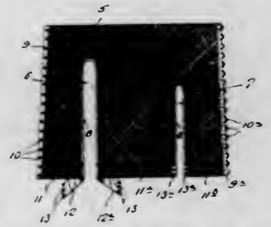
2,312,631
CARTON
Robert B. Deem, Philadelphia, Pa., and George V. Thompson, Chicago, Ill., assignors to Container Corporation of America, Chicago, Ill., a corporation of Delaware
Application January 22, 1940, Serial No. 314,966
2 Claims. (Cl. 229—31)

1. A folding carton formed from a paperboard blank comprising a bottom panel, side and end walls hinged respectively to the sides and ends of said bottom panel, diagonally foldable corner portions connecting the ends of each side wall with the adjacent ends of each end wall, score lines defining said corner portions from said side and end walls, those of said score lines defining the ends of said end walls being aligned with the sides of said bottom panel and those of said score lines defining each of said corner portions being disposed at an angle to each other somewhat greater than 90°, whereby said end walls will tend to assume a somewhat inwardly inclined position when said side and end walls are in upright position with said corner portions folded to lie against said end walls, a locking strip secured to said bottom wall in relatively close spaced relation to the inner face of each of said end walls, and an extension carried by each of said end walls having deformable tab elements on its outer edge portions and having an overall length somewhat



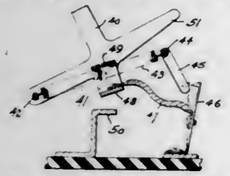
greater than the height of its associated end wall, whereby said tab elements will become deformed by engagement with the top surfaces of said locking strips when said extensions are swung inwardly and downwardly, and whereby the edges of the deformed tab elements will lockingly engage the edges of said locking strips to prevent displacement of said extensions after the deformed tab elements clear the edges of said locking strips in the movement of said extensions into juxtaposition with their associated side walls.

2,312,632
SURGICAL BINDER
Ellen Drew, Evanston, Ill.
Application February 3, 1942, Serial No. 429,421
1 Claim. (Cl. 2—43)



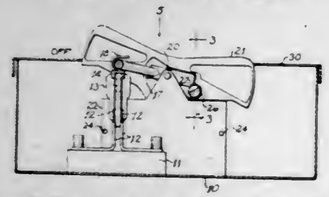
A surgical binder adapted to hold surgical dressings in place when loosely applied and without restricting movement of the patient, comprising a body portion adapted to be conformed to the part of the body on which the dressing is placed and composed generally of elastic mesh fabric, and band means applied to the lower edge of the body portion of the binder and adapted to conform the body portion to the patient and fasten it against upward displacement, said body portion having equally spaced vertical slots extending upwardly from its lower edge, one of said slots being relatively wide and extending near the upper edge of the body portion, the other slot being relatively narrower and terminating slightly above the horizontal center of the body portion, certain of said band means having extensions at opposite sides of the wider and longer slot adapted to pass around the inner sides of the wearer's leg and to fasten to the body portion at opposite sides of the shorter narrower slot, the upper portion of the body portion being adapted to pass around the abdomen.

2,312,633
CIRCUIT BREAKER
William H. Frank, Detroit, Mich., assignor to Bulldog Electric Products Company, Detroit, Mich., a corporation of West Virginia
Application July 5, 1938, Serial No. 217,632, which is a division of application Serial No. 119,931, January 11, 1937. Divided and this application February 21, 1940, Serial No. 320,120
21 Claims. (Cl. 200—116)



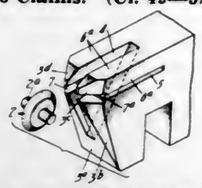
1. A manually operable switch and circuit breaker including a spring, a contact operatively connected thereto so as to be moved thereby, a handle directly connected to the spring so as to provide for manipulation thereof, a circuit current responsive latch directly connected to said spring, the handle and the latch providing direct connected separate holding means for the spring, the relation between the spring, the latch, and the handle being such that on release of the latch the spring biases the contact to open circuit position by moving around the handle connection thereto as a pivot without requiring movement of the handle, and on movement of the handle the spring moves the contact to open circuit position by moving around the latch connection thereto as a pivot without moving the latch, the points of connection between the handle and spring and between the latch and spring being spaced from each other, the spring normally biasing the contact into closed circuit position.

2,312,634
SWITCH
William H. Frank and Lawrence E. Fisher, Detroit, Mich., assignors to Bulldog Electric Products Company, Detroit, Mich., a corporation of West Virginia
Application July 25, 1940, Serial No. 347,514
11 Claims. (Cl. 200—163)



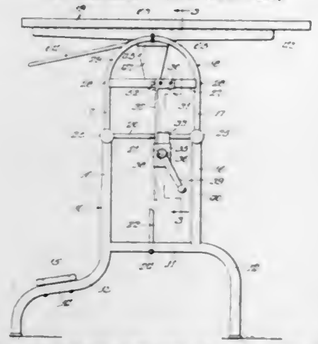
1. A switch comprising a box having a sidewall, an open front, a cover therefor, and a back, a stationary contact on the back of the box and projecting forwardly therefrom, a movable contact for engaging or leaving said stationary contact, a bail parallel to and movable towards and away from said back, and connected to said movable contact, and a rocker push-only type handle disposed in a slot of the cover and pivotally mounted on the box side on an axis parallel to the bail and rigidly and permanently connected thereto for moving it, and a snap action spring for said handle, and means for preventing undesired relative motion between bail and handle, the parts being so constructed that on release of the last named means, the bail may be swung relative to the handle.

2,312,635
GLASS CUTTER
Arthur T. Fletcher, Bristol, Conn.
Application February 14, 1940, Serial No. 318,904
8 Claims. (Cl. 49—52)



1. In a glass cutter, a holder having an integral head which is normally substantially non-resilient, said head having an elongated narrow kerf cut therein in such manner as to form from the material of said head, a resilient portion therein, and a cutter wheel having an axle in said kerf of greater diameter than the normal width of said kerf and gripped by said resilient portion.

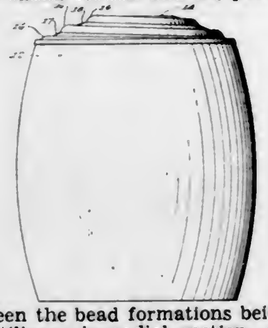
2,312,636
ADJUSTABLE STAND
George E. Froelich, Two Rivers, Wis., assignor to Hamilton Manufacturing Company, Two Rivers, Wis., a corporation of Wisconsin
Application August 4, 1940, Serial No. 351,381
14 Claims. (Cl. 311—36)



12. In adjustable devices of the class described embodying a fixed member and a movable member, that improvement therein which comprises a rail carried by one of said members, a torsion spring carried by the other of said members and encircling said rail, said spring being normally biased into position gripping said rail to frictionally restrain relative movement of the members, and means for temporarily loosening the frictional grip of the torsion spring on the rail for relative movement of the fixed and movable members.

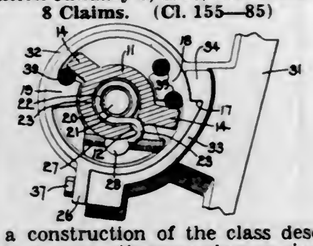
2,312,637
CONTAINER TOP
Harry Fulenwider, Ponte Vedra Beach, and Kenneth C. Weatherby, Jacksonville, Fla., assignors to National Pressed Steel Barrel Company, Jacksonville, Fla., a corporation of Florida
Application December 3, 1940, Serial No. 368,400
1 Claim. (Cl. 220—66)

A metal container top having at its outer edge a flange portion engageable with an end of a barrel and having an opening centrally positioned with respect to the flange portion, said top being domed inwardly of said flange portion toward said opening and the dome having spirally arranged bead formations therein about its center and extending substantially throughout the dome, said bead formations being outwardly convex in radial section and the portions of the



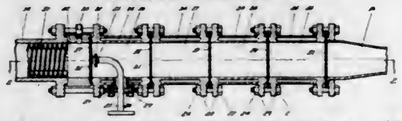
top between the bead formations being substantially rectilinear in radial section, said formations rendering the dome collapsible to a condition of general flatness.

2,312,638
THEATER SEAT HINGE
Stanley James Gedris, Grand Rapids, Mich., assignor to Ideal Seating Company, Grand Rapids, Mich., a corporation of Michigan
Application January 8, 1940, Serial No. 312,889
8 Claims. (Cl. 155—85)



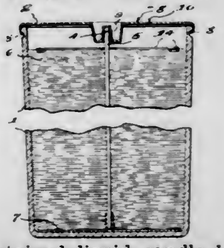
2. In a construction of the class described, a standard, a supporting member projecting inwardly from a side of the standard, at one side being open and at one end portion thereof having a radially inwardly projecting lug, a seat, a hinge member secured at a side thereof, a second hinge member mounted upon the first hinge member whereby the first hinge member may be rotated about a horizontal axis with respect to the second hinge member, said second hinge member being shaped as its outer portions to be received within the supporting member on the standard and having a recess at one side to receive said inwardly extending lug, and means at the other end of said supporting means adapted to engage with the second hinge member to secure it in position.

2,312,639
APPARATUS FOR TREATING PLASTIC MATERIAL
Fred G. Gronemeyer, Longmeadow, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
Application August 2, 1940, Serial No. 349,415
5 Claims. (Cl. 259—4)



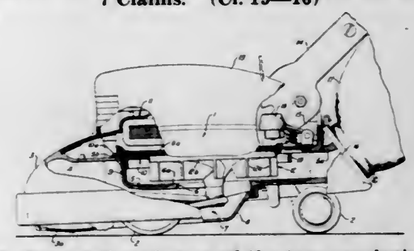
1. In an apparatus for treating a plastic material with a solvent, a series of intercommunicating chambers separated by perforated plates, means for forcing plastic material through said chambers and perforated plates, means for introducing solvent into one of said chambers, said means comprising a conduit extending into said chamber in the direction against the flow of said material and having outlets thereon at a position behind and adjacent the middle of the discharge side of the perforated plate on the inlet side of said chamber, and adapted to direct said solvent radially from said conduit into said chamber and substantially normal to the main direction of flow of material through said chamber, and a deflector adapted to prevent plastic material from clogging said outlets on said conduit.

2,312,640
SANCTUARY OIL LAMP
Oscar D. Guilfoil, Jr., Syracuse, N. Y., assignor to Muench-Kreuzer Candle Co., Inc., Syracuse, N. Y., a corporation of New York
Application April 12, 1941, Serial No. 388,200
1 Claim. (Cl. 67—36)



A self-contained liquid candle lamp unit including a container open at its top, a closure permanently sealed to the open top and having a central portion provided with means for coacting with the upper end of the wick to hold the wick upright in the liquid during storage, shipping and handling, said portion being removable providing an opening for the outlet of the products of combustion and an inlet for the outside air supporting combustion, the removable portion being integrally secured to the major part of the closure by a sealed rupturable joint.

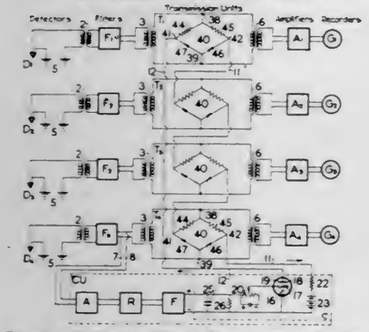
2,312,641
SUCTION CLEANER
Paul T. Hahn, Detroit, Mich., assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application March 17, 1941, Serial No. 383,684
7 Claims. (Cl. 15—16)



1. In a suction cleaner of the type employing a fan driven by an electric motor, the combination of a cleaner body having an open-mouth cavity defined by side and bottom walls, a liner removably nested in said cavity and having a laterally extending marginal flange resting on said body

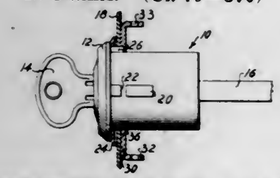
for removably supporting said liner in said cavity, and a motor support resting on said body, a motor on said support, said support, motor and liner cooperating to define a fan chamber, said motor operating a fan in said fan chamber.

2,312,642
SEISMIC EXPLORATION METHOD
Alfred J. Herzenberg, Houston, Tex., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application March 29, 1941, Serial No. 385,961
6 Claims. (Cl. 177—352)



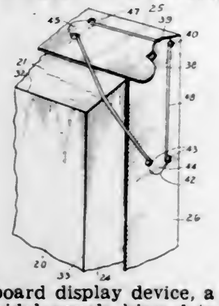
5. In a seismograph system comprising a plurality of detectors adapted to generate electric impulses and a multistring recorder adapted to record said impulses, a plurality of closed circuits for the transmission of said impulses from the detector to the recorder, each of said circuits comprising an input transformer inductively linking said circuit to a detector and an output transformer inductively linking said circuit to one of the strings of the recorder, a non-linear resistance element shunting said circuit between said transformers, means in circuit with at least one detector to produce a direct current varying as a function of the amplitude of the impulses generated by said detector, and single control means for passing said variable direct current through said non-linear resistance elements in series, whereby the energy of the impulses transmitted in each of said circuits from the input transformer to the output transformer is varied as a function of the intensity of said direct current.

2,312,643
LOCK PLATE
Walter Hoettels, Milwaukee, Wis., assignor to Nash-Kelvinator Corporation, Kenosha, Wis., a corporation of Maryland
Application September 11, 1940, Serial No. 356,277
11 Claims. (Cl. 70—370)



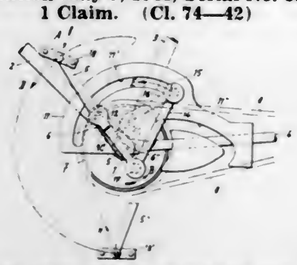
1. In combination with a door panel defining an aperture having notches spaced therearound, a cylinder lock positioned in said aperture, an annular lock plate positioned around said cylinder on the inside of said door panel and having a notch therein, ribs formed on said cylinder and engageable with said lock plate to prevent axial movement of said plate, and a lug formed on said cylinder and engaged with the notch in said plate to prevent rotation of said plate relative to said cylinder, said ribs and lug being positioned in the notches of the aperture in said door panel.

2,312,644
CARDBOARD DISPLAY DEVICE
John V. Horr, Hastings on Hudson, N. Y., assignor to Elnson-Freeman Co., Inc., Long Island City, N. Y., a corporation of Delaware
Application October 28, 1940, Serial No. 363,114
1 Claim. (Cl. 40—154)



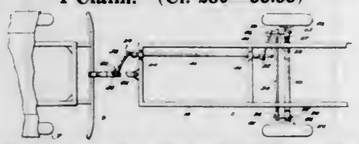
In a cardboard display device, a main display area, trapezoidal panels hinged to the edges of said area, the hinged edge of each panel being shorter than the outer edge thereof and the base angles of said panels being such that by bringing their adjacent ends substantially into mutual abutment said panels will be inclined to the plane of said area and will define a beveled border for said area, rearwardly disposed flaps hinged to the outer edges of said panels, elastic means engaging said flaps and interconnecting them to draw the panels yieldably into said inclined positions, and means for guiding the adjacent ends of said panels into mutual abutment, said last-named means comprising an extension on the end of each flap adapted to be encountered by the end edge of the adjacent flap.

2,312,645
TREADLE LEVER DRIVE, ESPECIALLY FOR BICYCLES
Adolf Huber, Uetikon, Switzerland
Application May 9, 1941, Serial No. 392,744
1 Claim. (Cl. 74—42)



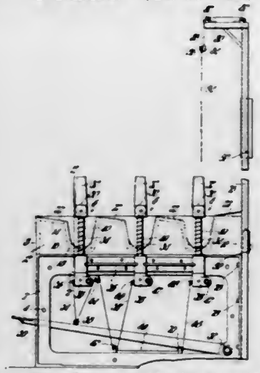
A treadle lever drive, especially for bicycles, comprising double arm levers having pedals at their front ends and adapted for upward and downward motions, said levers being pivoted intermediate their ends to a crank mounted in the treadle bearing of the bicycle, a switch gear coupled to the shaft of said crank, a pair of pivoted links interconnecting said gear and the rear end of the respective levers, and a pair of members arranged on either sides of the bicycle frame and having two spaced curved primary and secondary paths differently eccentered to said shaft, the pivot which connects both links cooperating with the primary path and being so guided thereby that the reaction pressure on said lever rear end during the power stroke is transmitted through said links and gear to said shaft, while during the idle stroke said lever rear end is guided by the secondary path so that after less than half a revolution of said shaft the lever is brought back to its uppermost rocking position.

2,312,646
STEERING TRAILER
Charles Calvin Hunt, Utica, Ohio
Application May 16, 1941, Serial No. 393,830
1 Claim. (Cl. 280—33.55)



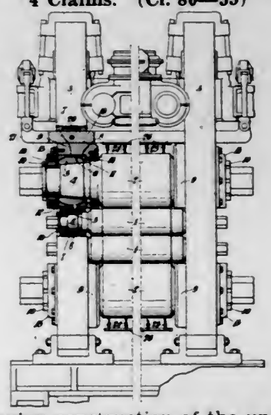
A trailer and draft vehicle therefor comprising an axle carried by the trailer, wheel supporting stub axles mounted on the ends of the axle carrying wheels, a laterally extending arm connected to each stub axle, a radius rod connecting said laterally extending arms, a shaft journaled in the trailer frame extending longitudinally therefrom, at one side of the trailer, crank arms depending from the ends of said shaft, a link connecting one of the crank arms to one of the laterally extending arms of the stub axles, a U-shaped clamp connected to the rear of the draft vehicle, a connecting arm pivotally connected to one of the arms of the U-shaped clamp and to the trailer and a depending link pivotally connected to the other arm of the U-shaped clamp and to the remaining depending arm of the longitudinally extending shaft.

2,312,647
APPARATUS FOR PROCESSING SENSITIZED SHEETS
Russell B. Hussey and Cecil K. Jones, Springfield, Mass.
Application May 28, 1941, Serial No. 395,594
3 Claims. (Cl. 95—89)



1. Apparatus for processing sensitized sheets comprising in combination, a support, a trough-like receptacle for processing liquid, a sheet guide disposed longitudinally and horizontally relative to said receptacle mounted on said support for up and down movements between a lower guiding position in liquid in said receptacle and an upper non-guiding position above liquid in said receptacle, a movable member mounted for back and forth movements relative to said support, actuating means for moving said member in one direction and permitting movement thereof in an opposite direction, jaw means carried by said member for engaging one edge of a sheet facilitating the passage thereof beneath said guide so that its free opposite edge may be manually grasped for pulling said sheet and member in a direction against the action of the actuating means and released whereby said member and sheet will be pulled in an opposite direction, and means for maintaining said guide in horizontal position and for moving the same between its upper and lower positions.

2,312,648
METAL ROLLING MILL
Lloyd Jones, North East, Pa.
Application March 15, 1941, Serial No. 383,575
4 Claims. (Cl. 80—55)

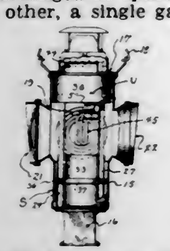


1. A bearing construction of the unit assembly type for a rolling mill comprising an inner ring member having a taper bore tightly fitted to a corresponding taper portion of a roll neck to rotate therewith and be supported and maintained in its true shape by said neck, the outer portion of said ring member having a spherical bearing surface which co-acts with spherical bearing surfaces formed on the inner portions of thin segments which are maintained in their true shape by being tightly fixed in the bore of a surrounding chock, the ring member and the bearing segments being radially thin so as to be of themselves unstable, for the purpose of increasing the spherical bearing arc so as to support the heavy imposed loads and also permit the use of a roll neck of sufficient size so that in its zone of maximum stress it will have a strength substantially equal to the roll body when occupying the limited available space between adjacent cooperating rolls.

2,312,649
SWITCH SIGNAL
Daniel Allcott Kelly, Milwaukee, Wis., assignor to The Prime Manufacturing Company, Milwaukee, Wis.
Application January 22, 1941, Serial No. 375,477
1 Claim. (Cl. 177—329)

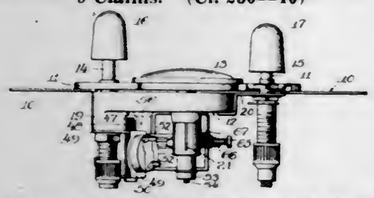
In a signal lamp of the type including a casing having a plurality of different colored lenses arranged in the same horizontal plane; a self-contained lighting filler unit detachably asso-

ciated with the casing including a frame, a battery detachably fitted in the frame, a housing forming a part of the frame, the housing and battery being arranged in spaced relation, with one above the other, a single gas tube disposed



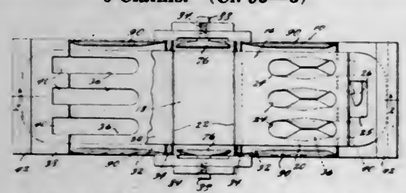
in line with the lenses and centrally in the frame between the battery and the housing, whereby the frame, battery, and housing form a guard for the tube, and a flasher mechanism for the tube disposed in the housing electrically connected with the tube and battery.

2,312,650
RADIO CONTROL ASSEMBLY
Otto C. Koch, Chicago, Ill., assignor to F. W. Stewart Manufacturing Corporation, Chicago, Ill., a corporation of Illinois
Application August 18, 1941, Serial No. 407,378
9 Claims. (Cl. 250—40)



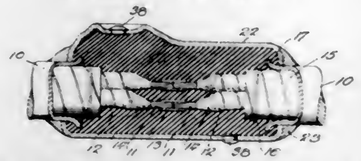
2. A tuning assembly for mounting on the instrument panel of an automobile, comprising a gear casing mounted behind said panel and having concentric rotatable sleeves in registration with an opening in said panel, a tuning shaft mounted in said gear casing to rotate and to have a limited in and out longitudinal movement, indicator parts each connected to one of said sleeves, a train of gears from said shaft to one of said sleeves, a pawl and ratchet connected to the other of said sleeves and means actuated by the in and out movement of said shaft to operate said pawl and ratchet.

2,312,651
APPARATUS FOR LOADING AND FOLDING BOTTLE CARRIER CARTONS
Stanley R. Koolnis, New York, N. Y.
Application January 9, 1939, Serial No. 249,968
6 Claims. (Cl. 93—3)



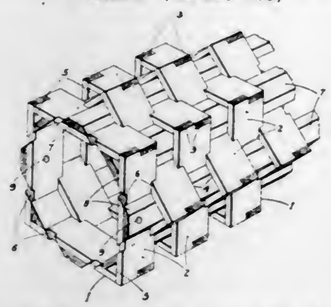
1. Apparatus for loading and folding bottle carrier cartons having a table for supporting a carton blank and members along opposed edges of the table movable toward one another to ride over edges of a carton arranged on the table as the carton is folded to compact the bottles loaded on the carton.

2,312,652
CABLE JOINT AND PROCESS
Laszlo I. Komives and John D. Piper, Detroit, Mich.
Application January 18, 1941, Serial No. 375,062
9 Claims. (Cl. 174—21)



1. A joint between two sections of lead-sheathed cable having oil impregnated fibrous insulation, comprising, a permanent joint sleeve secured to the cable sheaths in a fluid-tight manner, the factory insulation being removed to provide space for a connector tube joining the two conductor sections, the sheath of each section being removed for only such a distance as to produce a surface path between the sheath and conductor having a materially lower voltage breakdown strength than that substantially radially through the normal cable insulation and a homogeneous, thermoplastic, rigid plastic completely filling all of the space within the sleeve not occupied by the parts of the original cables and their connector tube, said plastic being bonded to the factory insulation by a bonding material impregnating the outer surface of the factory insulation, said material being sufficiently viscous to keep the oily impregnant from the interface, the dielectric strength of the bond along the interface being at least equal to that of the original cable insulation, the plastic being hardened in situ solely by temperature change and without the production of any gaseous, liquid or solid by-products, said plastic being substantially inert in the presence of cable insulation and transformer oils and greases.

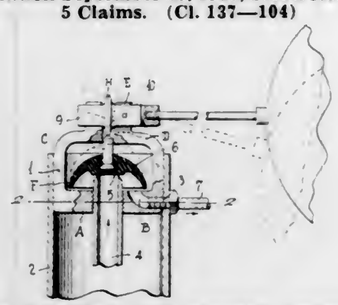
2,312,653
WOODEN CULVERT
Henry E. Kuphal, Sacramento, Calif.
Application June 15, 1942, Serial No. 447,074
7 Claims. (Cl. 138—79)



1. A conduit comprising a plurality of initially separate open-ended sections of like polygonal configuration in end plan, said sections being disposed in end to end engagement with the corners of each section projecting beyond the sides of an adjacent section, and full length longitudinal keys extending through corresponding

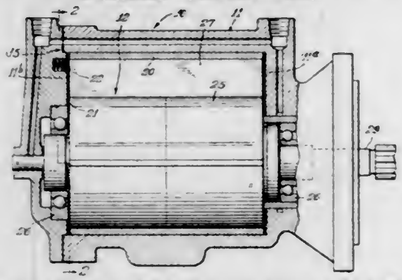
ones of said corners in engagement with but outwardly of said sides and holding the sections in assembled relation to each other.

2,312,654
SIPHONLESS COCK ASSEMBLY
Jesse D. Langdon, Los Angeles, Calif.
Application September 20, 1940, Serial No. 357,649
5 Claims. (Cl. 137—104)



1. A siphonless cock assembly comprising a framework having two narrow parallel upper and lower frame portions spaced apart and opposing one another, the lower frame portion having a threaded port therethrough, a supply tube mounted in said port and projecting above said lower frame portion and forming an inlet and valve seat, a valve member mounted between the frame members and adapted to engage said valve seat, the upper frame portion having means to guide said valve member, said valve member comprising a bellshaped portion having a periphery made of flexible material forming a skirt capable of being spread radially outward by fluid pressure from within the bell, means attaching said upper frame portion to said lower frame portion in spaced relationship, a tubular casing surrounding the ends of the narrow frame portions and being attached in fixed relationship thereto and forming open airports either side of said narrow frame portions, the periphery of said valve member capable of being urged radially outward to minimize the tendency of any liquid passing through the inlet to use above said inlet inside of said tubular casing.

2,312,655
PUMP
John A. Lauck, South Euclid, Ohio, assignor to Pump Engineering Service Corporation, Cleveland, Ohio, a corporation of Ohio
Application May 22, 1941, Serial No. 394,569
3 Claims. (Cl. 230—153)



1. In a light weight vacuum pump adapted for aircraft use, including a light weight metal main housing having an impeller chamber therein, a rotary impeller assembly received within said chamber, said impeller assembly being composed at least in part of a relatively heavier metal than the metal of said main housing in order to withstand the stress and wear, said lighter weight metal housing having a greater coefficient of expansion than the metal of said impeller assembly, means providing a predetermined total clearance between said impeller assembly and the walls embracing the same irrespective of temperature changes in said pump, including an auxiliary housing composed of a metal having substantially the same coefficient of expansion and contraction as the metal of said impeller assembly located between said main housing and said impeller assembly, said auxiliary housing comprising an axially adjustable end wall, a metal sleeve embracing said rotary impeller assembly for contact with the inner periphery thereof and means for maintaining said end wall in engagement with said sleeve adjacent the periphery thereof while allowing for the relative expansion and contraction of said lightweight surrounding housing without affecting said engagement.

2,312,656
WHIPSTOCK DEFLECTING TOOL
Frank L. Le Bus, Longview, Tex.
Application June 28, 1941, Serial No. 400,155
3 Claims. (Cl. 255—1.6)

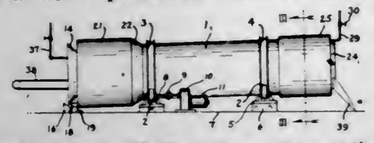


1. A whipstock deflecting tool for oil wells employing a milling element, said whipstock comprising a taper-faced body, the upper part of the body terminating into a resilient trip to bear against the inner walls of a well casing and designed to catch between the ends of casing sections, the lower part of the body having annular teeth to bear against the inner walls of said casing to prevent rotation of the body, a key-way in the taper-faced body, a rod slidably arranged in the key-way, a slip on the lower end of the rod, a nut on the upper end of the rod, means for adjustably connecting the upper end of the rod to a tubular element threadedly engaged to a string of well tubing, and shear rivets for temporarily connecting the taper-faced body to the tubular element and for similarly connecting the lower end of the rod to the slip.

2,312,657
WASHING MACHINE
Arthur A. Locke, Detroit, Mich., assignor to Miller Laundry Machinery Company, Detroit, Mich., a partnership
Application June 27, 1941, Serial No. 400,059
6 Claims. (Cl. 68—146)

1. A washing machine comprising a tumbling

barrel having open inlet and outlet ends, means for rotatably supporting the barrel in an inclined position, driving means attached to one of the barrel supports for rotating the barrel, a helical baffle attached to the inner wall of the barrel and extending throughout the length of the barrel, and a sleeve positioned concentrically and in



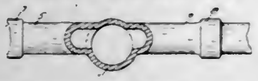
spaced relation with the outer surface of the barrel at the outlet end to form a partially enclosed chamber, said sleeve being attached to and rotatable with the barrel, said barrel at a spaced distance from the outlet end having a plurality of apertures extending through the barrel wall and communicating with said partially enclosed chamber.

2,312,658

COMBINED SOIL WASTE AND VENT FITTING

Henry J. Luff, Cleveland, Ohio, assignor to J. A. Zurn Manufacturing Company, Erie, Pa., a corporation of Pennsylvania

Application May 7, 1942, Serial No. 442,126
1 Claim. (Cl. 285—210)



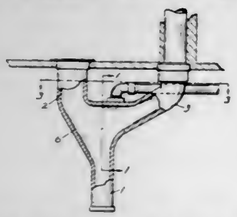
A combined waste and vent fitting comprising a main waste and vent pipe, and branch waste lines extending into said main pipe at an angle, a vertical plane through said waste lines passing to the side of the axis of said main pipe whereby water passing from said waste pipes passes downwardly on one side of said main pipe.

2,312,659

COMBINED SOIL WASTE AND VENT FITTING

Henry J. Luff, Cleveland, Ohio, assignor to J. A. Zurn Manufacturing Company, Erie, Pa., a corporation of Pennsylvania

Application May 7, 1942, Serial No. 442,127
1 Claim. (Cl. 285—210)



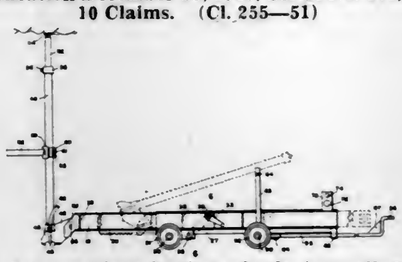
A combined soil waste and vent fitting comprising a body member having outwardly extending branches, the lower branch being for drainage and the other branches being for soil waste and air, said body member having the sides thereof tapered outwardly and having a substantially flat top portion disposed a maximum distance above said drainage branch whereby the head of the water entering said drainage branch may be built up to a maximum height, and waste lines entering through the flat upper portion of said body member.

2,312,660

MINER'S DRILL CARRIAGE

Stanley W. McDougall, Kellogg, Idaho, assignor of one-third to John Fox, Kellogg, Idaho, and one-third to Roy S. Hooper, Kellogg, Idaho

Application December 23, 1940, Serial No. 371,265
10 Claims. (Cl. 255—51)



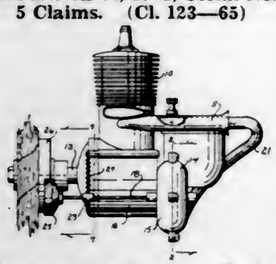
1. In a carriage having wheels journalled on axles and a frame resting on said axles, an extensible tool supporting means comprising a slide rail having a rack thereon, a pinion engaging said rack, means on said frame for rotating said pinion to move said slide rail with relation to said frame, a tool column pivotally associated with said slide rail and adapted to move therewith, a ground engaging foot on said tool column operable to support the slide rail and tool column when said column is in the erect position, an expansible chamber in said column, an extension bar slidably located in said chamber, and means for expanding said chamber to extrude said extension bar therefrom.

2,312,661

SUPERCHARGER FOR MODEL MOTORS

Daryle Messner, Des Moines, Iowa, assignor of one-half to R. H. Killebrew, Des Moines, Iowa

Application March 22, 1941, Serial No. 384,613
5 Claims. (Cl. 123—65)



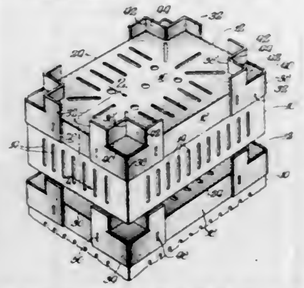
4. In a device of the class described, a housing formed of two shell members, a means for securing said shell members to each other, an air inlet into said housing formed by said shell members, an outlet from said housing, an impeller blade rotatably mounted within said housing and capable of drawing air into said housing through said inlet and forcing it out through said outlet when said impeller blade is rotated, a semi-flexible shaft member having one end secured to said impeller blade, a friction drive wheel on the other end of said semi-flexible shaft member and designed to be rotated by an internal combustion motor, a means for yieldingly and rotatably securing said shaft to an internal combustion motor, an elongated flexible tube member having one end in communication with the air outlet of said housing and its other end designed to be introduced into the air intake of an internal combustion motor, and a means cooperative with the outlet from said housing for causing a turbulence in the air forced therefrom when said impeller blade is being rotated.

2,312,662

CHICK BOX LID

Kinney I. Miller, Lancaster, Mo.

Application January 6, 1941, Serial No. 373,348
5 Claims. (Cl. 229—6)



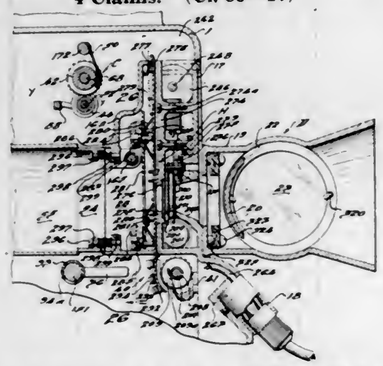
1. A lid for a chick box comprising an initially flat sheet of material adapted to be folded into the shape of a lid, said sheet having a top portion and strips at the edges thereof forming side and end portions having folding lines of attachment to the top adapted to be secured together at the ends when in erected position, and a turnback member at each corner secured throughout a portion of its length to the end one of said end portions, each said member having a slit intermediate its ends parallel to the side edge of said adjacent end portion forming a shelf strip and said members having when the lid is erected positions face to face against the outside surface of the respective end portions with the shelf strip extending inwardly from the outside edges to a position overlying the top.

2,312,663

MOTION PICTURE PROJECTOR

Raymond J. Miller, Detroit, Mich., assignor to American Pattern and Manufacturing Co., Detroit, Mich., a copartnership consisting of said Miller and Alfred E. Wilson

Application January 11, 1939, Serial No. 250,310
4 Claims. (Cl. 88—17)



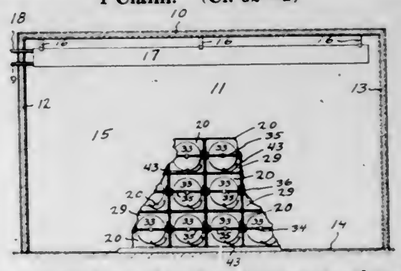
1. In a motion picture projector having a housing, a partition separating the interior of the housing into mechanism and film compartments, the combination of movable film gate and lens tube assemblies including nested carrier arms in the film compartment, supports for the nested carrier arms comprising three horizontally extending vertically spaced rods carried by said partition, the film gate carrier arm supportedly engaging the upper rod at two longitudinally spaced points and supportedly engaging the middle rod at one point and the lens tube carrier arm supportedly engaging the lower rod at two longitudinally spaced points and supportedly engaging the middle rod at a point spaced longitudinally from the point of engagement therewith of the film gate carrier arm.

2,312,664

AIRTIGHT COLD STORAGE COMPARTMENT

Earl L. Mohr and James O. Harvey, Sioux City, Iowa

Application January 11, 1941, Serial No. 374,034
1 Claim. (Cl. 62—1)



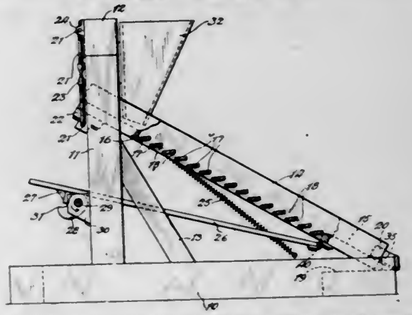
In combination with a cold storage and preservation room, a plurality of compartments within said room, said compartments being normally completely air-tight, said compartments including a door, sealing means adjacent said door for sealing said door in relation to said compartment, said sealing means including a gasket positioned between the door and the compartment, said door including a bar attached thereto, means receiving the ends of said bar and exerting pressure against said gasket upon rotatable movement of said bar and door.

2,312,665

SCREENING APPARATUS

Edward B. Moore, Chicago, Ill.

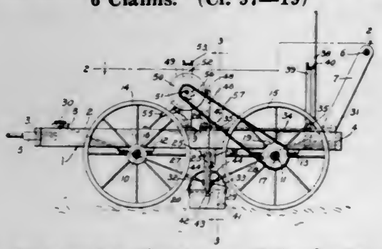
Application September 30, 1940, Serial No. 358,983
8 Claims. (Cl. 209—90)



1. In a screening apparatus, the combination of a screening element across which the material to be screened passes during the screening operation, said screening element including a plurality of shelf members each of which is spaced forwardly and downwardly from the preceding shelf member to provide a series of steps having discharge spaces along the rear edges thereof, and means for imparting to said screening element a recurrent motion including a horizontal reciprocating component characterized by the abrupt initiation of a high speed forward movement to cause portions of said material to be discharged rearwardly from said shelf members

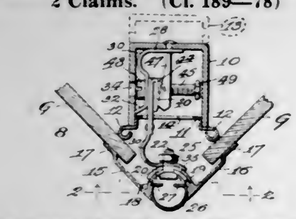
through said discharge spaces along the rear edges thereof and by an abrupt termination of said high speed forward movement to cause other portions of said material to be discharged from the front edge of each shelf member so as to be advanced down said steps.

2,312,666
COTTON CHOPPER
Charles E. Morris, Little Rock, Ark.
Application January 22, 1940, Serial No. 315,121
6 Claims. (Cl. 97—19)



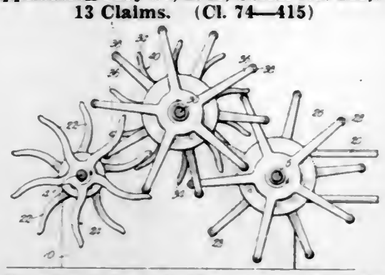
1. In a cotton chopper, a main frame, front and rear wheels for the main frame rotatably mounted intermediate the width thereof, supports at opposite sides of said main frame mounted for vertical swinging adjustment towards and away from the ground, choppers carried by said supports at opposite sides of the main frame and pivotally mounted for transverse movement, and actuating means for said choppers including a vertical lever pivotally mounted intermediate the width of the frame, rods connecting the lower end of said lever with said choppers, and means for imparting swinging movement to said lever carried by said frame and actuated from one of said wheels.

2,312,667
SAFETY GLASS SETTING
Daniel J. Murnane, Hollywood, Calif.; Grace E. Murnane and Gertrude D. Murnane administratrices of said Daniel J. Murnane, deceased
Application August 21, 1940, Serial No. 353,535
2 Claims. (Cl. 189—78)



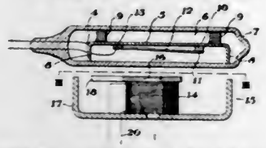
1. In a corner bar glass setting, an inner glass contacting member, an outer glass contacting member comprising two parts capable of adjustment for engagement with plates of glass positioned at different angles, overlapping flanges formed on the inner faces of the parts of said outer member adjacent their inner edges, which flanges are shaped to provide a recess between said parts, a bolt passing through said flanges for securing the same to each other, the head of which bolt bears against the face of that one of the flanges that forms a part of the wall of said recess and a substantially semi-circular resilient member positioned within said recess independent of said bolt and its head whereby said resilient member may be rotated for a limited distance in either direction and moved lengthwise while the glass setting is being assembled or disassembled.

2,312,668
POWER TRANSMITTING APPARATUS
Ralph L. Newton, Kansas City, Mo.
Application May 20, 1942, Serial No. 443,750
13 Claims. (Cl. 74—415)



1. In apparatus of the character described having a driving shaft and a driven shaft, means for transmitting power from the former to the latter, comprising a plurality of levers rigid with the driving shaft, each provided with a concave surface facing the direction of travel; a rotatable intermediate shaft; a plurality of radial arms rigid therewith; and means operably interconnecting the intermediate shaft and said driven shaft, said arms of the intermediate shaft having the free ends respectively thereof disposed to be successively engaged by the concave faces of the said levers on the driving shaft as the same is rotated.

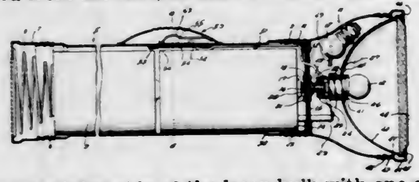
2,312,669
VOLTAGE REGULATOR FOR THE ELECTRICAL SYSTEMS OF AUTOMOTIVE VEHICLES
Paul W. Nippert, Columbus, Ohio
Application November 9, 1940, Serial No. 365,123
1 Claim. (Cl. 200—88)



In a voltage regulator, a fused member forming an elongated internal hermetically sealed chamber, a support wholly contained within said chamber, a fixed contact carried by said support, a flexible arm mounted on said support, a frame positioned in fixed relation with respect to said fused member, said frame being U-shaped and having the spaced ends thereof directed toward said fused member, an electromagnet positioned on said frame between the spaced ends thereof, and a shunt plate formed from a metallic alloy with flux carrying characteristics which are directly proportional to its temperature, said plate being mounted for pivotal adjustment on said electromagnet, adjustment of said plate serving to move the ends thereof toward and away from the ends of said frame to vary the effectiveness of the magnetic field created by energizing said magnet.

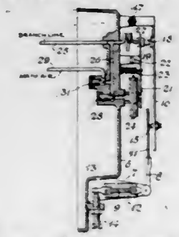
2,312,670
ELECTRIC TORCH OR FLASHLIGHT
Ernest A. Olds, Curve, Tenn., assignor of one-half to Emmett C. Cutlip, Henning, Tenn.
Application February 17, 1941, Serial No. 379,354
3 Claims. (Cl. 240—10.6)

1. In an electric torch comprising a tubular battery case having a lamp bulb, means on the case adapted to connect one side of the lamp with one side of a battery in the case, the wall of said case being formed with an elongated opening, laterally inset flanges at the opposite ends of said opening, an elongated dielectric plate having opposite end portions thereof conformably seated in the ends of the opening upon said inset flanges, the outer side of said dielectric plate being substantially flush with the outer surface of the case, a resistance wire wound on an intermediate part of said dielectric plate toward the opposite ends of said plate to form a rheostat resistance insulated from the case, means to electrically connect



the remaining side of the lamp bulb with one end of said rheostat resistance, and a slider slidably mounted on the exterior of the case and covering said opening, said slider comprising a conductive longitudinally extending internal spring contactor electrically connected to the first mentioned means, said contactor being inwardly tensioned to engage with different portions of the said resistance in different positions of the slider to vary the brightness of the lamp bulb, said contactor being adapted to engage a portion of said dielectric plate in another position of the slider to electrically disconnect the lamp bulb from the battery.

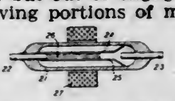
2,312,671
THERMOSTATIC AND LIKE UNIT
Carl A. Otto, Milwaukee, Wis., assignor to Johnson Service Company, Milwaukee, Wis., a corporation of Wisconsin
Application December 19, 1940, Serial No. 370,889
6 Claims. (Cl. 297—12)



1. An inherently compensated thermostat comprising two thermostatic units affected by the same temperature changes; means for differentiating said units as to rapidity of response to such changes; means for cumulatively combining the response of said thermostats; and means associated with the last named means for limiting the effect of the rapidly responding unit to a small proportion of the cumulative effect.

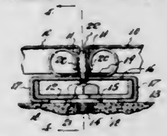
2,312,672
SWITCHING DEVICE
Charles E. Pollard, Jr., Hohokus, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 9, 1941, Serial No. 392,655
7 Claims. (Cl. 200—97)

6. In an electric switch, an envelope, a pair of contact members extending towards each other through the opposite ends of said envelope, a pair of reeds supported at one end on the inner end of one of said members and extending in parallel spaced relationship towards said other member and having their free ends flared away from each other to embrace the inner end of said other member but out of engagement therewith, said reeds having portions of magnetic material



and having their adjacent faces wettable by mercury, a body of mercury held by surface tension between said reeds and normally out of engagement with said other contact member and electromagnetic means for causing said reeds to become attracted toward each other to cause said mercury to protrude between the flared ends of said reeds to interconnect said contact members.

2,312,673
WALL PANEL MOUNTING MEANS
Donato R. Rizzolo, Bloomfield, N. J.
Application May 21, 1941, Serial No. 394,453
11 Claims. (Cl. 189—88)



1. Attachment means for mounting wall facing panels having rearwardly projecting peripheral flanges comprising, a clip means adapted to be mounted on the wall to be faced so as to engage a plurality of adjoining panels, said clip means including a flat lying base portion having oppositely extending tongues each inwardly curled upon itself to form the free end portion thereof into a resilient gripping jaw, said jaws being oppositely arranged and spaced to provide intermediate outwardly open space adapted to receive insertion of the flanges of adjoining panels, and wedge-like means intermediate said jaws adapted to engage between outer sides of said flanges of adjoining panels and so as to thrustingly engage said flanges against said jaws, whereby to tensionally flex said jaws and thus frictionally grip said flanges respectively between said wedge-like means and said jaws as well as to space the adjoining panels from which said flanges spring.

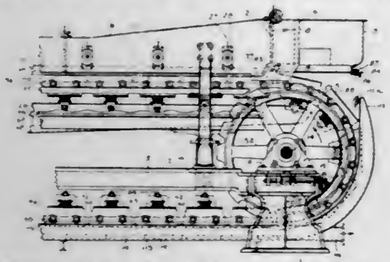
2,312,674
METHOD OF PREPARING BITUMINOUS PAVING MIXTURES
Joseph C. Roediger, Staten Island, N. Y., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application August 10, 1937, Serial No. 158,351
5 Claims. (Cl. 106—269)

3. A process of preparing a bituminous paving mixture which comprises coating a mineral aggregate with an aqueous solution of a polyvalent metal salt and to this coated mineral aggregate adding a bitumen in a fluid state containing a small proportion of a fatty acid which will react with the polyvalent metal salt.

2,312,675
PULP SCREEN AND WASHER
Carl Scheiding, Middletown, Ohio, assignor of one-half to F. C. Zart, Cincinnati, Ohio
Application December 8, 1939, Serial No. 308,275
3 Claims. (Cl. 92—32)

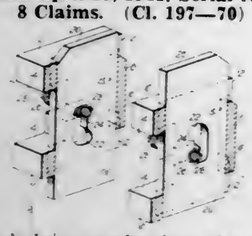
3. An individual screening unit adapted to be

used in a pulp screen and washer of the character described which comprises a boxlike body, a foraminous flat top for said body, a deformable strip on one longer edge of said foraminous top, a flexible bottom, a stiff plate centrally attached to said flexible bottom, a roller leg extending downwardly from said stiff plate, a spring mounting for said roller leg, a discharge spout at the lowest point of said flexible bottom,



a deflector plate adapted to cooperate with said discharge spout to provide a liquid seal, said discharge spout having also in its region where the liquid seal is provided, a small by-pass opening, and attached to the ends of said boxlike body of the screening unit, two stepped shafts protruding from each of the ends of said body, the ends of said shafts being adapted to function as the link studs of a roller chain.

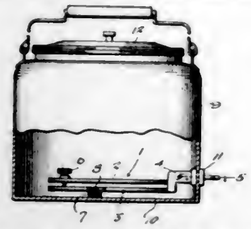
2,312,676
TYPEWRITING AND LIKE MACHINE
Frederick W. Schremp, Elmira, N. Y., assignor to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware
Application April 19, 1941, Serial No. 389,412
8 Claims. (Cl. 197—70)



1. In a tabulator mechanism, the combination of a tabulator bar having transverse slots, a plurality of stops mounted in said slots for movement transversely of the bar, a coiled spring extending longitudinally of said bar, and detent lobes reversely arranged on adjacent stops to engage and stress said spring during said movement of the stops transversely of the bar.

2,312,677
ELECTRIC FLUID HEATING MEANS
Frank D. Shrum, Detroit, Mich., assignor of one-half to Elmer T. Turner, Detroit, Mich.
Application August 28, 1941, Serial No. 408,671
1 Claim. (Cl. 219—40)

A fluid heater of the character described comprising an electric unit for submersion in fluid to be heated, said unit including a pair of vertically spaced, opposed upper and lower disk electrodes, angular arms integral with the peripheries of said electrodes, an electric receptacle molded on said arms and constituting a coupling for the electrodes, a thumb screw threadedly mounted in the upper electrode and engaged with the lower electrode for spacing said electrodes from each other, said thumb screw being of insulating material, and an element of insulating material mounted



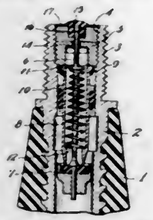
beneath the lower electrode for supporting the unit in a vessel in spaced relation to the bottom thereof.

2,312,678
DANDY ROLL CONSTRUCTION
John A. Spencer, South Hadley Falls, Mass., assignor to H. M. Spencer, Inc., South Hadley Falls, Mass., a corporation of Massachusetts
Application May 5, 1941, Serial No. 391,929
8 Claims. (Cl. 92—48)



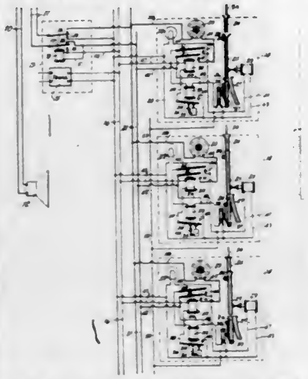
1. A dandy roll comprising in combination, a support including spaced headers and a plurality of circumferentially spaced longitudinally extending members therebetween, and a cover including a plurality of longitudinally spaced rings on the longitudinally extending members of the support having circumferentially spaced openings adjacent their peripheries and a plurality of wire elements extending longitudinally of the support through said openings having opposite ends secured to said headers.

2,312,679
VALVE STEM
Leonard S. Speth, Cleveland, Ohio, assignor, by mesne assignments, to The Dill Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application October 23, 1941, Serial No. 416,225
6 Claims. (Cl. 251—119)



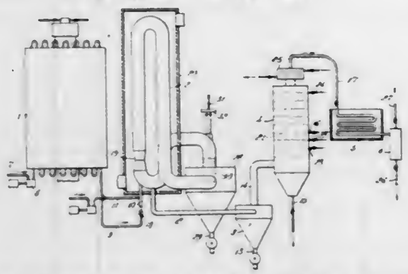
1. An article of manufacture adapted to be used on the headed outer end of the movable valve pin of a valve mechanism of the type used in the tubular valve stems for inflatable containers, said article comprising a relatively thick body portion having provision for securing it to the headed outer end of a valve pin, and a flexible relatively thin skirt portion extending radially from said body portion, said article having a total diameter substantially equal to the internal diameter of the outer end of the valve stem with which it is used.

2,312,680
WIRED MUSIC SYSTEM
Lawrence Stone, Jr., Denver, Colo.
Application January 13, 1941, Serial No. 374,165
9 Claims. (Cl. 179—6.3)



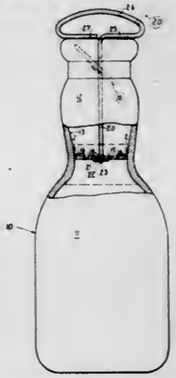
1. In any wired music system of the type in which electrical, musical impulses are conveyed from a central station to a customer's location by wire, means for conveying information to the central station from a plurality of boxes at the customer's location comprising: a single talking circuit from the customer's location to the central station; a plurality of station boxes at the customer's location; a coin operated contact at each of the boxes; a microphone at each of the boxes; means operable from the coin operated contact of each box for placing the microphone of that box in circuit with the talking circuit; and means operable from the coin contact of a box for diverting coins which are inserted in any of the other boxes while the microphone of the former box is in circuit with the talking circuit.

2,312,681
ART OF CRACKING HYDROCARBONS
John W. Teter, Chicago, Ill., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine
Application February 19, 1941, Serial No. 379,595
1 Claim. (Cl. 196—52)



In the production of gasoline, the improvement which comprises maintaining a charge of hydrocarbons substantially in vapor phase in a cycle of movement in a closed stream, introducing hydrocarbons to be processed and a conversion catalyst into said stream, maintaining the catalyst in suspension in the circulating stream of hydrocarbons by the velocity of movement in the cycle, maintaining said circulating stream of hydrocarbons and suspended catalyst at a temperature of the order of 950°–1050° F. under a pressure not exceeding about 100 pounds per square inch for a minimum period of about 15–25 seconds, selectively separating a part of the suspended catalyst from said stream of hydrocarbons and suspended catalyst at one point in the cycle, removing the thus separated catalyst from the cycle, separately discharging a part of said stream of hydrocarbons and suspended catalyst from the cycle, and separating spent catalyst and a gasoline fraction from that discharged part.

2,312,682
CREAM SEPARATOR
William C. Teunisz, Grand Rapids, Mich.
Application December 1, 1939, Serial No. 307,138
4 Claims. (Cl. 210—51.5)

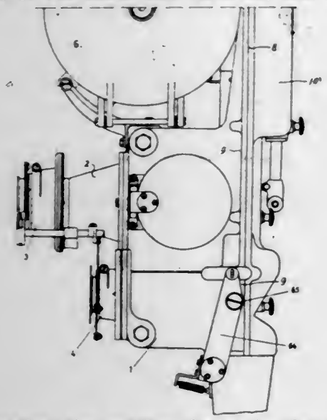


4. In combination with a bottle having a lateral surface and also having an interiorly tapered portion of appreciable length whereby a plurality of seats of gradually increasing diameter are formed, the diameters increasing in an upward direction, of a disc having a central portion and a flexible and compressible edge thereabout, said edge adapted to be forced against an intermediate one of the several seats to a sealing position, a stem attached to the disc, and rigid means attached to the stem and extending laterally therefrom, said means contacting the said lateral surface for the purpose described, and said means having a relatively wide lateral dimension whereby it cannot pass down into the top of the bottle and become effective when the disc is at the said intermediate seat whereby excessive bowing or wedging of the disc is prevented.

2,312,683
PHOTOGRAPHIC APPARATUS
Ernesto Zollinger, Turin, Italy, assignor to Walther Zollinger, Zurich, Switzerland
Application March 29, 1940, Serial No. 326,731
7 Claims. (Cl. 95—36)

1. Photographic apparatus comprising a large size camera, two small size cameras arranged side by side and in succession to the large size camera, a reciprocally sliding device for intermittently feeding a light-sensitive strip through said cameras, a lever for operating the shutter of the large size camera, a second lever for operating the shutters of the small size cameras, a cutting member for cutting off the exposed portion of said light-sensitive strip, a control shaft carrying a cam for imparting to said feed device a strip feed movement twice on each rotation of said shaft, a disc axially displaceable but not rotatable for actuating, in one position, the lever actuating the shutter of the large size camera

and, in its other position, the lever actuating the shutters of the small size cameras, and an arm



for actuating the cutting device in the desired succession.

2,312,684

TERPENE DERIVATIVE

Joseph N. Borglin, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application April 9, 1941, Serial No. 387,674
19 Claims. (Cl. 260—489)

1. A method which comprises subjecting a mixture comprising an unsaturated terpene and an organic carboxylic acid to reaction with a gas containing free oxygen as the only reactive ingredient until a hydroxylated terpene ester is produced.

2,312,685

TERPENE DERIVATIVE

Joseph N. Borglin, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application April 9, 1941, Serial No. 387,677
12 Claims. (Cl. 260—489)

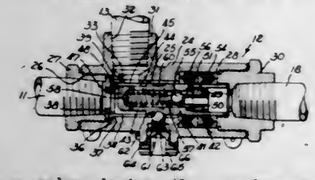
1. A method which comprises subjecting a mixture comprising terpinolene and an organic carboxylic acid to reaction with a gas containing free oxygen as the only reactive ingredient until a hydroxylated terpene ester is produced.

2,312,686

EMERGENCY CUT-OVER VALVE

Rodney B. Campbell, North Hollywood, Calif., assignor to John Eley, Jr., Los Angeles, Calif.

Application September 24, 1941, Serial No. 412,117
2 Claims. (Cl. 277—21)



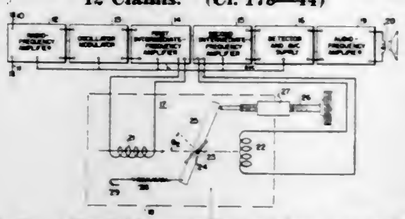
1. In a valve device, the combination of: a housing having a longitudinal bore therein and having an outlet at one side thereof communicating with said bore; a sleeve in said bore and having a port registering with said outlet; an annular valve seat member abutting against one end of said sleeve; a first closure member closing one end of said bore and abutting against said valve seat member, said closure member having a main inlet adapted to be connected to a main source of fluid under pressure; an annular packing member in said bore and abutting against the other end of said sleeve, the internal diameter of said packing member being substantially the same as the internal diameter of said sleeve; a second closure member closing the other end of said bore and abutting against said packing member, said second closure member having an auxiliary inlet adapted to be connected to an auxiliary source of fluid under pressure; and a piston member axially movable in said bore and having a valve head adapted to seat on said annular valve seat to close fluid communication therethrough, said piston member also having a spring-held check valve adapted to permit a flow of fluid from said auxiliary inlet to said outlet but preventing a reverse flow.

2,312,687

ADJUSTABLE COUPLING SYSTEM

Leslie F. Curtis, Great Neck, N. Y., assignor to Hazeltine Corporation, a corporation of Delaware

Application August 23, 1941, Serial No. 408,032
12 Claims. (Cl. 178—44)



1. An adjustable coupling system comprising, a first inductor, an input circuit connected to said first inductor, a second inductor so disposed in the magnetic field of said first inductor that said second inductor is substantially inductively uncoupled with said first inductor, an output circuit connected to said second inductor, a movable conductive inductive-coupling means substantially nonselective over the frequency range of said system so disposed with reference to said inductors that in a given position in its path of motion it is substantially uncoupled with at least one of said inductors and in another position in its path of motion it is substantially coupled with both of said inductors, and means for moving said coupling means in said path to adjust the coupling between said inductors.

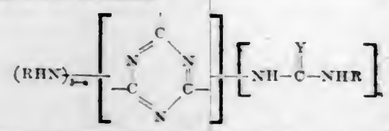
2,312,688

REACTION PRODUCT OF ALDEHYDES AND TRIAZINE DERIVATIVES

Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

No Drawing. Application July 30, 1941, Serial No. 404,661
18 Claims. (Cl. 260—72)

1. A composition of matter comprising the reaction product of ingredients comprising an aldehyde and a triazine derivative corresponding to the general formula



where n is an integer and is at least 1 and not more than 3, R is a member of the class consisting of hydrogen and monovalent hydrocarbon and halo-hydrocarbon radicals, and Y is a member of the class consisting of oxygen and sulfur.

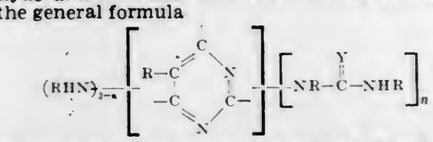
2,312,689

REACTION PRODUCT OF ALDEHYDES AND DIAZINE DERIVATIVES

Gaetano F. D'Alelio and James W. Underwood, Pittsfield, Mass., assignors to General Electric Company, a corporation of New York

No Drawing. Application July 30, 1941, Serial No. 404,662
19 Claims. (Cl. 260—72)

1. A composition of matter comprising the reaction product of ingredients comprising an aldehyde and a diazine derivative corresponding to the general formula



where n is an integer and is at least 1 and not more than 3, R is a member of the class consisting of hydrogen and monovalent hydrocarbon and halo-hydrocarbon radicals, and Y is a member of the class consisting of oxygen and sulfur.

2. A composition as in claim 1 wherein the

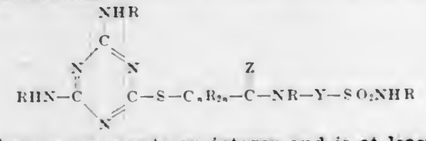
2,312,690

REACTION PRODUCT OF ALDEHYDES AND TRIAZINE DERIVATIVES

Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

No Drawing. Application November 1, 1941, Serial No. 417,502
20 Claims. (Cl. 260—72)

1. A composition of matter comprising the reaction product of ingredients comprising an aldehyde and a compound corresponding to the general formula



where n represents an integer and is at least 1 and not more than 2, Z represents a member of the class consisting of oxygen and sulfur, Y represents a divalent carbocyclic radical, and R represents a member of the class consisting of hydrogen and monovalent hydrocarbon and halo-hydrocarbon radicals.

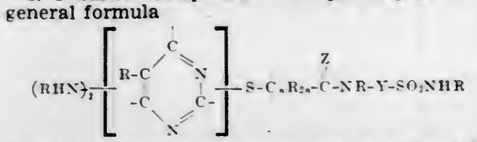
2,312,691

DIAZINE DERIVATIVES

Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

No Drawing. Application November 1, 1941, Serial No. 417,503
14 Claims. (Cl. 260—251)

1. Chemical compounds corresponding to the general formula



where n represents an integer and is at least 1 and not more than 2, Z represents a member of the class consisting of oxygen and sulfur, Y represents a divalent carbocyclic radical, and R represents a member of the class consisting of hydrogen and monovalent hydrocarbon and halo-hydrocarbon radicals.

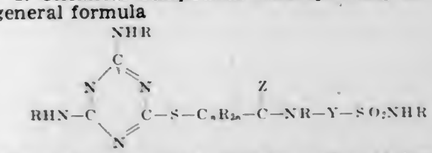
2,312,692

TRIAZINE DERIVATIVES

Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

No Drawing. Application November 1, 1941, Serial No. 417,504
14 Claims. (Cl. 260—248)

1. Chemical compounds corresponding to the general formula



where n represents an integer and is at least 1 and not more than 2, Z represents a member of the class consisting of oxygen and sulfur, Y represents a divalent carbocyclic radical, and R represents a member of the class consisting of hydrogen and monovalent hydrocarbon and halo-hydrocarbon radicals.

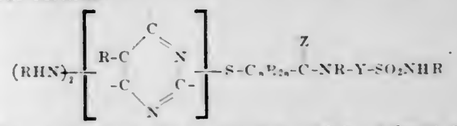
2,312,693

REACTION PRODUCT OF ALDEHYDES AND DIAZINE DERIVATIVES

Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

No Drawing. Application November 1, 1941, Serial No. 417,505
21 Claims. (Cl. 260—72)

1. A composition of matter comprising the reaction product of ingredients comprising an aldehyde and a compound corresponding to the general formula



where n represents an integer and is at least 1 and not more than 2, Z represents a member of the class consisting of oxygen and sulfur, Y represents a divalent carbocyclic radical, and R represents a member of the class consisting of hydrogen and monovalent hydrocarbon and halo-hydrocarbon radicals.

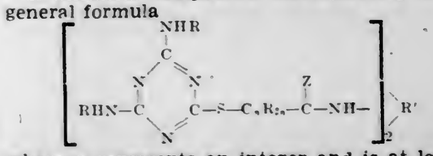
2,312,694

TRIAZINE DERIVATIVES

Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

No Drawing. Application November 7, 1941, Serial No. 418,220
14 Claims. (Cl. 260—248)

1. Chemical compounds corresponding to the general formula



where n represents an integer and is at least 1 and not more than 2, Z represents a member of the class consisting of oxygen and sulfur, R represents a member of the class consisting of hydrogen and monovalent hydrocarbon and halo-

hydrocarbon radicals, and R' represents a member of the class consisting of divalent hydrocarbon and halo-hydrocarbon radicals.

2,312,695

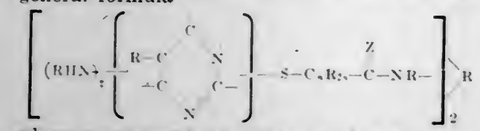
DIAZINE DERIVATIVES

Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

No Drawing. Application November 14, 1941, Serial No. 419,177

15 Claims. (Cl. 260—251)

1. Chemical compounds corresponding to the general formula



where n represents an integer and is at least 1 and not more than 2, Z represents a member of the class consisting of oxygen and sulfur, R represents a member of the class consisting of hydrogen and monovalent hydrocarbon and halo-hydrocarbon radicals, and R' represents a member of the class consisting of divalent hydrocarbon and halo-hydrocarbon radicals.

2,312,696

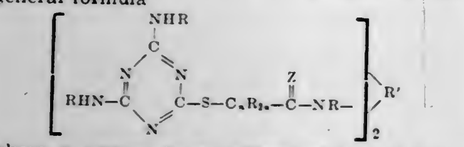
REACTION PRODUCT OF ALDEHYDES AND TRIAZINE DERIVATIVES

Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

No Drawing. Application November 19, 1941, Serial No. 419,724

20 Claims. (Cl. 260—42)

1. A composition of matter comprising the reaction product of ingredients comprising an aldehyde and a compound corresponding to the general formula



where n represents an integer and is at least 1 and not more than 2, Z represents a member of the class consisting of oxygen and sulfur, R represents a member of the class consisting of hydrogen and monovalent hydrocarbon and halohydrocarbon radicals, and R' represents a member of the class consisting of divalent hydrocarbon and halo-hydrocarbon radicals.

2,312,697

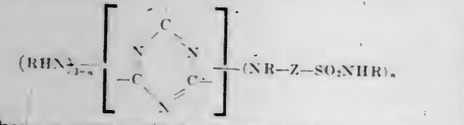
REACTION PRODUCT OF ALDEHYDES AND SULPHAMYLARYLAMINO TRIAZINES

Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

No Drawing. Application November 28, 1941, Serial No. 420,860

20 Claims. (Cl. 260—42)

1. A composition of matter comprising the reaction product of ingredients comprising an aldehyde and a compound corresponding to the general formula



where n represents an integer and is at least 1 and not more than 3, Z represents an aryl nucleus, and R represents a member of the class consisting of hydrogen and monovalent hydrocarbon and halo-hydrocarbon radicals.

2,312,698

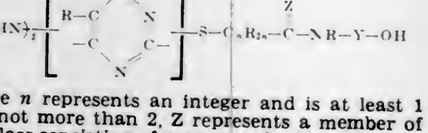
SULPHAMYLARYLAMINO TRIAZINES

Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

No Drawing. Application November 28, 1941, Serial No. 420,861

15 Claims. (Cl. 260—248)

1. Chemical compounds corresponding to the general formula



where n represents an integer and is at least 1 and not more than 3, Z represents an aryl nucleus, and R represents a member of the class consisting of hydrogen and monovalent hydrocarbon and halo-hydrocarbon radicals.

2,312,699

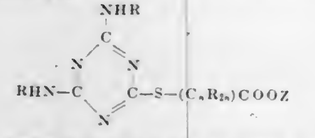
TRIAZINYL CARBOXY-ALKYL SULPHIDES AND SALTS THEREOF

Gaetano F. D'Alelio and James W. Underwood, Pittsfield, Mass., assignors to General Electric Company, a corporation of New York

No Drawing. Application December 4, 1941, Serial No. 421,682

15 Claims. (Cl. 260—248)

1. Chemical compounds corresponding to the general formula



where n is an integer and is at least 1 and not more than 2, R represents a member of the class consisting of hydrogen and monovalent hydrocarbon and halo-hydrocarbon radicals, and Z represents a member of the class consisting of hydrogen, the ammonium radical and alkali metals.

2,312,700

DIAZINE DERIVATIVES

Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

No Drawing. Application December 12, 1941, Serial No. 422,721

16 Claims. (Cl. 260—251)

1. Chemical compounds corresponding to the general formula

where n represents an integer and is at least 1 and not more than 2, Z represents a member of the class consisting of oxygen and sulfur, Y represents a divalent carbocyclic radical, and R represents a member of the class consisting of hydrogen and monovalent hydrocarbon and halo-hydrocarbon radicals.

2,312,701

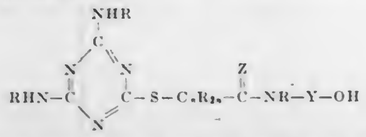
TRIAZINE DERIVATIVES

Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

No Drawing. Application December 19, 1941, Serial No. 423,691

15 Claims. (Cl. 260—248)

1. Chemical compounds corresponding to the general formula



where n represents an integer and is at least 1 and not more than 2, Z represents a member of the class consisting of oxygen and sulfur, Y represents a divalent carbocyclic radical, and R represents a member of the class consisting of hydrogen and monovalent hydrocarbon and halo-hydrocarbon radicals.

2,312,702

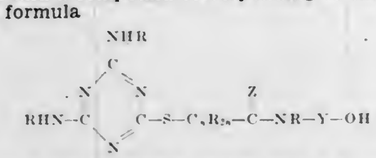
REACTION PRODUCT OF ALDEHYDES AND TRIAZINE DERIVATIVES

Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

No Drawing. Application December 24, 1941, Serial No. 424,330

20 Claims. (Cl. 260—42)

1. A composition of matter comprising the reaction product of ingredients comprising an aldehyde and a compound corresponding to the general formula



where n represents an integer and is at least 1 and not more than 2, Z represents a member of the class consisting of oxygen and sulfur, Y represents a divalent carbocyclic radical, and R represents a member of the class consisting of hydrogen and monovalent hydrocarbon and halo-hydrocarbon radicals.

2,312,703

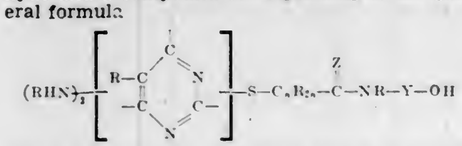
REACTION PRODUCT OF ALDEHYDES AND DIAZINE DERIVATIVES

Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

No Drawing. Application December 31, 1941, Serial No. 425,161

20 Claims. (Cl. 260—42)

1. A composition of matter comprising the reaction product of ingredients comprising an aldehyde and a compound corresponding to the general formula



where n represents an integer and is at least 1 and not more than 2, Z represents a member of the class consisting of oxygen and sulfur, Y represents a divalent carbocyclic radical, and R represents a member of the class consisting of hydrogen and monovalent hydrocarbon and halo-hydrocarbon radicals.

2,312,704

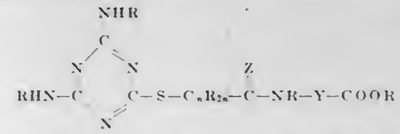
REACTION PRODUCT OF ALDEHYDES AND TRIAZINE DERIVATIVES

Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

No Drawing. Application January 28, 1942, Serial No. 428,585

20 Claims. (Cl. 260—42)

1. A composition of matter comprising the reaction product of ingredients comprising an aldehyde and a compound corresponding to the general formula



wherein n represents an integer and is at least 1 and not more than 2, Z represents a member of the class consisting of oxygen and sulfur, Y represents a divalent carbocyclic radical, and R represents a member of the class consisting of hydrogen and monovalent hydrocarbon and halo-hydrocarbon radicals.

2,312,705

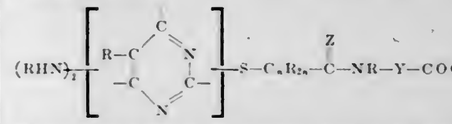
REACTION PRODUCT OF ALDEHYDES AND DIAZINE DERIVATIVES

Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

No Drawing. Application January 30, 1942, Serial No. 428,906

20 Claims. (Cl. 260—42)

1. A composition of matter comprising the reaction product of ingredients comprising an aldehyde and a compound corresponding to the general formula



where n represents an integer and is at least 1 and not more than 2, Z represents a member of the class consisting of oxygen and sulfur, Y represents a divalent carbocylic radical, and R represents a member of the class consisting of hydrogen and monovalent hydrocarbon and halo-hydrocarbon radicals.

2,312,706

METHOD AND APPARATUS FOR SEPARATING HEAVY PARTICLES FROM PAPER PULP SUSPENSIONS

Horace Freeman, Three Rivers, Quebec, Canada, assignor to Nichols Engineering & Research Corporation, New York, N. Y., a corporation of Delaware

Application November 19, 1938, Serial No. 241,360

2 Claims. (Cl. 92—28)

1. The method of separating from paper pulp

suspension, undesired particles which are heavier or more compact than the desired suspended matter, which comprises establishing a downwardly and helically flowing annular body of the suspension, providing an annular obstruction in the path of such flow for directing the same as a more restricted flow through the center of such obstruction, then causing such helical flow to expand and continue downwardly beneath the obstruction, then returning the suspension upwardly as a helically flowing core of the suspension confined within and by said downwardly flowing annular body of the suspension, whereby said particles are thrown by centrifugal force to, and carried down in the peripheral zones in the down-



wardly flowing suspension, withdrawing the desired suspension from the upper portion of such core, maintaining a sufficient difference in pressure in the suspension as introduced into and withdrawn from said helical flows whereby at least some positive pressure is applied to the suspension in the region beneath said flows, and causing said particles to be further drawn by a downwardly and slowly moving stream including a small portion of the suspension from said region, said stream being conducted through a constricted path to a settling chamber, and maintaining said stream by withdrawing a small portion of the suspension from a point above the settlings in such settling chamber, independently of said upwardly returned suspension.

2,312,707
CARBON
Walter M. Fuchs, State College, Pa., assignor to The Pennsylvania Research Corporation, State College, Pa., a corporation of Pennsylvania
No Drawing. Application January 17, 1941, Serial No. 374,896
3 Claims. (Cl. 23—209.1)

1. That method of making a carbon product which comprises treating coal in a mildly oxidized form, in which the non-fusain organic matter of the coal contains hydroxy-carboxylic acids, with an organic solvent containing heterocyclic oxygen and thereby dissolving substantially completely said non-fusain organic matter, separating the resultant solution from undissolved fusain and mineral matter, recovering said non-fusain organic matter from said solution and heating it to between about 400° and 900° C. and thereby converting it to said carbon product.

2,312,708
DRESSED AND SOFTENED REGENERATED CELLULOSE PRODUCTS
Walter Gellendien, Berlin-Charlottenburg, and Johann Eggert, Berlin, Germany, assignors, by mesne assignments, to "Patchem" A.-G. Zur Beteiligung an Patenten und Sonstigen Erfindungsrechten auf Chemische Verfahren, Zurich, Switzerland, a corporation of Switzerland
No Drawing. Application March 7, 1939, Serial No. 260,430. In Germany January 31, 1934
5 Claims. (Cl. 117—144)

3. A regenerated cellulose composition containing as a dressing and softening agent an aqueous impregnation liquid containing 2% of glycerol monomethyl ether and 1% of glycerol monooctyl ether.

2,312,709
GRAVE LINING PROTECTION UNIT
Randolph E. Gleason, Paul H. Coffey, and George Reuter, Roanoke, Va.
Application November 13, 1941, Serial No. 418,966
9 Claims. (Cl. 72—7)



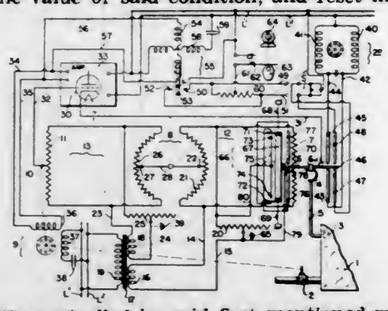
8. A table-like device for preventing sunken graves, comprising a plurality of laterally spaced masonry legs adapted to rest upon the floor of a grave, and a solid masonry top carried by said legs on the upper ends thereof.

2,312,710
MECHANICAL FABRIC
Carlton C. Gordon, Elsmere, N. Y., assignor to Albany Felt Company, Albany, N. Y., a corporation of New York
No Drawing. Application March 18, 1940, Serial No. 324,663
4 Claims. (Cl. 117—101)

1. The method of prolonging the life and increasing the porosity to the passage of water and water vapor of a mechanical fabric which in normal use is subjected to comparatively high temperatures in the presence of moisture which comprises treating the fabric by immersion in a liquid which, when dry, will form a water-insoluble and water-repellent coating on the fibers of said fabric, subjecting said fabric to a centrifuging action while saturated with said liquid to remove the excess thereof from the interstices of said fabric about and between said fibers, and thereafter drying said fabric.

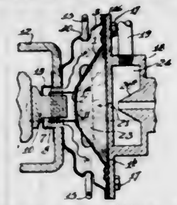
2,312,711
CONTROL APPARATUS
Thomas R. Harrison, Wyncote, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania
Application March 24, 1939, Serial No. 263,938
40 Claims. (Cl. 236—78)

18. In a control system, a normally balanced electrical network, means to unbalance said network in response to a condition change, control means responsive to unbalance of said network to control said condition in the direction to counteract said change and including follow-up means to rebalance said network on unbalance thereof, means responsive to changes in the value of said condition to effect a further corrective action on said condition in the same direction immediately upon change in the trend of the value of said condition, and reset means



jointly controlled by said first mentioned means and by said control means to slowly effect a further corrective action on said condition in the same direction.

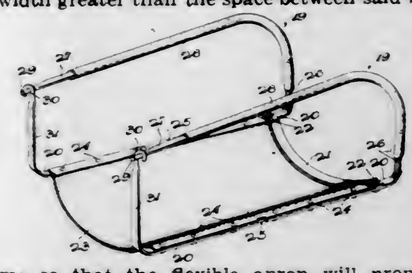
2,312,712
FLUID PUMP
Ralph E. Hartline, Swissvale, Pa., assignor to Mine Safety Appliances Company, Pittsburgh, Pa.
Application April 16, 1941, Serial No. 388,766
3 Claims. (Cl. 230—55)



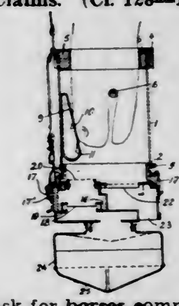
1. A fluid pump comprising a relatively thin plate member having an orifice, an electrically operated conically shaped vibratory diaphragm supported on one side of the member to enclose the orifice, an electrical translating means operatively connected to the diaphragm to transmit vibrating movement to the diaphragm and effect an alternating flow through the orifice, and a collector tube disposed on the opposite side of the member and having an inlet opening in aligned and closely spaced relation to the orifice to receive fluid discharged therefrom.

2,312,713
WASTE RETAINER FOR JOURNAL BOXES
John S. Head, Florence, S. C., assignor of one-fourth to Melvin Purvis, and one-fourth to Joseph B. Reeves, both of Florence, S. C.
Application September 15, 1941, Serial No. 410,936
8 Claims. (Cl. 308—89)

1. A waste retainer for journal boxes comprising, separate spaced loops to be arranged within the journal box near the opposite sides of the journal and to extend longitudinally of the journal, each loop comprising a bottom, top and ends, the waste introduced into the journal box passing into the loops, the tops of the loops being adapted for holding the waste against vertical displacement and the ends of the loops being adapted for holding the waste against horizontal displacement, and means connecting the separate loops including a substantially rigid bridge rod rigidly attached to said bottoms to retain the separate loops properly spaced, and a flexible apron secured to said bottoms and having a width greater than the space between said bottoms so that the flexible apron will properly frictionally engage with the bottom of the journal box.



2,312,714
GAS MASK FOR HORSES
Oscar Herbin, Le Fidelaire, Eure, France; vested in the Alien Property Custodian
Application May 29, 1940, Serial No. 337,934
In France May 5, 1938
5 Claims. (Cl. 128—141)



1. A gas mask for horses comprising a flexible cylindrical member, a band at the upper end of the member for securing the upper end of the member in air-tight relation to the animal's head, a metallic collar clamped to the lower end of the member, a valve box removably connected to the collar, an inlet valve in said box, a filter section over-lying the valve, and an outlet valve carried by the valve box to provide for the exhaling of the animal and the discharge of exhaled matter, the outlet valve being of rubber to ensure its automatic closing after yielding under the exhalation force, and a flexible filtering box removably clamped to the valve box.

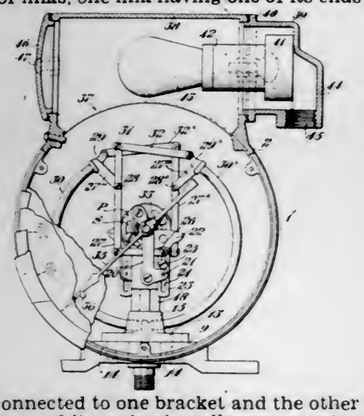
2,312,715
EMULSION FOR BURN TREATMENT
Robert L. Holmes, Roselle, and Hugh C. De Hoff, Roselle Park, N. J., assignors to Stanco, Incorporated
No Drawing. Application October 4, 1939, Serial No. 297,810
11 Claims. (Cl. 167—58)

1. A burn remedy comprising in combination an emulsion of polyisobutylene and a solution of a tanning agent.

2,312,716
PRESSURE GAUGE
Frank H. Hopkins, Fairfield, Conn., assignor to Manning, Maxwell & Moore, Incorporated, New York, N. Y., a corporation of New Jersey
Application July 13, 1940, Serial No. 345,321
2 Claims. (Cl. 73—109)

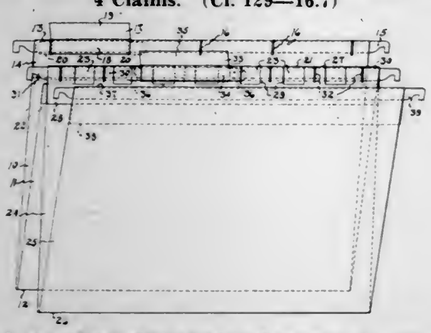
1. An instrument of the class described wherein

a pair of spaced, coaxial, graduated, oppositely facing dials are housed within a casing which is open at its opposite sides and which also houses a pair of movable indexes each cooperable with one of said dials, a pair of gauge movements, one for moving each index, and a pair of Bourdon tubes, each tube having a rigid bracket fixed to its tip, characterized in having a pair of levers, one lever being pivotally supported by each bracket, a pair of links, one link having one of its ends piv-



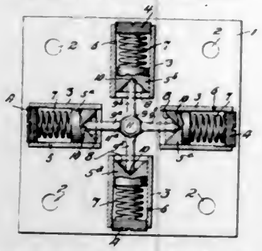
otally connected to one bracket and the other link having one of its ends pivotally connected to the other bracket, each of said links, respectively, having its opposite end pivotally connected to that lever which is supported by the other bracket, and a second pair of links, one of said latter links connecting each of the levers, respectively, to one of the movement mechanisms, respectively, whereby both Bourdon tubes cooperate in actuating each movement mechanism.

2,312,717
MULTIPLE SUSPENSION FILE
Frank D. Jonas, East Williston, N. Y., assignor to Oxford Filing Supply Co., Brooklyn, N. Y., a partnership comprising Richard A. Jonas, Richard A. Jonas, Jr., Robert P. Jonas, Frank D. Jonas, and Edward F. Jonas
Application October 8, 1941, Serial No. 414,063
4 Claims. (Cl. 129—16.7)



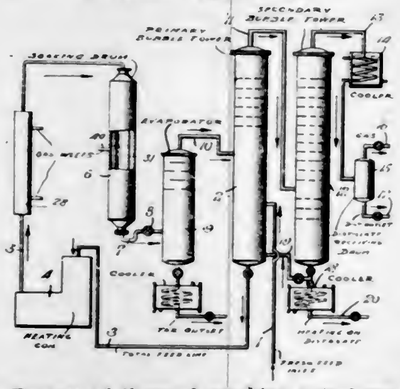
3. A multiple filing folder of the type described, comprising a plurality of file folders each including a front wall and a rear wall, the upper edges of each of said walls being folded into double plies to form passages, the double plies of adjacent walls being complementarily notched to form spaced projections aligned with the projections of an adjacent wall, and suspension bars mounted in the passages thus formed to lock the folders together in series.

2,312,718
SHOCK ABSORBER
Haroutium K. Kouyoumjian, Wakefield, R. I.
Application April 23, 1941, Serial No. 389,843
6 Claims. (Cl. 267—1)



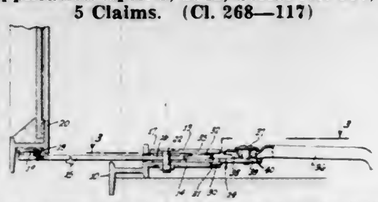
1. A shock absorber adapted for connection between relatively movable parts comprising more than two sets of relatively movable elements, one of the elements of each set being yieldably mounted on one of said parts and one of the elements of each set being secured to the other of said parts and acted upon by the other elements of each set respectively for normally holding them in a central position, certain of the elements of each set having cavities formed therein with the wall of each of said cavities diverging from its center forming a continuous curved surface in a circumferential direction about the central axis of the cavity for permitting relative displacement of elements of each set from the central position along the walls of said cavities under shocks, and certain of said sets being angularly positioned with reference to other of said sets.

2,312,719
CRACKING PROCESS
Paul E. Kuhl, Madison, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application November 1, 1938, Serial No. 238,138
2 Claims. (Cl. 196—65)



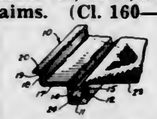
1. Process of thermal cracking petroleum hydrocarbons, comprising raising said hydrocarbons to cracking conditions by passing the same through non-porous metallic tubes in a furnace, removing the petroleum hydrocarbons from said furnace and passing the same longitudinally through a porous lining situated within a non-porous metallic tube, maintaining an oxygen-containing gas between said non-porous metallic tube and the porous lining under sufficient pressure to force said gas through the porous lining into the petroleum hydrocarbons thereby raising the temperature of the same, withdrawing the hydrocarbons and passing the same through a porous lining situated within a non-porous metallic drum in which an inert gas is maintained within the area between the non-porous metallic drum and the porous lining of said non-porous metallic drum under sufficient pressure to force said inert gas through the porous lining, thereby maintaining an inert gas wall between said petroleum hydrocarbons and said porous lining.

2,312,720
CASEMENT WINDOW OPERATOR
Albert Lang, Berkeley, Calif.
Application April 5, 1941, Serial No. 387,020
5 Claims. (Cl. 268—117)



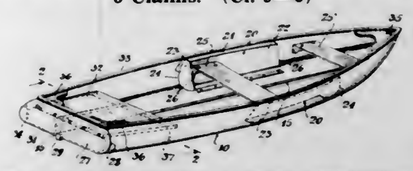
1. A casement window operator including a body having flat plate-like spaced top and bottom members arranged in parallelism in a horizontal plane, a window operating arm having a flat portion lying between said top and bottom members and pivotally connected thereto for swinging movement in a horizontal plane, said flat portion of the arm being cut out at one side to form a radial opening therein, a latch member disposed between the top and bottom members and fitting said opening, the configuration of said opening and latch member being such as to form an interlocking member therebetween to prevent radial and lateral movement of the latch member with respect to said arm, the spacing between the top and bottom members being such as to permit vertical tilting movement of said latch member but in an amount insufficient to cause disengagement thereof with said arm, a cooperating latching means on said latch member and said bottom member normally effective to prevent relative lateral movement therebetween but disengageable upon upward tilting movement of the latch member.

2,312,721
WINDOW SCREEN FRAME
Albert Lang, Berkeley, Calif., assignor to Roll-Away Window Screen Company, Berkeley, Calif., a corporation of California
Application October 22, 1941, Serial No. 416,078
2 Claims. (Cl. 160—381)



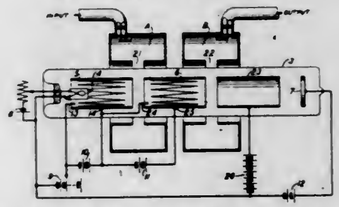
2. As an article of manufacture, a strip material for forming a one-piece frame for screen fabric, said material being folded longitudinally to form a channel base and channel side legs, a lateral web integral with and extending laterally outward from the end of one channel side leg in a plane parallel to the channel base, said web bent at its outer edge right angularly to extend oppositely with respect to the channel leg and then laterally outward in a plane parallel to said web forming a comparatively small angle section at the outer edge of said web.

2,312,722
METAL BOAT
Basil Lermont, New York, N. Y., assignor to Cairns Corporation, New York, N. Y., a corporation of Delaware
Application June 21, 1940, Serial No. 341,670
3 Claims. (Cl. 9—6)



2. A boat comprising a single sheet of metal forming the sides and bottom of at least the center portion of a boat hull having transversely and longitudinally curved sides, said hull having two spaced apart seams in each of its opposite sides, and a trough-like member at each side of said hull having a top and a side wall and generally sector-shaped end walls each having a free edge, the edges of said end walls being secured to said hull substantially in alignment with said seams and all of said edges being secured to said sides of said hull to form water-tight flotation compartments which reinforce said hull.

2,312,723
ELECTRON DISCHARGE DEVICE
Frederick B. Llewellyn, Verona, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 16, 1939, Serial No. 290,387
14 Claims. (Cl. 250—36)

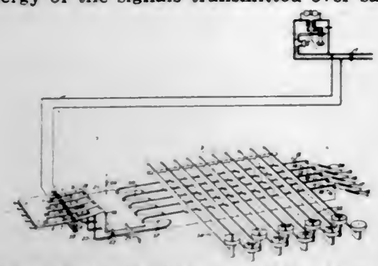


14. In an electron discharge device, an accelerating electrode surrounding the electron emitter and at least a portion of the discharge path in directions perpendicular to the said path utilizing two concentric elements of conducting material, one fitting inside of the other and insulated from each other so that a difference of potential may be maintained between them, the internal element being so formed that the amount by which it covers or shields from within the interior surface of the outer element varies from one end of the electrode to the other.

2,312,724
SIGNALING SYSTEM
Alexis A. Lundstrom, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 12, 1940, Serial No. 340,042
8 Claims. (Cl. 179—90)

1. In a signal transmission system, a line, a plurality of reeds having different periods of vibration, means for applying equal forces to all of said reeds to set them in vibration to produce in said line signals having differing energy levels and frequencies equal to the frequencies of the corresponding reeds, a receiving mechanism operable in response to signals of uniform

energy levels, and means for equalizing the energy of the signals transmitted over said line



and for delivering them to said receiving mechanism.

2,312,725

GREASE AND MANUFACTURE THEREOF

Arnold J. Morway, Clark Township, Union County, and John C. Zimmer, Union, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application June 10, 1940, Serial No. 339,616

14 Claims. (Cl. 252—39)

1. A lime soap grease comprising a major proportion of mineral oil base stock and a minor proportion of lime soap made from proportions of a fatty acid having more than 10 carbon atoms and lime corresponding approximately to 8.00% of oleic acid and 1.04% of hydrated lime, and made at a saponification temperature of 150° to 200° F. and drawn at a temperature below 175° F., at least 15° F. below the saponification temperature, said grease having an A. S. T. M. worked penetration of at least 30 units lower than unworked.

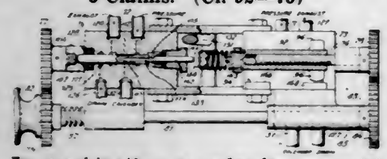
2,312,726

HYDRAULIC CALENDER

George C. Munro, Hamilton, Ohio, assignor to The Champion Paper and Fibre Company, Hamilton, Ohio, a corporation of Ohio

Application March 1, 1939, Serial No. 259,156

3 Claims. (Cl. 92—75)



1. In combination, a calender comprising a plurality of rolls, a source of fluid under pressure not less than a predetermined minimum, means for pressing one roll in said calender against another roll therein comprising a pressure cylinder at each end of said roll for receiving fluid under pressure and applying mechanical pressure to the corresponding end of said roll and a conduit for each of said cylinders for connecting said cylinder to said source of fluid under pressure, means for maintaining the pressure between said rolls at a predetermined value comprising a valve in each of said conduits, each of said valves having associated therewith means for exerting a mechanical force, and including balancing means for comparing the fluid pressure in the connected cylinder with said mechanical force, said balancing means responding to conditions of unbalance by movement which admits fluid to said cylinder when the pressure in the cylinder is less than that corresponding to said force and releases fluid from said cylinder when said pressure exceeds that corresponding to said force, means for adjusting the pressure between the rolls in said calender comprising means for simultaneously adjusting by substantially equal amounts the mechanical forces with which the fluid pressures in the cylinders are compared, and means for quickly removing pressure from the calender roll while maintaining the pressure adjustment undisturbed comprising a movable part for simultaneously mechanically moving both of said balancing means in opposition to the forces exerted by said mechanical force exerting means to release fluid from said pressure cylinders.

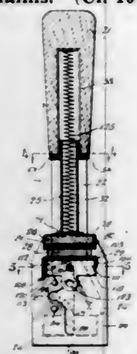
2,312,727

STAMPING DEVICE

Jules Nisenson, New York, N. Y., assignor to Kent Hardware Mfg. Corp., New York, N. Y., a corporation of New York

Application December 6, 1940, Serial No. 368,947

6 Claims. (Cl. 101—327)



1. A stamping device of the class described, comprising: a lower frame having a leg with a slot therein including a reversing portion; an upper frame movable with relation to the lower frame and having a leg; a printing medium carrier support having a boss; means penetrating the slot in the lower frame leg and pivotally connecting the carrier support to the leg of the upper frame; said boss being slidably disposed in said slot.

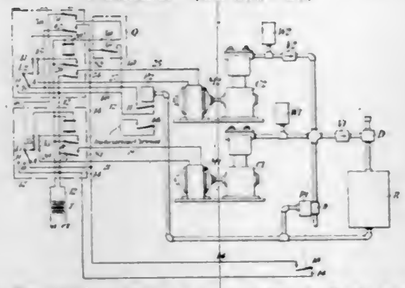
2,312,728

COMPRESSOR CONTROL SYSTEM

Bernard E. O'Hagan, Swissvale, and Allan T. Johnston, Mount Lebanon, Pa., assignors to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application July 12, 1941, Serial No. 402,178

7 Claims. (Cl. 230—18)



1. In combination, a reservoir, a first and a second compressor for supplying fluid to said reservoir, a first motor for driving the first compressor and a second motor for driving the second compressor, a first magnetic switch effective when energized to establish a circuit to supply energy to the first motor, a second magnetic switch effective when energized to establish a circuit to supply energy to the second motor, a time delay device effective when supplied with energy to establish after a predetermined time interval a circuit over which energy may be supplied to the second magnetic switch, a pressure switch responsive to the pressure of the fluid in said reservoir, said switch being effective on a predetermined decrease in said pressure to supply energy to the winding of said first magnetic switch, to said time delay device and to establish the circuit controlled by said time delay device for supplying energy to the winding of said second magnetic switch, a control member governing the circuit of the winding of said first magnetic switch, said control member having a first position in which it permits the circuit governed by the pressure switch for supplying energy to the first magnetic switch to be established, a second position in which it interrupts the circuit of said winding, a third position in which it establishes a circuit independent of sad pressure switch for supplying energy to said winding, a second control member governing the circuit of the winding of the second magnetic switch, said second control member having a first position in which it permits the circuits governed by the time delay device, the second magnetic switch and the pressure switch for supplying energy to said winding to be established, a second position in which it interrupts the circuit of said winding, and a third position in which it establishes a circuit independent of said pressure switch and of said time delay device for supplying energy to said winding.

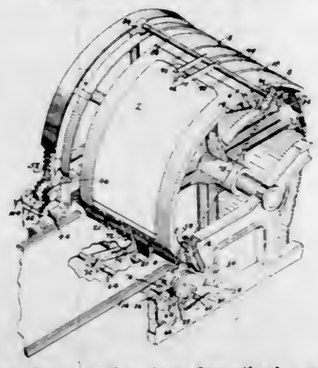
2,312,729

BAGMAKING MACHINE

Adolph Potdevin, Garden City, N. Y., assignor to Potdevin Machine Company, Brooklyn, N. Y., a corporation of New York

Application August 3, 1940, Serial No. 350,299

8 Claims. (Cl. 93—8)



3. A machine of the class described, comprising in combination a delivery drum for advancing bags and delivering the same successively at a collecting station, a rod extending lengthwise of the drum, friction blocks carried thereby and overlying the drum, fingers adjacent the drum periphery and the collecting station, actuating means therefor for projecting the fingers intermittently into the path of the leading edge of a bag thereby to arrest the progress of the same, and a rod connecting said actuating means and the first mentioned rod whereby as the fingers are actuated the friction blocks will engage the face of the arrested bag adjacent the trailing end thereof.

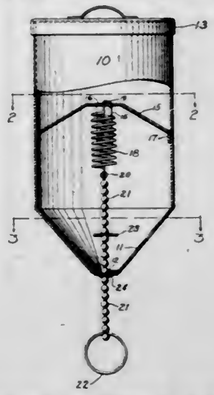
2,312,730

DISPENSER

Vern Orrien Ring, Los Angeles, Calif., assignor to Turco Products, Inc., Los Angeles, Calif., a corporation of California

Application July 24, 1940, Serial No. 347,333

6 Claims. (Cl. 221—62)



1. A device for dispensing granular material comprising a container having a dispensing orifice therein and means for moving material from the container through the orifice, including an elongated dredge member disposed at its inner end within the container and slidably extending at its other end through the orifice, said dredge member being comprised of a series of spherical sections presenting annular material carrying spaces therebetween and each being of a diameter snugly fitting but passable through the orifice.

2,312,731

PROCESS AND AGENT FOR BREAKING PETROLEUM EMULSIONS

Richard A. Salathiel, Houston, Tex., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application October 19, 1938, Serial No. 235,780

12 Claims. (Cl. 252—342)

1. A process for breaking petroleum emulsions of the water-in-oil type which comprises subjecting the emulsion to the action of a monohydric ether-alcohol ester derivative of the polybasic acid body obtained by the diene condensation with maleic anhydride of a material of the class consisting of diene-reactive fatty oils and diene-reactive fatty acids.

2,312,732

PROCESS AND AGENT FOR BREAKING PETROLEUM EMULSIONS

Richard A. Salathiel, Houston, Tex., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application October 19, 1938, Serial No. 235,781

9 Claims. (Cl. 252—342)

1. A demulsifying agent for petroleum emulsions of the water-in-oil type comprising a monohydric ether-alcohol ester derivative of a Diels-

Alder condensation product of a resin acid body with a polycarboxylic unsaturated open chain acid body operative in a Diels-Alder synthesis.

2,312,733
PROCESS AND AGENT FOR BREAKING PETROLEUM EMULSIONS
Richard A. Salathiel, Houston, Tex., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Original application October 19, 1938, Serial No. 235,780. Divided and this application December 19, 1939, Serial No. 309,954
11 Claims. (Cl. 252—333)

1. A process for breaking petroleum emulsions of the water-in-oil type which comprises subjecting the emulsion to the action of a mixture including a product obtained by condensing according to the Diels-Alder reaction a material of the class consisting of diene-reactive fatty oils and diene-reactive fatty acids with an organic unsaturated carbonyl compound operative in a Diels-Alder synthesis and an oil soluble sulphonated product derived from petroleum oil.

2,312,734
PROCESS AND AGENT FOR BREAKING PETROLEUM EMULSIONS
Richard A. Salathiel, Houston, Tex., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Original application October 19, 1938, Serial No. 235,781. Divided and this application December 19, 1939, Serial No. 309,956
14 Claims. (Cl. 252—342)

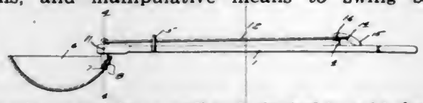
1. A process for breaking petroleum emulsions of the water-in-oil type which comprises subjecting the emulsion to the action of a monohydric alcohol ester derivative of a product obtained by condensing according to the Diels-Alder reaction an aliphatic ether-alcohol ester of a resin acid body with an organic unsaturated carbonyl compound operative in a Diels-Alder synthesis.

2,312,735
PROCESS AND AGENT FOR BREAKING PETROLEUM EMULSIONS
Richard A. Salathiel, Houston, Tex., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Original application October 19, 1938, Serial No. 235,781. Divided and this application December 19, 1939, Serial No. 309,957
6 Claims. (Cl. 252—333)

1. A process for breaking petroleum emulsion of the water-in-oil type which comprises subjecting the emulsion to the action of a mixture containing a product obtained by condensing according to the Diels-Alder reaction a resin acid body with an organic unsaturated carbonyl compound operative in a Diels-Alder synthesis and an oil soluble sulphonated product derived from petroleum oil.

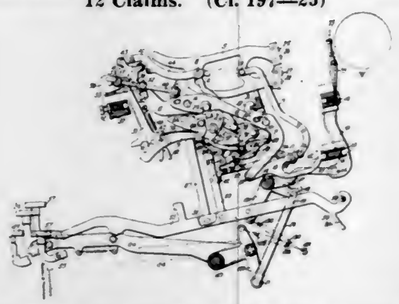
2,312,736
SHOVEL
George Schmal, North Platte, Nebr.
Application June 19, 1942, Serial No. 447,691
2 Claims. (Cl. 294—55)

1. A shovel comprising a straight handle having a bifurcated front end, a bowl-like scoop having a flat shank extending out of the same at one side thereof, said shank being pivoted in said end of the handle for swinging about an axis transverse to that of the handle to swing said scoop forwardly and rearwardly about said transverse axis, and manipulative means to swing said



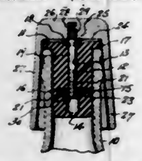
shank comprising a pull rod pivoted to said shank and extending rearwardly along said handle, and a hand lever pivoted on said handle and pivotally connected to said rod.

2,312,737
TYPEWRITING MACHINE
Russell G. Thompson, Elmira, N. Y., assignor to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware
Application September 3, 1941, Serial No. 409,363
12 Claims. (Cl. 197—25)



10. In a typewriting machine, the combination of a type bar, a case shiftable support, type bar supporting means movably mounted on said case shiftable support, actuating means for said type bar, and toggle members controlled by said actuating means for normally holding said type bar supporting means against movement relative to said case shiftable support.

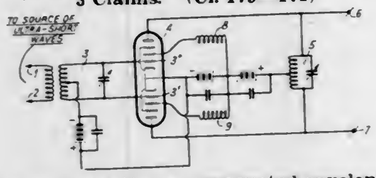
2,312,738
HERMETIC SEAL BOTTLE STOPPER
Herman Ulanet, Newark, N. J.
Application June 19, 1940, Serial No. 341,267
1 Claim. (Cl. 215—54)



A stopper device for the purposes described comprising, an expandible elastic stopper body adapted to initially loosely fit into the neck portion of a bottle or the like and having an annular flange at its upper end to engage over the bottle mouth lip, said stopper body having a central inverted conical depression in its upper end inwardly of said flange, a washer overlying the flanged upper end of said stopper body, said washer having a central inverted conical bearing portion to engage in said body depression, a manipulatable relatively rotatable cap body overlying said washer and having a shielding skirt exceeding in length the length of said stopper body to fully enclose the latter in concentric spaced relation thereto, said stopper body having an axial bore extending from its upper end and

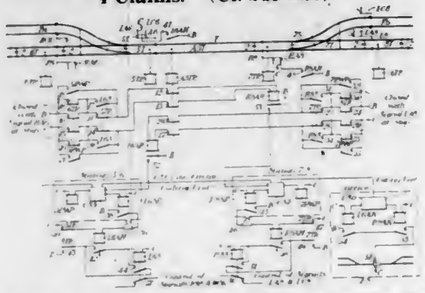
terminating short of its lower end and an annular recess of enlarged diameter around and open toward the lower end portion of said bore, a screw-threaded spindle fast to said cap body to enter said stopper body bore, a compression plate entered in said recess, said plate having an internally screw-threaded hub-portion engaged by said screw-threaded spindle, said compression plate being of concavo-convex form and of polygonal peripheral shape thereby to provide a dished face and upwardly projecting gripping points to non-slippingly abut and grip the stopper body at the upper wall of said recess when said plate is caused to travel upwardly on said spindle.

2,312,739
ULTRA-SHORT WAVE AMPLIFIER
Aldert van der Ziel and Maximiliaan Julius Otto Strutt, Eindhoven, Netherlands, assignors to Radio Corporation of America, a corporation of Delaware
Application June 14, 1940, Serial No. 340,514
In the Netherlands December 2, 1939
3 Claims. (Cl. 179—171)



2. In combination, an evacuated envelope containing a pair of similar electrode systems each comprising a single terminal cathode, a control grid, a screen grid and an anode, the cathodes being internally connected at their terminals by a path having so little inductance that very little input damping is produced thereby, said internal cathode connection being connected to a single lead only extending to the exterior of the tube and the screens being brought out separately whereby interchangeable amounts of inductance may be connected between screens, said latter inductance, by virtue of said small inter-cathode inductance, being effective to eliminate input damping without being so large as to resonate with the screen capacities at any frequency near the operating frequency.

2,312,740
RAILWAY TRAFFIC CONTROLLING APPARATUS
James J. Vanhorn, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application July 10, 1941, Serial No. 401,757
4 Claims. (Cl. 246—26)

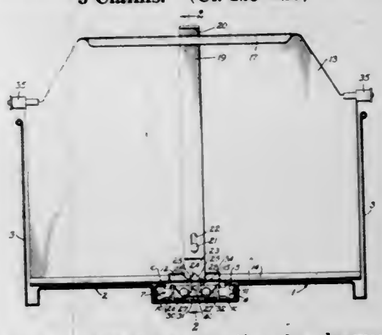


3. In combination, a stretch of single track formed with two spaced detector track sections each of which includes a track switch and which sections are separated by at least one intermediate track section, a track circuit including a track relay for each of said sections, a signal at each detector circuit to govern traffic over the respective track switch away from said intermediate section, an approach relay for each of said signals controlled through a circuit including a front contact of the track relay of each intermediate section and a front contact of the track relay of the detector section remote from the respective signal, a remote control system having an office from which said signals and switches are governed, means governed by said remote control system to by-pass each approach relay circuit around the front contact of the respective detector section track relay according to the control established for the switch and signals associated with that detector section, two indication relays at said office one for each of said approach relays, means governed by each approach relay to energize the respective indication relay through said remote control system when the respective approach relay is released, and a track indicator controlled by a circuit including in series a front contact of each of said indication relays.

2,312,741
IGNITION COMPOSITION
Clifford Akeley Woodbury, Media, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 27, 1940, Serial No. 358,659
12 Claims. (Cl. 52—4)

1. An ignition composition for blasting initiators and the like comprising a colloided nitrocellulose composition characterized by a nitrogen content of at least approximately 13.15%.

2,312,742
FILE FOLLOWER
Niels Yde Andersen, Kenmore, N. Y., assignor to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware
Application August 1, 1942, Serial No. 453,264
5 Claims. (Cl. 129—28)



1. In a followed construction for drawers and the like wherein the drawer has a bottom wall and side walls extending upwardly therefrom in spaced parallel relation, and a channel member extends longitudinally on the bottom wall, the combination of a supporting member slidable longitudinally in said channel member, a follower plate hingedly mounted on said supporting member for swinging movement thereon between forwardly and rearwardly tilted positions, means for limiting the tilting movement of said follower

plate, latch means on the supporting member normally operative to engage said channel member and retain said supporting member against longitudinal movement therein, and an operating member movably mounted on said follower plate manually operable in all positions of said plate for engaging and moving said latch means into inoperative position whereby said follower plate and supporting member may be longitudinally adjusted in said channel member.

2,312,743

ALKOXY META-DIOXANES

Erving Arundale, Union, and Louis A. Mikeska, Westfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application December 1, 1939, Serial No. 307,112

8 Claims. (Cl. 260—338)

1. The method of producing a substituted meta-dioxane which comprises reacting one mol of dimethallyl ethyl ether with two mols of a saturated aldehyde in the presence of a dilute acid-reacting catalyst.

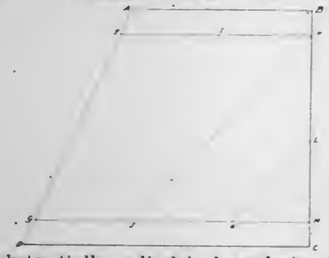
2,312,744

BLASTING CARTRIDGE SHELL

Claude L. Barker, Denver, Colo., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application November 22, 1939, Serial No. 305,631

1 Claim. (Cl. 102—24)



A substantially cylindrical explosive package comprising an explosive composition encased in a rolled shell, said shell being formed from a quadrilateral sheet of rupturable material having at least one set of parallel opposite sides perpendicular to the longitudinal axis of the filled cartridge, said sheet being characterized by at least one row of weakening perforations, said row being so sloped that it meets the said parallel sides of the shell material at an angle between 45° and 55°, said sheet being rolled into cylindrical form so that the perforations are spirally disposed on and extend substantially from end to end of the finished shell.

2,312,745

MILK SAFE

Irving Berger, New York, N. Y.

Application October 19, 1939, Serial No. 300,150

1 Claim. (Cl. 232—42)



A milk-safe for use with a door and a jamb: said safe having a bottom, a first wall disposed to face the door when the door is closed and a second wall; said first wall having an edged aperture through which bottles may be removed or replaced, said edge having an indentation extending toward said second wall; said second wall being composed of sheet metal having an orifice disposed adjacent said bottom and a pair of oppositely disposed integral channels composed of folds of the sheet metal forming said second wall; said channels being arranged perpendicularly with relation to the bottom of said safe; a latching element pivotally mounted upon said bottom for rotation about a vertical axis; said latching element having an arm and a forward end; a spring resiliently connecting the arm to said bottom and urging the forward end through the orifice in the second wall; said arm having an upwardly extending handle element lying adjacent the said indentation; mounting means composed of sheet metal, adapted to be secured to the jamb and including a latching plate substantially semi-circular in vertical section; the upper portion thereof curving toward the inner surface of the mounting means, said latching plate having a hole; said mounting means having a pair of oppositely disposed second channels integrally bent from the sheet metal of which the mounting means is composed; the second channels being adapted to slidably engage the pair of channels on the second wall whereby the second channels are adapted for vertical rectilinear reciprocation therein; the forward end of the latching element being adapted to rest upon the upper surface of the curved latching plate to support the safe in an unlocked condition and upon downward pressure upon the safe, to engage said hole and thereby stop all sliding movement; said handle being accessible through said indentation whereby the safe may be unlocked while loaded with said bottles.

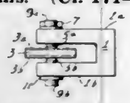
2,312,746

ART OF MOUNTING PIEZOELECTRIC ELEMENTS

Samuel A. Bokovoy, Audubon, and Henry W. N. Hawk, Merchantville, N. J., assignors to Radio Corporation of America, a corporation of Delaware

Application June 27, 1941, Serial No. 400,068

9 Claims. (Cl. 171—327)



1. holder for a piezoelectric crystal comprising a support, a pair of bearings journaled for rotation in said support and between which said crystal is adapted to be clamped.

2,312,747

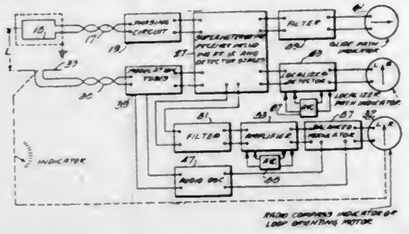
RADIO NAVIGATION SYSTEM

Donald S. Bond, Philadelphia, Pa., assignor to Radio Corporation of America, a corporation of Delaware

Application April 12, 1939, Serial No. 267,493

5 Claims. (Cl. 250—11)

1. A radio receiver for an aircraft instrument landing system including a directional and a non-directional channel, means responsive only to signals from said non-directional channel for indicating the position of said receiver with respect to a glide path, means including said non-directional channel and responsive to signals distinguishable from said glide path signals for indicating the position of said receiver with respect to a localizer path, and means including said directional and said non-directional channels for indicating the direction of the source of said glide path.



2,312,748

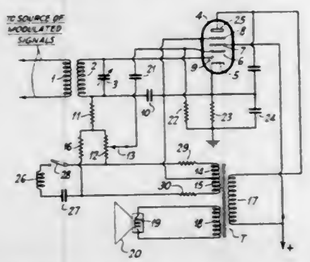
VOLUME CONTROL CIRCUIT

Henricus Adrianus Broos, Eindhoven, Netherlands, assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware

Application June 22, 1939, Serial No. 280,507

In the Netherlands October 26, 1938

2 Claims. (Cl. 250—27)



1. In a signal voltage transmission circuit having a pair of input terminals and a pair of output terminals, a source of signal voltage, a bridge network having one pair of inductive arms, one of the input terminals being connected to the junction of the inductive arms, the second pair of bridge arms being resistive, a frequency discriminatory path connected in shunt with both said resistive arms and acting as a diagonal of said bridge network, an adjustable element connecting the second of the input terminals to one of said resistive arms, and a signal voltage transmission path coupling said output terminals to said inductive arms.

2,312,749

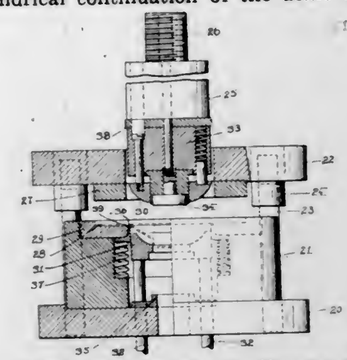
METHOD OF MAKING THIN SHEET METAL SHELLS

Giles E. Bullock, Rochester, N. Y.

Application August 3, 1940, Serial No. 350,480

2 Claims. (Cl. 113—51)

1. The method of forming a deep cylindrical shell having a dome and a collar of reduced diameter on top of said dome from thin sheet stock which consists in drawing a flat sheet blank to form a raised center having a cylindrical pocket and a substantially conical wall intermediate the flat edge portion of the blank and the cylindrical pocket, then forming the intermediate conical wall of the blank into a dome and drawing the flat edge portion of the remainder of the flat portion of the blank into a cylindrical continuation of the dome for the body of the shell in one continuous drawing operation.



2,312,750

SULPHURIZED ADDITION AGENT FOR LUBRICANTS AND LUBRICANTS CONTAINING THE SAME

Charles A. Cohen, Elizabeth, N. J., assignor, by mesne assignments, to Jasco, Incorporated, a corporation of Louisiana

No Drawing. Application August 16, 1938, Serial No. 225,145

15 Claims. (Cl. 252—48)

1. An improved lubricating oil addition agent comprising a polymer of a mono-olefin boiling within the range of 100° C. to 275° C., sulphurized by heating with free sulphur between 180° C. and 200° C. for a sufficient period of time to bring about reaction.

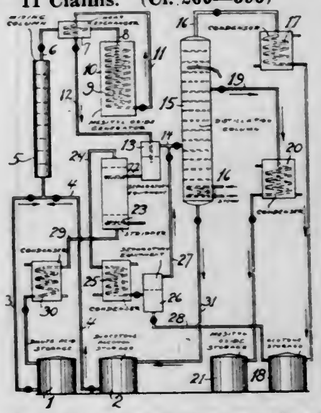
2,312,751

PREPARATION OF UNSATURATED KETONES

Charles A. Cohen, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application May 8, 1940, Serial No. 333,899

11 Claims. (Cl. 260—596)

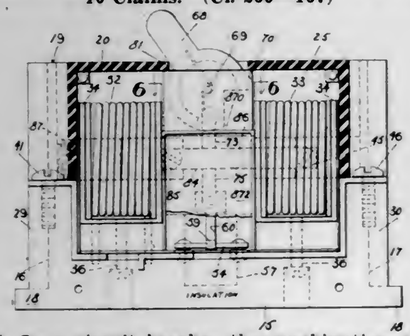


1. The process of preparing unsaturated ketones by the catalytic dehydration of keto-alcohols which comprises heating together the keto-alcohol and the dehydration catalyst at a temperature sufficient to effect substantially complete dehydration of the keto-alcohol in a short period of time and under a pressure to prevent substantial vaporization, and separating the unsaturated ketone from the reaction mixture while in liquid phase.

2,312,752
EXPLOSIVE COMPOSITION
Melvin A. Cook, Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 13, 1940, Serial No. 340,323
5 Claims. (Cl. 52—14)

1. A blasting unit comprising a substantially water-tight and pressure-resistant container and a pelleted charge within said container having a density of at least 1.50 and comprising at least 50% by weight of ammonium nitrate, the reaction product of ammonia with an inorganic nitrate other than those of the alkali metals, and pentaerythritol tetranitrate.

2,312,753
CIRCUIT BREAKER
Joseph A. Coy, Cincinnati, Ohio, assignor to The Wadsworth Electric Manufacturing Company, Inc., Covington, Ky., a corporation of Kentucky
Application October 17, 1940, Serial No. 361,611
10 Claims. (Cl. 200—107)

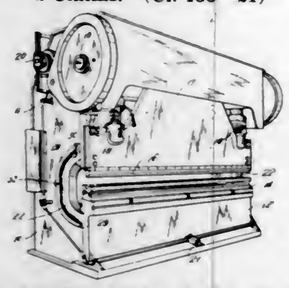


1. In a circuit breaker the combination of a base, a number of pairs of stationary contacts on the base, a contact bridge for engaging each pair of stationary contacts, and adapted to engage and disengage said stationary contacts, a well formed in the base and disposed between the pairs of stationary contacts, an actuating means comprising a cylindrical block guided for rectilinear, axial movement in the well, horizontal arms extending diametrically from the side of the block and positioned in a vertical plane disposed intermediate two contacts constituting a pair of stationary contacts, and a horizontal contact bridge extending transversely from the end portion of each arm and in vertical alignment with a pair of stationary contacts, means for biasing the actuating means to contact disengaged position, a manually operating means, a collapsible means connected to the operating means and resiliently engaging the block, and normally adapted to hold the actuating means in contact engaged position, and means responsive to current conditions in the circuit for acting on the collapsible means and rendering said means ineffective to hold the actuating means in contact engaged position.

2,312,754
PROCESS FOR THE MANUFACTURE OF AMINO COMPOUNDS
Lee G. Davy, Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application March 5, 1940, Serial No. 322,401
7 Claims. (Cl. 260—585)

1. A method for the manufacture of amines which comprises spraying a lower alkyl alcohol into contact with ammonia and in the presence of a catalyst in a reaction zone, reacting the aforementioned materials at a temperature between 150° C.–250° C., producing amine formation and under pressure of 400–1500 lbs. per square inch, and obtaining at least part of the pressure by adding at least a part of the ammonia outside of the reaction zone but in communicative contact with the reacting materials.

2,312,755
BENDING BRAKE
Roy F. Dehn, Cleveland, Ohio, assignor to The Cleveland Crane & Engineering Company, Wickliffe, Ohio, a corporation of Ohio
Application May 11, 1940, Serial No. 334,647
2 Claims. (Cl. 153—21)

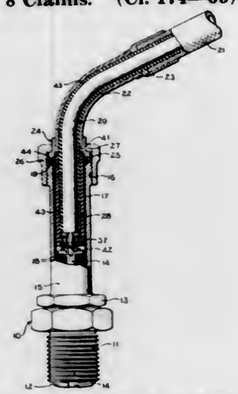


1. In a bending brake of the character described, the combination of: a frame comprising vertically positioned horizontally spaced stress resisting end members having aligned openings in their front vertical edges forming a throat adapted to receive work to be operated upon, and an abutment member adapted to support a die or punch adjacent to the lower side of said throat; a movable ram or leaf located at the opposite side of said throat from said abutment member and slibably supported by said frame for vertical movement towards and from said abutment member; said ram or leaf being adapted to carry a die or punch on the lower side thereof; means connected to said frame and supported thereby for reciprocating said ram or leaf; a rigid member extending around said throat, means for fixedly connecting one end of said rigid member to said frame at one side of said throat; and a dial indicator means connected to said frame at the opposite side of said throat and to the adjacent end of said rigid member for indicating the force exerted between said abutment member and said ram or leaf member.

2,312,756
PROCESS FOR THE PREPARATION OF DE-OILED SLUDGE IN COMBINATION WITH ACID RECOVERY
Robert P. Ferguson, Cranford, and Insley P. Jones, Basking Ridge, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application July 10, 1940, Serial No. 344,774
6 Claims. (Cl. 196—40)

1. In the refining of petroleum hydrocarbon oils by treating the petroleum hydrocarbon oil with sulfuric acid to prepare a thermoplastic tar, the steps which comprise treating a viscous lubricating oil with concentrated sulfuric acid at a temperature of about 100° F., agitating the mixture for 10 to 35 minutes while adding slowly at a uniform rate, 5 to 10% of water based on the volume of sludge formed, allowing the mixture to settle, separating the sludge from the treated oil, adding 10% to 20% of water to the separated sludge, maintaining the mixture at a temperature of 225° to 250° F. and separating the sulfuric acid, the tar and the oil.

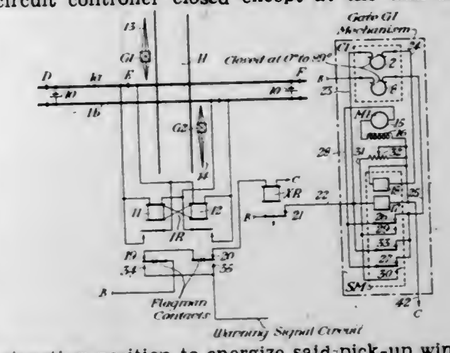
2,312,757
RADIO SHIELDED IGNITION APPARATUS
Jakob Rudolf Frei, Sidney, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application January 22, 1940, Serial No. 315,020
8 Claims. (Cl. 174—35)



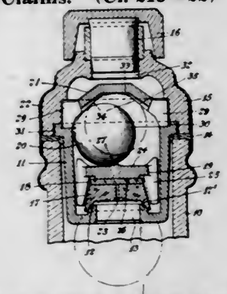
1. In apparatus of the class described, a spark plug having a center electrode, a shielding barrel surrounding said electrode and projecting beyond the end thereof and insulating means interposed between said shielding barrel and said electrode, an electrical conductor, a shielding conduit surrounding said conductor and insulated therefrom, said conductor having an end portion thereof projecting beyond said conduit into said shielding barrel, a rigid insulating sleeve surrounding the end portion of said conductor in said barrel, one end of said sleeve having abutting relation with said conduit, means for securing said conductor to said sleeve adjacent the other end of the latter, said means comprising an annular element fixed in said sleeve, a metallic member secured to the end of said conductor, said member having a reduced portion slidably extending through said element and means threadedly engaging said reduced portion to secure said element and member together, resilient means for electrically connecting said last-named means and said electrode, and means for removably securing said conduit to said barrel.

2,312,758
APPARATUS FOR CONTROL OF HIGHWAY CROSSING GATE
Carl L. Goodlin, Penn Township, Allegheny County, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application June 28, 1941, Serial No. 400,262
2 Claims. (Cl. 246—130)

1. In combination, a highway crossing gate located at an intersection of a highway and a railway and biased to an obstructing position and operable to a non-obstructing position; a gate mechanism including a motor, a slot magnet and a circuit controller; said motor operable to move the gate to its non-obstructing position, said slot magnet operable to hold the gate at its non-obstructing position and provided with a holding and a pick-up winding and circuit controlling contacts, a normally energized control relay governed by railway traffic and deenergized in response to a train approaching the intersection, a first control circuit including a front contact of said relay to energize said holding winding, a second control circuit including said front contact of the control relay and a contact of said circuit controller closed except at the non-obstructing position to energize said pick-up winding, an operating circuit including a contact of said controller closed except at the non-obstructing position and a front contact of said slot magnet for operating said motor, and stick circuit means including said last mentioned controller contact and a front contact of said slot magnet to energize both said holding and pick-up windings to continue the movement of said gate to its non-obstructing position once such movement is started and a train approaches the intersection to deenergize said control relay.

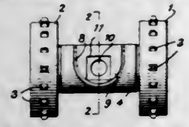


2,312,759
NONREFILLABLE BOTTLE CLOSURE
Edgeworth Greene, Upper Montclair, N. J., and William H. Forrest, Brooklyn, N. Y., assignors to Inter-Seal Corporation, New York, N. Y., a corporation of Delaware
Application July 1, 1939, Serial No. 282,376
2 Claims. (Cl. 215—22)



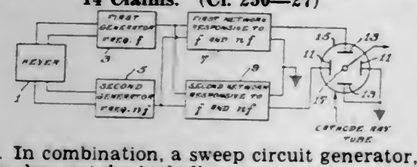
2. In a bottle closure of the kind described, having a valve housing, with inlet and outlet openings at the opposite ends thereof respectively, and having valve means and cooperating weighted means within said housing, a valve seat surrounding the inlet opening of said housing, said valve seat being convex, and the face of the valve means being recessed and of a configuration to provide substantially a line contact when in engagement with said seat regardless of incidental angular disposition of the axes of said valve means and seat.

2,312,760
SPROCKET MECHANISM
Henry Heidegger, Brooklyn, N. Y., assignor to International Projector Corporation, New York, N. Y., a corporation of Delaware
Application June 20, 1939, Serial No. 280,024
6 Claims. (Cl. 287—52)



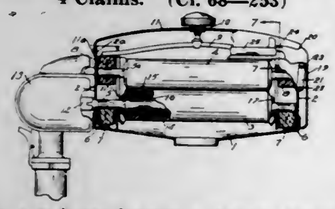
1. A circular hub having two channels therein forming two flaps as a part of said hub, a shaft passing through said hub and between said flaps, and drawing means passing through the flaps and shaft to draw said flaps simultaneously into engagement with said shaft and to secure said hub in concentric position on said shaft.

2,312,761
SWEEP CIRCUIT GENERATOR FOR CATHODE RAY TUBES
William D. Hershberger, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application September 26, 1940, Serial No. 358,462
14 Claims. (Cl. 250—27)



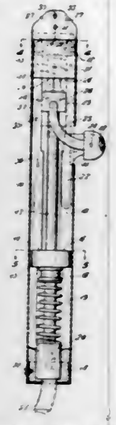
1. In combination, a sweep circuit generator, a cathode ray tube including means for establishing therein a cathode ray, a source of alternating currents of two frequencies, a pair of electrical networks, means for applying alternately said currents to said networks, each of said networks including two oscillatory circuits having constants which establish in each of said networks a pair of resonant responses corresponding to said frequencies, and means for applying the resonant voltages across said networks to said cathode ray tube to deflect said ray alternately at frequencies corresponding to said different frequencies.

2,312,762
WRINGER
Walter L. Kauffman, II, Erie, Pa., assignor to Lovell Manufacturing Company, Erie, Pa., a corporation of Pennsylvania
Application October 5, 1939, Serial No. 298,095
4 Claims. (Cl. 68—253)



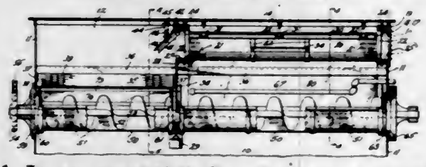
1. In a wringer having a frame, wringer rolls of resilient material, pressure devices exerting pressure between the rolls, and means releasing the roll pressure, the combination with one of the rolls of a tube of rigid material on which the roll is bonded and a drive shaft extending through the tube with a loose relation said drive shaft extending beyond the ends of said one roll, said tube and shaft having surfaces engaging each other, said surfaces extending parallel to the axes of said tube and shaft said shaft sustaining the roll pressure and driving the roll when under pressure through said engaging surfaces, the release of pressure on the rolls relieving the driving engagement between the shaft and the tube.

2,312,763
WELDING ROD HOLDER
Wiliam Linquist, Cleveland, Ohio, assignor to A. L. Austin, Cleveland, Ohio, as trustee
Application July 17, 1941, Serial No. 402,771
2 Claims. (Cl. 219—8)



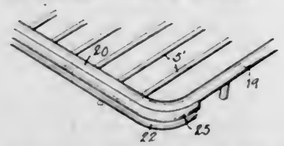
1. In a holder of the class described, an elongated body member, a casing of insulation material surrounding said body member, a plunger longitudinally movable within said body member, a pair of clamping jaws carried by said plunger projecting from one end of said body member, an electric conductor projecting through the opposite end of said body member and connected with said plunger, means for opening said jaws when moved in one direction longitudinally of the body member and closing them when moved in the opposite direction, a spring for moving the plunger in one direction and a toggle for moving it in the opposite direction, the middle joint of said toggle projecting outwardly through said body member and casing.

2,312,764
METHOD AND APPARATUS FOR STRAINING LIQUIDS
Henry G. Lubke, Buffalo, N. Y., assignor to The Wittemann Company, Inc., Buffalo, N. Y.
Application June 21, 1940, Serial No. 341,695
12 Claims. (Cl. 210—149)



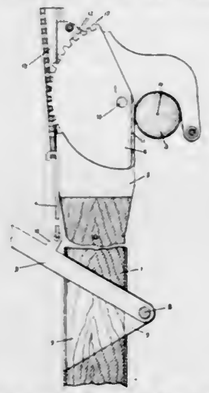
1. In an apparatus for straining a material from a liquid, the combination of a housing, a perforate conduit extending lengthwise of the upper portion of said housing and into one end of which liquid to be strained is admitted, an inclined perforate strainer plate to the upper portion of which liquid containing material to be separated therefrom is discharged from said conduit, some of the liquid passing through the perforations of said plate and another portion of the liquid moving material to be separated from the liquid downwardly along said plate, a trough from which liquid and material discharged from said plate is collected, and conveying means in said trough to carry material collected therein out of the apparatus.

2,312,765
SHELF OR RACK SUITABLE FOR REFRIGERATORS OR THE LIKE
Beryl L. McArdle, Battle Creek, Mich., assignor to United Steel and Wire Company, Battle Creek, Mich., a corporation of Michigan
Application September 13, 1939, Serial No. 294,602
8 Claims. (Cl. 211—153)



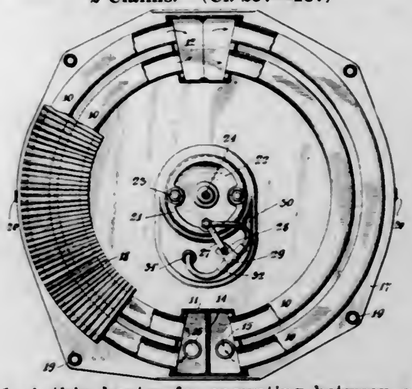
1. In a structure of the class described, the combination with a border frame comprising a front member including a pair of rod-like members of circular section disposed in superimposed relation and spot-welded to one another at spaced points to provide an elongated outwardly facing longitudinal slot, grid elements secured to said frame, and a strip of material arranged in said slot to provide a contrasting ornament for said front member.

2,312,766
PRUNING HOOK
Ernest Merki, Portland, Oreg.
Application June 14, 1941, Serial No. 398,164
2 Claims. (Cl. 30—250)



1. A pruning hook comprising, a shaft, a head secured to the end of the shaft formed with a hook adapted to engage a limb, a spiral segment pivotally mounted upon the head to provide for the passage of the segment across the aperture of the hook and formed in detail with a cutting edge and peripheral cogs, a rack slidably mounted in the head and formed with teeth aligned with reference to a tangent to the spiral segment, the same being inclined to the direction in which the rack is slidable, and handle and link means serving to transmit force applied to the handle for actuating the rack and segment.

2,312,767
HEATER
Carl E. Meyerhoefer, Brooklyn, N. Y., assignor to E. A. Laboratories, Inc., Brooklyn, N. Y., a corporation of New York
Application February 21, 1940, Serial No. 320,036
2 Claims. (Cl. 257—137)

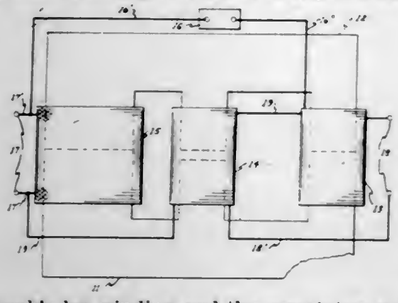


1. A thin heater for mounting between a vehicle seat and floor, said heater comprising a pair of semi-circular core sections, each section containing two pairs of horizontally and vertically spaced semi-circular tubes, a header having a pair of adjacent chambers secured to ends of said tubes, one header chamber providing for flow into the tubes of one section and the other providing for flow out of the tubes of the other section, a further header diametrically opposite said first mentioned header and mounted between said core sections and adapted to provide a passage from one core section to the other, heat dissipating material surrounding said tubes, plates secured to each side of said cores and adapted to compressibly engage said heat dissipating material, one of said plates formed with a circular opening for housing a fan, the other of said plates formed with an oval indentation, a portion of said oval indentation mounting a motor for driving said fan, the remaining section of said oval being adapted for flush positioning of motor leads, the inward indentation of said oval portion providing an air deflecting means and a housing for a portion of said motor means, the remaining portion of said motor extending beyond said indented plate and adapted for extending through the vehicle floor.

2,312,768
VOLTAGE REGULATOR
Isaac A. Mitchell, Brooklyn, N. Y.
Application August 6, 1941, Serial No. 405,683
2 Claims. (Cl. 171—119)

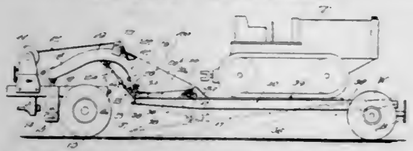
1. In a voltage regulator, input terminals, a core of magnetic material, said core being of the closed type and having multiple magnetic paths, said paths including multiple parallel legs and one of said legs being saturable and another unsaturable; coil windings mounted upon said multiple parallel legs, one end of the saturable leg winding connected to an input terminal, one end of the unsaturable leg winding connected to the other input terminal, the other end of the saturable leg winding connected through a con-

denser to a third winding, and the other end of the third winding connected to a point on the



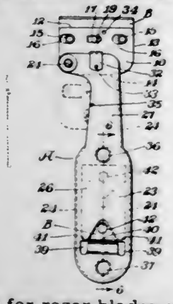
saturable leg winding and the remaining end of the unsaturable leg winding.

2,312,769
TRAILER AND COUPLING THEREFOR
Bernhard A. Mosling, Oshkosh, Wis.
Application April 23, 1941, Serial No. 389,996
13 Claims. (Cl. 214—86)



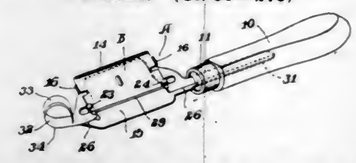
1. A coupling for a tractor and a trailer comprising a boom universally connected at one end to said tractor, a topping lift cable for said boom, an actuating winding drum for said cable, connecting means for detachably connecting an end of said cable to said boom, a cable-reverting means permanently and rigidly carried by said trailer and adapted to have an operative engagement with a bight of said cable, tractor carried means engageable by cable end connecting means whereby to effect preliminary coupling of said boom and trailer, and additional means for thereafter rigidly coupling said boom and trailer together.

2,312,770
RAZOR BLADE HOLDER
Jennings Nelson, St. Paul, Minn.
Application May 17, 1941, Serial No. 393,977
10 Claims. (Cl. 30—156)



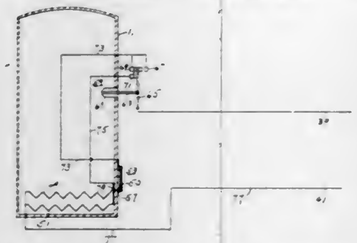
1. A holder for razor blades comprising a handle, a pair of clamping plates designed to clamp a razor blade therebetween, interlocking means interconnecting said clamping plates and disengageable by a relative slidable movement of said plates, and bolt means for normally holding said clamping plates from relative slidable movement.

2,312,771
PARING KNIFE
Jennings Nelson and Alton R. Stewart, St. Paul, Minn.
Application June 23, 1941, Serial No. 399,272
7 Claims. (Cl. 30—278)



1. A paring knife including a handle, a cutter head extending from said handle, said cutter head comprising a flat open frame, means on said frame for marginally engaging and removably retaining a razor blade in position, said frame marginally engaging three edges of said blade, and a gauge bar extending forwardly of the cutting edge of said blade to gauge the depth of cut of said blade.

2,312,772
WATER HEATING SYSTEM
Clark M. Osterheld, Stoughton, Wis., assignor to McGraw Electric Company, Elgin, Ill., a corporation of Delaware
Application June 14, 1941, Serial No. 398,094
4 Claims. (Cl. 219—39)

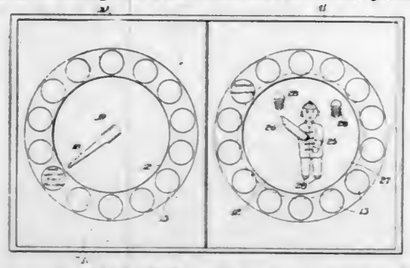


1. A control system for a hot water tank having a plural-section electric heater applied thereto near the lower end of the tank and adapted to heat water in only the lower end of the tank, comprising a switching means having two operative positions, a thermal element subject to tank water temperature at a point substantially one-half of the height of the tank and adapted to move said switching means from one to the other of its operative positions in accordance with its ambient temperature, electric connections between the heater sections and the switching means to cause the generation of a greater amount of heat by said heater when the upper half of the tank is filled with cold water than when the upper half of the tank is filled with hot water and a second thermally-operative switch subject to tank water temperature at the lower end of the tank for deenergizing said heater when substantially all of the water in the tank is hot.

2,312,773
EDUCATIONAL TOY
Harry B. Palmer, New York, N. Y.
Application April 30, 1941, Serial No. 391,041
2 Claims. (Cl. 35—9)

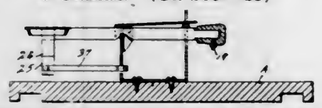
1. In a toy of the character described, a magnetically operated pointer having a shaft, a bearing loosely receiving said shaft to permit both

rotary and axial movement of said pointer, and means limiting the axial movement of the pointer



to prevent said shaft from being completely withdrawn from said bearing.

2,312,774
EGG GRADER
William E. Petersen, Cottonwood, Calif.
Application February 2, 1942, Serial No. 429,193
5 Claims. (Cl. 265—48)



1. A device of the character described comprising a base element, an upstanding guide plate having an opening extending through the upper end portion thereof, an upstanding beam-supporting plate, a fulcrum plate secured to said beam-supporting plate, a balance beam having its mid portion fulcrumed on said fulcrum plate and having its rear end portion projecting through and vertically movable in said opening, an egg receptacle relatively movably supported by the front end portion of said balance beam, and a signal member having its forward end portion fulcrumed on said fulcrum plate and having its rear end portion projecting through and vertically limitedly movable in said opening above said beam, said rear end portion of the signal member adapted to normally seat on offsets on the intermediate inner margins of said opening, said rear end portion of said signal member being adapted to be impinged and moved vertically by said balance beam during the operable movement of the latter when weighing certain grades of eggs.

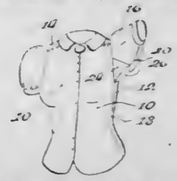
2,312,775
ADJUSTABLE GARMENT STRAP
Louis M. Rabinowitz, New York, N. Y.
Application September 5, 1942, Serial No. 457,470
2 Claims. (Cl. 24—206)

2. A garment strap comprising a strip of base fabric, a second and narrower strip of fabric superimposed upon the base fabric and folded upon itself at equidistantly spaced intervals longitudinally thereof to form a series of pockets, the sides of the pockets being defined by parallel lines of stitching extending from end to end of said narrower strip, inwardly of its respective outer edges and uniting it to the base strip, an eye anchored within the area of each pocket, with its head end protruding therefrom, the marginal portions of the base strip being oppositely folded upon said fold-embodying surface of the narrower strip, with their edges in spaced relation to expose the protruding portions of the eyes associated with the respective pockets for engagement by a cooperating hook, the marginal portions of said base strip being secured to the undersurface thereof through said pocket-forming narrower strip, throughout the length of the strap.

2,312,776
ACOUSTICAL WALL COVERING
Kenneth S. Rankin, Toronto, Ontario, Canada, assignor to Acousticwall Limited, Toronto, Ontario, Canada
No Drawing. Application July 7, 1939, Serial No. 283,177
5 Claims. (Cl. 106—122)

1. An acoustic covering for walls and ceilings formed essentially of finely spun glass bonded together in an interstitial felted mass and characterized mainly by its sound-absorbing properties.

2,312,777
BLOUSE
Morris Sholder and Arthur M. Cooper, Chicago, Ill., assignors to Form Fashion, Inc., Chicago, Ill., a corporation of Illinois
Application October 6, 1941, Serial No. 413,752
2 Claims. (Cl. 2—125)



1. A garment having body covering and sleeve elements comprising, straight cut back and front panels stitched together at the sides of the garment to provide a large armhole, a sleeve stitched around said armhole throughout a portion comprising approximately half of the circumference of the upper end of the sleeve so as to provide a generally rhomboidal opening in the armpit region with the shorter diagonal of said rhomboidal opening extending from the stitch line joining the front and back panels of the blouse to the stitch line at the lower side of the sleeve, and a generally rhomboidal gusset stitched in place to fill said opening, said rhomboidal gusset comprising a pair of bias cut triangles stitched together along bias cut edges and positioned in said opening with their common sitch line in approximate alignment with the stitch line joining the front and back panels and a stitch line at the lower side of the sleeve.

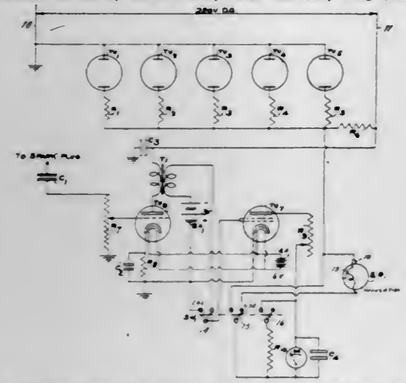
2,312,778
SPARK ADVANCE INDICATOR
Brooks H. Short, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application October 21, 1940, Serial No. 362,111
1 Claim. (Cl. 177—311)

A spark advance indicating system comprising a D. C. ammeter constructed to give a current reading of zero to x milliamperes and provided with a dial to give a spark advance reading of zero to y degrees, the reading of y degrees corresponding to the reading of x milliamperes, said dial bearing a calibration mark to indicate the flow of

$$\frac{zx}{y}$$

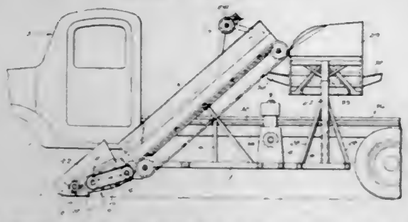
milliamperes, z being the number of degrees of

rotation of the engine crank shaft during the cycle of engine operation; a resistance to be placed in shunt with the meter to obtain the calibration mark; a "use" or operating circuit comprising a current source of constant potential, a thyratron tube for connecting the meter with the current source, means responsive to occurrence of sparking at an engine plug for causing the tube to become conducting and means responsive to top dead center of the engine piston associated with said spark plug for causing the meter to be disconnected from the current source; and a calibrating circuit comprising the current source, the tube, the meter, the resist-



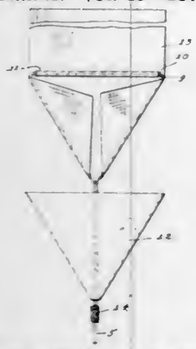
ance shunting the meter and a variable resistance for adjusting the continuous current flow through the plate cricuit of the tube so that the meter pointer will point to the meter calibration mark; and a circuit controller including a manually operated member having a "calibrating" position in which both of the aforesaid means are rendered non-operating and the meter and its shunt resistance are connected in parallel and both together in series with the tube and current source and the tube grid is brought to zero voltage to make the tube conducting, and having a "use" position in which both of the aforesaid means are rendered operating and the meter-shunt-resistance is open circuited.

2,312,779
SACK LOADER
Elden R. Smith, Salinas, Calif.
Application December 22, 1941, Serial No. 424,062
1 Claim. (Cl. 198—7)



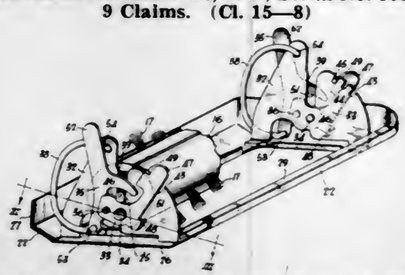
A sack loader of the character described comprising a wheel supported frame, a pick-up unit pivotally mounted for swinging adjustment on the forward end portion of said frame, said pick-up unit including a pair of forwardly diverging side members, an endless apron operatively mounted between said side members, a bar extending between the side members forwardly of said apron, teeth projecting forwardly from said bar, a lifting reel of polygonal cross section rotatably mounted between the side members above the bar and the teeth, said bar and teeth having recesses therein accommodating the reel, an elevating conveyor mounted on the frame for receiving sacks from the pick-up, and means for actuating the apron, the reel and the elevating conveyor.

2,312,780
FLY SWATTER
Abraham Sorkind, Brawley, Calif.
Application June 19, 1942, Serial No. 447,716
3 Claims. (Cl. 43—137)



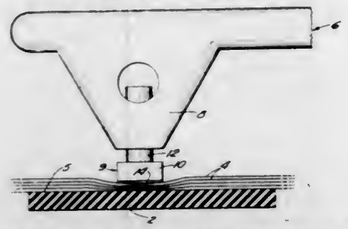
1. A fly swatter comprising a handle having a flat head at one end provided with diverging sides, a sheet of reticular material having one end folded about the sides of the head of said handle, a ferrule slidably mounted on said handle adapted to slide over the head and clamp the sheet of material in folded engagement therewith, and a sleeve slidably mounted on the handle in frictional engagement therewith, said sleeve being adjustable on the handle to secure said ferrule in clamping position.

2,312,781
SUCTION CLEANER APPARATUS
Charles H. Taylor, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 12, 1940, Serial No. 365,237
9 Claims. (Cl. 15—8)



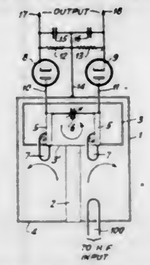
1. A suction cleaner having an intake nozzle, a revoluble surface contacting element having a projection extending endwise therefrom, mounting means for said surface contacting element including means for receiving said projection, other means providing a seat for said projection, said seat being adjustable, relative to said receiving means, toward and away from the intake to said nozzle, latch means connected to said seat-providing means, and means biasing said latch means against said projection to hold the same down on said seat.

2,312,782
TYPE
Edwin Thorell, West Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application December 31, 1940, Serial No. 372,607
9 Claims. (Cl. 197—2)



1. A type for printing machines comprising an individual character provided with a substantially rigid ink impression face formed to print a letter or figure and having, as a whole, a convex curvature in two directions.

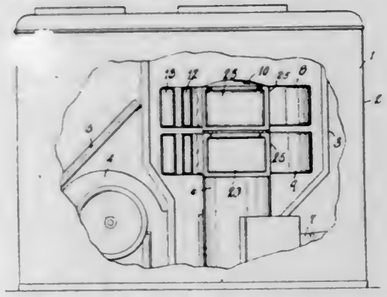
2,312,783
FREQUENCY VARIATION RESPONSE CIRCUIT
Bertram Trevor, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application October 25, 1941, Serial No. 416,458
9 Claims. (Cl. 250—40)



1. In a frequency variation response network, a first resonant circuit in the form of a section of coaxial transmission line, the inner conductor of which is hollow at its high alternating potential end, a second resonant circuit also in the form of a section of transmission line and tuned to the same frequency as said first circuit, said second circuit being located within and directly connected at its electrical center to the hollow portion of said inner conductor, means for reactively exciting said second resonant circuit from said first resonant circuit, means for deriving potentials of opposite polarities from symmetrical points on the second resonant circuit and rectifying the same, and means for adding the resultant direct current voltages in opposition.

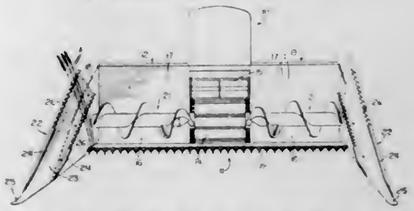
2,312,784
RADIATOR UNIT FOR HOT AIR FURNACES
Sidney Volk, Benton Harbor, Mich., assignor to Radiation Furnace Corporation, Benton Harbor, Mich.
Application August 29, 1941, Serial No. 408,736
8 Claims. (Cl. 126—102)

1. A combustion and radiator unit comprising a vertically elongated cylindrical combustion chamber of steel having a plurality of axially spaced radiator sections in radially spaced, concentric relationship adjacent the upper end thereof, said sections being of welded steel construction and having means for rigidly attaching the same in the foregoing telescoped relation to said combustion chamber and comprising pairs of inner and outer concentric arcuate flues of vertically elongated, relatively narrow, hollow section to prevent thermal stratification and the occurrence of non-uniformly heated zones therein, with resultant non-uniform heat transfer through the walls thereof, the respective inner and outer flues being in open communicating relation at the ends thereof, said combustion chamber having a flue gas discharge of substantial size at one side communicating with the uppermost of said sections adjacent one end of the respective pairs of flues, the gases emanating from said discharge diverg-



ing and entering said flues for arcuate circulation through the latter, said uppermost section having a passage located adjacent the opposite end of the respective flues thereof for communicating said uppermost section with the section beneath the same, the flue gases traversing said last named passage from the uppermost to the lower section thereafter diverging and simultaneously circulating in the opposite direction through the respective pairs of flues of the lower section, the inner flues of said sections being narrower in horizontal dimension than the outer to equalize the rate of heat transfer therefrom, the lowermost of said sections communicating with a stack or breeching, and means for circulating air to be heated upwardly externally of said combustion chamber and through the space adjacent said inner and outer flues.

2,312,785
GRAIN DIVIDER
Albert B. Welty, Moline, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application March 24, 1941, Serial No. 384,777
6 Claims. (Cl. 56—314)



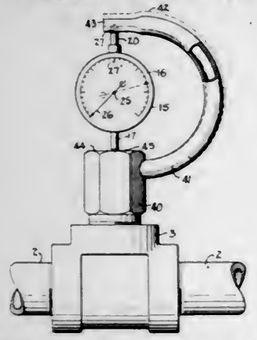
1. A grain divider for a harvester platform comprising a member associated with the grainward end of said platform so as to part the grain on forward travel of the platform, and grain retaining portions extending from said member at the platform side of the member.

2,312,786
CRUTCH
James F. Wilson, Des Moines, Iowa, assignor of forty-nine per cent to Walter E. Baker, Des Moines, Iowa
Application June 11, 1941, Serial No. 397,578
3 Claims. (Cl. 135—49)



1. In a crutch, the combination of a tubular metal body portion interiorly screw threaded at its upper end, a tubular nut inserted in said screw-threaded portion, a socket open at its upper end fixed to the interior of the tube, an upper crutch member of smaller diameter than the body portion extended through the nut and into the socket and having a collar fixed thereto to engage the nut, and an extensible coil spring surrounding the upper crutch member and engaging said socket and said collar.

2,312,787
SYSTEM OF GAUGING PRESSURES
Herbert Allen, Houston, Tex., assignor to Abercrombie Pump Company, Houston, Tex., a corporation
Application June 7, 1938, Serial No. 212,245
3 Claims. (Cl. 73—109)
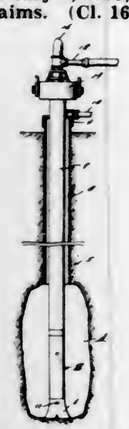


1. A system of gauging pressure along a conduit comprising a series of pressure responsive elements connected to said conduit at spaced intervals, said pressure responsive elements each comprising a post having a passage in communication with said conduit, a curved tube connected to said post in communication with said passage and curved so the free end is opposite to said post, and a removable distance measuring gauge having relative extensible and retractable parts inserted between the free end of one of the tubes and a fixed point on the post for measuring the amount of deflection of the tube as an index of the pressure to which the tube is responsive.

2,312,788
GLASS ENAMELS
Ray Andrews and Robert J. King, Washington, Pa., assignors to B. F. Drakenfeld & Co., Inc., New York, N. Y., a corporation of New York
No Drawing. Application December 9, 1938, Serial No. 244,865
1 Claim. (Cl. 106—49)

A homogeneous enamel flux for glass melting around 1100° F. having higher resistance to acids, alkalies and sulphides, analytically containing substantial percentages of lead oxide, silica and boric acid and also containing sodium oxide about 4%, lithium oxide about 1½%, titanium oxide about 3%, and zirconium oxide about 6%.

2,312,789
WELL TOOL
Peter W. Appleby, Odessa, Tex.
Application February 1, 1939, Serial No. 254,095
4 Claims. (Cl. 166—20)

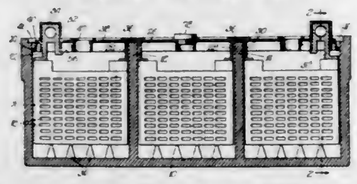


1. A well tool comprising a body having a passage extending from end to end thereof and including means for joining thereto a drill stem and a bit and having oppositely arranged discharge ports in communication with the passage, a sleeve type valve slidable in said body for closing the ports and providing a free passage for fluid pressure through the body by way of the passage therein, an expansion spring engaging the valve for urging the latter into a position for closing the ports, a collapsible protecting sleeve carried by the valve and having external grooves to receive the spring to protect the latter from foreign material passing through the valve and passage of the body, and means for descending through the drill stem to close the sleeve valve to the passing of fluid pressure therethrough and thereby bring about movement of the valve under the influence of the fluid pressure to open the ports and permit the fluid pressure to cleanse walls of the well.

2,312,790
MOTOR FUEL COMPOSITION
William J. Backoff and Norman D. Williams, Chicago, John F. O'Loughlin, Winnetka, Harry L. Moir, Niles Center, and John S. Yule, Chicago, Ill., assignors to The Pure Oil Company, Chicago, Ill., a corporation of Ohio
No Drawing. Application September 21, 1940, Serial No. 357,752
20 Claims. (Cl. 44—56)

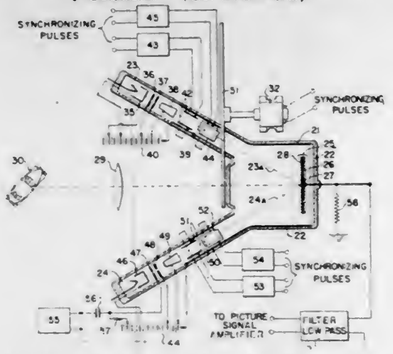
1. A composition useful as a gum solvent comprising ester of aliphatic dicarboxylic acid boiling above 350° having gum-solvent properties at elevated temperatures, and material boiling below 350° F. having gum-solvent properties at normal temperatures and selected from the group consisting of esters of aliphatic acids, aliphatic ketones and aliphatic alcohols.

2,312,791
CORROSION PREVENTING CONNECTING MEANS FOR STORAGE BATTERIES
William F. Bahr, St. Louis, Mo.
Application May 31, 1940, Serial No. 338,192
6 Claims. (Cl. 136—135)



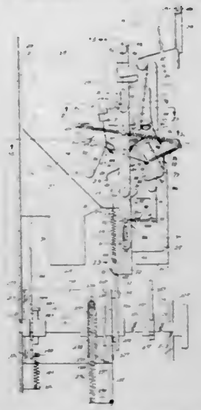
6. A corrosion preventing connecting means for use in coupling a storage battery terminal post to a cable comprising a cavity in said terminal post, an acid resisting hood over said terminal post, a hole through said hood in registry with said cavity, a battery lid for covering a plurality of battery cells, a cable connector shaped so as to seat firmly in said cavity and means for holding the cable connector in assembled relationship with said cavity whereby the points of contact between the cable connector and the cavity are maintained unexposed, said hood being formed integral with said lid.

2,312,792
COLOR TELEVISION SYSTEM
Harry S. Bamford, Glenside, Pa., assignor to Farnsworth Television and Radio Corporation, a corporation of Delaware
Application August 14, 1941, Serial No. 406,743
7 Claims. (Cl. 178—5.2)



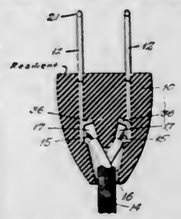
1. A color television system for developing picture signals representative of different colors, in successive fields of an interlaced scanning pattern, comprising means for converting the light image to be transmitted into an electrical charge image, an output circuit coupled to said converting means, means for scanning said charge image with a first medium of predetermined characteristics in accordance with an interlaced scanning pattern to develop a picture signal in said output circuit, means for changing the color of the image light progressively in synchronism with the scanning motion of said first medium, means for scanning the interstices in said interlaced scanning pattern on said charge image with a second medium having different predetermined characteristics following said first-named scanning motion in fixed relationship thereto to neutralize the remaining charges of said charge image after the scanning thereof by said first medium and thereby incidentally developing an interference signal in said output circuit having a distinctive characteristic, and selective means coupled to said output circuit for transmitting said picture signal independent of said interference signal.

2,312,793
COIN-CONTROLLED MACHINE
Harry S. Benjamin, Poughkeepsie, N. Y.
Application October 4, 1940, Serial No. 359,755
17 Claims. (Cl. 194—93)



7. In a coin-controlled machine, a movable operating member, a plurality of levers having coin-holding members thereon, said levers being operable by movement of the operating member, certain levers acting to retain a coin below a coin slot, another of said levers being mounted on and movable with said operating member, a coin retaining passageway, and means responsive to the exceeding of a predetermined stroke for releasing the retaining levers and for moving the lever carried by the operating member to direct the coin into said coin-retaining passageway.

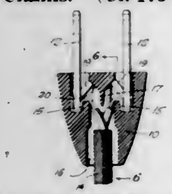
2,312,794
CONNECTOR PLUG
Arthur Brownstein, Bridgeport, Conn.
Application January 5, 1940, Serial No. 312,447
7 Claims. (Cl. 173—361)



2. An electrical contact plug comprising a resilient body having a plurality of blade-receiving slots extending therethrough, said slots having a plurality of seats formed therein, said body having a recess communicating with each slot

adjacent one of said seats; and a blade mounted in each slot, said blade having a pair of shoulders formed thereon lying in the plane of the blade for engaging seats in the slot and a pair of tangs lanced therefrom and bent at an angle to the plane of the blade for forming shoulders in the plane of the blade for engaging other seats in the slot, the portion of the tangs projecting beyond the plane of the blade interlockingly engaging the walls of the recess, the shoulders of the blades cooperating with the seats, and the tangs with the walls of the recess to permanently anchor the blades within the slots.

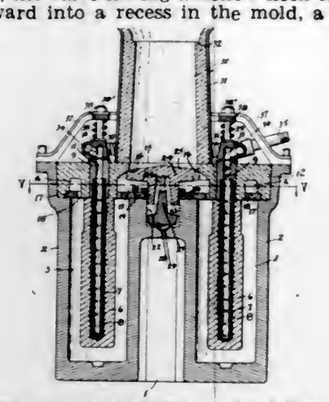
2,312,795
CONNECTOR PLUG
Arthur Brownstein, Bridgeport, Conn.
Application January 5, 1940, Serial No. 312,448
3 Claims. (Cl. 173—361)



1. An electrical connector plug including a single piece body of insulating material, said body comprising a pair of parallel slots extending into the same in one direction, a single cavity extending into the body in opposition to said first direction and a pair of passageways diverging from said cavity, each passageway communicating with a slot intermediate the ends thereof, the one wall of each passageway at the entrance thereof into the slot forming an angularly extending shoulder having a flat surface facing the inner end of the slot; a contact blade disposed in each slot; a cord comprising a pair of conductors received within said cavity, the bared end of each conductor extending through a passageway and reversely bent to lie within the inner end of a slot; and rigid tangs lanced from said blades and disposed adjacent the entrance of said passageways into said slots when the blades are positioned in the latter, each tang being adapted to be forcibly bent over about one end into engagement with its adjacent shoulder, the angularly disposed flat surface intersects the arc through which the end of the tang moves when forcibly bent whereby the end bites therein and locks the blade in the slot and forces the blade inwardly so that the bared end of the conductor is clamped between the end thereof and the inner wall of the slot.

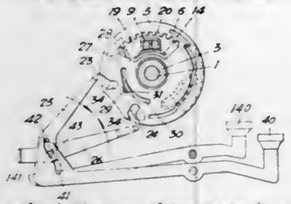
2,312,796
CASTING METALS
Donald J. Campbell, Spring Lake, Mich.
Application October 27, 1941, Serial No. 416,684
5 Claims. (Cl. 22—73)

1. In casting metals, a metal mold comprising a plurality of elongated segmental portions having flat relatively inclined sides in engagement, each portion having a mold cavity therein and extending longitudinally thereof, an annular slab member extending over each mold cavity and having an annular gate opening extending therethrough, a core composition slab extending over all of the mold cavities and engaging the first named slab whereby an annular gate is formed for delivering molten metal to the mold cavities, the second named slab having a runner passage over each of the first named slabs and having connection with a chamber at the axis of the slab with a valve seat therein, a valve engaging the said valve seat and held in engagement therewith by a metal member having a melting point below 1000 degrees Fahrenheit, the valve having a hollow neck extending downward into a recess in the mold, a pedestal



extending upward into the neck of the valve for supporting the said metal member having the low melting point and supporting the said valve and a compressible member supporting the said pedestal, a metal gaging reservoir above the core composition slab for gaging the molten metal to substantially the amount required to fill the mold cavities substantially as described.

2,312,797
LOCKING MECHANISM FOR THE SETTING MEMBERS OF CALCULATING MACHINES
Bengt Carlström, Atvidaberg, Sweden, assignor to Aktiebolaget Facit, Atvidaberg, Sweden, a corporation of Sweden
Application March 5, 1940, Serial No. 322,312
In Germany February 28, 1939
6 Claims. (Cl. 235—130)

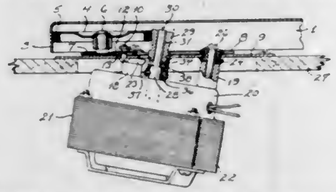


1. In a calculating machine, a series of depressible numeral keys, a setting mechanism including a series of pin wheels and a rotatable cam disc associated with each pin wheel for effecting the setting of the pins of the respective wheels, a detent for each pin wheel and its associated cam disc to positively lock the pin wheel and cam disc to each other in the zero position of the pin wheel, and a lever operable by the depression of any of said series of numeral keys for effecting release of said detent and rotation of the cam disc in a timed relation to each other.

2,312,798
SPEED COMPENSATING MEANS FOR PHONOGRAPH TURNTABLE DRIVES
Blake W. Carrington, Elyria, Ohio, assignor to The General Industries Company, Elyria, Ohio, a corporation of Ohio
Application November 13, 1941, Serial No. 418,870
4 Claims. (Cl. 74—206)

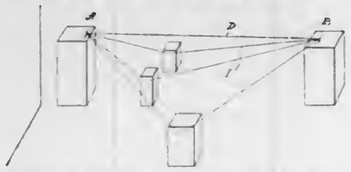
1. In a mechanical movement, the friction

gearing mechanism comprising a rotatable driven element, a driving roller and an intermediate roller having a peripheral frictional surface engageable at different points of its periphery with the said driven element and said driving roller, an idler shaft for said intermediate roller on which said intermediate roller is journalled for relative longitudinal rotative movements, and a driving shaft for said driving roller, the axes of said rollers being relatively inclined one to the other at an acute angle, said intermediate roller having a relatively narrow peripheral frictional surface and the driving roller having a relatively broader tapered frictional surface proceeding in the direction of its longitudinal axis, and longitudinally extending portions of said tapered surface being inclined to



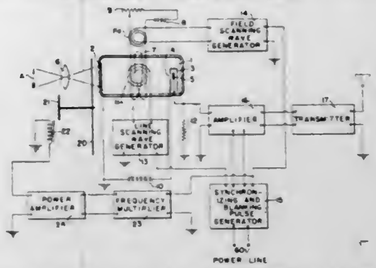
said axis at an acute angle approximately corresponding to the said angle of inclination of said roller axes, flexible driving connection means between points on said driving roller and said driving roller shaft which points are disposed substantially laterally of said driving roller axis, and means yieldably exerting pressure on said driving roller tending to move it axially on its shaft in the direction of the portion in which the diameter of its tapered surface is increased to effect frictional engagement between said intermediate roller and said driving roller tapered surface which is of relatively lesser diameter and said flexible means variably limiting the effect of said pressure means on said driving roller according to varying loads imposed on said rotatable driven element in creating varying torque effects between said driven and driving rollers.

2,312,799
ULTRA SHORT WAVE SYSTEM
Philip S. Carter, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application February 1, 1941, Serial No. 377,003
4 Claims. (Cl. 250—11)



1. An ultra short wave radio system for the transmission and reception of waves below ten meters, comprising a transmitter station and a receiver station spaced apart within the line of sight of each other and located in an area having objects which reflect the rays emanating from the transmitter, an antenna arrangement at said transmitter for radiating along substantially said line of sight in a direction toward the receiver circularly polarized radio waves having a particular direction of rotation, and an antenna arrangement at said receiver responsive to circularly polarized waves of substantially only said direction of rotation.

2,312,800
COLOR TELEVISION APPARATUS
Madison Cawein, Marion, Ind., assignor to Farnsworth Television and Radio Corporation, a corporation of Delaware
Application August 15, 1941, Serial No. 406,952
9 Claims. (Cl. 178—5.4)

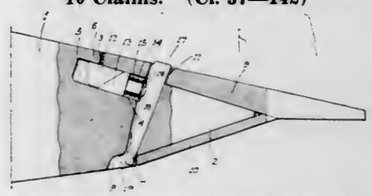


1. An arrangement for transmitting television pictures in natural colors having a photosensitive member, means for projecting an optical image of the object to be transmitted on said member, means cooperating with said photosensitive member for developing picture signals representative of the light characteristics of successive elemental areas of said image in accordance with cyclically recurring scanning field patterns, color filtering means having sections of different color transmitting characteristics disposed in the optical path between said projecting means and said photosensitive member for successively selecting different color components from the light emanating from predetermined areas of said object thereby correspondingly to change the color of the image light incident upon said photosensitive member in such manner that said color continuously and repeatedly drifts between the two ends of the visible spectrum, and means for moving said filtering means at such a speed that the color repetition period and the field scanning interval are in non-integral relationship with each other.

2,312,801
INSECTICIDE
W E Craig, Philadelphia, and William F. Hester, Drexel Hill, Pa., assignors to Röhm & Haas Company, Philadelphia, Pa.
No Drawing. Application June 28, 1940, Serial No. 342,894
5 Claims. (Cl. 167—30)

1. An insecticidal composition in which the active principle is a methallyl ether of nitro-substituted phenols of the benzene and naphthalene series.

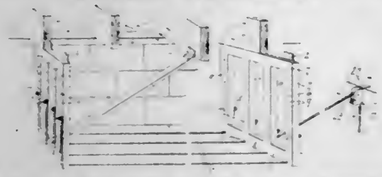
2,312,802
LOCKING DEVICE FOR BUCKET TEETH
Arthur N. Crawford, Foresthill, Calif.
Application January 31, 1942, Serial No. 429,041
10 Claims. (Cl. 37—142)



3. In a two-part digger tooth, one part comprising a body adapted to be mounted on and project from a digger, and a tongue projecting

forwardly from the body; and a separate point comprising a forwardly projecting blade member and a depending rearwardly open socket member to receive the tongue; a retaining tongue projecting rearwardly from the blade, the body having a forwardly facing socket at its forward end to receive the retaining tongue, the first-named tongue having a keyway therethrough ahead of the socket and said separate part having a key slot registering with the keyway when the retaining tongue is in the socket, a key adapted to be removably driven through the slot and keyway, and a longitudinally compressible unit mounted on the body between and engaging the key and retaining tongue, said unit being compressed by the key upon driving of the latter whereby to exert a yieldable holding pressure against the retaining tongue.

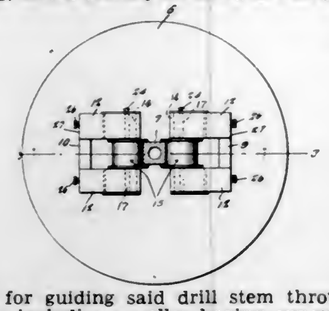
2,312,803
RETRACTABLE CLOTHESLINE SUPPORT
Frederick B. Curtenius, Kalamazoo, Mich.
Application March 12, 1942, Serial No. 434,406
5 Claims. (Cl. 211—118)



3. In an apparatus of the class described, a pair of vertical frames in spaced opposed relationship hinged at their tops on spaced parallel horizontal axes to swing in the same direction from their vertical opposed position to a horizontal position in which both lie in substantially the same plane, each frame including a horizontal bottom member, a plurality of clotheslines extending between said frames, the length of the clotheslines between the frames being substantially equal to the distance between the tops of the frames, an automatic cord lock and pulley disposed substantially at the level of the top of said frames and beyond said frames in the direction in which they swing from vertical to horizontal position, a line extending through said automatic cord lock from the bottom member of the frame nearest said cord lock, and stop means adapted to engage the bottom of the other frame to resist swinging movement thereof in the direction of the cord lock comprising a rigid member hinged at one end at a point substantially on a level with the tops of said frames and between said frames and adapted to engage the bottom of said other frame in abutting relationship when it is in vertical position and adapted to slide upon said bottom member when the frame swings and to rest upon said bottom member for support substantially in the plane of said frames when said frames are in horizontal position.

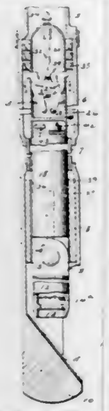
2,312,804
GUIDE FOR KELLY BARS
Oscar L. Derrick, Wichita Falls, Tex., assignor of five-twelfths to D. Houston Bolin and four-twelfths to Henry L. Rugely, both of Wichita Falls, Tex.
Continuation of application Serial No. 263,997, March 24, 1939. This application February 13, 1940, Serial No. 318,767
12 Claims. (Cl. 308—6)

1. A guide for a drill stem comprising a body having an opening therein adapted to receive the drill stem, said body having means forming a pair of guideways on opposite sides of the centered axis of the opening and extending laterally at an angle to said axis, said guideways having the outer end portions thereof closed and having inner end portions thereof open to the opening, blocks slidably mounted in said guidings,



means for guiding said drill stem through the opening including a roller having opposite ends thereof mounted in the blocks with the axis of said roller between the upper and lower confines of the guideways and adjustable by the blocks toward and from the axis of the body opening, and means for securing the roller in adjusted positions relative thereto.

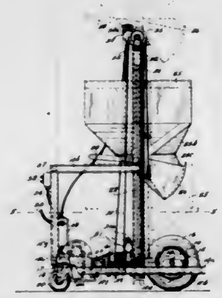
2,312,805
MEANS FOR LATERALLY ENTERING SUBTERRANEAN STRATA AND WITHDRAWING THE PORE CONTENT THEREOF
Leslie A. Douglas, San Antonio, Tex.
Application June 19, 1941, Serial No. 398,836
7 Claims. (Cl. 255—1.4)



6. The combination with a drill pipe, of a cylindrical body supported from the lower end of the drill pipe and having an opening in its side, an upwardly facing inclined deflecting surface carried by said body adjacent the lower portion of said opening, a unit of such dimensions that it may be dropped bodily through the drill pipe, said unit comprising a vacuum chamber and a strata penetrating tool, a knuckle joint connecting the tool and vacuum chamber, means for conducting fluids and gases from the tool to the vacuum chamber and through said knuckle joint in all positions of the latter, the lower end of the tool being shaped to engage the inclined deflecting surface to cause the tool to swing outwardly upon the knuckle joint and through the opening of the cylindrical body, means spanning and

sealing the mouth of the tool to maintain the vacuum in the vacuum chamber until said means is ruptured by the entry of the tool into well strata, the lower end of the tool being provided with a cutting edge adapted to engage the well side wall and hold the tool against downward movement when the vacuum chamber moves further downward.

2,312,806
MATERIAL HANDLING DEVICE
Verner G. Ellen, St. Paul, Minn.
Application September 11, 1940, Serial No. 356,245
7 Claims. (Cl. 214—117)

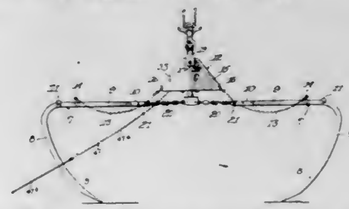


1. A device for handling material having in combination, a frame, a lower substantially horizontal portion adjacent the floor or supporting surface, wheels supporting said frame, spaced standards upstanding at the sides of said frame, members guided by said standards respectively, a receptacle secured to and disposed between said last mentioned members, said receptacle having a discharge outlet adjacent its bottom, a pulley adjacent the top of each standard, a cable running over each of said pulleys, the ends of said cables being secured to said receptacle, a windlass drum to which said cables are connected and about which they extend in opposite directions so as to be wound up or on said drum or unwound according to the rotation of said drum, a motor on said frame, means for driving said drum from said motor, a pulley disposed at each side of said drum substantially in horizontal alignment therewith, said cables running over said last mentioned pulleys respectively before passing to said drum and screws upon which said last mentioned pulleys are respectively mounted so that said pulleys will move lengthwise of said drum for guiding said cables thereto.

2,312,807
RESINOUS PRODUCT FROM CELLULOSIC SUBSTANCES
Eduard Färber, New Haven, Conn., assignor to Polyxor Chemical Co., Inc., New Haven, Conn., a corporation of New Jersey
No Drawing. Application October 24 1939, Serial No. 300,983
10 Claims. (Cl. 260—9)

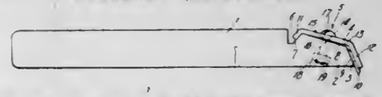
1. The method of producing a resinous material which consists in mixing a cellulosic substance with at least one material selected from the group consisting of the resin acids of the kinds that are found in tall oil and mixtures of such acids and the fatty acids of the kinds that are found in tall oil, the quantity of said acidic material being at least about equal by weight to the quantity of the cellulosic substance, heating the mixture of cellulosic substance and acidic material to a temperature of at least about 300° C., and keeping the mixture at at least about such a temperature until the resinification has taken place.

2,312,808
GRAPPLE FORK
Howard J. Ferris, Harvard, Ill., assignor to Starline, Inc., Harvard, Ill., a corporation of Illinois
Application June 3 1942, Serial No. 445,555
27 Claims. (Cl. 294—109)



1. A grapple fork comprising tines, a head, means connecting said tines to said head, a movable member, means connecting said tines inwardly of their points of connection with said first-named means, to said member, releasable locking means for holding said member to said head and an actuatable element engaging said member and controlling said locking means, said releasable locking means comprising a rock member, a third member movable on said head, cooperating jaws for interlockingly engaging with said first-named member, one of said jaws being on said third member, means whereby said third member becomes disengaged from said first-named member when said rock member is rocked in one direction, the point of engagement of said fourth-named means with said third member and the pivot of said rock member, when said jaws are interlocked with said first-named member, being in a plane substantially at a right angle to the line of movement of said first-named member, and means yieldingly resisting rocking movement of said rock member out of a position in which said jaws are interlocked with said first-named member, said actuable element operative when drawn on to said rock member in a direction to release said first-named member.

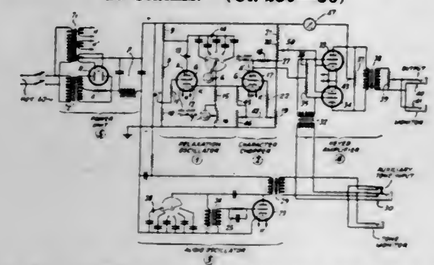
2,312,809
SCRAPER
Arthur T. Fletcher, Bristol, Conn.
Application April 18, 1941, Serial No. 389,127
9 Claims. (Cl. 30—171)



1. In a scraper, a holder having spaced relatively inclined diverging faces on its working end, and a top surface therebetween, one of said faces forming a blade abutment on the extremity of said holder and the other of said faces being remote from said abutment, and clamping means for pressing a blade against said abutment including a clamping member pivotally engaging said holder at a point remote from said extremity and having spaced depending portions, one clamping said blade against said abutment and

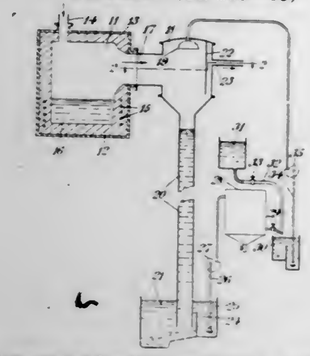
the other engaging said remote face on the holder, and means for moving said clamping member about its pivot on said holder.

2,312,810
SIGNAL GENERATOR
James L. Finch, Patchogue, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application February 24, 1940, Serial No. 320,523
19 Claims. (Cl. 250—36)



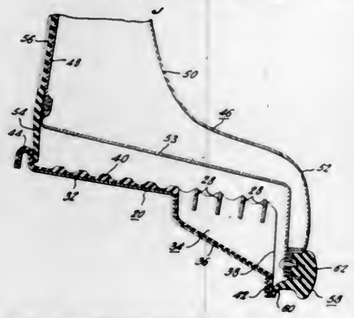
1. In combination, a relaxation oscillator, an amplifier, an audio frequency oscillator whose output is coupled to the input of said amplifier, an electric tube coupling said relaxation oscillator and said amplifier and responsive to the operation of said relaxation oscillator for periodically interrupting the output from said amplifier, whereby there are produced signal characters in accordance with said interruptions, and means for controlling the weight of said signal characters.

2,312,811
DISTILLATION AND CONDENSATION OF METALS
Henri Louis Gentil, Cardiff, Wales, assignor to Alloy Processes Limited, Alderbourne, Buckinghamshire, England, a British company
Application October 8, 1941, Serial No. 414,200
In Great Britain May 31, 1940
5 Claims. (Cl. 266—19)



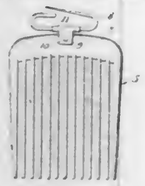
1. Apparatus for the distillation and condensation of metals comprising in combination a furnace chamber having a vacuum-tight casing, means to heat the chamber, a metallic-vapour outlet in the upper part of said chamber, a condensation chamber connected to the metallic-vapour outlet, a collecting column depending from the condensation chamber, a sump at the bottom of the column and means for circulating cooling liquid out of said chamber through the column from the sump and back to the chamber, a spraying device for distribution of cooling liquid in the chamber, a baffle behind the spraying device, and an outlet behind the baffle to a vacuum pump.

2,312,812
AUTOMOBILE BODY CONSTRUCTION
Harvey D. Geyer, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application August 27, 1940, Serial No. 354,415
4 Claims. (Cl. 296—44)



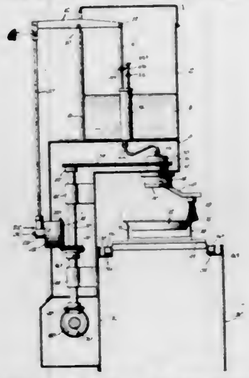
3. A body construction for a vehicle comprising, a body, a door attached to the body and adapted to close an opening therein, a running board attached to the body, said door when closed concealing said running board completely, and a plurality of spaced sealing strips carried by said door and adapted to engage portions of said running board which are spaced from one another when the door is in closed position whereby the interior of the body is sealed by means of said strips, one of said strips being a combined bumper and sealing strip extending along the outer bottom edge of the door and having the bumper portion bulging outwardly from the outer surface of the door near its outer bottom edge, and the sealing portion thereof projecting inwardly from said bottom edge, said bottom edge of the door being spaced from a vertical wall of the running board when the door is in closed position, said space being sealed by said sealing portion of said combined bumper and sealing strip.

2,312,813
HAT RETAINER
Joseph Goldstein and Charles A. Marks, New York, N. Y.
Application June 17, 1941, Serial No. 398,398
1 Claim. (Cl. 132—65)



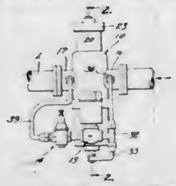
A comb comprising a basal portion and prongs extending therefrom in one direction, a yoke engaging and secured to the free end of the basal portion and provided with an extension in the direction opposite to that of the prongs, a sleeve at the end of the extension parallel to the said edge of the basal portion and a safety pin carried by the sleeve.

2,312,814
METHOD AND APPARATUS FOR MAKING PIES
Lloyd J. Harriss, Kenilworth, and Bernard Lambers, Oak Park, Ill.; said Lambers assignor to said Harriss
Application May 16, 1941, Serial No. 393,737
11 Claims. (Cl. 107—54)



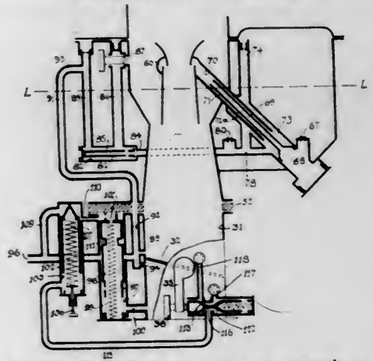
1. In combination with a conveyor system for preparing a pastry, a device for applying a predetermined amount of liquid to said pastry, said device comprising a measuring chamber for said liquid, a movable element for applying the liquid to said pastry, means for flowing the liquid from said measuring chamber to said movable element, control means for controlling the flow of said liquid from said chamber to said element, a driving mechanism, means operatively associated with said driving mechanism for moving said element, and means operatively associated with said driving mechanism for actuating said control means at predetermined intervals in synchronism with the movement of said element.

2,312,815
VALVE MECHANISM
Herbert Harvey, Los Angeles, Calif., assignor to Leo M. Harvey, La Canada, Calif.
Application August 14, 1940, Serial No. 352,585
5 Claims. (Cl. 137—139)



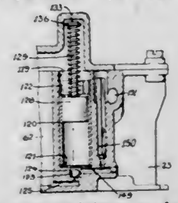
1. Means for controlling delivery from a fluid pressure supply line including a main valve comprising a body interposed in the line, and a closure movable in the body in response to applied fluid pressure and operable to cut off and regulate flow from the supply line, a pressure conduit for conducting fluid pressure from the supply line to the body to urge the closure toward its closed position, a bleed line of much smaller fluid capacity than the supply line, and connected with the pressure conduit as an appendage of the body, for bleeding fluid pressure from the pressure conduit, a separate valve in the bleed line operable by increased pressure in the bleed line to decrease the flow through the bleed line and operable to allow an increased flow through the bleed line upon a reduction in pressure in the bleed line whereby the closure is made to pass a given volume of fluid in a given time regardless of the pressure in the supply line, and a separate valve in the bleed line at the upstream side of the second named valve relative to the direction of flow in the bleed line for closing the bleed line to cause closing of the closure.

2,312,816
CARBURETOR
Victor R. Heftler, Grosse Pointe Park, Mich.
Application July 30, 1940, Serial No. 348,431
6 Claims. (Cl. 261—69)



6. In a carburetor, a main air conduit, a throttle therein, an idling by-pass discharging into said conduit, an operating valve normally under the influence of manifold suction on both sides thereof, means opened by said valve to admit air into said idling by-pass, a pilot valve under the influence of said manifold suction and means opened thereby to admit air to one side of said operating valve to cause its operation.

2,312,817
CYLINDER LINER
Victor R. Heftler, Grosse Pointe Park, Mich.
Original application July 30, 1940, Serial No. 348,431. Divided and this application January 7, 1941, Serial No. 373,459
3 Claims. (Cl. 309—3)

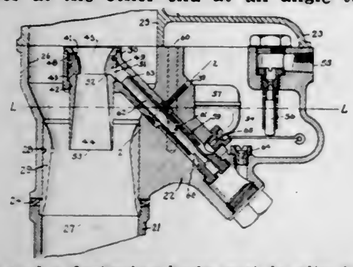


1. A pump comprising a body in which is formed a bored hole, a liner slidably inserted in said hole, a resilient gasket in the bottom of said hole and separate friction means acting directly upon said hole to hold said liner in said hole and to compress said gasket.

2,312,818
CARBURETOR
Victor R. Heftler, Grosse Pointe Park, Mich.
Original application July 30, 1940, Serial No. 348,431. Divided and this application January 7, 1941, Serial No. 373,460
5 Claims. (Cl. 261—1)

1. In a carburetor a body having a main air

conduit, a lateral hole in said body, a liquid fuel supply nozzle structure having at one end a tubular shank to enter said hole and a fuel delivery member at the other end at an angle to said



shank and a fastening body cast in situ in said hole to secure and accurately position said nozzle structure in said body and to form a leakproof closure therebetween.

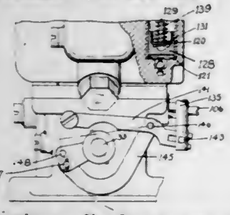
2,312,819

PISTON AND ROD CONNECTION FOR PUMPS

Victor R. Heftler, Grosse Pointe Park, Mich.

Application January 7, 1941, Serial No. 373,459, which is a division of application Serial No. 348,431, July 30, 1940. Divided and this application August 8, 1942, Serial No. 454,166

4 Claims. (Cl. 309—17)



3. A piston having a diaphragm secured thereto, a piston rod having close to each of its ends a portion of smaller size than the adjacent end, an eccentric aperture in said diaphragm wider than one end of said rod, a central aperture in said diaphragm connected to said eccentric aperture to admit only the rod portion of reduced size adjacent said end, slidable means surrounding each end of said rod, a pair of protuberances on said diaphragm to hold said rod against lateral displacement when said slidable means are inserted between said rod and said protuberances, a bracket having a slot to admit the portion of said piston rod of reduced size adjacent the other end thereof, a pair of protuberances on said bracket to hold said other end against lateral displacement when said slidable means are inserted between said rod and said protuberances and means to actuate said bracket.

2,312,820

METHOD FOR REMOVING MERCAPTANS FROM PETROLEUM OIL

Lawrence M. Henderson, Winnetka, and George W. Ayers, Jr., Chicago, Ill., assignors to The Pure Oil Company, Chicago, Ill., a corporation of Ohio

No Drawing. Application March 14, 1941, Serial No. 383,340

15 Claims. (Cl. 196—30)

1. In a method for removing weakly acidic organic sulfur compounds from otherwise substantially neutral hydrocarbon fluids, the step which comprises contacting said fluids with aqueous alkaline solution containing a hydrolyzable salt of an unsubstituted organic acid having at least one carboxyl group attached to aliphatic carbon but having one or more alkyl hydrogens replaced by halogen.

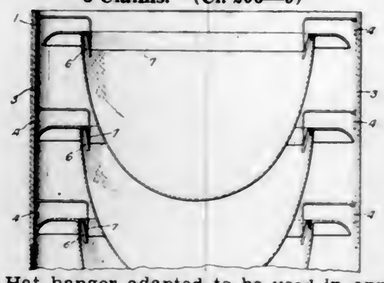
2,312,821

MEANS FOR STACKING ARTICLES

Jacob R. Jason, New York, N. Y.

Application April 18, 1940, Serial No. 330,386

5 Claims. (Cl. 206—9)



1. Hat hanger adapted to be used in opposed pairs to suspend a hat in a hat box, comprising a resilient bent wire member having its hatward end including a middle loop with bight upstanding adapted to engage behind the sweat band of an inverted hat, and wire portions adjacent the lower ends of the sides of said middle loop bent upward and outward substantially in a vertical plane, and having a boxward end comprising a pair of loops with downwardly extending bights adapted to seat in horizontally disposed retaining sockets on the side of a hat box, and horizontal arms connecting said downwardly extending loops to said vertically disposed wire portions, said arms diverging in a boxward direction at such repose angle as to space the downwardly extending loops a greater distance apart than the sockets with which they are designed to cooperate.

2,312,822

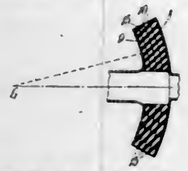
RESILIENT SUSPENSION, PARTICULARLY FOR BODIES DRIVEN WITH A ROTARY MOTION

Maurice François Alexandre Julien and Yves André Rocard, Paris, France; vested in the Alien Property Custodian

Application July 13, 1938, Serial No. 219,102

In France July 15, 1937

1 Claim. (Cl. 170—177)



Driving means for an aircraft propeller comprising a drive shaft, spaced concave and convex spherical surfaces respectively fixed in relation to the shaft and propeller and located laterally with respect to the propeller, said surfaces having a common centre of curvature coincident or substantially coincident with the centre of gravity of the propeller, resilient material between and connected to said surfaces whereby the propeller can move angularly about said centre against the action of the resilient material and metal plates embedded in the resilient material and of spherical curvature concentric with said spherical surfaces to limit compression of the resilient material in all directions radially with respect to said spherical surfaces.

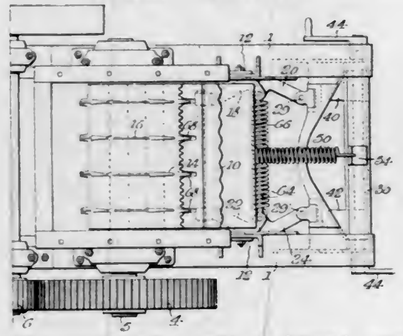
2,312,823

CRUSHER PLATE SUPPORT FOR ROLL CRUSHERS

George E. Krider, Duncansville, Pa.

Application July 15, 1941, Serial No. 402,528

3 Claims. (Cl. 83—53)



1. The combination with a hinged crusher plate, said crusher plate cooperating with a crusher roller in a frame, a crusher plate adjusting bar mounted in the frame, means for moving said crusher bar towards and away from the crusher plate, outwardly diverging double link connections between the bar and the plate, a contractible spring connecting said double links at opposite sides of the plate, of a limiting device connecting said double links and located between the double links and forming means for limiting the movement of the plate towards the crusher roller.

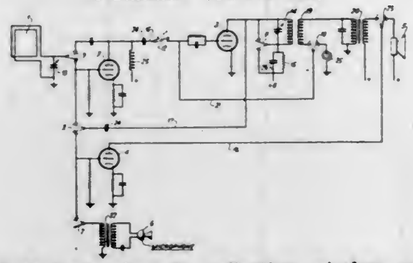
2,312,824

COMMUNICATION SYSTEM

Fred H. Kroger, Los Angeles, Calif., assignor to Radio Corporation of America, a corporation of Delaware

Application August 17, 1940, Serial No. 353,004

6 Claims. (Cl. 179—82)



1. A transceiver for effecting wireless communication between stations spaced apart a very short distance, comprising an inductor, an electron discharge device circuit for generating and impressing upon said inductor a sinusoidal low-frequency carrier current, said low frequency being of such order that at distances from the transceiver where the induction field is smaller than the radiated field the intensity of said radiated field is too small to cause interference with other signalling systems, a switch for converting said electron discharge device circuit from a generator of low frequency carrier current to a detector of low frequency carrier current, a loudspeaker, a microphone, an additional switch for operatively associating either said loudspeaker or said microphone with said device, whereby said loudspeaker is connected to the output of said device when said circuit functions as a detector and said microphone is connected to said device when said circuit functions as an oscillator.

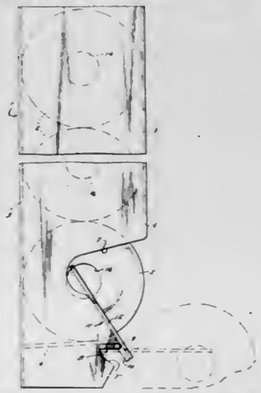
2,312,825

TOILET PAPER ROLL HOLDER

Charles Joseph Leveque, Goose Creek, Tex.

Application January 22, 1942, Serial No. 427,815

3 Claims. (Cl. 242—55.3)



1. A toilet paper roll holder of the character described comprising a magazine for the reception of a stack of paper rolls, said magazine having a discharge opening therein for the rolls, and a pair of tongs mounted for swinging movement on the magazine, said tongs being engageable in the lowermost roll for withdrawing same from the magazine and for rotatably supporting said lowermost roll exteriorly of said magazine.

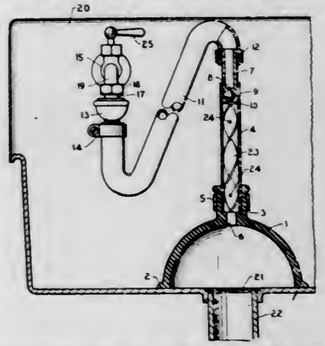
2,312,826

HYDRAULIC CLEANER FOR DRAINS AND THE LIKE

Joseph Leyden, Marshall, Mich.

Application March 25, 1941, Serial No. 385,201

6 Claims. (Cl. 4—256)



1. A hydraulic drain cleaner, which comprises a plunger cup, means for connecting said plunger cup to a suitable source of fluid supply, a check valve, said check valve being adapted to substantially prevent back flow of fluid through said connecting means toward said source of supply,

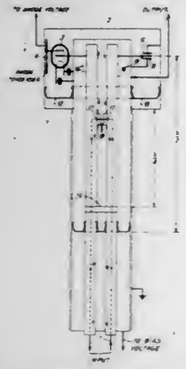
and means to cause fluid flowing through said connecting means into said plunger cup to assume a curved path in the latter.

2,312,827

COUPLING CIRCUIT

Nils E. Lindenblad, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Original application June 19, 1937, Serial No. 149,054. Divided and this application September 25, 1941, Serial No. 412,266
11 Claims. (Cl. 178—44)



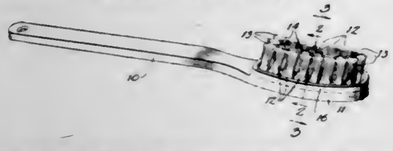
1. A coupling circuit for use between a source of high frequency currents and a load, comprising a section of two-conductor line each conductor of which is hollow, an electrically conducting bridge connected across said conductors, each conductor of said line having an aperture therein located from said bridge a distance equal to an odd multiple including unity of one-quarter wave-length at the operating frequency, and another section of two-conductor line passing through said apertures and in energy transfer relation to said first section of line, said load being connected to one of said line sections and said source being connected to the other of said line sections.

2,312,828

TOOTHBRUSH

Emil G. Adamsson, Chicago, Ill.

Application November 30, 1940, Serial No. 367,977
1 Claim. (Cl. 15—167)



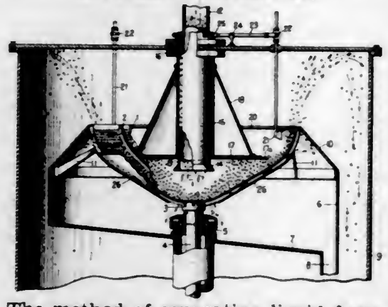
A bristle tooth brush comprising outer and intermediate longitudinally extending rows of bristle tufts, the tufts of the intermediate row inwardly of the end tufts thereof being shorter than the tufts of the adjacent outer rows and shorter than said end tufts, thereby providing in the working face of the brush, a longitudinal groove closed at its sides and ends by surrounding bristle tufts, said groove having a depth less than the depth of said surrounding bristles and being operative to seat and confine, both laterally and endwise, a body of dentifrice deposited therein.

2,312,829

METHOD AND APPARATUS FOR SEPARATING LIQUIDS FROM SOLIDS

Byron M. Bird and Frank P. Smith, Columbus, Ohio, assignors to Battelle Memorial Institute, Columbus, Ohio, a corporation of Ohio

Application January 3, 1940, Serial No. 312,256
15 Claims. (Cl. 210—73)



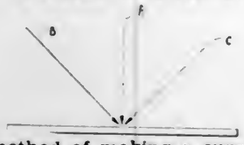
1. The method of separating liquid from solid material which comprises centrifuging said material to effect the separation of the liquid from the solid material and using centrifugal force alone to cause the movement of the solid material towards the point of discharge, and utilizing air jets directed outwardly at the point of discharge only to control the discharge of the solid material.

2,312,830

METHOD OF MAKING DRAWN, PRESSED, OR STAMPED CUPPED OBJECTS OF METALS AND ALLOYS

Byron E. Eldred, Scarsdale, N. Y., assignor to Continuous Casting Corporation, New York, N. Y., a corporation of Delaware

Application February 8, 1941, Serial No. 378,024
6 Claims. (Cl. 148—2)



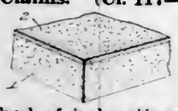
3. The method of making a cupped article of a metal amenable to cupping and drawing operations which comprises melting said metal, and draw-casting it into a cylindrical bar, slicing said bar in a direction substantially perpendicular to the axis thereof into disc blanks, cupping said blanks, working the central portion of the blanks in addition to that required by the cupping operation and annealing the blanks, whereby to establish a uniform micro-crystalline structure throughout the finished product.

2,312,831

INDURATED FIBROUS MATERIAL AND PROCESS OF MAKING THE SAME

Armin Elmendorf, Winnetka, Ill.

Application June 22, 1940, Serial No. 341,809
15 Claims. (Cl. 117—65)



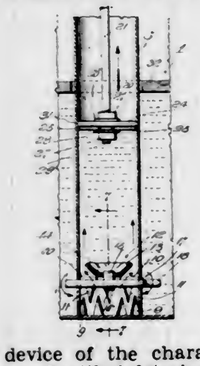
12. The method of indurating a board of the fibrous porous insulating board type, which comprises covering a face of the board with a layer of hardwood pitch, and placing the assembly in a hot press and subjecting it to some pressure and to a temperature of at least 175° C. for a period of from about forty-five seconds to four minutes.

2,312,832

VALVE FOR GREASE DISPENSERS

Samuel J. Goldwater, Abernathy, Tex., assignor of two-thirds to Oscar O. Funderburg and Walter W. Blackburn, Elk City, Okla.

Application September 22, 1941, Serial No. 411,927
6 Claims. (Cl. 251—119)



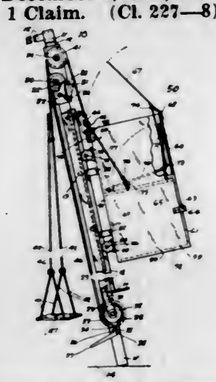
5. In a device of the character described, a cylinder formed with inlets in its lower portion spaced from each other circumferentially of the cylinder, tongues extending inwardly from the wall of the cylinder at upper ends of the inlets, a pliable disc resting on said tongues for closing spaces between the tongues and adapted to be flexed upwardly to open position, and a fastener connected with the central portion of the disc and extending transversely of the cylinder under the tongues and through certain of the inlets to hold the disc in place.

2,312,833

FIRE ESCAPE ELEVATOR LADDER

Isaiah Graham, Omaha, Nebr.

Application December 4, 1941, Serial No. 421,678
1 Claim. (Cl. 227—8)



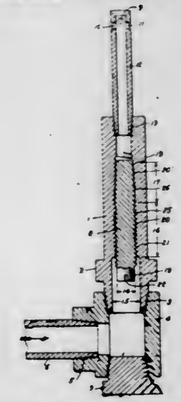
A fire escape apparatus comprising a ladder adapted to be leaned against an outer wall of a building, said ladder having side rails convergently disposed toward the top thereof, a guide track disposed between said side rails, a pulley at the upper end of said ladder, an escape car having guide blocks for sliding engagement with said guide rail, a winding drum at the lower end of said ladder, a cable disposed over said pulley having an end attached to said drum and an opposite end secured to said car for raising said car, an axle at each end of said car, an elongated roller at each end of each axle for engagement with said convergent side rails during sliding movements of said car, and means for governing the speed of a descent of said car along said ladder.

2,312,834

GAS PILOT BURNER

Otto W. Hahn, San Francisco, Calif., assignor to Industrial Research Laboratories, Ltd., San Francisco, Calif., a corporation of Nevada

Application January 12, 1942, Serial No. 426,411
4 Claims. (Cl. 138—43)



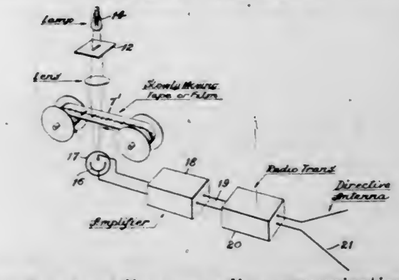
1. In a gas pilot burner having an internally threaded gas supply passage with a threaded screw plug throttling element screwed therein, the exterior of the thread of said passage being tapered to smaller diameter toward one end of the passage and the screw plug similarly tapered at one end, and the tips of the threads of one of the members being removed but the threaded element being otherwise a snug threaded fit within the passage at all points of adjustment therealong.

2,312,835

SHORT WAVE RADIO SYSTEM

Clarence W. Hansell, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

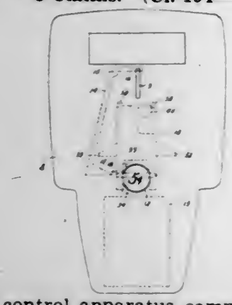
Application March 4, 1941, Serial No. 381,605
12 Claims. (Cl. 250—6)



1. In a long distance radio communication system employing short waves in the range substantially from 10 to 200 meters, the method of overcoming multipath distortions in signaling between the transmitter and the remote re-

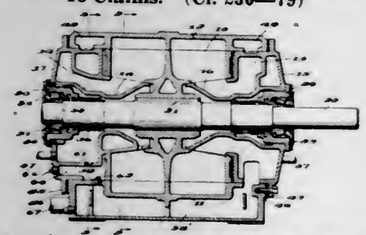
ceiver which comprises first storing the signals at the transmitter end, then transmitting the signals over the radio circuit at appreciably reduced speed with frequency modulated waves, receiving the frequency modulated signal waves at the receiving end and storing the same at the said reduced speed, and then translating the stored signals at the receiver end at an increased speed approximating the speed at which the original signals were stored at the transmitter end.

2,312,836
COIN CONTROL APPARATUS
William Foy Herschede, Forestville, and William N. Woodruff, Cincinnati, Ohio, assignors, by mesne assignments, to International Vehicular Parking, Ltd., Washington, D. C., a corporation of Delaware
Application November 1, 1938, Serial No. 238,230
8 Claims. (Cl. 194—1)



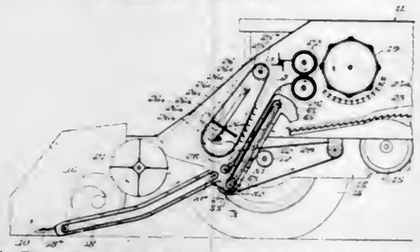
5. Coin control apparatus comprising in combination, a coin chute body providing a coin passageway open at its ends to provide a coin entrance port and a coin delivery port and including a straight portion, said body including an auxiliary exit intermediate the straight portion of said body for laterally accommodating coins from the passageway in advance of the delivery port in the event the delivery port is blocked, and a bumper located outside of the passageway and at sufficient distance from the auxiliary exit to be out of contact by a coin passing through the same when the delivery port is blocked but in a position to intercept and throw back into the passageway a coin ejected through the auxiliary exit as by suddenly jarring the apparatus in a direction transversely of the normal direction of coin travel through the passageway.

2,312,837
PUMP
Irving C. Jennings, South Norwalk, Conn.
Application December 20, 1939, Serial No. 310,218
In Great Britain December 21, 1938
18 Claims. (Cl. 230—79)



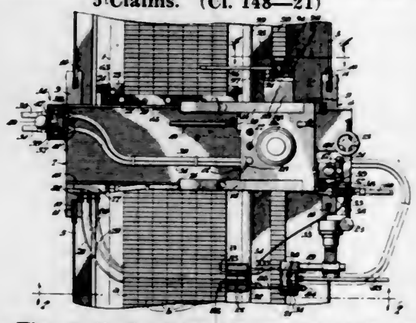
1. A pump structure comprising a base, a lobe casing split horizontally to form upper and lower casing sections, a port member extending axially inwardly of said casing, and having a passage communicating with the interior of the casing, said port member having a section shaped, constructed and arranged to provide a casing head, a pump impeller within said casing, said casing head being so proportioned with respect to the cross sectional dimensions of the split casing as to provide, when removed from the assembly, for ready removal of said impeller through the exposed head end of the casing, and means mounting said port member with its head section, and upper casing section independently of each other, whereby said upper casing section may be removed while said port member and head section is retained in position.

2,312,838
HARVESTER-THRESHER
Roy B. Johnston, Moline, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application September 25, 1940, Serial No. 358,255
9 Claims. (Cl. 130—27)



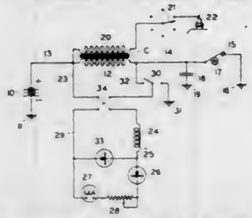
4. In a construction comprising a separator provided with a threshing cylinder, a deck inclined upwardly toward the threshing cylinder, and a first conveyor for feeding grain to be threshed upwardly along the deck toward the cylinder, the combination therewith of a second conveyor extending from the lower end of the deck therebeneath to the separator for transferring to the separator grain threshed by the first conveyor and fallen to the lower end of the deck.

2,312,839
FLAME HARDENING OF RACK BARS
Alfred Kullman and Thomas A. Waltz, Cincinnati, Ohio, assignors to The American Tool Works Company, Cincinnati, Ohio, a corporation of Ohio
Application May 15, 1941, Serial No. 393,594
5 Claims. (Cl. 148—21)



1. The method of hardening the teeth of a rack without burning the edges and corners thereof, which comprises bounding the rack at each side thereof with metal buffer members which are in metal to metal contact with the rack itself, and then passing a flame across the tooth of the rack and quenching the metal of the tooth of the rack after it has been heated to hardening temperature.

2,312,840
ELECTRICAL MEASURING APPARATUS
Benjamin C. Lansdale, San Francisco, Calif., assignor to Echlin Manufacturing Company, San Francisco, Calif., a corporation of California
Application January 30, 1939, Serial No. 253,516
7 Claims. (Cl. 177—311)



5. Means for measuring the dwell of the periodic breaker means of an ignition system having a source and an induction coil primary in series with said means, comprising a voltmeter connected in parallel circuit with said primary and a rectifier in series with the voltmeter in said parallel circuit, the rectifier having such a polarity that said source when applied to said primary is also applied to said voltmeter through minimum resistance, but when the breaker means disconnects the source the reverse voltage from said primary is applied to said meter through a maximum resistance.

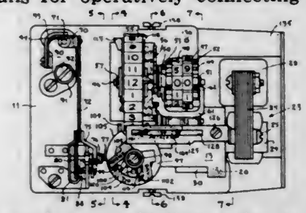
2,312,841
PROTECTIVE ARMOR
Howard B. Lewis, Venice, Calif., assignor to B. F. McDonald Company, Los Angeles, Calif., a corporation of California
Application August 28, 1940, Serial No. 354,480
4 Claims. (Cl. 36—30)



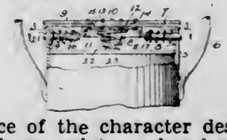
1. A flexible protector metal sole having a portion of greater flexibility than the remaining portion comprising a fabric support impregnated with a bonding agent, a fabric material bonded to the support and having thin flat receiving portions extending transversely of the sole and successively along the length of the sole, a thin flat insert of protective metal in each of the receiving portions and arranged to overlap an adjacent insert to define a continuous layer of flexible protective metal and the inserts being narrower in width at the location of greater flexibility.

2,312,842
CLOCK THERMOSTAT
Andrew G. McNicoll, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application November 16, 1939, Serial No. 304,812
19 Claims. (Cl. 200—139)

1. In a device of the character described, a synchronous motor, time indicating means including an hour indicating member, connections between the hour indicating member and the motor whereby the latter moves the former once every hour, a thermostat, an adjusting member fixed with respect to said hour indicating member, means for operatively connecting said adjusting member to said thermostat at a predetermined hour each day for adjusting it during movement of said hour indicating member, and manual means for adjusting said thermostat in either direction at any time except during its actual adjustment by said adjusting member.



2,312,843
CLOSURE FOR RECEPTACLES
William M. Moxley, Kansas City, Mo.
Application January 6, 1941, Serial No. 373,355
3 Claims. (Cl. 220—55)

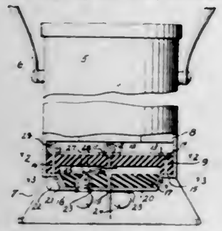


1. A device of the character described, comprising a closure plate, a hand-grasp element journaled to turn with respect to said plate, a bolt actuating member secured to the hand-grasp element and located beneath the closure plate and having an out-turned longitudinal flange which constitutes its outer edge, a receptacle upon which the closure plate fits, a plurality of bolts pivoted at their inner ends to said flange and adapted to be projected or retracted by rotation of said member with respect to the closure plate, depending ears carried by the closure plate and adapted to fit within the receptacle, and within which the outer ends of the bolts are slidably disposed, there being openings in the side walls of the receptacle for the reception of the outer ends of said bolts when said bolts are projected, compression springs bearing between the depending ears and the pivot points of said bolts, the dimensions, relationship, and throw of the named parts being such that said springs are under greatest compression when the bolts are radially disposed with respect to the closure plate and are farthest projected, and means for limiting the throw of the hand-grasp element with respect to the cover plate in such manner that the pivot points of the bolts will lie in past center position at each of said limits of movement.

2,312,844
COMBINED SWITCH AND SPARE BULB CARRIER FOR ELECTRIC HAND LANTERNS
William M. Moxley, Kansas City, Mo.
Application October 1, 1941, Serial No. 413,212
5 Claims. (Cl. 240—10.63)

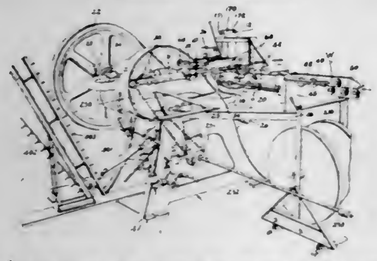
1. In an electric hand lantern, a casing, a battery therein, a bail constituting a handle for the lantern, a fixed block of insulating material secured in the bottom of the casing, a pair of contact members upon the upper face of said block

of insulating material, with which the terminals of the battery engage, a second block of insulating material mounted for complete horizontal rotation beneath the first named block and provided upon its under face with a plurality of vertical recesses disposed concentrically of the axis of the casing, a metallic face plate secured to the underside of said block and provided with a plurality of threaded lamp sockets which enter said recesses, a contact plug extending from the top of each of said recesses to the upper face of the second named block, and a fixed contact strip carried by the first named block of insulating material and bearing upon the second named block



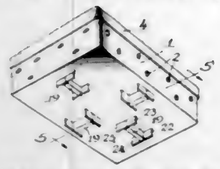
at a point to engage said contact plugs, said last named contact strip being electrically connected to one of the fixed contact members with which the battery engages, a depending annular metallic apron carried by the casing and encircling and housing the movable insulating block of the switch and lying outwardly thereof and constituting a bearing upon which said movable insulating block is mounted to turn, said face plate having an upturned metallic portion which closely conforms to and makes electrical contact with said apron and means for electrically connecting the apron to the other contact member upon the first named block of insulating material and with which one of the battery terminals engages.

2,312,845
WIRE FEEDING APPARATUS
Charles A. Nichols and Ernest R. Eausset, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application January 30, 1941, Serial No. 376,676
15 Claims. (Cl. 153—6)



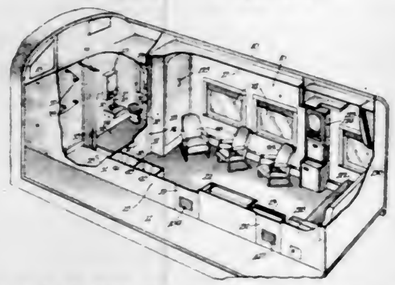
1. Apparatus for feeding wire to a forming machine comprising the combination of a reciprocating slide provided with means for clamping the wire thereto, stops determining the travel of the slide, a reciprocating member operated by the machine through a distance exceeding the travel of the slide, means yieldably connecting the member and slide so that the member may overtravel the slide in either direction of movement, means actuated by the overtravel of the member with respect to the slide for operating the wire clamping means of the slide, means for clamping the wire to a stationary part, and means actuated by the overtravel of the member with respect to the slide for moving the last named clamping means into wire-clamping status while the clamping means of the slide is moved into wire-releasing status, and vice versa.

2,312,846
SHIPPING CONTAINER FOR BABY CHICKS AND METHOD OF MAKING SAME
George H. Olvey, Louisville, Ky., assignor to General Box Company, Chicago, Ill., a corporation of Delaware
Application February 8, 1941, Serial No. 377,951
15 Claims. (Cl. 229—6)



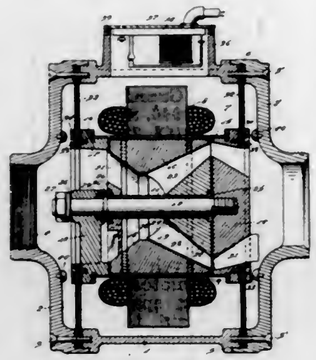
1. A fiber-board container comprising side and end walls and a bottom, said bottom having an opening formed therein, a partition having a projection extending through said opening, and an ear on said projection, said ear being folded flat against the projection when being passed with the projection through the opening and being opened up after being passed through the opening, said projection having a fold below the bottom and extending in double thickness from said fold back through the opening.

2,312,847
RAILWAY CAR
Peter Parke, Chicago, Ill., assignor to The Pullman Company, Chicago, Ill., a corporation of Illinois
Application February 15, 1940, Serial No. 319,089
6 Claims. (Cl. 105—315)



1. In a railway car having a side wall and a straight parallel aisle wall, a pair of straight, fixed partitions and an intermediate folding partition all parallel to each other and connecting the side and aisle walls and defining a pair of adjacent rooms divided by the intermediate partition and adapted to be used en suite when the intermediate partition is folded, a sofa adjacent one of the fixed partitions and extending transversely of the car, a door in the aisle wall between the sofa and the folding partition, a pair of folding beds between the folding partition and the other fixed partition, said beds being disposed right-angularly to each other when extended and one of them being foldable endwise into the aisle wall and extensible along the folding partition and adjacent thereto, and a door in the aisle wall between the last named bed and the second named fixed partition.

2,312,848
MOTOR DRIVEN PUMP UNIT
Albert R. Pezzillo, Philadelphia, Pa.
Application January 7, 1941, Serial No. 373,419
12 Claims. (Cl. 103—87)



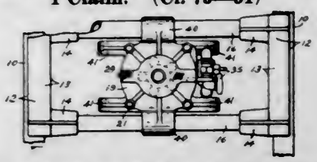
12. In a device of the character stated, a housing having a central portion and end members forming an inlet and an outlet, the central portion and end members having juxtaposed irregular surfaces, resilient rings having their outer portions clamped between said surfaces, a stator having ported end members and a cylinder between them, with the stator carried by such cylinder, clamping rings for the stator end members, said clamping rings and stator end members having juxtaposed irregular surfaces, and means to clamp the inner portions of said resilient rings between the irregular surfaces of the stator clamping rings and end members.

2,312,849
TRANSMISSION
Willard L. Pollard, Evanston, Ill.
Application September 11, 1940, Serial No. 356,255
15 Claims. (Cl. 74—189.5)



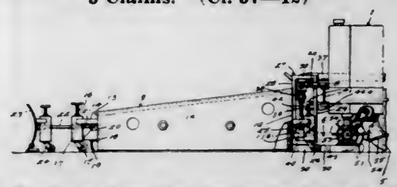
14. A variable speed transmission comprising a hydraulic torque converter and a planetary gear construction, said converter comprising a pump rotor, a turbine rotor and a stator, said planetary gear construction comprising a gear carrier, planet gearing carried by said gear carrier, a sun gear meshing with said planet gearing and a ring gear meshing with said planet gearing, a drive shaft for rotating the pump rotor, a driven shaft connected to rotate in unison with said gear carrier, clutch instrumentalities for alternatively connecting one of said gears either to rotate in unison with said turbine rotor or with said drive shaft, a one-way anchor for preventing reverse rotation of the other gear with respect to said turbine rotor, and clutch means for connecting and disconnecting said other gear with respect to said turbine rotor to cause said other gear either to rotate in unison with the turbine rotor or to release said other gear to leave it free to be anchored by said one-way anchor.

2,312,850
CAR ROCKING IMPLEMENT
Robert J. Scharoun, Pulaski, N. Y., assignor to Scharoun Industries, Inc., Pulaski, N. Y., a corporation of New York
Application August 30, 1941, Serial No. 409,045
1 Claim. (Cl. 73—51)



A car rocking apparatus adapted for use in conjunction with a vehicle lift of the type having a pair of spaced, parallel vehicle-supporting rails, comprising, in combination, a cradle adapted to be moved along said rails, and a rocking implement removably and adjustably supported by said cradle, said cradle having end members adapted to be supported by said rails and having a pair of spaced, parallel supporting bars extending between said end members, said rocking implement having a body of such size as to be received between said supporting bars and having two sets of rigid arms projecting from said body, each set being adapted selectively to engage said supporting bars adjustably along the length thereof, one set of said arms being located at opposite sides and near the upper end of said body and the other set of said arms being located at opposite sides and near the lower end of said body, and said sets of arms being so located on said body that when one set is engaged with said supporting bars the other set is disposed within the area bounded by said supporting bars, whereby said implement may be supported on said cradle by either set of said arms at either of two corresponding vertical positions with respect thereto and may be adjusted along the supporting bars of said cradle on the selected set of said arms.

2,312,851
SNOW AND ICE REMOVING MACHINE
Julius J. Seibert, McKeesport, Pa.
Application February 5, 1941, Serial No. 377,554
3 Claims. (Cl. 37—12)



1. A mechanism for removing snow and ice from a highway or other surface, comprising a carrier adapted to move over the surface, a heat generating means supported by the carrier to be moved over and in close proximity to the surface, a water pick-up unit supported from the carrier immediately behind said heat means and comprising a pair of forwardly diverging wiper arms having contact with the surface, a scoop-like receiver coupling the convergent ends of the arms, a receptacle forming a part of the receiver into which water and slush is discharged, means for effecting the movement of water and slush across the receiver into the receptacle, and means coupled with the receptacle for removing water and slush therefrom and conveying it rearwardly of the carrier.

2,312,852
LIGHT-SENSITIVE ELEMENT
William Craig Toland and Ellis Bassist, Brookline, Mass., assignors to William Craig Toland, Brookline, Mass., as trustee
Application January 24, 1940, Serial No. 315,412
4 Claims. (Cl. 95—8)



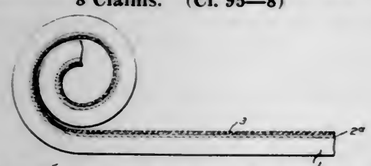
1. As an article of manufacture a light-sensitive element comprising a support, said support presenting thereon a film of hydrophilic polyvinyl alcohol, a water-soluble colloid layer disposed over said film, said colloid having contained therein a silver halide light-senstive salt.

2,312,853
APPLICATOR ROLL
William Craig Toland and Ellis Bassist, Brookline, Mass., assignors to William Craig Toland, Brookline, Mass., as trustee
Application February 26, 1940, Serial No. 320,848
6 Claims. (Cl. 91—67.8)



1. As an article of manufacture a fountain solution roller comprising a support, a fabric covering for the support, said fabric covering including a coating of polyvinyl alcohol, said polyvinyl alcohol being water-receptive and water-insoluble.

2,312,854
LIGHT-SENSITIVE ELEMENT
William Craig Toland and Ellis Bassist, Brookline, Mass., assignors to William Craig Toland, Brookline, Mass., as trustee
Application July 20, 1940, Serial No. 346,514
8 Claims. (Cl. 95—8)



4. A light-sensitive product which comprises a layer of a hydrophilic polyvinyl alcohol having superimposed thereon a layer of a chromic salt dispersed in a colloid, said polyvinyl alcohol being effective to prolong the period of light sensitivity of said chromic salt.

2,312,855
METHOD OF COATING ALUMINUM
John S. Thompson, Detroit, Mich., assignor to Parker Rust Proof Company, Detroit, Mich.
No Drawing. Application September 7, 1940, Serial No. 355,825
8 Claims. (Cl. 148—6)

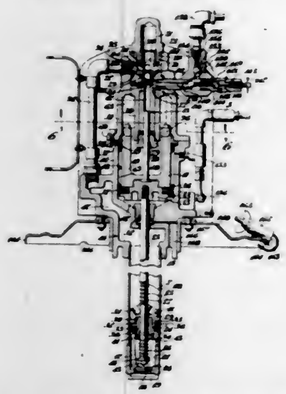
1. A method which comprises obtaining a corrosion-resistant, paint-holding coating on aluminum or an alloy thereof by subjecting the surface of said metal to the action of a hot, aqueous solution containing as its essential ingredients a dihydrogen phosphate, a double fluoride and an oxidizing agent, and continuing the application of the solution to the surface until there is produced a substantial closely adherent coating the major portion of which is phosphate.

2,312,856
DEVICE FOR RAISING THE WHEELS OF VEHICLES AND SUPPORTING THE SAME IN RAISED POSITION
John M. Westrate, Grand Rapids, Mich.
Application May 4, 1940, Serial No. 333,277
9 Claims. (Cl. 254—94)



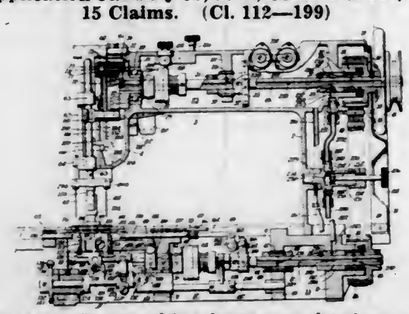
3. A unitary motor vehicle jack adapted to elevate and support a motor vehicle wheel having a rim and a drum spaced therefrom and rotatable therewith, said jack comprising an elongated element having an integrally formed head portion adapted to detachably clamp the rim and drum when axially inserted therebetween and then swung inwardly toward the wheel, said jack having a foot portion extending radially beyond the periphery of the wheel when said head is thus inserted whereby rotation of the wheel in a movement of the vehicle effects an elevation and support of the wheel.

2,312,857
PUMP
Frank C. Woelfer, Jr., Cincinnati, Ohio, assignor to The Cincinnati Ball Crank Company, Cincinnati, Ohio, a corporation of Ohio
Application March 9, 1940, Serial No. 323,195
8 Claims. (Cl. 103—5)



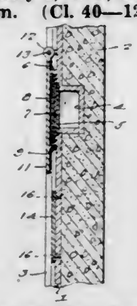
1. In a lubricant pumping mechanism, an air motor, a tube extending from said air motor adapted to be submerged in the grease within a grease drum, said tube constituting a low pressure cylinder and including an inlet, a high pressure cylinder disposed above the air motor, a piston in the low pressure cylinder, a piston in the high pressure cylinder, said pistons attached axially to the piston of the air motor, a grease supply conduit extending from the low pressure cylinder, by-passing the cylinder of the air motor and communicating with the high pressure cylinder, and a discharge conduit extending from said high pressure cylinder.

2,312,858
CHAIN-STITCH SEWING MACHINE
Frederick F. Zeler, Fairfield, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application January 30, 1940, Serial No. 316,297
15 Claims. (Cl. 112—199)



1. A sewing machine looper mechanism comprising, a thread-carrying looper; an oscillatory looper-carrier journaled upon a shiftable fulcrum-rod; means for imparting loop-seizing and -shedding motions to said looper about said fulcrum-rod; and means including a toothed disk and mechanism in cooperative meshing relation therewith for shifting said fulcrum-rod to carry the looper from sewing position to a more readily accessible threading position.

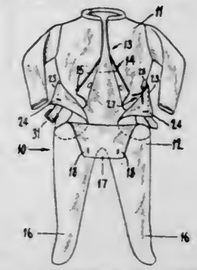
2,312,859
GRAVE MARKER
William H. H. Zentmyer, Rothsville, Pa.
Application February 4, 1942, Serial No. 429,543
1 Claim. (Cl. 40—124.5)



A grave marker of the character described comprising a concrete slab, a metallic plate recessed in said slab, a chamber integral with the plate and extending into the slab, a closure for the chamber countersunk in the plate, a frame of angular cross-section, for the reception of a photograph, projecting from the plate, said frame surrounding the closure in spaced relation thereto, a glass in the frame for protecting the photograph, and a cover for the glass and the photograph hingedly mounted on the plate and engageable, when in closed position, on the frame.

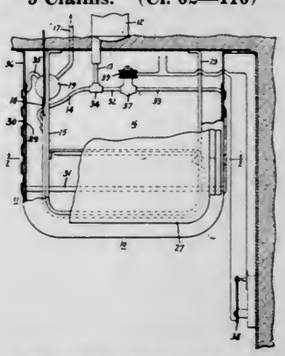
2,312,860
GARMENT
Joseph Anthony Addonisio, Brooklyn, N. Y.
Application June 5, 1941, Serial No. 396,674
3 Claims. (Cl. 2—70)

1. In a child's garment comprising in combination a body member and a trousers member, said two members being detachably connected together by concealed slide fastener means extending all the way around the front of the waist portion and terminating in spaced relation from the mid portion of the rear of said garment, the rear of said trousers fabric having integral sideways continuations extending to the front of said garment and terminating in spaced relation from the mid portion of said rear and forming sideways foldable inner flaps, the rear of said trousers fabric having an outer and downwardly foldable flap superposable over said sideways



foldable flaps, and buttons connecting together the marginal portions of said sideways flaps and said superposable outer flap for closing the trousers member and securing the rear of said trousers to said body member, both of said sideways foldable flaps being disconnectable from said body at their free ends and forming side shields adapted to cover the sides of said child.

2,312,861
REFRIGERATING MACHINE
Leonard W. Atchison, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application July 1, 1941, Serial No. 400,588
5 Claims. (Cl. 62—116)



1. In a refrigerating machine including a cabinet having a food storage compartment to be cooled and a refrigerant circulating system comprising a cooling unit arranged within said food compartment and refrigerant flow-controlling means for controlling the flow of liquid refrigerant to said unit, said cooling unit comprising two evaporators connected in parallel relationship in said system and arranged one within the other, means for supplying refrigerant to said inner one of said evaporators, said inner one of said evaporators being of the flooded type and having a header and a plurality of depending refrigerant circulating conduits, means for supplying refrigerant to the outer one of said evaporators, said outer one of said evaporators being of the dry type, flow controlling means arranged in said last mentioned supply means for controlling the flow of refrigerant to said outer evaporator, temperature responsive means for controlling said flow controlling means, and means for withdrawing the gaseous refrigerant from said evaporators.

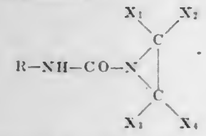
2,312,862
METHOD AND APPARATUS FOR COMPLETING WELLS
James A. Bermingham, Jr., Long Beach, Calif., assignor, by mesne assignments, to The Texas Company, New York, N. Y., a corporation of Delaware
Application January 26, 1940, Serial No. 315,668
4 Claims. (Cl. 166—1)



1. A method of completing a well having a well bore extending into a producing formation, which comprises underreaming a portion of the bore above the producing formation to form a chamber, underreaming another portion of said bore to form a cavity below said chamber, the diameter of said cavity being greater than that of said chamber, placing in the bore a liner-screen assembly slightly smaller in diameter than the main bore and with the lower or screen portion of the assembly in said cavity and the upper or liner portion within said chamber, the diameter of said liner-screen being only sufficiently smaller than the diameter of the main bore to permit lowering of the liner through said main bore, and placing a quantity of granular material around said liner-screen assembly within said cavity and said chamber.

2,312,863
POLYMERIZATION PRODUCTS
Herbert Bestian, Frankfort-on-the-Main-Unterliederbach, Germany, assignor, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application March 2, 1940, Serial No. 322,031. In Germany February 17, 1939
6 Claims. (Cl. 260—2)

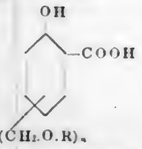
1. Polymerization products of compounds of the following formula:



wherein R stands for a substituent of the group consisting of hydrogen, alkyl, alkylene, aralkyl and cycloalkyl, and X_1, X_2, X_3, X_4 stand for substituents of the group consisting of hydrogen, alkyl, aryl and aralkyl, said products being clear, colorless, thermoplastic, balsam-like to solid resins.

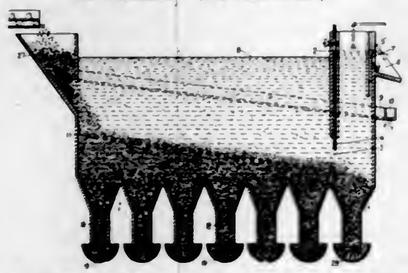
2,312,864
DERIVATIVES OF o-HYDROXYBENZENE-CARBOXYLIC ACIDS AND PROCESS OF MANUFACTURE
Jakob Bindler, Basel, Switzerland, assignor to the firm J. R. Geigy A. G., Basel, Switzerland
No Drawing. Application February 3, 1940, Serial No. 317,214. In Switzerland February 8, 1939
10 Claims. (Cl. 260—521)

6. The o-hydroxy-benzene-carboxylic acids having the following formula



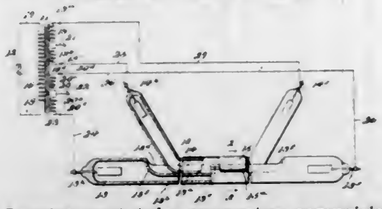
wherein n stands for one of the figures 1 and 2 and R stands for a radical of the aliphatic and alicyclic series having more than 10 carbon atoms, said compounds being after neutralisation with caustic soda and evaporation bright powders or waxy masses well soluble in water, imparting to natural and regenerated cellulose a soft and flowing feel.

2,312,865
METHOD OF TREATING MATERIALS
Byron M. Bird and Frank P. Smith, Columbus, Ohio, assignors to Battelle Memorial Institute, Columbus, Ohio, a corporation of Ohio
Application January 3, 1941, Serial No. 373,016
10 Claims. (Cl. 209—155)



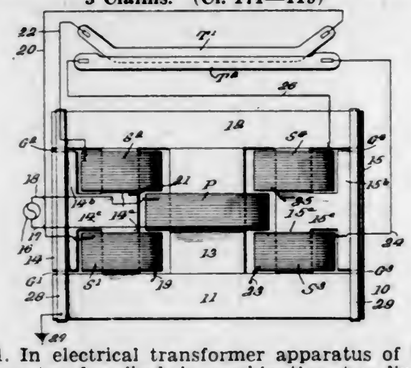
1. A method of separating granular materials which comprises delivering the granular materials to the upper end of a substantially continuous surface composed of granular particles which is inclined at such an angle that said granular materials flow by gravity downwardly along such surface and that the bottom layer of such granular materials is retarded with the result that the particles above such bottom layer move with relation to such bottom layer and with relation to each other, simultaneously applying, to such mobile material, upward currents of liquid which are of just enough velocity to suspend the slime particles initially intermingled with the granular particles without suspending the granular particles, withdrawing the suspended slime particles which are thus separated from the granular particles by overflow, allowing the remaining granular material to separate according to specific gravity as it flows down the inclined surface, withdrawing concentrates of different specific gravity vertically downwardly by gravity substantially throughout the length of the inclined surface at a rate to insure that the slope required for causing the particles of such granular materials to move continuously with relation to such surface and with relation to each other is maintained.

2,312,866
LUMINESCENT TUBE AND SYSTEM
Charles Philippe Boucher, Paterson, N. J., assignor to Boucher Inventions, Ltd., Washington, D. C., a corporation of Delaware
Original application May 22, 1937, Serial No. 144,285. Divided and this application August 21, 1939, Serial No. 291,204
4 Claims. (Cl. 176—124)



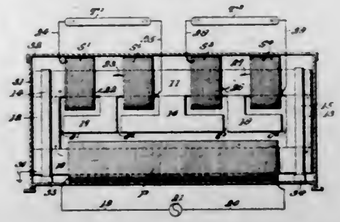
1. Luminescent tube apparatus comprising in combination, a luminescent tube, a second tube maintained in contiguous associated relationship therewith, and transformer means having a common core and including two individual and electrically independent secondary windings having their mid-points grounded and connected in like phase relationship with said luminescent tubes by corresponding ends of said secondary windings being connected to corresponding ends of said tubes.

2,312,867
TRANSFORMER APPARATUS
Charles Philippe Boucher, Paterson, N. J., assignor to Boucher Inventions, Ltd., Washington, D. C., a corporation of Delaware
Application April 10, 1940, Serial No. 328,970
3 Claims. (Cl. 171—119)



1. In electrical transformer apparatus of the character described, in combination, two linear core members spaced in parallel relationship, a transverse core member extending between and abutting said parallel members, two substantially H-shaped core members disposed one on either side of said transverse member each having a long leg portion so positioned as to abut the inner sides of said linear core members at points spaced from the ends thereof to effect a closed magnetic circuit and each having a short leg portion so positioned as to form with the ends of said linear members a shunt path including air-gaps, a primary winding mounted on said transverse member, and two secondary windings each of which comprises two intermediately grounded coil sections mounted on said long leg portions of one of said H-shaped members with the primary winding physically disposed between the secondary windings and also between the coil sections comprising the secondary windings, whereby a compact and efficient transformer apparatus is achieved.

2,312,868
TRANSFORMER
Charles Philippe Boucher, Paterson, N. J., assignor to Boucher Inventions, Ltd., Washington, D. C., a corporation of Delaware
Application May 1, 1940, Serial No. 332,813
5 Claims. (Cl. 171—119)



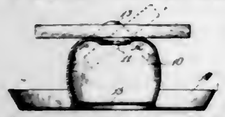
1. A constant current transformer comprising, in combination, a main magnetic core having two leg portions, a primary winding mounted on one leg portion, two or more secondary windings mounted on the other leg portion, and shunt core portions spaced between coil sections and cooperating therewith, said shunt core portions comprising a T-shaped magnetic shunt core portion and two or more L-shaped magnetic shunt core portions abutting said main core portion at their one ends and forming air-gaps of high reluctance at their other ends with each other and with said core, the surfaces of said air-gaps being perpendicular to the joints between said main core portion and said shunt core portions.

2,312,869
SURGEON'S BONE SCREW DRIVER
Charles A. Boyer, Winona Lake, Ind.
Application July 27, 1942, Serial No. 452,417
6 Claims. (Cl. 145—52)



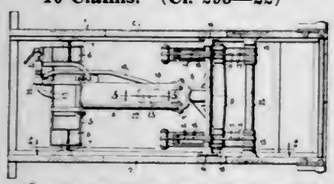
1. A surgeon's bone screw driver for a surgical slot-headed screw, including the combination of a handle-mounted shank provided with a cupped terminal for receiving the screw-head, said shank having therein a slot extending from said terminal and configurated to form a cam, a screw-driving blade longitudinally slidable in said slot having a pair of springy prongs engaging said cam, said cam normally causing said prongs to maintain said blade with the operative portion thereof projecting exteriorly of said terminal, said blade when pressed inwardly into said slot being under tension by the pressure of said prongs upon said cam, and said blade being adapted to apply said tensional pressure upon the screw-head while projected in its screw-slot.

2,312,870
CIGARETTE SUPPORTER AND SNUFFER
Byron E. Bowles, Des Moines, Iowa
Application May 22, 1941, Serial No. 394,723
1 Claim. (Cl. 131—235)



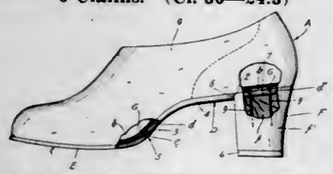
A device for supporting and snuffing lighted cigarettes and usable in association with an ash tray, said device comprising a tubular body open at its lower end for the accumulation of the cigarette ashes, an annular wall projecting inwardly from the tubular body and having a central opening of a diameter slightly greater than the diameter of a cigarette, the wall being depressed around the opening for supporting a burning cigarette at an inclination with a substantial part of the lighted end thereof within the device, and recesses formed in the top wall at opposite sides of the opening for supporting a cigarette horizontally on top of the device.

2,312,871
BODY TIPPING APPARATUS FOR MOTOR VEHICLES
Perry A. Brick, Galion, Ohio, assignor to The Perfection Steel Body Company, Galion, Ohio, a corporation of Ohio
Application December 4, 1941, Serial No. 421,686
10 Claims. (Cl. 298—22)



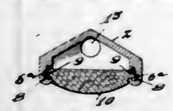
1. In a motor vehicle including a frame and having a tiltable dump body pivotally mounted thereon, a hoist mechanism for tilting said body comprising: a pair of links in toggle arrangement pivotally connected together and having their opposite ends pivotally connected respectively to the frame and dump body, a power actuated connecting link having one end pivotally connected to said toggle link at a point eccentric to the axis of toggle joint thereof, power means including a reciprocable ram connected to said connecting link for actuating said toggle links to elevate the body, and a radius link having one end pivotally connected to the vehicle frame, and the opposite end to the axis pivotally coupling said connecting link to the ram of said power means.

2,312,872
SHOE
Marion B. Browne, St. Louis, Mo., assignor to Valley Shoe Corporation, St. Louis, Mo., a corporation of Missouri
Application August 3, 1942, Serial No. 453,397
6 Claims. (Cl. 36—24.5)



1. In a shoe, a shoe-body including a lasted upper and insole, in combination with an outer sole comprising a rigid shank-member of longitudinal and transverse arch, contour, and dimensions corresponding to, and fixed to and underlyingly upon, the shank-portion of the shoe-body, a short sole fixed to and underlyingly upon the forepart of the shoe-body, and a heel fixed to and upon the heel-seat of the shoe-body and at its breast abutting the rear portion of the body of the shank-member.

2,312,873
THERMOMETER CASE
Anthony Charles Bruns, Cincinnati, Ohio, assignor to The Palmer Company, Norwood, Ohio, a corporation of Ohio
Application February 3, 1942, Serial No. 429,413
4 Claims. (Cl. 73—374)



2. A thermometer case, comprising: a body of channel form providing a pair of opposing side walls, the walls each within its inner side face having a groove therein, longitudinally thereof, for interposing and laterally confining a transparent front closure plate for the case, a transparent closure plate having its opposite longitudinal edges respectively engaged in said grooves, the grooves and edges of the plate having relatively parallel surfaces inclined to the planar axis of the plate, and a flexible binding strip interposed between said surfaces for yieldingly mounting and binding the plate within the body and compressively urging the plate into sealing contact therewith.

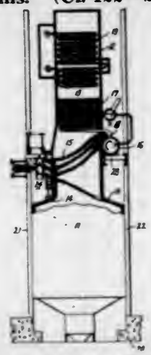
2,312,874
COLOR PHOTOGRAPHY
Albert L. Bunting, Detroit, Mich., assignor to Union Research Corporation, Detroit, Mich., a corporation of Michigan
No Drawing. Application April 27, 1940, Serial No. 332,067
8 Claims. (Cl. 95—88)

1. The method of converting a developed photographic silver print to a blue color print, comprising bleaching the silver print to form a silver ferrocyanide image followed by oxidizing the bleached image by immersion in a bath containing an oxidizing agent adapted to form a silver ferricyanide image, and thereafter immersing the oxidized bleached image in a solution containing sodium thiosulfate and a ferrous iron compound in a molecular ratio of approximately 2 to 1.5 respectively.

2,312,875
COLOR PHOTOGRAPHY
Albert L. Bunting and Raymond W. Thomas, Detroit, Mich., assignors to Union Research Corporation, Detroit, Mich., a corporation of Michigan
No Drawing. Application April 27, 1940, Serial No. 332,071
8 Claims. (Cl. 95—88)

1. A method of producing in a deposit of photographic gelatin carried on a suitable base a colored photographic image from an initial silver black-and-white image developed in the gelatin, which comprises bleaching the silver image with a solution of a ferricyanide to form a silver ferrocyanide image, reacting the silver ferrocyanide image with a zinc compound to form a zinc ferrocyanide image, coloring the zinc ferrocyanide image by reacting it with a diazonium compound thereby chemically uniting the zinc ferrocyanide and the diazonium compound, followed by reacting the resulting reaction product image with an azo-dyestuff coupling agent, said diazonium compound and coupling agent being selected to produce an image of a desired color, and thereafter clearing the colored image by immersing it in a solution having an approximate pH of more than 11 and thereby dissolving the zinc ferrocyanide to leave the colored reaction product of the diazonium compound and the azo-dyestuff coupling agent as the color image forming substance.

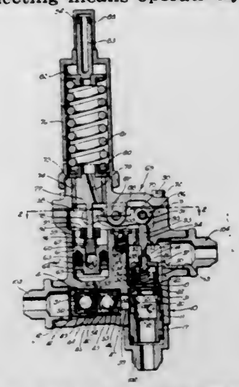
2,312,876
ELASTIC FLUID GENERATOR
Andrew Caldwell, Ballston Lake, and Vorras A. Elliott, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York
Application January 23, 1942, Serial No. 427,960
6 Claims. (Cl. 122—235)



1. A boiler comprising a wall forming a heating chamber, a heating tube in the chamber forming a catenary, a support secured to the wall for rigidly supporting one end of the tube, and means for supporting the other end of the tube, said means including a horizontally movable member to maintain the sag of the tube substantially constant.

2,312,877
FLUID PRESSURE REGULATING VALVE
Rodney B. Campbell, North Hollywood, Calif., assignor to John Eley, Jr., Los Angeles, Calif.
Application September 9, 1941, Serial No. 410,156
7 Claims. (Cl. 137—153)

1. In a regulating valve, the combination of: a housing having an inlet, an outlet, and a pressure relief port, one side of said housing being open to form a control chamber; a fluid flow passage connecting said inlet and said outlet; a cylinder in said housing having one end thereof in communication with said fluid flow passage; piston means in said cylinder; a pressure relief passage in said housing communicating between said inlet and said pressure relief port; pressure relief valve means in said pressure relief passage adapted to be opened to permit fluid flow from said inlet to said pressure relief port; closure means adapted to close said one side of said housing so as to close said control chamber; means for detachably securing said closure means to said housing; spring means mounted on said closure means and operatively connected to said piston means for restraining movement of said piston means when said closure means is secured to said housing; adjustment means for adjusting the tension of said spring means; and connecting means mounted on said closure means so as to be wholly enclosed in said control chamber, said connecting means operatively connecting said piston means and said pressure relief valve means whereby axial movement of said piston means causes said pressure relief valve means to open, said connecting means and said restraining means being removable from said housing with said closure means as a unit.



2,312,878
ALKALI METAL SALTS OF β-SULPHOPROPIONITRILE AND METHOD OF PREPARATION
Erwin L. Carpenter, Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application April 17, 1942, Serial No. 439,392
8 Claims. (Cl. 260—464)

6. An alkali metal salt of β-sulphopropionitrile.

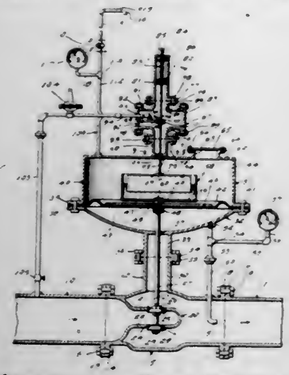
2,312,879
FIBER-FORMING POLYMERS AND METHOD OF MAKING THEM
Robert Edward Christ, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application April 22, 1940, Serial No. 331,045
17 Claims. (Cl. 260—76)

1. A process for making polymers which comprises heating a reaction mixture comprising essentially bifunctional reactants which comprise a monoaminomonohydric alcohol in which the amino nitrogen carries at least one hydrogen atom, a dibasic carboxylic acid and a glycol, under polymerizing conditions and continuing the heating until a polymer is formed which can be formed into pliable filaments, the carboxyl groups in said mixture of bifunctional reactants being present in amount substantially equimolecularly equivalent to the sum of the amino and alcoholic hydroxyl groups.

2,312,880
RATIO CONTROLLER FOR GAS OR FLUID REGULATORS
William B. Coffee, Atlanta, Ga.
Application July 5, 1941, Serial No. 401,256
9 Claims. (Cl. 50—12)

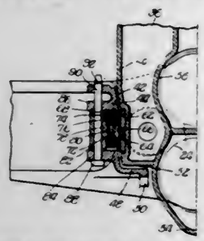
1. A pressure regulating apparatus compris-

ing a valve housing for positioning between high and low pressure pipe lines, valve means in said housing, a valve operator housing carried by said valve housing, a diaphragm in said operator housing dividing the latter into a lower chamber and an upper chamber, means connecting said diaphragm with said valve means, a pipe connecting the output side of said valve housing with said lower chamber whereby the fluid pressure in said lower chamber will flex



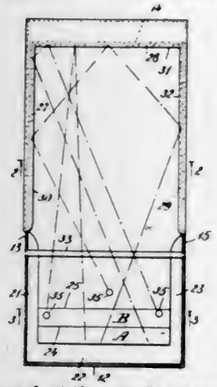
said diaphragm upwardly to thereby move said valve means toward closing position, a liquid receptacle fixed to said diaphragm and positioned in said upper chamber, a liquid in said receptacle, a float in said liquid, and spring-pressed means above said diaphragm connected with said float and said high pressure line for regulating the buoyancy of the latter and for controlling the downward flexing of said diaphragm toward valve opening position.

2,312,881
CAR TRUCK
Robert B. Cottrell, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application December 30, 1940, Serial No. 372,277
4 Claims. (Cl. 105—197)



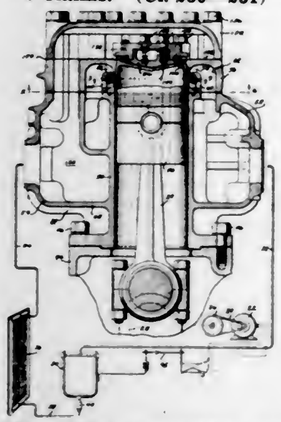
1. In a railway car truck, a side frame having a tension member, a compression member, and integral columns forming a central bolster opening and spaced window openings, said columns having bolster guide surfaces diverging in an inboard direction, springs on the top and bottom chords of said tension member, a bolster extending into said bolster opening and seated on said springs, said bolster having side walls with guide faces complementary in form to said surfaces, wear plates recessed in said walls in parallel planes, friction means mounted in said columns in frictional engagement with said wear plates, each of said friction means comprising a friction shoe in abutment with the adjacent wear plate, a spring cap supported from said column and spaced from said friction shoe, resilient means compressed between said spring cap and said shoe, and positioning means on said shoe and said cap for said resilient means, said spring cap having a single pivotal support on an axis transverse of said frame, said pivotal support permitting said spring cap to remain in alignment with the adjacent wear plate and retain said resilient means under uniform compression during rocking movement of said bolster.

2,312,882
GAME BOARD
Paul Cusano, Union City, N. J.
Application May 12, 1942, Serial No. 442,599
3 Claims. (Cl. 273—126)



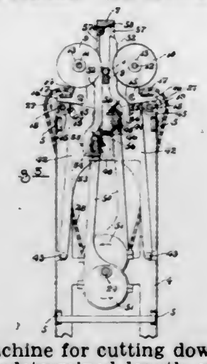
3. A game board of the shuffle board type comprising a substantially flat playing surface having the edges at one end of the surface partially surrounded by abutting walls having rebound cushions and having a scoring section at the other and delivery end partially surrounded by a gutter.

2,312,883
REFRIGERATING APPARATUS
Clemens B. Demann, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application August 23, 1939, Serial No. 291,573
6 Claims. (Cl. 230—231)



1. A reciprocating compressor including a cylinder and a piston, said cylinder including a separate lower wall-forming portion, a separate upper wall-forming portion, and a cylinder head constituting a part separate from but connected to the upper wall-forming portion, and a valve assembly held between said upper portion and said lower portion.

2,312,884
DOWEL MACHINE
Marcel Despres, Grand Rapids, Mich.
Application July 29, 1941, Serial No. 404,489
8 Claims. (Cl. 144—30)



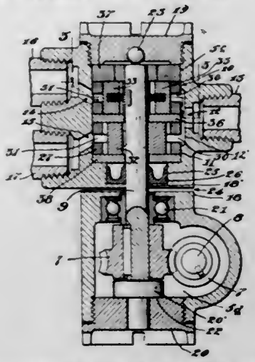
1. In a machine for cutting dowels, means for feeding a predetermined length of rod equal to the combined length of a plurality of dowels, means for stopping the rod at a predetermined position, vertical bars at each side of the rod, means for reciprocating said bars in opposite directions. means for alternately moving said bars toward the rod to engage therewith and away from the rod to disengage therefrom, said engagement occurring at the times between longitudinal feeding movements of said rod, said bars at their engaging edges having serrations therein oppositely positioned, whereby the rod is continuously rotated when engaged by said bars, a shaft mounted to one side of the rod having a plurality of circular saws thereon spaced from each other in accordance with the lengths of dowels to be cut, means for continuously driving said shaft, and means for alternately moving the shaft and saws thereon toward the dowel rod and away therefrom, said movements toward the dowel rod taking place simultaneously with rotation thereof.

2,312,885
SAFETY PIN
Charles A. Dies, Chicago, Ill.
Application August 12, 1942, Serial No. 454,610
5 Claims. (Cl. 24—161)



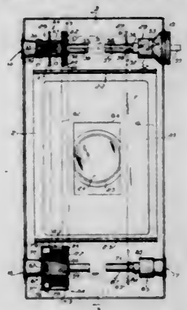
2. In combination with a safety pin having spaced apart members the rear member of which is provided with a guard with which the pointed garment fastening member engages, of a device for locking the point within the guard comprising a sheet metal piece having an eye at one end by which the device is hingedly connected to the rear member of the safety pin, a hook at the other end adapted to engage the garment fastening member, a projection cooperating with the hook to hold said member with the point in engagement with the guard, and a projection adjoining the hinge-eye to reinforce its engagement with the member of the safety pin to which it is connected.

2,312,886
PUMP
Herman Ray Ellinwood, North Hollywood, Calif., assignor to Adel Precision Products Corporation, Burbank, Calif., a corporation of California
Application May 25, 1940, Serial No. 337,215
3 Claims. (Cl. 103—136)



1. A pump comprising a housing having a cylindrical bore and provided with a single intake opening and a plurality of outlet openings, a plurality of pump units mounted in axial alignment in said bore, each of said units including an annular stator fitted in said bore and having an intake port, said housing having a recess extending axially of and in the wall of said bore and intersecting, both axially and transversely, said intake opening and communicating with the intake ports in the stators of said units; each stator also having an outlet port registering with one of the outlet openings, each stator having an eccentric bore, a drive shaft extending axially through the stators of the pump units, a cylindrical rotor for each pump unit mounted on said shaft and disposed in the eccentric bore of each stator, and a plurality of radially disposed spring loaded vanes on each rotor for contact with the wall of its associated eccentric bore.

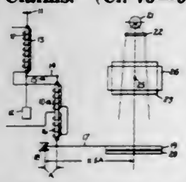
2,312,887
ROLL FILM CAMERA ATTACHMENT
Emil Ericksson, Chicago, Ill., assignor of one-half to Ellen Alder, Chicago, Ill.
Application January 29, 1940, Serial No. 316,244
12 Claims. (Cl. 242—71)



3. In a film spool end extension adapter, a rotatable support having one end formed to fit rotatably with a camera film spool stud and the other end formed to carry said spool, a housing on said support, a film register tape wound within said housing and having a free end extending

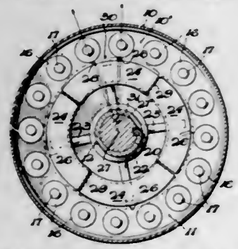
from said housing, and a spring within said housing maintaining said tape wound within said housing.

2,312,888
MAGNETOSTRICTION MEASURING APPARATUS
Alfred W. Everest, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application May 31, 1941, Serial No. 395,979
2 Claims. (Cl. 73—51)



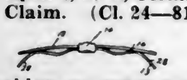
1. Apparatus for measuring magnetostriction comprising dimension measuring means having a movable member which in response to the desired measurement, a lever system including a sample of magnetic material to be tested for magnetostriction and a similar sample, said lever system being connected between a stationary support and said movable member, a magnetizing coil for the sample to be tested, a non-inductive coil for said similar sample, means for energizing both coils simultaneously to magnetize the sample to be tested and to similarly heat both samples, said lever system being so arranged that similar changes in dimensions of both samples cause no movement of the movable member but dissimilar changes in dimensions of both samples do move the movable member whereby the apparatus is compensated for temperature variations of the sample under test caused by the heating effect of its magnetizing coil.

2,312,889
CENTRIFUGALLY OPERATED CLUTCH
Walter W. Everts, Baltimore, Md., assignor of one-third to Abraham J. Fink and one-third to Enos S. Stockbridge, both of Baltimore, Md.
Application October 22, 1941, Serial No. 416,118
5 Claims. (Cl. 192—103)



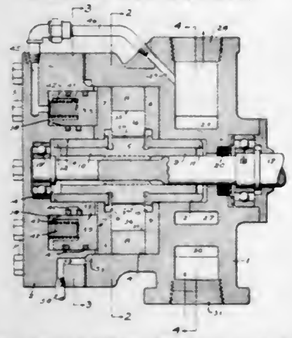
1. A centrifugal clutch comprising a rotary member, a circular group of pairs of spaced rollers mounted upon the rotary member, a second rotary member, radially movable cam-weights carried by the second rotary member, each cam-weight having a curved outer convex face which is eccentric with respect to the circular group of pairs of spaced rollers and has a radius less than the radius of the circle which is tangent to the inner high points of the circular group of pairs of rollers, the convex face having a length of at least substantially the distance between the inner high points of each pair of rollers, the convex face engaging one roller and then engaging a pair of rollers only when the intermediate contacting part of the convex face is equally spaced between the two rollers.

2,312,890
COLLAR HOLDER
William Forstner, Irvington, N. J., assignor to Forstner Chain Corporation, a corporation of New Jersey
Application April 1, 1941, Serial No. 386,300
1 Claim. (Cl. 24—81)



In a collar holder, an upper member comprising two bars, a retainer device securing the central portions of said bars in adjacency, spacer plates at each end for spacing the ends of said bars, whereby two elongated triangular openings are provided and a lower member having its center portion mounted in said retainer device and having its ends resiliently urged upwardly towards the upper member triangular openings, said lower member being of sufficient width to contact the lower surfaces of the upper member, the ends of said lower member each having a nub extending from the upper surface thereof and adapted to extend into the triangular opening of the contiguous upper member end.

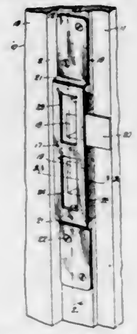
2,312,891
HYDRODYNAMIC MACHINE
Walter Ferris, Milwaukee, Wis., assignor to The Oilgear Company, Milwaukee, Wis., a corporation of Wisconsin
Application May 19, 1939, Serial No. 274,544
7 Claims. (Cl. 103—135)



1. In a vane type hydrodynamic machine having a casing provided with a recess and high and low pressure ports communicating with said recess, a cheek plate arranged against the inner end of said recess, a cheek plate arranged in the outer end of said recess, a spacer ring arranged between said cheek plates and a circular rotor arranged within said ring, the combination of an end head attached to said casing for closing said recess and having an annular chamber formed in the inner face thereof concentric with said cheek plates, a rigid annular member arranged upon the outer face of said outer cheek plate and within said chamber, means for supplying liquid to said chamber at a pressure which varies in accordance with variations in pressure at said high pressure port whereby said liquid urges said outer cheek plate inward and presses said cheek plates and spacer ring together with a force proportional to the pressure at said high pressure port, and

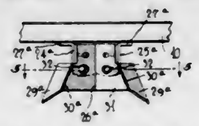
means for limiting the area of said outer cheek plate to which said force is applied to thereby limit said force.

2,312,892
KEEPER FOR LOCKS AND LATCHES
Frances M. Fisher, Kansas City, Mo.
Application October 23, 1941, Serial No. 416,198
1 Claim. (Cl. 292—340)



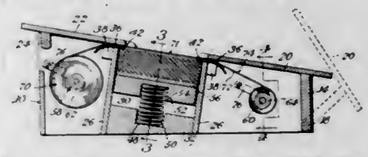
An auxiliary keeper adapted to overlay the striker plate of a door jamb, the jamb having stepped surfaces and the striker plate being mounted on one of said surfaces and having spaced recesses of rectangular cross section for receiving the door latch and lock bolts, comprising a plate having a middle portion provided with rectangular latch and lock openings, said openings being of substantially the same width but considerably longer than the corresponding openings in the striker plate, offset end portions and flanges between the end portions, said end portions and one of said flanges adapted to rest upon one surface of the jamb and the other of the flanges adapted to rest upon a lower surface of the jamb to rigidly support said portion spaced from the striker plate.

2,312,893
TRIPOD CONSTRUCTION
Bernard J. Foy, Washington, D. C., assignor of one-half to Anthony Ludwig, Washington, D. C.
Application March 19, 1941, Serial No. 384,171
4 Claims. (Cl. 248—188)



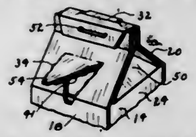
3. In a tripod construction of the type comprising a table, a set of legs each of which includes a pair of stick elements, and means mounting the table on the legs comprising a plurality of brackets depending from the table and spaced from each other, each bracket including an upper ear secured to the under side of the table, a plate depending from said ear and comprising two angularly related portions, and a pin projecting from each portion so that the two pins of each plate extend divergently and each is aligned with a pin which projects from the plate of the next adjacent bracket, the stick elements of each leg being pivotally mounted on such two aligned pins, the combination with each plate portion of an auxiliary plate fastened thereto in parallel abutting relation therewith and having an ear projecting right angularly from its outer edge along a downward and outward slope to provide a flat stop surface of substantial area for a stick element to limit the spread of the leg including said stick element.

2,312,894
RECORDING DEVICE
Samuel J. Gardiner, Wichita, Kans.
Application October 17, 1941, Serial No. 415,470
4 Claims. (Cl. 282—5)



1. In a device of the type described, the combination of two spaced side walls and a first end wall fixedly secured thereto, a second end wall pivotally connected with the side walls, said side walls having upper edges declining in the direction of said second end wall, two spaced transverse walls secured to said side walls, a first cover hinged to said side walls and coacting therewith and with said first end wall and one of said transverse walls to provide a rolled tape enclosure, a second cover fixed to said second end wall and coacting therewith and with said side walls and the other of said transverse walls to provide a second rolled tape enclosure, said first and second covers normally lying on the upper edges of said side walls, and said transverse walls having upper edges spaced from said first and second covers to provide passages for tape extending from one chamber to the other.

2,312,895
SELF-REINFORCING PAPER CONTAINER
Harry K. Gordon, Seattle, Wash.
Application September 7, 1939, Serial No. 293,838
3 Claims. (Cl. 229—17)

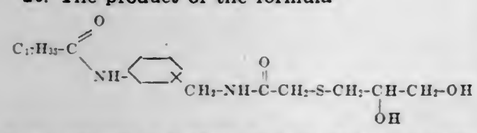


1. A dispensing carton comprising a rectangular bottom panel having a side wall integral therewith and extending upwardly from each of two opposed edges, said bottom also having a side panel integral with each remaining edge and rising therefrom, a lateral extension along each side edge of each side panel, one extension of each side panel lying along a line common with one side wall, the remaining extension of each side panel lying along a line common with the other side wall, adhesive means securing each so paired lateral extensions with the adjoining side wall, forming two double-thickness walls for said container, a neck forming portion on the upper end of each double-thickness side wall adapted to converge toward each other to close the container throat, a pinch-in portion on the upper end of each side panel adapted to be disposed between the converging neck forming portions and to close said carton throat, means for securing the flaps and pinch-in portions in the closed position, partial perforations in each member of a double-thickness wall to define a tearing member for access to the interior of the carton, said tearing

members being superimposed on each other, and a lip on the outer tearing member protruding from the body of said carton.

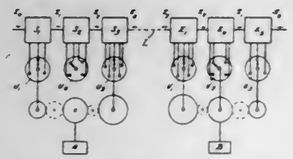
2,312,896
CONDENSATION PRODUCT AND PROCESS FOR PREPARING SAME
Charles Graenacher, Riehen, Richard Sallmann, Bottmingen, and Otto Albrecht, Munchenstein, Switzerland, assignors to Society of Chemical Industry in Basle, Basel, Switzerland
No Drawing. Application January 22, 1941, Serial No. 375,536. In Switzerland January 22, 1940
22 Claims. (Cl. 260—399)

20. The product of the formula



which product is a water-soluble, capillary active solid substance which is decomposed by boiling with hydrochloric acid one of the decomposition products being the hydrochloride of an aminomethyl derivative of stearic acid anilide.

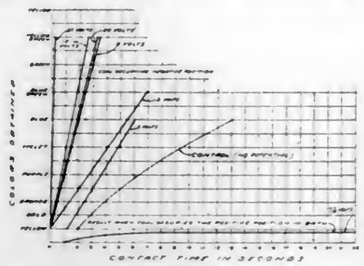
2,312,897
METHOD OF TRANSMITTING SIGNALS
Gustav Guanella and Walter Ernst, Zurich, Werner Lindecker, Ennetbaden, and Marcel Gabriel, Baden, Switzerland, assignors, by mesne assignments, to "Patelhold" Patentverwertungs-& Elektro-Holding A.-G., Glarus, Switzerland, a joint-stock company
Application October 9, 1940, Serial No. 360,516
In Switzerland July 14, 1939
20 Claims. (Cl. 179—1.5)



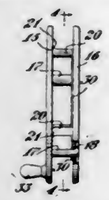
1. A method of sending and receiving signals in cipher which comprises subjecting a signal in succession to a plurality of substantially continuous time-delayed scrambling operations in each of which the order of elements of the signal is transposed in accordance with a preselected recurrent program to produce a multiscrambled signal, transmitting the multiscrambled signal, and subjecting the received signal to a plurality of successive, substantially continuous unscrambling operations corresponding in number to the number of scrambling operations and in each of which the order of elements of the signal is transposed in inverse relation to the transposition effected in the inversely corresponding scrambling operation.

2,312,898
METHOD OF BLUING COAL
Garnet P. Ham, Old Greenwich, and Robert B. Barnes, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
Application January 9, 1941, Serial No. 373,712
4 Claims. (Cl. 204—131)

1. A method of bluing coal which includes applying thereto a solution containing a ferricyanide and a ferric salt while continuously passing a direct current from a positive electrode, through the solution, to the coal, the latter serving as the negative electrode.

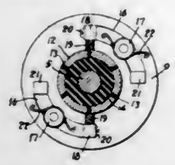


2,312,899
FISHLINE PACKAGE
Walter J. Hamburger, Dedham, Mass., assignor to H. Schindler & Co., Inc., Canton, Mass., a corporation of Massachusetts
Application March 13, 1940, Serial No. 323,685
7 Claims. (Cl. 242—116)



1. A fish-line package comprising a relatively flat side member, a plurality of outstanding members secured to one face thereof, a slot in said side member extending from adjacent the base of one of said outstanding members, a second relatively flat side member and an outstanding member secured to one face of said second side member and having an end portion adapted to slide longitudinally of said slot.

2,312,900
BALANCED BRUSH FOR ELECTRIC MOTORS
William L. Hansen and Ira N. Hurst, Princeton, Ind., assignors to Hansen Mfg. Company, Inc., Princeton, Ind., a corporation of Indiana
Application January 27, 1942, Serial No. 428,418
5 Claims. (Cl. 171—324)

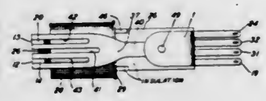


1. An electrical machine comprising a commutated armature element and a frame-supported field element in which the armature element rotates in the normal operation of the machine, a brush gear comprising an arm pivotally mounted on the frame, and having a brush holder at one end and a counterweight at the other end.

2,312,901
PROCESS OF PREPARING GONADOTROPIC PITUITARY HORMONES
Max Hartmann, Riehen, and Fritz Benz, Allschwil, Switzerland, assignors to Ciba Pharmaceutical Products, Incorporated, Summit, N. J.
No Drawing. Application January 22, 1941, Serial No. 375,539. In Switzerland January 18, 1940
3 Claims. (Cl. 167—74)

1. The process for the preparation of gonadotropic pituitary hormones which comprises treating a solution containing the said hormones with a strongly acid protein precipitant, separating the resultant inactive precipitate from the acid hormone solution, neutralizing the excess of acid in the latter, precipitating the active gonadotropic substance from the resultant solution by the addition thereto of a substance of the polynitrophenol type, and separating the active substance from the resultant precipitate.

2,312,902
RELAY
Clarence N. Hickman, Jackson Heights, and Emory Lakatos, New York, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 27, 1940, Serial No. 367,339
7 Claims. (Cl. 200—104)



1. In a relay, a pair of cores disposed parallel to and out of contact with each other, each of said cores having its forward end bent laterally and then outwardly to form a pole-piece, a strip of insulating material disposed adjacent to said cores having a lug on its forward end engaged between said laterally bent portions of said cores to hold said cores in spaced relationship, an energizing coil surrounding said cores and said strip, a heel-piece supported on the rear end of said strip and insulated thereby from the rear ends of said cores, a reed armature supported on said heel-piece, the forward end of which is attractable into conductive engagement with the pole-pieces of both of said cores, an insulating bushing disposed between the rear ends of said cores to hold them in spaced relationship, a clamping washer insulated from said cores by an interposed insulating washer, a mounting bracket and a screw extending through aligned holes in said clamping washer, said bushing, said heel-piece and said reed armature into a threaded hole in said bracket for clamping said elements together.

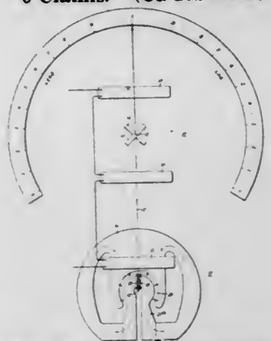
2,312,903
LADDERPROOF KNITTING
Walter Hirt, Wetzikon, and Arnold Dürster, Zurich, Switzerland
Application March 31, 1939, Serial No. 265,348
In Germany April 5, 1938
14 Claims. (Cl. 66—82)

1. In the production of knitted goods the steps which include drawing a secondary loop through a normal loop of a preceding course of stitches a plurality of times by means of point needles, thereby producing looping parts in the limbs



of the secondary loop which encircle the limbs of the loop through which it has been drawn.

2,312,904
POWER FACTOR METER
Stephen C. Hoare, Manchester, Mass., assignor to General Electric Company, a corporation of New York
Application July 8, 1941, Serial No. 401,421
6 Claims. (Cl. 172—245)

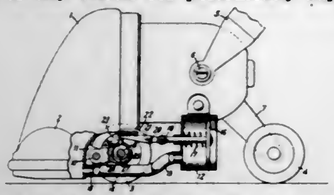


6. A power factor meter comprising a pair of power factor responsive instruments each having stationary field and a pair of rotary coils, current connections for energizing the fields in series from the circuit to be metered, voltage connections for energizing one coil of each instrument in series and another voltage connection for energizing the other coil of each instrument in series from the circuit to be metered, a shaft to which the rotary coils of each instrument are secured, such that the rotary position of said shaft is jointly controlled by both instruments, a power factor scale of the order of 250 degrees and graduated in power factor units from zero lagging, through unity, to zero leading, and a pointer secured to said shaft and movable over said scale by said instruments in response to power factor variations of the circuit to be metered as indicated by said pointer on said scale.

2,312,905
VACUUM CLEANER
Osmund Holm-Hansen, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York
Continuation of application Serial No. 362,729, October 25, 1940. This application August 29, 1941, Serial No. 408,744
7 Claims. (Cl. 15—16)

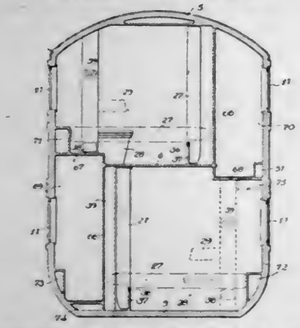
1. In a vacuum cleaner having a suction nozzle, supporting wheels, means supporting the nozzle on said wheels including an adjustable support whereby the height of the nozzle above the surface being cleaned may be varied, automatic means tending to adjust said support to a prede-

termined position, and means operated by rotation of the wheels for periodically supporting



the nozzle independent of said support whereby said support may be more readily adjusted.

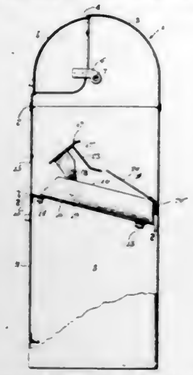
2,312,906
DOUBLE DECK SLEEPING CAR
Reuben H. Horton and John W. Patton, Philadelphia, Pa., assignors to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application March 28, 1940, Serial No. 326,364
3 Claims. (Cl. 105—315)



1. A sleeping car comprising a double-deck central portion, a series of individual compartments for patrons on each deck, longitudinal passages, one on each deck, providing access to said compartments, said passages being on opposite sides of the car for the respective decks, a longitudinal air-conditioning duct located on each deck and extending through the series of compartments on the associated deck, said duct for each deck being arranged in the corner formed by the bottom of the associated deck and the adjacent car side wall, some at least of said series of compartments being equipped with a folding bed hinged adjacent one end thereof near the associated passage wall and arranged to be folded, when not in use, against said wall and to be extended for use transversely of the compartment adjacent the bottom of the associated deck, the top of the air-conditioning duct for each deck being substantially at the level and forming an extension of the tops of the extended beds.

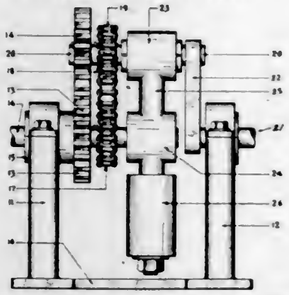
2,312,907
CABINET
Charles Huenlich, Bloomfield, N. J., assignor to Thomas A. Edison, Incorporated, West Orange, N. J., a corporation of New Jersey
Application January 7, 1941, Serial No. 373,381
11 Claims. (Cl. 45—2)

9. In a cabinet structure having an opening in the side wall thereof: the combination of a container removably mounted in said cabinet at said opening, said opening serving as a passageway through which correspondence or other papers may be placed into and removed from said container; a movable member on said container adapted to direct the papers, which are passed through said opening, into the container, said



member being urged inwardly of the container into ineffective position; and means, coacting with the cabinet when the container is in mounted position, to hold said member in effective position.

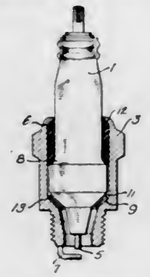
2,312,908
MECHANISM FOR TRANSMITTING POWER
Francisco Roig Ibañez, Mexico City, Mexico
Application November 17, 1941, Serial No. 419,495
In Mexico August 15, 1941
1 Claim. (Cl. 74—306)



A power transmission, including a power shaft, a driven shaft in axial alignment with the power shaft, a gear fixed against rotation and through which the power shaft extends in coaxial relation, an auxiliary shaft arranged in spaced parallel relation to the power shaft and driven shaft and movable about the power shaft as a center, a gear on one end of the auxiliary shaft in constant mesh with the fixed gear, a connecting rod on the opposite end of the auxiliary shaft and having driving connection with the driven shaft, sprocket wheels on the power shaft and auxiliary shaft, a chain engaging said sprockets to drive the auxiliary shaft in the operation of the power shaft, whereby to compel a planetary movement of the auxiliary shaft through the said gear cooperation and a driving action of the driven shaft through the connecting rod, and a counterbalance for the auxiliary shaft and the parts thereon, said counterbalance including a block having a free rotary bearing on the auxiliary shaft between the sprocket thereon and the connecting rod, a second block having free rotary bearing on the end of the power shaft in line with the first-mentioned block, a rigid connection between the blocks, and a weight rigidly carried by the

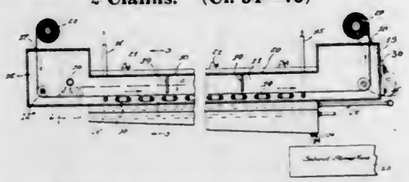
block on the power shaft and depending therefrom in line with the rigid connection and in parallelism with the connecting rod.

2,312,909
SPARK PLUG
Joseph A. Jeffery, Detroit, Mich., assignor to Champion Spark Plug Company, Toledo, Ohio, a corporation of Delaware
Application March 23, 1942, Serial No. 435,864
7 Claims. (Cl. 123—169)



1. In combination with the insulator and metal shell parts of a spark plug or the like, a gasket interposed between said parts comprising superposed layers of metal having different coefficients of expansion, the metal having the lowest coefficient of expansion being disposed adjacent the insulator part.

2,312,910
RECOVERY APPARATUS
Harley Y. Jennings, Clio, Mich., assignor to Copeman Laboratories Company, Flint, Mich., a corporation of Michigan
Application October 5, 1939, Serial No. 298,077
2 Claims. (Cl. 34—73)



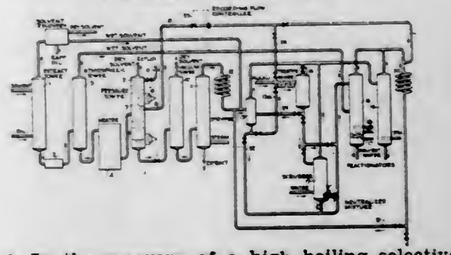
1. In a solvent recovery apparatus for recovery of chlorinated hydrocarbons from material which has been subjected thereto, entry and exit chambers spaced from each other, means for passing a continuous sheet of liquid treated material between said chambers, and a recovery apparatus connecting and disposed substantially at the bottom of said chambers, said recovery apparatus comprising a relatively long and shallow vaporization chamber, heating means disposed in said vaporization chamber adjacent the lower wall thereof and a relatively short distance below the liquid treated material, recovery chambers at each side of said vaporization chamber and having portions disposed below said vaporization chamber but open thereto, cooling means in the lower portion of each of said recovery chambers, whereby a heavier-than-air vapor derived from the heating of said treated sheet material will flow by gravity to the lower portions of said recovery chambers and be condensed by said cooling means, and outlet means in the lower part of said recovery chambers for draining off the condensed liquid, and means on the upper portion of the recovery chambers for permitting the discharge of air from the apparatus when the apparatus is initially operated.

2,312,911
SKATING SHOE AND THE LIKE
Charles Jewtraw, New York, N. Y.
Application February 26, 1941, Serial No. 380,615
2 Claims. (Cl. 36—71)



1. In a shoe having an upper opened along its front with eyelets on either side of said opening through which a lace is to be passed for closing said opening, a pad of rubber positioned within said shoe and extended along an edge portion of said opening for protecting the adjacent area of one's foot, and means for releasably holding said pad in a desired fixed position within said shoe, said means comprising posts mounted on the ends of said pad and selectively engageable with a spaced pair of said eyelets for positioning said pad at a specific point where protection is needed.

2,312,912
SOLVENT REFINING OF OIL AND RECOVERY OF THE SOLVENT
Wynkoop Kiersted, Jr., Scarsdale, N. Y., assignor, by mesne assignments, to The Texas Company, New York, N. Y., a corporation of Delaware
Application May 10, 1941, Serial No. 392,842
7 Claims. (Cl. 202—57)

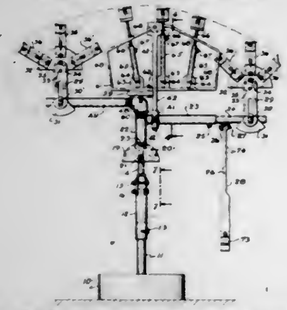


1. In the recovery of a high boiling selective solvent such as furfural from a mixture of oil and solvent obtained in extracting oil with the solvent, said mixture, after exposure to elevated temperatures sufficiently high to vaporize solvent therefrom, containing bodies corrosive to steel, the steps comprising heating the mixture of oil and solvent to a temperature substantially above the boiling temperature of the solvent, passing the heated mixture to a distilling column wherein substantial vaporization of the mixture including a large proportion of the solvent occurs in the substantial absence of steam, subjecting the vaporized portion to partial condensation to form an intermediate condensate comprising corrosive bodies boiling substantially into the range intermediate that of the oil and the oil solvent and which were not present in the solvent prior to extractive contact with the raw oil, withdrawing said intermediate condensate, removing the uncondensed solvent, withdrawing the unvaporized portion of the heated mixture of oil and solvent, distilling remaining solvent therefrom under relatively less severe temperature conditions, recovering said removed uncondensed solvent and said distilled remaining solvent substantially free from said corrosive bodies, and returning the so recovered solvent for extracting fresh feed oil.

2,312,913
POLYAMIDE COATED FILM ELEMENT
James Emory Kirby, Wilmington, Del., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 18, 1941, Serial No. 407,379
2 Claims. (Cl. 117—139)

2. A self-supporting film element comprising a water sensitive film base composed essentially of a fusible water insoluble synthetic linear polycarbonamide having an intrinsic viscosity of at least 0.4 and which is capable of being formed into fibers showing by characteristic X-ray patterns orientation along the fiber axis having at least one surface protected with at least one layer composed essentially of a 12-aminostearic acid polymer.

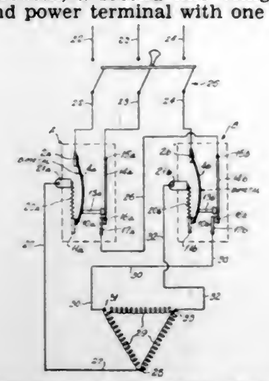
2,312,914
WORK HOLDING DEVICE
Stephen Koszeghy, West New York, N. J.
Application July 15, 1941, Serial No. 402,495
3 Claims. (Cl. 29—89)



1. A work holding device comprising, in combination: a frame including a plurality of telescopically adjustable, pivotally mounted work holding members, said frame being provided with stops adapted to restrict the pivotal movement of said work holding members, and said work holding members being provided with longitudinally and horizontally adjustable work engaging heads; a plurality of horizontally disposed members, at least one of said horizontally disposed members being telescopically adjustable; work supporting members adjustably mounted on said horizontally disposed members, said work supporting members comprising a longitudinally adjustable member, a semi-circular member pivotally mounted thereon, and a plurality of longitudinally and horizontally adjustable work engaging members pivotally mounted along the peripheral edge of said semi-circular member; and a plurality of longitudinally and horizontally adjustable work gripping members on at least one of said horizontally disposed members.

2,312,915
PROTECTIVE CIRCUIT
Edward F. Kurtz, Attleboro, Mass., assignor to Metals & Controls Corporation, Attleboro, Mass., a corporation of Massachusetts
Application September 15, 1939, Serial No. 295,039
6 Claims. (Cl. 175—294)

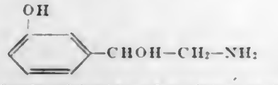
1. In combination with an electrical polyphase energy translating device having at least three power terminals, a protective circuit therefor including two double pole switches each having thermally responsive means for actuating it, and at least three power supply lines for the device, one of said lines being connected to one of said power terminals with one pole of one switch in series therewith, a second line being connected to a second power terminal with one pole of the



other switch in series therewith, and the second pole of each of said switches being connected in one of the lines other than the line in which its respective first pole is connected.

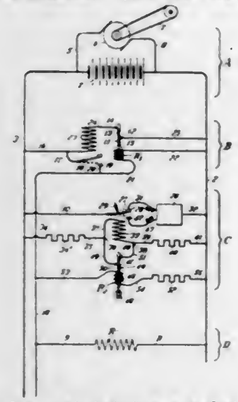
2,312,916
META-HYDROXYPHENYL-ETHANOLAMINE AND PROCESS OF MAKING THE SAME
Helmut Legerlotz, Paris, France, assignor, by mesne assignments, to Ciba Pharmaceutical Products, Incorporated, Summit, N. J., a corporation of New Jersey
No Drawing. Application January 24, 1940, Serial No. 315,443. In France September 14, 1938
1 Claim. (Cl. 260—570.6)

The meta-hydroxyphenyl-ethanolamine of the formula



forming a hydrochloride of melting point 159° C. and having marked blood pressure and hemostatic properties.

2,312,917
WATTAGE REGULATOR
Timothy J. Lehane, Chicago, Ill., assignor to Vapor Car Heating Company, Inc., Chicago, Ill., a corporation of New York
Application August 4, 1939, Serial No. 288,352
3 Claims. (Cl. 219—20)



3. Means for maintaining a substantially uniform heat output from an electric heater in circuit with a source of electric power of varying voltage, said means comprising a relay including a switch in the heater-energizing circuit, said switch and circuit being closed when the relay is deenergized, a control circuit including the source of power and the relay, a thermostat, and a switch operated by the thermostat in the control circuit that is open at normal temperatures, an auxiliary electric heater for raising the temperature at the thermostat to close the switch in the control circuit, and an energizing circuit for the heater including the source of power and the first-mentioned switch.

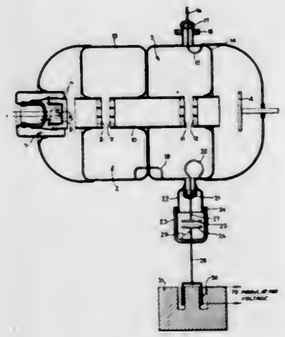
2,312,918
METHOD OF PRODUCING BUNSEN'S SALT
Urner Liddel, Greenwich, and Robert B. Barnes, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application July 10, 1940, Serial No. 344,700
8 Claims. (Cl. 23—77)

1. A method of preparing

$$(NH_4)_4Fe(CN)_6 \cdot 2NH_4Cl$$

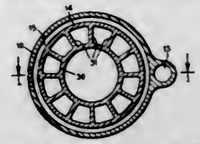
which includes the steps of adding solid ammonium chloride to a saturated solution of an alkali-forming metal ferrocyanide while maintaining the temperature of the reaction magma no less than that at which the solution was originally saturated with ferrocyanide.

2,312,919
MODULATION SYSTEM FOR VELOCITY MODULATION TUBES
Charles V. Litton, Redwood City, Calif., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application September 19, 1940, Serial No. 357,403
5 Claims. (Cl. 179—171.5)



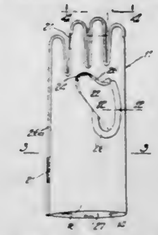
3. A frequency modulation system comprising a velocity modulation tube comprising a source of electrons, means for bunching said electrons into spaced electron groups, absorbing grids, a resonant chamber coupled to said grids, and means for collecting said electrons, and means for converting the output of said tube into a frequency modulated wave, said converting means comprising a variable impedance coupled to said resonant chamber, and means for varying said impedance at a modulation frequency rate.

2,312,920
ANODE COOLING JACKET
Charles V. Litton, Redwood City, Calif., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application February 7, 1942, Serial No. 429,871
4 Claims. (Cl. 250—27.5)



1. In combination, a vacuum tube anode, a wall around the anode and a jacket around the wall, said wall and jacket forming a chamber through which a cooling fluid is passed, and a web means connecting the anode and the wall, for conducting heat from the anode to the wall, said web means having a cross section and length in respect to the path of the heat flow proportioned to maintain the anode at a predetermined temperature above the temperature of the cooling fluid.

2,312,921
X-RAY-PROOF GLOVE
Morris Lubow, Brooklyn, N. Y., assignor to Wolf X-Ray Products Inc., New York, N. Y., a corporation of New York
Application October 17, 1941, Serial No. 415,363
10 Claims. (Cl. 250—108)

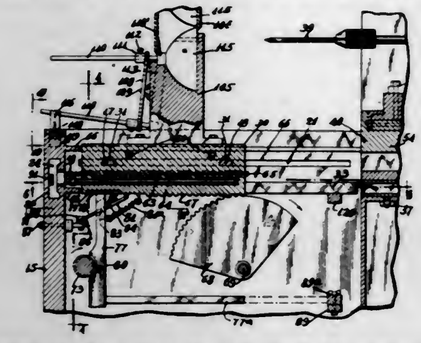


1. An X-ray proof glove comprising a trank constructed of lead impregnated rubber folded lengthwise upon itself to provide front and back glove sections, stitching flatly securing the free corresponding side edges and free finger edges of the folded glove sections together, and a lead impregnated rubber binding strip folded over the stitched edges and stitching and adhesively secured to adjacent portions of the front and back glove sections for ray-proofing the needle openings in the sections caused by stitching.

2,312,922
AUTOMATIC MACHINE FOR DRILLING, REAMING, ETC.
Philip Mann, Dover, N. J.
Application October 3, 1941, Serial No. 413,395
11 Claims. (Cl. 77—22)

1. An automatic machine for drilling and reaming, comprising a rectangular frame, a transverse rail system slidably mounted on said frame, a longitudinal rail system slidably mounted on said frame, a work supporting platform mounted on said rail systems to be movable transversely and longitudinally, adjustable support means for a gang of tools and mounted on said frame to be cooperative with a piece of work mounted on said supporting platform, resilient means urging said work supporting platform

transversely to a starting position, resilient means urging said work supporting platform longitudinally to a starting position, a rack on said platform, a gang of driven segmental gears co-



operative with said rack to move said platform longitudinally to certain transverse positions, means for moving and holding said platform in succession at said certain transverse positions, and means for releasing said platform.

2,312,923

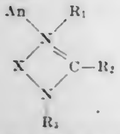
MOTHPROOFING COMPOSITION

Henry Martin, Basel, Hans Zaeslin, Riehen, near Basel, and Curt Glatthaar and Alfred Staub, Basel, Switzerland, assignors to the firm J. R. Geigy A. G., Basel, Switzerland

No Drawing. Application December 20, 1940, Serial No. 371,051. In Switzerland December 11, 1939

7 Claims. (Cl. 167—37)

1. A moth-proofing composition, containing as its essential active ingredient a quaternary cyclic monoamidine of the benzene series of the following general formula:



wherein R_1 means a member of the group consisting of high-molecular alkyl and benzyl radicals, R_2 means a member of the group consisting of aliphatic, benzyl, aromatic radicals of the benzene series, hydroaromatic and heterocyclic radicals, R_3 means a member of the group consisting of aliphatic, benzyl and aromatic radicals of the benzene series, X means a divalent aromatic radical of the benzene series connecting the two nitrogen-atoms, and An means an anion.

2,312,924

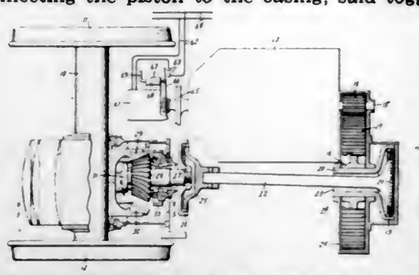
LOCOMOTIVE DRIVE ARRANGEMENT

Arthur H. Morey, Erie, Pa., assignor to General Electric Company, a corporation of New York

Application March 12, 1942, Serial No. 434,385

4 Claims. (Cl. 74—355)

1. Locomotive drive arrangement comprising an axle, two beveled gears having teeth facing each other for driving the axle in either direction of rotation, a beveled pinion cooperatively arranged with both gears, a power agency, means including a universal coupling having one element connected to the power agency and another element connected to the pinion, means for supporting the pinion comprising a casing and a pivotal support for the casing, a hydraulic motor having a piston and a toggle mechanism connecting the piston to the casing, said toggle



mechanism including a toggle which in an end position is located beyond its dead centerline, and means locking the casing into said position.

2,312,925

SEMISTIFF COLLAR AND METHOD OF PREPARING SAME

John Dorman McBurney, Newburgh, N. Y., and Edgar Hugo Nollau, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application June 7, 1937, Serial No. 146,960

14 Claims. (Cl. 154—2)



1. A semi-stiff collar comprising a plurality of fabric plies firmly bonded together by means of a thermoplastic composition, said composition comprising a methyl methacrylate resin and a softer synthetic resin selected from the class consisting of vinyl, alkyd, and aromatic sulfonamid formaldehyde resins, and being free from oils and sufficiently flow-resistant at the temperature of boiling water to prevent the migration of the composition through the interstices of the outer plies, said collar being capable of withstanding repeated launderings and pressings.

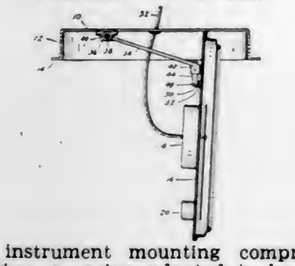
2,312,926

INSTRUMENT MOUNTING

Irving O. Miner, Rumford, R. I., assignor to Builders Iron Foundry, Providence, R. I., a corporation of Rhode Island

Application November 1, 1940, Serial No. 363,852

2 Claims. (Cl. 73—151)



2. An instrument mounting comprising, in combination, a casing adapted to be mounted vertically and having a front opening; a dial plate removably seated on the casing to close said opening; and hinge means within the interior of said casing connecting the dial plate thereto; the said hinge means comprising a vertical shaft secured to the back wall of the casing,

a pair of vertically spaced horizontally-extending arms pivotally mounted at one end on said shaft with the other end of each of said arms formed as an integral hollow boss obliquely inclined with respect to the longitudinal axis of the arm, a rod adjustably held in each of said bosses, a bracket pivotally connected to said rod and secured to the back of said dial plate, the pivots for said brackets being in vertical alignment.

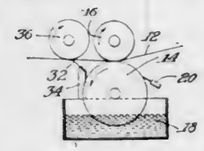
2,312,927

COATING OF PAPER

John D. Murray, Chicago, Ill., assignor to Murray Liquafilm Corporation, Chicago, Ill., a corporation of Illinois

Application September 22, 1938, Serial No. 231,102

1 Claim. (Cl. 91—33)



Apparatus for coating a sheet surface or the like comprising a heated bath of thermoplastic coating material, a rotatable deposit roll dipping into said bath and having its periphery formed with a plurality of closely adjacent recesses of known capacity for picking up material from said bath, a doctor blade wiping said roll periphery so as to leave a measured quantity of material on said periphery, a heated smoothing member contacting said deposited coating under pressure, said heated member comprising a springy flexible blade, and a rotatable roller backing the uncoated surface of said sheet.

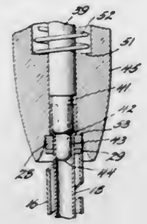
2,312,928

TOOL FOR ASSEMBLING MECHANICAL PENCILS

John William Para, Elizabeth, N. J., assignor to David Kahn, Inc., North Bergen, N. J., a corporation of New Jersey

Original application September 10, 1940, Serial No. 356,235. Divided and this application June 4, 1941, Serial No. 396,634

7 Claims. (Cl. 153—79)



1. A die member for compressing the spiral of a mechanical pencil on a runner tube provided with distortable ears comprising a telescoping die having a portion for compressing said spiral, a second portion movable relative to the first portion for distorting said ears to maintain the spiral in compressed condition, and a spring between the two portions adapted to determine the amount of compression imparted to said spiral by the first portion prior to the movement of said second portion to distort the said ears.

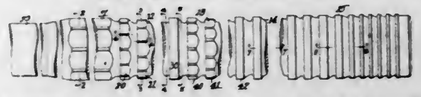
2,312,929

ROUGHING BROACH

Wilrose J. Phaneuf, Hudson, Mass., assignor to The Lapointe Machine Tool Company, Hudson, Mass., a corporation of Maine

Application April 28, 1941, Serial No. 390,844

1 Claim. (Cl. 29—95.1)



A roughing broach comprising a first cutting portion having a first plurality of cutting units with teeth in axial alignment and a second plurality of cutting units alternating with the units of said first plurality and with teeth axially aligned but offset one-half tooth space from the teeth of the units in said first plurality, all of the teeth in said first cutting portion being of substantially uniform external diameter but said teeth being of progressively increased width, and a second cutting portion having a first plurality and an alternating second plurality of cutting units with teeth axially aligned and relatively offset as in said first cutting portion, all of the teeth in said second cutting portion increasing progressively in width and all being of substantially the same external diameter and of substantially greater diameter than the teeth in the first cutting portion.

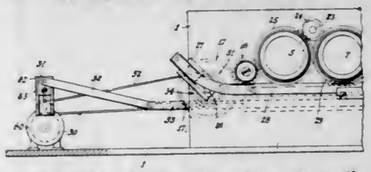
2,312,930

ORTHOPTIC APPARATUS

Alexander J. Radin, Brooklyn, N. Y.

Application May 29, 1942, Serial No. 445,055

10 Claims. (Cl. 128—76.5)



1. In a device of the character described, an eyepiece and objective for each eye, means for turning the lenses about their optical axes to vary the directions of the lines of sight, and means for controlling the turning means so that the lenses are turned automatically only a predetermined amount.

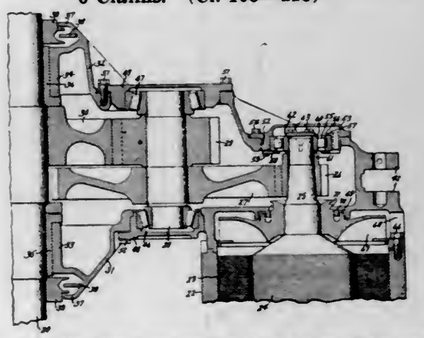
2,312,931

GEARED AXLE DRIVE

James C. Rhoads, Erie, Pa., assignor to General Electric Company, a corporation of New York

Application May 16, 1941, Serial No. 393,770

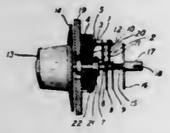
6 Claims. (Cl. 105—113)



1. An axle drive including an axle with an axle

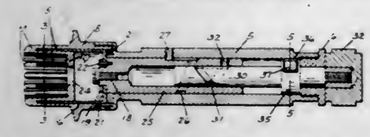
gear thereon, a driving motor having a drive shaft, gearing including a gear mounted on said motor shaft for driving said axle gear, a gear casing about said gears, an opening larger than said motor shaft gear formed in a side of said gear casing away from said motor substantially coaxially with said motor shaft gear, a bearing housing cover plate removably secured to said gear casing for closing said opening, and a bearing arranged to support each end of said motor shaft, one of said bearings being arranged in said bearing housing cover plate to support an end of said motor shaft and said motor shaft gear.

2,312,932
VARIABLE CONDENSER
Karl F. Rodgers, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 5, 1939, Serial No. 288,481
2 Claims. (Cl. 175—41.5)



1. A variable electrical condenser comprising in combination, a non-circular stator plate, a non-circular rotor plate, a circular rotor plate, both of said rotor plates being located on the same side of said stator plate and forming an end plate of said condenser, said circular rotor plate being the outside one of said rotor plates and said circular rotor plate being adapted to be moved relative to said non-circular rotor plate and into face-to-face engagement with said non-circular rotor plate.

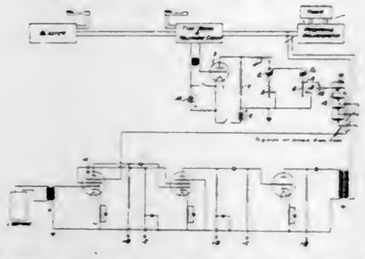
2,312,933
ROTARY CLIPPER
Hiester Seiders, Reading, Pa.
Application September 1, 1942, Serial No. 456,872
6 Claims. (Cl. 30—33)



1. A rotary clipper device comprising a cylindrical cutting head having a circular series of spaced-apart prongs each partially longitudinally slotted to jointly form a circular guide way for a cooperating cylindrical cutter blade mounted to rotate and move longitudinally in said head, said prong slots forming longitudinal cutting edges, and said cutter blade having cooperating end cutting teeth, and means for spirally projecting said cutting teeth across said prong slot cutting edges.

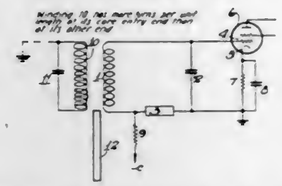
2,312,934
GAIN CONTROL FOR SEISMOGRAPH AMPLIFIERS
Earley M. Shook, Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application February 1, 1938, Serial No. 188,068
1 Claim. (Cl. 177—352)

In a seismograph circuit comprising a seismometer, an electrical amplifier and a recorder, the improvement that comprises a control circuit for controlling the degree of amplification of the amplifier, said control circuit including: a primary control circuit for the amplifier adapted to normally maintain the amplifier at a relatively high degree of amplification, said primary control circuit being a means for maintaining a bias on the grid of at least one thermionic tube in the amplifier; a secondary control circuit including a source of potential, a condenser, a means for applying said potential through said condenser across a resistance in said primary control circuit in such a manner that



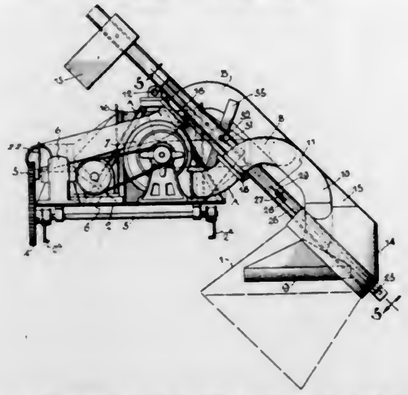
the secondary control circuit, if acting alone, would instantaneously cause the primary control circuit to reduce the degree of amplification of the amplifier to a relatively low degree and gradually allow the primary control circuit to return the amplifier to its normal high degree of amplification; and a third control circuit including a condenser and a resistor connected in series across the condenser in the secondary control circuit and the resistance in the primary control circuit so as to delay the application of potential across said first mentioned condenser and resistance and thus delay the reduction in amplification and cause it to take place gradually.

2,312,935
IMAGE SUPPRESSION SYSTEM
Dwight V. Sinninger, Chicago, Ill., assignor to Johnson Laboratories, Inc., Chicago, Ill., a corporation of Illinois
Application October 16, 1940, Serial No. 361,352
10 Claims. (Cl. 250—20)



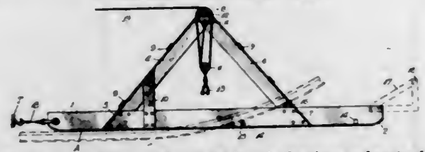
1. A circuit arrangement for the suppression of undesired responses in radio receivers and the like including a signal collecting means, a vacuum tube, a resonant circuit having an inductance coil, a conductively separate parallel resonant absorption circuit having a winding of a larger diameter than, and surrounding said inductance coil, and a ferromagnetic core arranged to be movable relatively to said coil and said winding, the diameters of said coil and said winding being so proportioned relative to one another that movement of said core tunes said first resonant circuit over a range of desired frequencies and simultaneously tunes said second resonant circuit over a range of undesired frequencies.

2,312,936
PORTABLE DRIER FOR USE WITH TUMBLING BARRELS
Donald P. Smith, Norwood, Ohio, assignor to The Alvey-Ferguson Company, Cincinnati, Ohio, a corporation of Ohio
Application January 5, 1942, Serial No. 425,659
2 Claims. (Cl. 34—131)



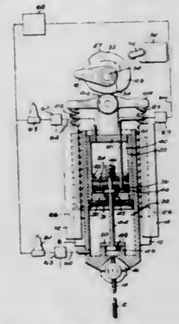
1. A transportable apparatus for a nozzle delivery of a blast of heated air into a conventional tumbling barrel, comprising: a portable support, a blower and a heater chamber, carried by said support, a conduit interconnecting said blower and said heater chamber, a radial arm pivoted upon said portable support, a hood on the forward end of the radial arm providing a closure for the open end of the barrel, a conduit interconnecting said hood and said heater chamber, a nozzle fixed to said arm within the confines of the hood and a conduit interconnecting said nozzle and said blower, the swing of the arm adapted to alternately bring the hood into or out of operation with said tumbling barrel.

2,312,937
APPARATUS FOR THE REMOVAL OF RAILWAY RAILS FROM PAVEMENT
Fred W. Stiefel, Milton-on-Hudson, N. Y., assignor of one-fourth to Daniel L. Morris, New York, N. Y.
Application December 10, 1942, Serial No. 468,588
2 Claims. (Cl. 254—104)



2. A movable self-contained device adapted to be continuously dragged forwardly by a tractor while in operation to remove railway rails from pavement without unduly mutilating the pavement which includes: a pair of parallel pressure plates spaced from each other slightly greater than the width of the flange of the rail to be removed and adapted to ride on the pavement surface on opposite sides of the rail, a rigid inverted substantially V-frame having forward and rearward legs rigidly connected with the pressure plates and extending upwardly therefrom, and a bar connected with and extending between the pressure plates between the forward and rearward legs of the frame and closer to the rearward legs than to the forward legs and in close proximity to the pavement engaging faces of the pressure plates and adapted to engage beneath the rail as the device is drawn forwardly to force the rail from the pavement.

2,312,938
APPARATUS FOR SPOT WELDING
Hermann W. Stieglitz, Marblehead, Mass., assignor to Thomson-Gibb Electric Welding Company, Lynn, Mass., a corporation of Massachusetts
Application January 30, 1941, Serial No. 376,634
16 Claims. (Cl. 219—4)



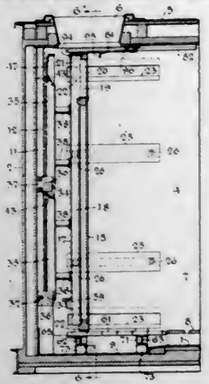
9. A spot welding machine having in combination rotatable means having two cam lobes, means operated by one of said lobes and including a closed pneumatic cushion to apply pressure of relatively low intensity to an electrode and means operated by the other of said lobes and including another closed pneumatic cushion to apply additional pressure to said electrode.

16. In a welding machine, motive means having two cylinder members, an outside one and an inside one movable in the outside one, and a piston member movable in said inside cylinder member, a work engaging part, means connecting said part to one of said members, means for movably supporting said inside cylinder member, means for moving said inside cylinder member to thereby advance said piston member and to cause said part to move to a work engaging position, and means for introducing an elastic fluid at controllable pressure into a space between the head of the inside cylinder member and the piston member so as to urge said piston member to move said part as the inside cylinder member is moved, said elastic fluid enabling said inside cylinder member to continue to advance after said part has reached work engaging position.

2,312,939
MOVABLE BULKHEAD FOR VEHICLES
Edward A. Sweeley, Alexandria, Va., and Norman T. Anderson, Washington, D. C.
Application February 17, 1942, Serial No. 431,306
15 Claims. (Cl. 62—19)

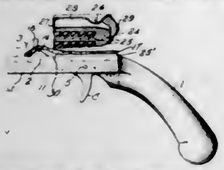
1. In a railway or other vehicle for transporting merchandise having a main floor with a drip pan at one end thereof and a false floor above said main floor, the combination comprising a removable grating adapted to be positioned over said drip pan to provide a continuation of said false floor, a bulkhead extending transversely of the vehicle interior and shiftable over said grating and from a position adjacent the corresponding vehicle inner end wall to a position adjacent said false floor, bunker side walls foldable during nonuse to positions along said vehicle inner end wall

and for use to positions along the vehicle inner side walls, and means adapted to provide reinforcement between said vehicle inner end wall and



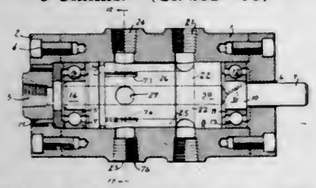
said bulkhead and to provide support for said grating in an elevated ice supporting position during use of said ice bunker to receive ice for refrigerating the vehicle.

2,312,940
FRUIT PEEL PRESS
Melville D. Truesdale, Stamford, Conn.
Original application August 24, 1936, Serial No. 97,700. Divided and this application December 23, 1938, Serial No. 247,513
13 Claims. (Cl. 100—41)



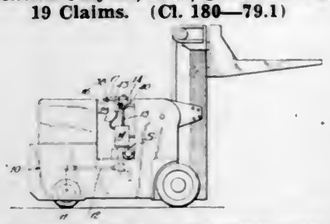
13. An apparatus for extracting essential oils from fruit peel, comprising a substantially flat support for the peel, means carried by the support for bulging a portion of the peel, and means for moving the portions of the peel on each side of the bulge together to transform said bulge into a fold and to press the peel at the fold to express oil therefrom.

2,312,941
ROTARY VALVE
Warren R. Tucker, Dayton, Ohio, assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del., a corporation of Delaware
Application July 30, 1941, Serial No. 404,683
5 Claims. (Cl. 251—98)



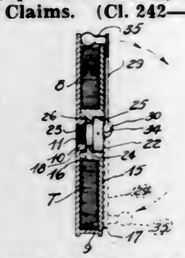
1. A rotary valve comprising in combination a stationary valve member having at least three ports therein, a rotatable valve member with a plurality of passages for cooperation with said ports, said passages being so arranged as to hydraulically balance said rotatable valve member against thrust due to pressures in two of said ports in all positions of the rotatable valve member, and additional passages arranged to balance the valve member against thrust due to pressure in a third one of said ports when out of communication with the others of said ports.

2,312,942
POWER STEER SWITCH
Bronislaus Ulinski, Chicago, Ill., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut
Application July 23, 1940, Serial No. 346,935
19 Claims. (Cl. 180—79.1)



1. In a combination of the class described, a handle grip, a manually operated switch lever mounted in juxtaposed relation to said handle grip and adapted for manual movement relatively to said handle grip by the application of manual pressure against said switch lever, means whereby a directional steering circuit is closed by the movement of said switch lever in one direction relatively to said handle grip, and means whereby an opposite directional steering circuit is closed by the movement of said switch lever in an opposite direction relatively to said handle grip.

2,312,943
ENGINEER'S TAPE BOX
Paul R. Van Buskirk, Detroit, Mich.
Application September 8, 1941, Serial No. 409,998
9 Claims. (Cl. 242—84.8)

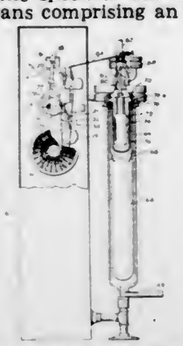


3. An engineer's tape box comprising an outer shell including a rim, an elongated opening in said rim, a cover plate forming a closure for the shell and rotatably journaled thereon, a flattened section on the outer periphery of the cover plate, a handle hingedly mounted on the plate and provided with a knob, said handle being foldable to swing the knob into the opening in the rim and lock the cover plate against rotative movement with relation to the shell.

2,312,944
DENSITY COMPENSATOR FOR FLOW METERS
James P. Voller, Providence, and Edgar R. Loud, Cranston, R. I., assignors to Builders Iron Foundry, Providence, R. I., a corporation of Rhode Island
Application April 22, 1941, Serial No. 389,768
5 Claims. (Cl. 73—206)

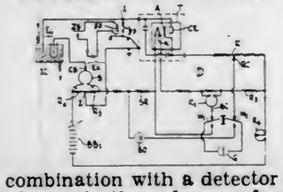
1. A density compensator for a flow meter

comprising, in combination, float means responsive to changes in the density of the liquid being metered; an integrator; means for driving the integrator comprising a pendulum having a weight supported by a strap from a fixed pivot for regulating the speed of the driving means; and control means comprising an element mov-



able with respect to said strap thereby to provide an adjustable fulcrum therefor between said weight and said pivot, and linkage connecting said element and said float means whereby said element is positioned by said float means to vary the effective length of the pendulum in accordance with changes in the density of the liquid.

2,312,945
MEASURING SYSTEM
Albert J. Williams, Jr., Philadelphia, Pa., assignor to Leeds & Northrup Company, Philadelphia, Pa., a corporation of Pennsylvania
Application March 2, 1937, Serial No. 128,636
44 Claims. (Cl. 175—183)

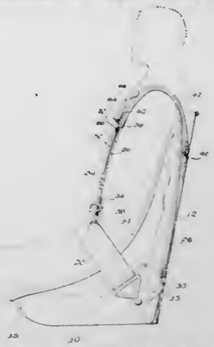


1. The combination with a detector responsive to electrical energization, of means for decreasing the drift of said detector from true zero, means for deenergizing said detector, and means controlled by said detector for actuating said first-named means during deenergization of said detector for substantially eliminating its drift.

26. In combination, a glass electrode, a thermionic tube, a conductor connecting the glass electrode to the grid of the tube, indicating means in remote relation to said tube, a cable adapted to connect the plate of the tube to said remote indicating means, means adjacent said tube operable for rendering said tube effective and ineffective, and control means adjacent said indicating means for actuating said operable means.

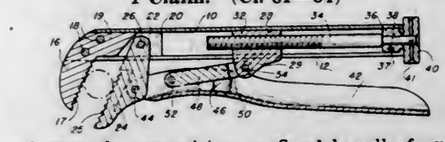
2,312,946
SEAT HARNESS
Michael Watter, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application January 21, 1941, Serial No. 375,144
13 Claims. (Cl. 244—122)

1. In combination with a seat having a back substantially shoulder high, a shoulder strap secured at one end to the inside of the back of said seat at a point substantially in the region of the shoulder blade of an occupant thereof, said strap being adapted to extend over the shoulder of the occupant to a position adjacent the waist of the occupant, and means for securing the waist portion of said strap to the seat



and connecting with said strap at a point adjacent the waist of an occupant, said strap having a resilient section therein adjacent the waist end, and means for rendering said resilient portion ineffective to permit elongation of said strap.

2,312,947
WRENCH
August A. Westman, [illegible]rnation, Wash.
Application June 9, 1941, Serial No. 397,199
1 Claim. (Cl. 81—84)

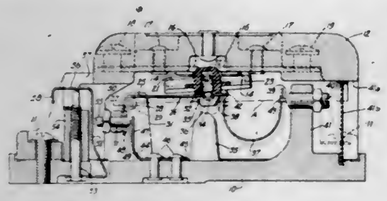


A wrench, comprising: a fixed handle formed of a tubular member having a slot along one side thereof, a fixed jaw secured to the forward end of the handle and projecting from the side thereof having said slot, a movable jaw hinged at one end to said fixed handle so as to cooperate with said fixed jaw to hold objects therebetween, a movable handle pivoted at one end to the mid portion of said movable jaw, said movable handle being shaped and adapted to lie along side of said fixed handle and to move to and from said fixed handle, an adjusting block having a sliding fit with and lying on the inside of said fixed handle, said block having a lug projecting through and adapted to slide along the slot in said fixed handle and said block having a threaded opening therethrough and parallel to the longitudinal axis of said handle, a threaded bolt engaged in said block and projecting beyond the rear end of said fixed handle with an adjusting knob on the rear end thereof, means for journaling and retaining said bolt in said fixed handle against displacement therealong, and a link between the lug on said block and the forward portion of said movable handle to form therewith a toggle link between said block and said movable jaw.

2,312,948
THERMAL LIMIT SWITCH
Russell A. Winborne, East Orange, N. J., and Raymond L. Coultrip, Waukegan, Ill., assignors to Edison General Electric Appliance Company, Inc., Chicago, Ill., a corporation of New York
Application March 10, 1942, Serial No. 434,054
8 Claims. (Cl. 200—138)

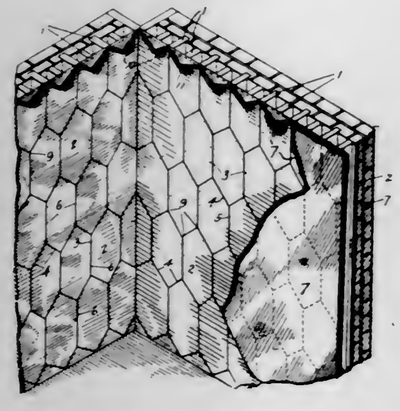
1. In an over-temperature limit switch, a

base, an L-shaped operating member mounted for rotation on said base, said member comprising a resilient arm and an actuating arm, a bimetallic element having a base portion mounted on said base and having a freely moving portion projecting from said base in juxtaposition with said actuating arm whereby said freely moving portion of said bimetallic element engages said actuating arm and rotates said member upon a predetermined deflection of said bimetallic element in response to temperature



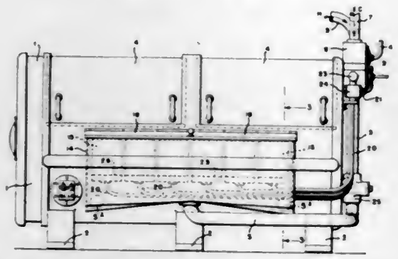
changes, a resilient over-center spring member engaging the free end of said resilient arm so as to exert a thrust on and thereby cause a deflection of said resilient arm, said resilient arm acting to store energy so that the free end of said resilient arm moves with a snap action at a predetermined temperature of said bimetallic element, and a switch comprising a stationary contact and a movable contact, said movable contact being carried on said resilient arm adjacent the free end thereof.

2,312,949
WALL PANEL CONSTRUCTION
John J. Zeugner, Baltimore, Md.
Application August 20, 1940, Serial No. 353,357
2 Claims. (Cl. 72—124)



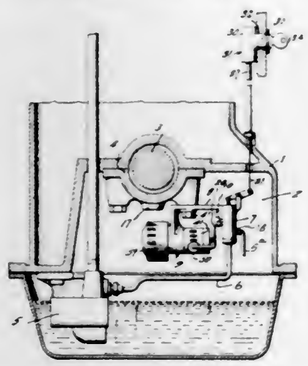
1. A wall-board unit of the class described for corner construction comprising in combination a plurality of panels joined together along a common edge line and bent angularly with respect to each other so that the said edge line can form a corner homogeneously joined for the unit, the remaining edges of the panels being angularly disposed to each of their adjoining edges and adapted to form a divergent line joint where other units are brought adjacent thereto to form a wall or ceiling surface.

2,312,950
AGENT SUPPLYING ATTACHMENT FOR WASHING MACHINES
Louis Zimarik, Syracuse, N. Y., assignor to The Prosperity Company, Inc., Syracuse, N. Y., a corporation of New York
Application October 22, 1940, Serial No. 362,254
7 Claims. (Cl. 68—17)



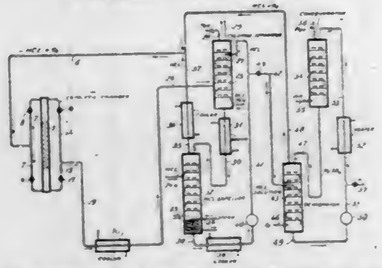
2. An agent supplying attachment for washing machines having a valve controlled feed conduit through which water is filled into the machine, the conduit including a tank portion having a plurality of receptacles for the different agents, the receptacles being located in the tank, and valve controlled pipes communicating with the feed conduit and with the bottom portions of the receptacles respectively, the receptacles overflowing at their upper ends into the tank portion, all whereby the water passes from the feed conduit, when open, through any of the pipes that are open, into the bottom portions of the corresponding receptacles, mixes with the ingredients therein and overflows into the tank and flows with the main stream into the machine.

2,312,951
SAFETY DEVICE FOR AUTOMOBILES
Erazm A. Zoub, New York, N. Y.
Application July 25, 1940, Serial No. 347,539
5 Claims. (Cl. 116—33)



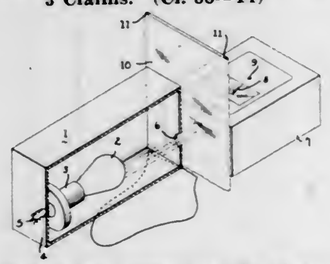
1. In a signal device for a motor vehicle adapted to be used in connection with the oil pump of an internal combustion engine, an audible alarm operated by the pressure of the oil in the oil pump mounted within the crank case, valve means disposed in the oil line for connecting the alarm with the pump whereby an alarm is given when the engine is started, and hand operated means within the vehicle to actuate said valve means to prevent communication between the pump and the alarm.

2,312,952
METHOD OF PRODUCING CHLORINE
Frederick R. Balcar, Stamford, Conn., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York
Application April 26, 1941, Serial No. 390,577
4 Claims. (Cl. 23—219)



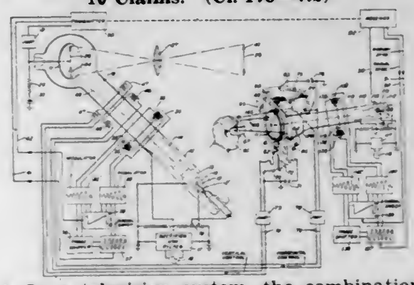
1. The method of producing chlorine by oxidation of hydrogen chloride which comprises delivering hydrogen chloride admixed with oxygen to a catalyst capable of promoting the oxidation of hydrogen chloride, washing the reaction product with dilute hydrochloric acid to separate unreacted hydrogen chloride and a small amount of chlorine therefrom, subjecting the washing liquid to counter-current contact with vapors produced by heating the liquid after such contact, introducing hydrogen chloride containing impurities reactive with chlorine below the level at which the washing liquid is introduced, for contact with the liquid and the vapors therefrom so that the chlorine in the washing liquid may react with impurities contained in the impure hydrogen chloride, condensing the moisture from the effluent hydrogen chloride, and utilizing the moisture-freed hydrogen chloride in the catalytic reaction with oxygen.

2,312,953
SHEERNESS METER
Jerome Barney, Bethlehem, Pa., assignor to The R. K. Laros Silk Co., Bethlehem, Pa., a corporation of Pennsylvania
Application April 30, 1941, Serial No. 391,155
3 Claims. (Cl. 88—14)



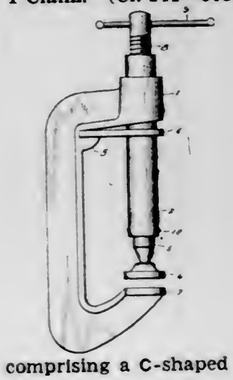
1. Apparatus for measuring the sheerness of women's hosiery, said apparatus comprising a light source contained in an enclosure provided with an opening, said light source being constituted of an electric lamp to which energy is supplied from a constant voltage source, a diaphragm of adjustable size being secured over said opening, a second inclosure having an opening presented to the opening in the first inclosure and containing a light sensitive device, said device being provided with a pointer which moves over a scale calibrated in degrees of sheerness, said inclosures being spaced apart a sufficient distance to receive a double thickness of the hosiery through which light is projected onto the light sensitive unit for determining the degree of sheerness of the hosiery, a stretching frame for supporting the hosiery between said enclosures, and a light filter interposed between the hosiery and the opening in the first-mentioned inclosure, the color of the light filter being approximately the same as the color of the hosiery which is being tested.

2,312,954
OBSERVER CONTROLLED TELEVISION SYSTEM
Ralph Bown, Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 4, 1941, Serial No. 396,545
10 Claims. (Cl. 178—7.2)



1. In a television system, the combination of a pick-up device adapted to deliver vision signals representative of a selected portion of a field of view, means for altering said selected portion of said field under control of auxiliary signals, a reproducer device adapted to reproduce an image of said selected field portion from said vision signals, a movable element located at said reproducer and adapted to deliver auxiliary signals to said field portion selecting means, means located at said reproducer adapted to be fitted to the head of an observer viewing said reproduced image and to execute arcuate movements with said head about a point outside of the body of said observer, said means being coupled with said movable element to effect selection of a desired portion of the field of view of said pick-up device under control of said arcuate movements to create the illusion that the observer is viewing the field through an aperture in an opaque partition.

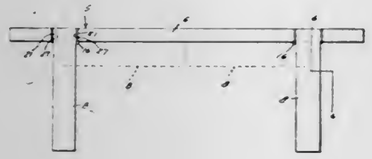
2,312,955
QUICK ADJUSTABLE CLAMP
Elwyn A. Camburn, Logan, Utah
Application April 24, 1941, Serial No. 390,187
1 Claim. (Cl. 144—305)



A clamp comprising a C-shaped frame having

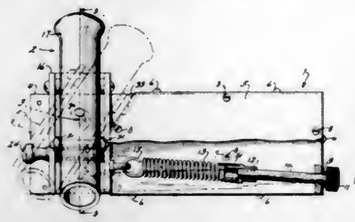
an arm provided with a fixed jaw at one end of the frame and an arm provided with a tubular guide at the other end of the frame, a sleeve slidably mounted in the guide, a stem having threaded adjustment in the sleeve, the lower end of the stem having a jaw adapted for movement toward and away from the fixed jaw of the frame, a locking plate having an opening aligned with the guide for slidably receiving the sleeve, a shoulder on the frame spaced from the guide supporting arm of the frame for loosely receiving one edge of the plate therebetween, said one edge of the plate being shaped to conformably receive a part of the frame to prevent movement of the plate in a direction laterally with respect to the frame, said guide supporting arm being inclined with respect to the axis of the sleeve to provide limited longitudinal movement for the plate relative to the guide to cause a binding action of the sleeve in the opening of the plate.

2,312,956
COLLAPSIBLE HORSE
Harry C. Campbell, Bowling Green, Ohio
Application March 6, 1942, Serial No. 433,658
3 Claims. (Cl. 304—5)



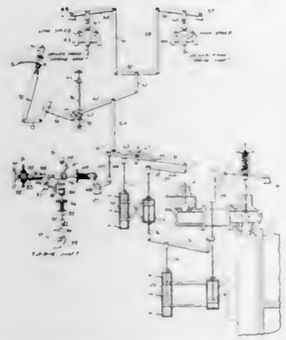
1. A collapsible horse comprising a normally horizontal rail formed with pairs of inwardly beveled notches in the opposite sides of the ends of said rail, pairs of normally upwardly converging ground engaging legs having their upper ends normally recessed in said notches, and compound hinges securing the legs to the opposite ends of said rail, said compound hinges comprising components providing for laterally swinging the legs of the pairs toward and away from each other and providing for swinging the pairs of legs in laterally inward directions into substantial parallelism beneath said horizontal rail, said compound hinge comprising a first plate, a second plate having an end thereof hinged to an end of the first plate, said second plate underlying said rail between the beveled notches, converging flanges on the opposite sides of said second plate engaging the beveled surfaces of the notches, means securing said converging flanges in place, said first plate having wing plates hinged on the opposite sides thereof, means securing said wing plates to the inner sides of the upper ends of the paired legs, said wing plates being arranged to overlie said converging flanges within the notches when the legs are in operative spaced position.

2,312,957
FISHING ROD HOLDER
Henry W. Cannon, Jr., Rockwood, Maine
Application June 25, 1940, Serial No. 342,350
3 Claims. (Cl. 248—42)



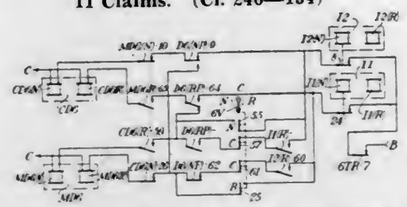
3. A fishing rod holder comprising a base adapted to be secured to a supporting member, a holder for the butt end of the fishing rod pivotally attached to the base, said holder comprising a socket member and a channel member, a pair of links, the upper ends of which are attached to the socket, and the lower ends being slidably attached to the channel member whereby the position of the socket with respect to the channel member can be varied, a spring, one end of which is secured to the channel member and the other end of which is associated with the base to maintain the socket under spring tension, means to adjust the tension on the spring, and a stop carried by the base to limit the amount of pivotal movement of the holder with respect to the base.

2,312,958
WIDE RANGE TURBINE GOVERNING ARRANGEMENT
Reed J. Caughey, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application October 25, 1939, Serial No. 301,220
3 Claims. (Cl. 264—3)



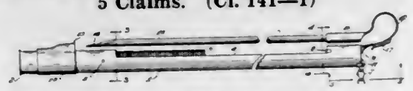
1. Governing system comprising a plurality of devices responsive to consecutive non-overlapping ranges of an operating condition of a machine, each device having a stroke consisting of a plurality of partial strokes, an element to be controlled in response to changes of such operating condition, means for connecting the devices to the element, said means including a link and lever mechanism with a leverage sufficient to effect movement of the element through its entire operating range in response to a partial stroke of any one of said devices, and means for adjusting the mechanism to select operation of one of the devices at a particular partial stroke.

2,312,959
SWITCH CONTROL AND INDICATION SYSTEM
Giulio Cinl, Turin, Italy, assignor, by mesne assignments, to The Union Switch and Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application October 26, 1940, Serial No. 362,972
In Italy April 6, 1940
11 Claims. (Cl. 246—134)



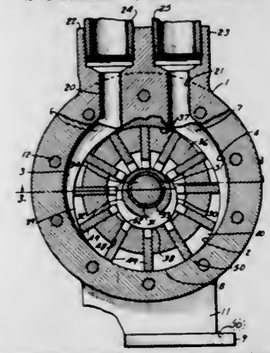
1. In a system for the control, operation and indication of a railway switch, in which two-position locking relays are provided each comprising a normal and a reverse magnet with normal and reverse contacts, respectively, having the characteristic of remaining closed in the position corresponding to the magnet last energized until the opposite magnet becomes energized, whereby the normal contacts become closed in response to energization of the normal magnet and remain closed until opened in response to energization of the reverse magnet, and whereby the reverse contacts become closed in response to energization of the reverse magnet, and remain closed until opened in response to energization of the normal magnet; the combination comprising, an operating locking relay for said switch, a control locking relay for said switch, manual control means for said switch, a reverse circuit for said switch controlled by its manual control means and by a normal contact of its control locking relay for energizing the reverse magnet of its operating locking relay, a normal circuit for said switch controlled by its manual control means and by a reverse contact of its control locking relay for energizing the normal magnet of its operating locking relay, a second reverse circuit for said switch controlled by a reverse contact of its operating locking relay and by a reverse switch contact closed by said switch in the reverse position for energizing the reverse magnet of its control locking relay, a second normal circuit for said switch controlled by a normal contact of its operating locking relay and by a normal switch contact closed by said switch in the normal position for energizing the normal magnet of its control locking relay, and operating means for said switch controlled by its control and operating locking relays for operating said switch to its normal and reverse positions.

2,312,960
MEANS FOR SPREADING DISKS
Earl R. Couden, Chicago, Ill.
Application December 15, 1941, Serial No. 422,953
5 Claims. (Cl. 141—1)



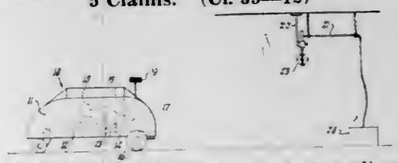
1. Mechanism for spreading disks having apertures therein comprising a supporting member to extend through apertures in the disks and along which the disks are movable, said member being notched, a coil spring terminally anchored within said member for receiving the disks between its convolutions, a resilient hook at the notched portion of said member formed with a tubular free end, prongs connecting said hook to said member, a floating guide rod carried by said hook end in yielding spaced relation to and extending longitudinally of said supporting member and through other apertures in the disks, a sleeve slidably arranged upon said supporting member for binding engagement with and disengagement from said guide rod, and a chain engaging said coil spring and extending beyond said supporting member for expanding said spring and for engagement with the notched portion of said member.

2,312,961
FLUID PUMP OR MOTOR
David S. Cowherd, Kansas City, Mo.
Application November 8, 1939, Serial No. 303,393
2 Claims. (Cl. 103—136)



1. In a rotary fluid pump or motor, a housing, a shaft rotatably mounted in the housing, a rotor on the shaft arranged within the housing, a cam in the housing arranged within the rotor, blades mounted in said rotor, fluid inlet and outlet passages in the housing so arranged that rotation of said shaft causes the blades to act on said passages to move fluid exposed thereto from one to the other thereof, and communicating cooperative means in said blades and cam respectively for equalizing internal fluid pressures in the rotor normally caused by flow of fluid into the interior of said rotor.

2,312,962
TRAINING APPARATUS FOR TEACHING RADIO NAVIGATION
Luis de Florez, Pomfret, Conn., and Emmon Bach, Scarborough, N. Y.; said Bach assignor to said de Florez
Application August 28, 1940, Serial No. 354,484
5 Claims. (Cl. 35—12)



1. A device for training students in radio navigation and homing, comprising a land vehicle having wheels thereon, a beam signal transmitter disposed exteriorly of said vehicle and free from connection therewith, means for moving and steering said vehicle relatively to said transmitter over a small area around said transmitter at a speed that is extremely low as compared

with the speed of an aeroplane in flight, and a receiver in said vehicle for receiving said signals, said transmitter including means for emitting a quadrantal beam pattern of waves effectively over substantially said small area, only.

2,312,963

PLASTICIZED POLYVINYL ACETAL RESIN

Elmer R. Derby, Springfield, Mass., assignor, by mesne assignments, to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Original application November 2, 1937, Serial No. 172,442. Divided and this application January 22, 1942, Serial No. 427,721

10 Claims. (Cl. 260—36)

1. A polyvinyl acetal resin plasticized with a mixture of phenyl ethyl alcohol and an alkyl ester of lauric acid.

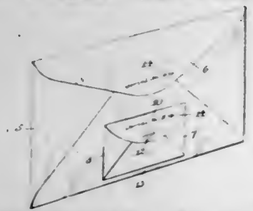
2,312,964

EMERGENCY MAILING ENVELOPE

Donald B. Dickinson, Silver Creek, N. Y.

Application March 14, 1941, Serial No. 383,397

5 Claims. (Cl. 229—72)



1. A mailing-container for emergency use, having a comparatively small protector strip adhesively applied thereto and a coin envelope considerably smaller than the container adhesively attached to said protector strip, said protector strip serving to prevent rupture of or tearing through the material of said mailing container when tearing off the coin-envelope therefrom.

2,312,965

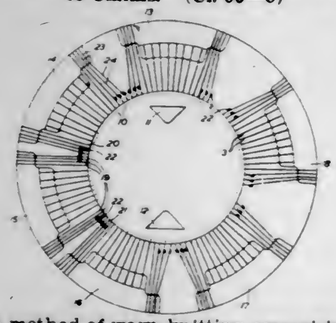
PRODUCTION OF KNITTED FABRICS

Albert Fairholme Guyler, William Henry Boaler, and William Ewart Stanley, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware

Application January 29, 1941, Serial No. 376,432

In Great Britain February 3, 1940

28 Claims. (Cl. 66—8)



1. A method of warp-knitting comprising knitting a circular series of threads in turn into a circular series of stitches, previously formed in a circular series of threads, said knitting being effected at at least two points moving progressively round said circular series of threads and stitches and, in the intervals between the occasions on which each thread is knitted, guiding that thread to and fro within a small range circumferentially of said circular series whereby each thread is confined to a small number of wales in the resulting warp-knitted fabric.

2,312,966

POLYMERIC MATERIAL

William E. Hanford, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application April 1, 1940, Serial No. 327,324

7 Claims. (Cl. 260—78)

1. A process for making polyamides which comprises reacting by heating under amide-forming conditions different polyamide-forming compositions one of which is a mixture of a diamine and a dicarboxylic acid and another of which is an acyclic monoaminomonocarboxylic acid of the formula



wherein R is a hydrocarbon radical containing 7 to 12 atoms, R′ is a hydrocarbon radical containing 5 to 9 carbon atoms, and R′—C—R—C has a chain length of at least 16 atoms, and continuing the reaction under said conditions until the polymer obtained can be spun into filaments which can be cold drawn.

2,312,967

CHEMICAL PROCESS AND PRODUCT

William Edward Hanford, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 18, 1940, Serial No. 346,143

12 Claims. (Cl. 260—404)

1. A process which comprises reducing at a temperature between 25° C. and 200° C. the ketone group to an amino group in compounds of the general formula:



wherein A is selected from the class consisting of —OH, —OR″, —NH_2, —OM, —ONH_4, halogen and



R is a bivalent open-chain organic radical containing at least 4 atoms in the chain, said chain being selected from the class consisting of carbon atom chains and carbon atom chains in which some of the carbon atoms are replaced with a member of the group consisting of oxygen, sulfur and nitrogen, R′ is a monovalent open-chain hydrocarbon radical of 3 to 12 carbon atoms in the chain, R″ is an alkyl group, and M is a metal, followed by hydrolysis of the resulting product thereby obtaining compounds of the general formula:



wherein R and R′ have the above indicated

significance, and R‴ is selected from the class consisting of hydrogen and monovalent open-chain hydrocarbon radicals.

12. A new chemical compound, 12-aminostearic acid, which when crystallized from an 80% aqueous tertiary-butanol solution is a white microcrystalline powder melting at 137° to 138° C. and having the property of being insoluble in lubricating oil.

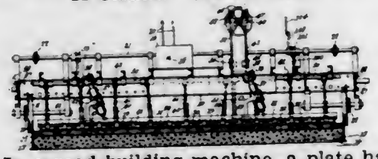
2,312,968

CONCRETE FLOATING AND BRICK SURFACING MACHINE

Joseph William Heltzel, Warren, Ohio

Application March 23, 1940, Serial No. 325,606

11 Claims. (Cl. 94—45)



1. In a road building machine, a plate having substantial weight and composed of independently movable road-contacting members, each member comprising a narrow elongated strip having upstanding flanges with vertical alined slots and front and rear upturned ends, flexible rods passed through the slots of said members, spacing members on the rods between the first mentioned members, said rods being secured to the outer flanges of the end members, perforated lugs on the bottom walls of said members near the rear portions thereof, springs secured to the rods at the front portions of the members and to the lugs at the rear portions of the members, flexible connections connected to the springs, drums on the machine for said flexible connections, and means for manually controlling the winding and the unwinding of said drums.

2,312,969

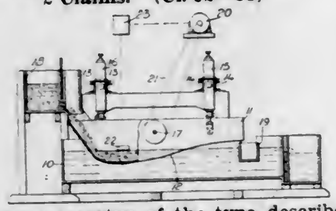
APPARATUS FOR CONTROLLING IN GRADING, DRAINING, OR WASHING FIBROUS SUSPENDED MATERIAL

Nils Walfrid Jönsson, Obbola, Sweden

Application December 17, 1938, Serial No. 246,477

In Sweden September 8, 1936

2 Claims. (Cl. 92—33)



1. In an apparatus of the type described including a trough having a dam at one end thereof for receiving the suspension to be treated, a screening member elastically supported within the trough and having a substantial part thereof immersed under a dammed up surface of the suspension, a motor actuating said screening member to impart vibrations thereto, a servo-motor adjacent the first mentioned motor for varying the revolutions thereof, and a float resting on the surface of the suspension and responsive to the rise and fall of the level thereof connected to the servo-motor for automatically controlling the number of vibrations imparted to the screen according to the rise and fall of the said level.

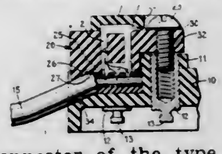
2,312,970

TELEPHONE CORD CONNECTOR

Ernest S. McLarn, Manhasset, N. Y., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

Application July 7, 1942, Serial No. 450,027

4 Claims. (Cl. 173—340)



1. In a connector of the type described, a clamping block, a plurality of contact members disposed side to side in spaced parallel relationship to each other in said block, insulation piercing teeth on each of said members, a screw individual to each contact member for holding said block in engagement with a parallel-conductor cord and for forcing the teeth of said contact member through the insulation of a conductor, and means comprising said screws for connecting circuits to said contact members.

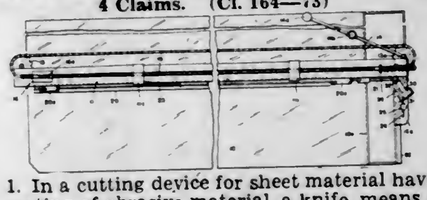
2,312,971

INSULATED SIDING CUTTER

James H. Norrid, Detroit, Mich.

Application January 26, 1942, Serial No. 428,162

4 Claims. (Cl. 164—73)



1. In a cutting device for sheet material having a coating of abrasive material, a knife, means for producing relative movement between said knife and sheet material and means movable in advance of said knife for removing said abrasive material from the path of said knife.

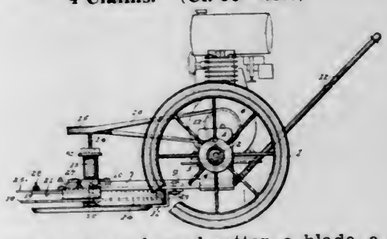
2,312,972

GRASS AND WEED CUTTER

John Alexander Orr, Chicago, Ill.

Application June 21, 1941, Serial No. 399,063

4 Claims. (Cl. 56—25.4)



1. In a grass and weed cutter, a blade, a shoe operatively supported below said blade, a guard plate immediately above said blade, and a drop flange depending from said plate cutting the plane of said blade.

2,312,973

DISPENSER

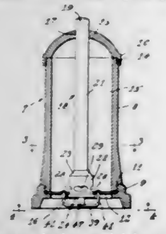
Edwin J. Osterbauer, Rockford, Ill.

Application February 24, 1940, Serial No. 320,600

9 Claims. (Cl. 221—104)

1. The combination in an article of the class

described, of a container having top and bottom closure members, each having an opening, a measuring plunger seating in said openings and projecting beyond the top member for actuation from an upper position downward to dispense a portion of the contents of said container through the opening between the periphery of the de-



pressed plunger and the said bottom opening, said plunger having a bore in the bottom end thereof, a stop on the bottom end of said container spaced from the bottom end of said plunger when the plunger occupies said upper position, and spring means in said bore acting against said stop to return said plunger upward.

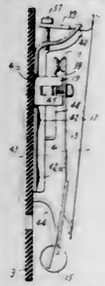
2,312,974

ELECTRIC CONTROL MEANS

Joseph W. Owens, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application December 31, 1941, Serial No. 425,152

9 Claims. (Cl. 200—113)



9. A control device comprising a base made of electrically insulating material, a first electrically conducting support secured to one side of said base and having a first portion extending in spaced relation with said base, said first portion being provided with a hump on the side opposite said base, a second electrically conducting support secured to the other side of said base and having a second portion extending laterally with respect to said base, a flexible electrically conducting contact arm extending over said hump, a rigid electric connection between one end of said contact arm and the end of said first portion, a movable contact on the other movable end of said contact arm, a rigid operating member extending along said contact arm and having one end secured to said contact arm at a point between said hump and the movable end of said contact arm, said rigid operating member extending over said hump and having its other end in spaced relation with the end of said first portion, a spring biasing said two ends toward each other whereby said operating member and said contact arm are biased about said hump as a pivot thereby to bias said contact arm to a predetermined position, a laterally extending arm on said operating member, a hot wire thermostat having one end rigidly and electrically connected to said arm and extending in spaced relation with said base, an adjustment member on said second portion of said second support, a rigid electric connection between the other end of said wire and said adjustment member whereby said contact arm is operated about said hump as a pivot by said wire in response to changes in the temperature of said wire, said wire and said supports being made of materials having substantially the same temperature coefficients of expansion so that the operation of said contact arm by said wire is independent of changes in the ambient temperature, a stationary contact on said base in position to be engaged by said movable contact, connections for connecting said hot wire and said contacts in series with each other in an electric circuit, an armature member made of magnetic material on said contact arm adjacent its end, and a magnet secured to said base adjacent said armature member so as to cause said contact arm to operate with a snap action.

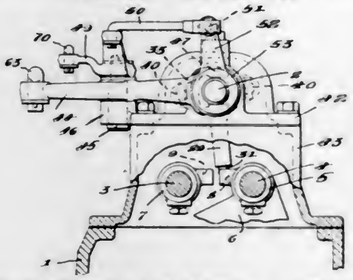
2,312,975

SELECTING AND SHIFTING MECHANISM FOR CHANGE SPEED GEARINGS

Carl D. Peterson and Albert H. Deimel, Toledo, Ohio

Application April 11, 1940, Serial No. 329,162

4 Claims. (Cl. 74—473)



1. In a selecting and shifting mechanism for change speed gearings including a gear box and shiftable elements therein, a shaft having a rocking selecting movement and an axial shifting movement, a manual selecting and shifting lever remote from the gear box and having a lateral selecting and a fore-and-aft shifting movement, a pair of levers mounted on the gear box and operatively connected to said shaft to rock and shift the same axially respectively, and motion transmitting means operated by the manual lever to transfer the selecting movement of the manual lever to one of the pair of levers and the fore-and-aft movement of the manual lever to the other of said pair of levers.

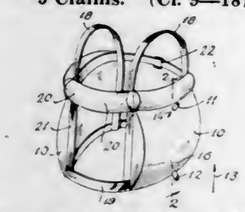
2,312,976

PROPELLING DEVICE

Edna F. Pels, Montclair, N. J.

Application October 6, 1941, Serial No. 413,775

5 Claims. (Cl. 9—18)



1. A swimming and propelling device compris-

ing at least one deflatable container, means for admitting water into said container, means for discharging water from said container into a predetermined direction and means for securing said container to the body of a wearer.

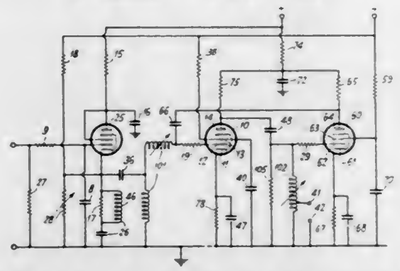
2,312,977

FREQUENCY MODULATION

William Spencer Percival, Ealing, London, England, assignor to Electric & Musical Industries Limited, Hayes, Middlesex, England, a company of Great Britain

Original application February 24, 1939, Serial No. 258,141, now Patent No. 2,231,854, dated February 11, 1941. Divided and this application October 3, 1940, Serial No. 359,514. In Great Britain February 24, 1938

4 Claims. (Cl. 179—171.5)



1. In a frequency modulation system, at least three electron discharge valves each having an anode, a control electrode and a cathode, a tuned circuit interconnecting the control electrode and cathode of one of said valves, a tuned circuit coupling the anode to the cathode of said one of said valves, a coupling between the control grid of another of said valves and said last named tuned circuit, a coupling between the anode of said other of said valves and said first named tuned circuit, a source of modulating potentials connected with the control grid and cathode of a third of said valves, a circuit including reactance connected between the cathode of said third valve and ground and a coupling between said last named circuit and said first named tuned circuit.

2,312,978

PROCESS FOR TREATING WOOD BLOCKS FOR SUCTION BOX COVERS AND THE LIKE

Jean Proulx, Hull, Quebec, Canada

No Drawing. Application September 20, 1940, Serial No. 357,663

1 Claim. (Cl. 117—149)

A process of treating suction box cover wood blocks which consists in removing the air and moisture from the cell interior of the wood by subjecting the blocks to reduced pressure, immersing such blocks in a molten mixture consisting of lanolin and a normally very hard paraffin wax, the percentage of lanolin being from substantially ½% to substantially 10% based on the quantity of wax, heating to 212° F. and at a reduced pressure of 20–26 mms. of mercury for approximately two hours, raising the pressure to normal, removing the blocks from the mixture and cooling.

2,312,979

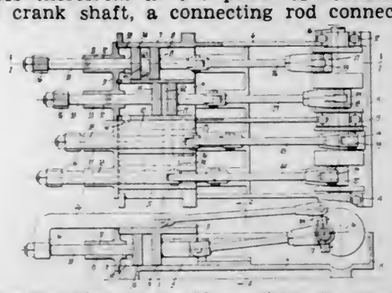
FLUID PUMP AND MOTOR MECHANISM

Albert G. Reynolds, Oakland, Calif.

Application January 13, 1941, Serial No. 374,155

6 Claims. (Cl. 103—200)

1. A fluid mechanism of the character described, comprising, a casing providing a cylinder, a pair of pistons, reciprocally mounted in said cylinder in opposed relation defining a fluid chamber therebetween, a crank shaft, a connecting rod connecting said crank shaft to one of said pistons, a member secured to said connecting rod and extending at substantially right angles therefrom in the plane of rotation of said crank shaft, a connecting rod connecting



said other piston to said member at a position spaced from said first rod to provide relative displacement of said pistons upon rotation of said crank shaft, and inlet and discharge passages connected to said chamber and valve means associated with said passages for admitting and discharging fluid upon relative displacement of said pistons.

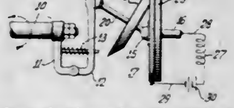
2,312,980

BREAKER DEVICE FOR ELECTRICAL CIRCUITS

John J. Root, Yonkers, N. Y., assignor to The Seymour Corporation of Delaware, Seymour, Conn., a corporation of Delaware

Application February 6, 1941, Serial No. 377,634

8 Claims. (Cl. 200—23)



3. In breaker devices for electrical circuits, the combination with a driving element having an axis and a driving portion adapted for rotation eccentrically about said axis, of a disk-like contact member stationarily mounted and having a central bearing member in line with said axis, said disk-like contact member having a surface making a right angle with said axis and arranged to provide alternate conducting and insulating portions, a shaft having one end mounted in said bearing member and disposed at an angle to said axis and arranged to be actuated by said driving portion, and a second disk-like contact member secured to said shaft at a point removed from said first contacting member and having a continuous circular portion spaced from said shaft in rolling contact with the working surface of said first-named contact member, the resulting circular contacting paths of said two contact members thereby being of different lengths progressively to present to any one point on the path of said stationary member a successively different contacting portion of said second member.

2,312,981

INFANT'S GARMENT

Edward A. Sheridan, Pawtucket, R. I., assignor to Vesta Underwear Company, a corporation of Rhode Island

Application April 4, 1940, Serial No. 327,844

2 Claims. (Cl. 2—111)

1. An infant's garment of continuous material

having three sections providing a front, an intermediate back, and a support, the back having an arcuate neck and shoulder tabs, the support being narrow and having a shoulder tab seamed to the adjacent back shoulder tab, and the front being of substantially the width of the back and having an arcuate neck and shoulder tabs, the



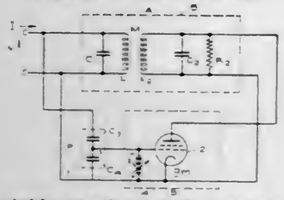
front shoulder tab adjacent the back being seamed to the adjacent back shoulder tab, the support having a button tape on the upper face, and the front having a button-hole tape on the rear face adjacent the edge, the height of the front shoulder tab not seamed to the back shoulder tab being greater than the height of the support shoulder tab.

2,312,982

VALVE OPERATED VARIABLE REACTOR

Luis Charles Stenning, Park Hill, Ealing, England, assignor to The General Electric Company Limited, London, England

Application September 6, 1941, Serial No. 409,913
In Great Britain September 30, 1940
3 Claims. (Cl. 178—44)



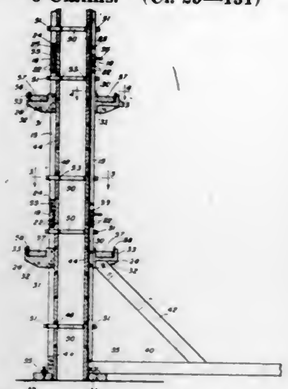
1. A variable reactor of the type comprising an impedance element and a thermionic valve connected thereto and means for varying the mutual conductance of said valve, in which the effective value of the reactance of said element is varied by adjusting the mutual conductance of said valve, said reactor having a first and a second four-terminal network connected together by connecting their corresponding input and output terminals each to each and serving as a two-terminal network when an oscillating voltage of a determinate frequency is applied across said input terminals, said first four-terminal network being constituted by a step-down transformer comprising a primary inductor and a secondary inductor coupled together and each being tuned by a capacity connected in shunt to resonate at the frequency of the applied oscillating voltage, said second four-terminal network comprising a potentiometer connected across the input terminals thereof, a thermionic valve, and means for varying the mutual conductance of said valve, the input and output terminals of said valve being connected with respectively a tap on the said potentiometer and an output terminal of the said networks, and the arrangement being such that the product of the step-down ratio of said transformer and the ratio of the transfer admittance to the output admittance of said first network, when so connected to said second network, is approximately a pure imaginary quantity.

2,312,983

CONCRETE WALL FORM

Omar Summers, Seattle, Wash.

Application March 24, 1941, Serial No. 384,833
3 Claims. (Cl. 25—131)



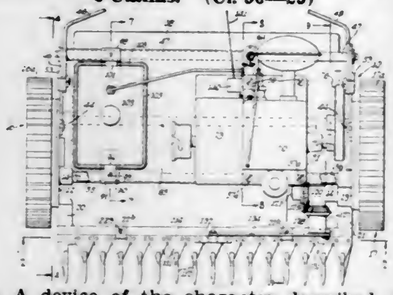
1. A wall for concrete forms comprising a panel of sheeting material having a plurality of stud members secured thereto in a manner to stand in a vertical position, each stud member comprising a bar having divergently extending flanges on one edge, forming a broad face, means for securing said member to the sheeting material, said bar being slotted therethrough substantially its full length at right angles to said broad face, and a stirrup secured in the slot in said bar for the reception of structural stringer members to lie transversely of said bar and to tie a plurality of said bars together.

2,312,984

MOTOR DRIVEN LAWN MOWER AND WEED TOPPER

Charles R. Underhill, Lower Bank, N. J.

Application November 18, 1940, Serial No. 366,155
6 Claims. (Cl. 56—25)



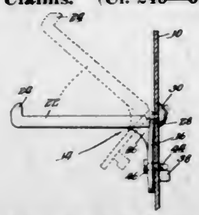
1. A device of the character described comprising a pair of annular coaxial frames, a handle pivoted thereto, a member on said handle parallel to the axis of said frames, a tie rod interconnecting said frames, a pair of traction wheels rotatably mounted on said frames, internal gears on said traction wheels and rotatable therewith, a transverse shaft parallel to the axis of said frames and spaced therefrom, a pair of pinions meshing with said internal gears, said pinions being journalled on the ends of said shaft and connected to said shaft by one-way clutches, a motor pivoted on said tie rod and resiliently attached to said member, and means interconnecting said shaft and motor to rotate said shaft when the motor is running, and blade cutters on said shaft and rotatable therewith.

2,312,985

HOOK

James E. Bales, Aurora, Ill., assignor to Lyon Metal Products, Incorporated, Aurora, Ill., a corporation of Illinois

Application November 4, 1940, Serial No. 364,264
6 Claims. (Cl. 248—304)



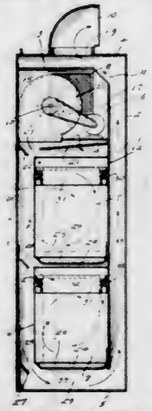
6. In a hook structure adapted to be supported in a plurality of spaced openings in a supporting structure, the combination of means on the hook structure including a plurality of spaced projections having portions adapted to extend through said openings for loosely removably supporting said hook structure in said openings, and means associated with at least one of said spaced projections and including a pin portion adapted to be projected into one of said openings along with the associated projection into threaded engagement with the edge of the supporting structure surrounding said last-named opening and means for preventing longitudinal displacement of said pin portion for preventing accidental dislodgment of said hook from said supporting structure.

2,312,986

FILM DRIER CABINET

Arthur W. Buck, St. Louis, Mo., assignor to Buck X-Ograph Company, St. Louis, Mo., a corporation of Missouri

Application March 30, 1940, Serial No. 327,019
9 Claims. (Cl. 34—211)



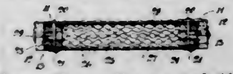
8. A drier, comprising a chamber having top, bottom and side walls, means for supporting in the chamber material to be dried, an air inlet in the top of the chamber close to one side wall, said inlet including means for directing air flow downwardly and obliquely through the chamber toward the opposite side wall, a fan for supplying air to said inlet, an air outlet for the chamber through the bottom wall and directly beneath said inlet, and a flange bordering the air outlet upon the side thereof remote from the said one wall and extending at an upward inclination from said bottom toward the said one wall, said material supporting means being located substantially at one side of the chamber and within the path of air directed downwardly and obliquely through the chamber by said directing means.

2,312,987

HEAT INSULATING PANEL

Donald D. Grassick, Chicago, Ill., assignor to Alfol Insulation Company, Inc., a corporation of Delaware

Application November 15, 1939, Serial No. 304,483
7 Claims. (Cl. 154—45)



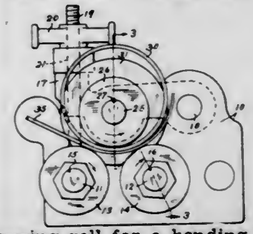
4. A preformed, unitary, relatively flexible heat insulating panel adapted for insulating the walls of refrigerated railroad cars, comprising a preformed bat of mass insulation covered with a heat reflective foil and a framework engaging the edge of said bat made up of relatively lightweight framing strips arranged to engage opposite faces of said bat and flexibly connected together by pivoting means to hold said bat in place but permitting distortion of the panel sufficient to conform with the weave and torque of a railroad car.

2,312,988

WRAPPING ROLL FOR BENDING MACHINES

William E. Kane, Syracuse, N. Y., assignor to Kane & Roach, Inc., Syracuse, N. Y., a corporation of New York

Application June 6, 1940, Serial No. 339,085
13 Claims. (Cl. 153—54)



1. A wrapping roll for a bending machine of the type having a plurality of work engaging rolls mounted on substantially parallel roll shafts at least some of which are drive shafts, said wrapping roll comprising a hollow roll adapted to be loosely mounted on one of said shafts, said hollow roll having an outer surface defined as a surface of revolution and adapted for forming the work in cooperation with the other work engaging rolls, and having an internal bearing surface adapted to engage said shaft throughout the work forming operation.

2,312,989

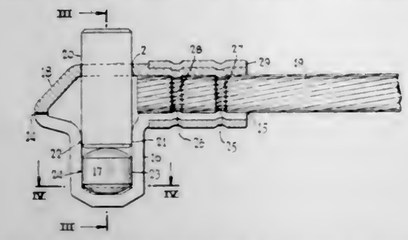
RAIL BOND

Frederick C. Lavarack, Montclair, N. J., assignor to Railroad Accessories Corporation, New York, N. Y., a corporation of New York

Application March 20, 1939, Serial No. 262,911
5 Claims. (Cl. 287—20.3)

1. The method of forming a railway rail bond terminal which consists first in forming a body into a blank with a substantially flat back formed with an orifice therethrough with two oppositely

disposed well projections formed with upstanding marginal portions and with a nose projection formed for a portion of its length with upstanding



marginal portions and with a sleeve projection formed with upstanding marginal portions and then in folding the blank to bring all opposite marginal portions in abutment.

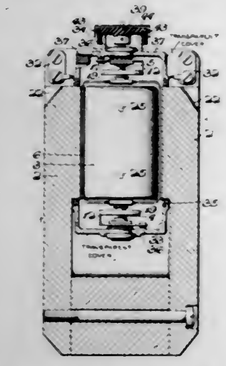
2,312,990

ELECTRICAL MEASURING INSTRUMENT

John H. Miller, Short Hills, N. J., assignor to Weston Electrical Instrument Corporation, Newark, N. J., a corporation of New Jersey

Application November 26, 1938, Serial No. 242,581

15 Claims. (Cl. 171—95)



2. In an electrical measuring instrument, a permanent magnet structure having spaced polar surfaces, front and back mounting plates spanning the polar surfaces, a core supported by said plates between said polar surfaces, a coil and bearings supporting the same for pivotal movement in the gaps between said core and said polar surfaces, and sealing means for said core and bearings, said sealing means including covers housing the respective bearings and seated against said magnetic structure and the mounting plates.

2,312,991

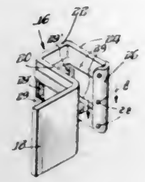
LATCHING DEVICE

John B. O'Connor, Aurora, Ill., assignor to Lyon Metal Products, Incorporated, Aurora, Ill., a corporation of Illinois

Original application January 12, 1939, Serial No. 250,568. Divided and this application February 24, 1941, Serial No. 380,245

1 Claim. (Cl. 292—340)

A keeper for a latching means for a locker or the like, said keeper comprising a plate having a free edge portion, and a cap substantially coextensive with the free edge portion of the keeper plate, said cap being substantially U-snaped in cross section, the depth of the keeper being many times the depth of the cap, whereby such cap envelops substantially only the tip of the keeper, the outer free edges of the ends of the leg portions of the U-shaped cap providing relatively sharp shoulders extending perpendicularly from the opposed outer faces of the keeper plate to provide relatively abrupt latching abutments adapted to be engaged by opposed latches, the width of the shoulders taken from the planes of



the outer faces of the keeper plate to the outer faces of the cap at the shoulder being sufficiently great compared to the width of the opposed latches whereby said shoulders engage and hold said latches from detachment from said keeper and the outer surface of the cap opposite said free edges of the cap being rounded to permit the latches to move over said cap from said rounded surface toward the opposite free edges and into engagement with the abutments formed by said sharp shoulders.

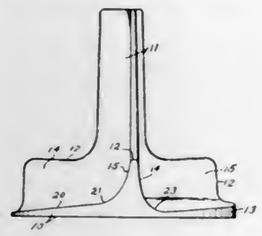
2,312,992

WASHING MACHINE AGITATOR

Charles C. Scheele, Syracuse, N. Y., assignor to Easy Washing Machine Corporation, Syracuse, N. Y., a corporation of Delaware

Application June 10, 1941, Serial No. 397,451

2 Claims. (Cl. 68—134)



1. A washing machine agitator comprising a substantially circular base, a plurality of symmetrical, flat blades of substantially uniform thickness extending vertically from said base, said blades being parallel to and offset in the same direction from one of a like number of symmetrically disposed reference radii of said base, said blades intersecting adjacent the center of the agitator to form a prismatic central column the respective faces of which constitute extensions of one side surface of each blade, whereby each of said blades is wider on one side than on the other, each of said blades being deeper on its wider side than on its other side, each of the segments of said base between adjacent blades having its upper surface lying in a plane that is substantially horizontal in the direction of the shallow side of a boundary blade and sloping in the direction of the deep side of the other boundary blade, and means for mounting said agitator to oscillate about the axis of its central column.

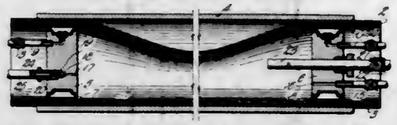
2,312,993

METHOD OF LINING PIPE

Joseph F. Stephens, Kansas City, Mo., assignor to Gustin-Bacon Manufacturing Company, Kansas City, Mo., a corporation of Missouri

Application August 10, 1938, Serial No. 224,097

7 Claims. (Cl. 154—2)



1. A method of manufacturing rubber lined pipe including the steps of positioning a rubber lined tube surrounded by a covering of porous material within the metal pipe to be lined, placing suitable bonding material between the porous covering and the metal pipe, closing the ends of the pipe and expanding the rubber lining and its porous covering against the inner surface of the metal pipe to be lined, and permitting gas entrapped between the rubber lining and the inside surface of the pipe to migrate to the atmosphere through said porous covering.

2,312,994

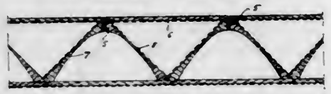
CONSTRUCTION OF WALLS

Robert Auguste Louis Weitzel, Strasbourg, France; vested in the Alien Property Custodian

Application January 28, 1938, Serial No. 187,514

In Luxembourg November 6, 1937

8 Claims. (Cl. 72—46)



3. In a hollow panel construction for buildings, a jointed structure comprising, in combination, a plurality of rigid slats juxtaposed with one edge of each of them parallel to the adjacent edge of the next one, and at least one band of flexible material secured to adjacent edges of adjoining slats for hingedly connecting said edges to one another, the structure constituted by said slats and flexible material being folded at the hingedly connected edges so that alternate ones of said slats are positioned alternately in the planes of the opposite surfaces of said panel construction to provide the oppositely disposed facing areas of said panel construction, and the intervening slats extending transversely of the construction from one facing area to the other to provide bracing and spacing elements therefor, certain of the adjoining edges of the bracing slats disposed in abutting relationship, and means on the edges of each one of said abutting bracing slats which interfit with corresponding means on the next adjacent bracing slat.

2,312,995

GAS TURBINE PLANT

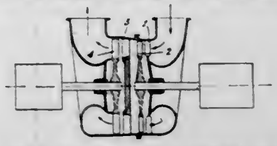
René Anxionnaz, Paris, and Roger Imbert, Mantes, France; vested in the Alien Property Custodian

Application July 21, 1938, Serial No. 220,590

In France August 4, 1937

3 Claims. (Cl. 253—16.5)

1. A gas turbine system for utilizing the energy of a motive gas under pressure, which comprises, in combination, a primary turbine unit and a secondary turbine unit arranged in series and respectively including a primary turbine wheel and a secondary turbine wheel, said secondary wheel disposed coaxially with but mechanically independent of said primary wheel and oppositely rotated, the blades of said primary wheel being those of an impulse wheel, gas discharging nozzles disposed in advance of said primary wheel and constructed and arranged to expand said gases to an extent necessary to transform a part only of the pressure of said gases into kinetic energy, said part, however, being in



excess of that which is converted into work by the primary wheel, said excess being considerably more than in the normal operation of the impulse stage of a conventional turbine system, said secondary turbine wheel disposed so as to receive the motive gases which are discharged from the primary wheel, said secondary turbine unit being so constructed and arranged as to utilize both the excess of kinetic energy and the remaining pressure energy of the gases.

2,312,996

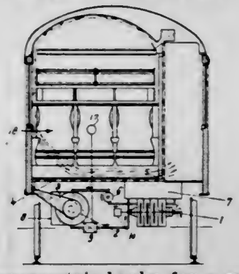
SYSTEM FOR CONTROLLING THE TEMPERATURE IN THE INTERIOR OF VEHICLES

Joseph Bethenod, Paris, France; vested in the Alien Property Custodian

Application October 12, 1938, Serial No. 234,731

In France October 22, 1937

3 Claims. (Cl. 237—2)



1. A dynamometric brake for a vehicle having a rotatable axle, including a hollow stator filled with a liquid and adapted to be mounted on said vehicle, a rotor immersed in the liquid in said stator and driven from said axle so as to turn in the liquid and transform the energy of rotation into heat, a utilization apparatus, a conduit system connected thereto and to the stator for carrying fluid to and from said stator, pump means for pumping the fluid heated in the stator into the conduits of said utilization apparatus, and automatic control means responsive to the speed of rotation of said axle and connected in said conduit system for substantialy regulating and maintaining the quantity of heat produced in said brake at a constant value as the speed of rotation of said axle varies.

2,312,997

METHOD OF FILLING A COMPRESSION MATRIX WITH PULVERULENT MATERIAL

Willem Bolk, Arnhem, Netherlands; vested in the Alien Property Custodian

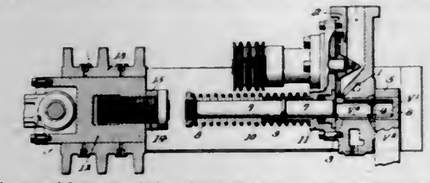
Application May 27, 1938, Serial No. 210,540

In the Netherlands June 16, 1937

3 Claims. (Cl. 18—48)

1. A method of molding pulverulent material

comprising projecting pulverulent material having a predetermined density imparted thereto by means of centrifugal force into a receptacle of fixed volume, expelling a portion of said material from said receptacle into a mold, compres-

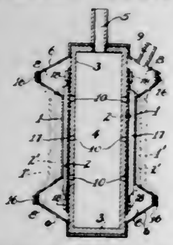


sing said material which has been expelled from the receptacle and that which remains in the receptacle and then removing the mold with the material therein while leaving in said receptacle the remainder of said material for the succeeding molding operation.

2,312,998
PROCESS FOR HARDENING FIBROUS PROTEIN MATERIAL
George Stephan de Kadt, Leeuwarden, Netherlands; vested in the Alien Property Custodian
No Drawing. Application February 17, 1939, Serial No. 257,028. In the Netherlands March 1, 1938
8 Claims. (Cl. 18—48)

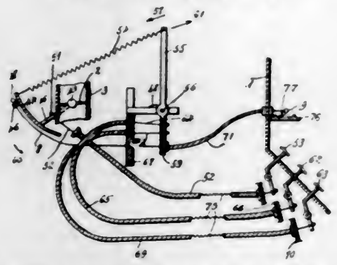
1. In a process for the treatment of fibrous protein material, which is hardenable by the action of methanal, the step which consists in hardening the said material by contacting the same with a methanal-containing medium by immersing the material in a methanal-containing bath at a boiling temperature above 70° C. for a maximum of about one hour, and agitating the bath during such immersion.

2,312,999
FILTER FOR SEPARATING SOLIDS FROM LIQUIDS
Lambertus Hendrik de Langen, Haren, Netherlands; vested in the Alien Property Custodian
Application December 19, 1939, Serial No. 309,936
In the Netherlands December 23, 1938
6 Claims. (Cl. 210—153)



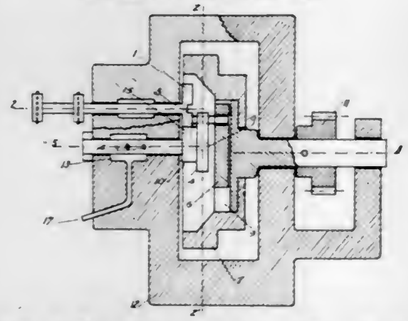
1. A filter for separating solids from a fluid comprising a hollow frame made of rigid material, a flexible deformable sleeve covering at least part of the outside walls of said frame, means for fastening said sleeve partly to said walls for defining a space between the walls of said frame and said sleeve, the walls of said frame including vents leading from the interior of said frame into the space defined between said frame and said sleeve, means for producing a varying pressure within the interior of said frame, projections provided on the outside of said sleeve, filter gauze made of elastic material placed over said sleeve, a conduit communicating with the space between said sleeve and said filter gauze for sucking in the fluid after removal of the solids and means for producing a suction in said suction conduit.

2,313,000
DEVICE FOR THE CONTROL OF THE FUEL SUPPLY OF ENGINES
Robert Hauguel, Le Havre, France; vested in the Alien Property Custodian
Application March 25, 1939, Serial No. 264,265
In France June 18, 1938
4 Claims. (Cl. 192—.01)



1. A device for the control of the fuel supply of an engine comprising a member carried by the throttle valve of said engine and outside the inlet pipe, a first cable connecting said member to a control knob, a second cable connecting said member to the accelerator pedal of the engine, a spring connecting the upper end of said member to the upper end of a rocking lever, a stop limiting the stroke of said rocking lever and two cables connecting the lower end of said rocking lever, respectively, to the clutch pedal and to the brake pedal.

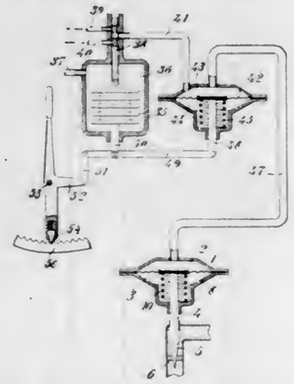
2,313,001
DRIVING MECHANISM
Frédéric Mathieu, Paris, France; vested in the Alien Property Custodian
Application January 20, 1940, Serial No. 314,811
In France February 18, 1939
8 Claims. (Cl. 74—436)



1. In a film conveying device for cinematograph projectors having a Maltese cross, a driving finger, a finger-carrying plate having a locking slope, the combination of a slide groove plate of relatively greater diameter than that of said finger-carrying plate and the latter plate being at least for the most part disposed within the area or outline of the slide groove plate, an elongated sliding piece in the slide groove of the plate engaging the finger of the finger-carrying plate, a driving spindle of the slide groove plate operable at constant speed, one of the three axes

of the Maltese cross, of the finger-carrying plate and of the slide groove plate being disposed externally of the plane of the other two axes, and the finger-carrying plate being distinct from the Maltese cross and the elongated slide piece and disposed in a plane intermediate said Maltese cross and slide piece.

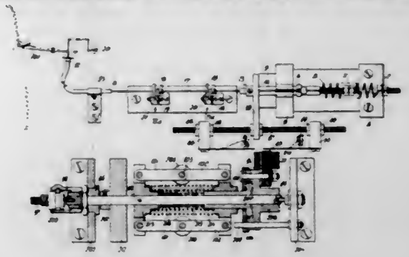
2,313,002
OPERATIVE FLUID DELIVERY CONTROL DEVICE
Marcel Mennesson, Neuilly-sur-Seine, France; vested in the Alien Property Custodian
Application May 16, 1938, Serial No. 208,303
In France September 11, 1937
1 Claim. (Cl. 137—139)



Control means for valves and the like, comprising a chamber, a pressure responsive member located in said chamber and adapted to be connected to the mechanism to be controlled, a source of control fluid under pressure, a conduit connected to said chamber for supplying control fluid to one face of said responsive member, spring means acting on the other face of said pressure member, a manometric capsule, automatic means for creating pressures which are a function of the pressure to which said capsule is subjected, said automatic means comprising a chamber, a diaphragm dividing said chamber, the space in the chamber on one side of said diaphragm being connected in said conduit, a compression spring acting on said diaphragm, a rod, one end of which is connected with said diaphragm, a bell crank lever adapted to be operated by hand, a link pivoted to one arm of said bell crank lever, and a bar pivoted to the other end of said link and to said rod to connect the rod and the link, and means connecting said bar intermediately to said manometric capsule, whereby said bell crank lever and its connected elements constitute a supplementary hand actuated control means.

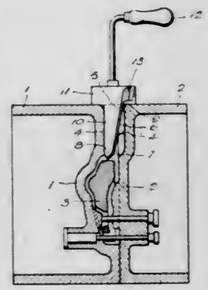
2,313,003
MECHANISM FOR THE AUTOMATIC CONTROL OF SPEED CHANGE TRANSMISSIONS OF MOTOR VEHICLES
Jacques Nougarou, Paris, France; vested in the Alien Property Custodian
Application January 11, 1940, Serial No. 313,336
In France November 3, 1937
11 Claims. (Cl. 74—472)

1. In means for automatically controlling a variable speed power transmission of motor vehicles having a plurality of electromagnets operative when energized in different combinations to actuate the elements of the transmission to set up different ratios of transmission, a plurality of movably supported electrical contacts in normally open electric circuits with said electromagnets, a lost motion connection between said contacts and said eccelerator adapted to displace



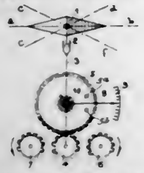
said contacts to one or the other of two operative positions when said engine accelerator moves into one or the other of its extreme positions, and a circuit maker movable parallelly of the movement of and relative to said contacts from and in correspondence with variations in the speed of the engine to selectively establish circuits through said contacts and energization of the electromagnets.

2,313,004
CASTING OF METALS
Percy Pritchard, Barnt Green, England
Application September 10, 1940, Serial No. 356,234
In Great Britain October 2, 1939
9 Claims. (Cl. 22—155)



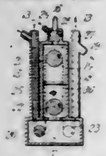
1. Improved means for casting metals comprising a mould apparatus having a single large chamber opening located in advance of and communicating with the part of said apparatus where the casting is made, and a removable baffle plate in said chamber dividing it into a pouring gate for the metal entering the mould on one face of said plate and a vent on the opposite face thereof, said plate being shaped and arranged in relation to one wall of said chamber opening to restrict the rate of flow of the molten metal, and having a deflector lip curved toward said wall to direct molten metal toward certain parts of the mould, said chamber opening also forming a riser from which the last poured molten metal will serve to feed the casting as the latter shrinks after pouring.

2,313,005
DYNAMIC COMPASS
Jean-Léon Reutter, Paris, France; vested in the Alien Property Custodian
Application January 3, 1940, Serial No. 312,220
In France January 4, 1939
5 Claims. (Cl. 33—222)



1. In a dynamic compass having an oscillating pivoted magnetic needle and actuating means imparting alternately and opposite driving impulses thereto at two points equally spaced, at opposite sides of the mean position of said needle, the combination of indicating means showing the orientation or changes of orientation of a movable support or craft carrying said compass, follow up control means for controlling said indicating means including a control member rigidly associated with the magnetic needle at one side intermediate the ends thereof, operating means disposed adjacent to said control member effective to correspondingly influence the actuating means according to the oscillations of said needle and impart any difference occurring between the durations of the opposite oscillations imparted to the needle on either side of its position of rest when said latter position varies with respect to the mean position of the operating means.

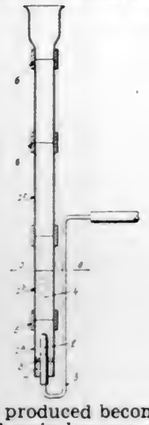
2,313,006
APPARATUS FOR RECOVERING CARBON BISULPHIDE AND SULPHURATED HYDROGEN DURING THE FINISHING PROCESS OF THE MANUFACTURE OF VISCOSE STAPLE FIBER
Wacław Ufnowski, Warsaw, Poland; vested in the Alien Property Custodian
Application February 8, 1938, Serial No. 189,410
In Poland February 15, 1937
1 Claim. (Cl. 18—8)



Apparatus for deacidifying and degassing artificial viscose fibers for recovering CS_2, H_2S and other gases in a continuous manner comprising a closed hot water filled chamber, hydraulically closed inlet and outlet means on said chamber for the fibers being treated, said means communicating with said chamber and a chamber on the top of and communicating with said first chamber, said last named chamber being provided with an inlet for hot water and an outlet for gas.

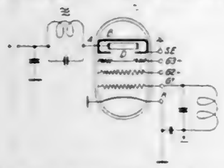
2,313,007
METHOD FOR TREATING MATERIALS
Marcel Marie Bertrand Abribat, Vincennes, France; vested in the Alien Property Custodian
Application May 23, 1940, Serial No. 336,786
In France May 25, 1939
2 Claims. (Cl. 252—303)

1. A method of separating a plurality of substances capable of forming foams of different rigidities which comprises subjecting a dissipation of the substances in a large proportion of water to a dispersed current of inert gas so as to form a column of foam directly above the liquid, continuing the foam-forming treatment until the



amount of foam produced becomes constant, and the substances therein become segregated at different heights in the foam column, due to the difference in rigidities of the foams, and removing at least one of the substances which has thus been segregated from the remainder of the foam.

2,313,008
ELECTRIC WAVE AMPLIFIER
Herman Berger and Felix Herriger, Berlin, Germany; vested in the Alien Property Custodian
Application October 23, 1940, Serial No. 362,464
In Germany November 30, 1939
4 Claims. (Cl. 179—171)

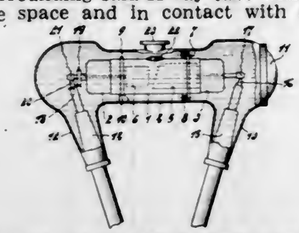


1. Apparatus for amplifying short wave energy comprising a hollow metal member divided into two chambers by an apertured wall, an elongated electron emissive cathode in one of said chambers extending in a plane parallel to the plane of said wall and adjacent the aperture therein, a multi-apertured grid mounted in said last-mentioned chamber between said cathode and said wall, a tubular member in the other of said chambers surrounding the path of electrons which are projected through said aperture, a source of fixed positive potential connected to said tubular member, a resonant circuit coupled to said tubular member and a resonant circuit coupled to said grid.

2,313,009
X-RAY TUBE
Albert Bouwers, Eindhoven, Netherlands; vested in the Alien Property Custodian
Application January 15, 1941, Serial No. 374,581
In the Netherlands October 3, 1939
6 Claims. (Cl. 250—90)

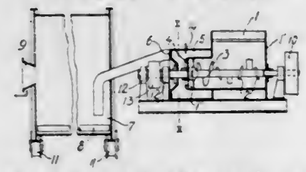
1. In an X-ray apparatus, an X-ray tube comprising a casing having a metal waist portion and vitreous end portions, a cathode and an

anode within said casing, said waist portion being in good heat-radiating relationship with the anode and receiving substantially all of the heat generated in the anode, a metal protecting envelope surrounding said X-ray tube with an intermediate space and in contact with said waist



portion, an insulating fluid within said space, the width of the space between said metal waist portion and the opposing surface of said envelope having a value at which the heat is transferred from said metal waist portion to said envelope by convection movement of said insulating fluid.

2,313,010
APPARATUS FOR THE PRODUCING OF AQUEOUS SUSPENSIONS OF CLAY
Holger Brudal, Strand, Baerum, near Oslo, Norway; vested in the Alien Property Custodian
Application December 9, 1939, Serial No. 308,484
In Norway December 10, 1938
2 Claims. (Cl. 83—6)

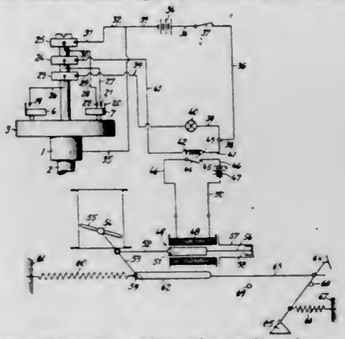


1. In an apparatus for the continuous production of aqueous suspensions of clay, especially adapted for use in the stabilization of gravel road surfaces and bases, a container for receiving the clay to be treated, this container having a restricted passage with a substantially unobstructed outlet opening into a second container, and a feeding device in said first-named container for continuously pressing the clay through the said passage and outlet in the form of a relatively dry mass, a rapidly rotating knife device mounted in the said second container in close proximity to the outlet from the first container for rotation in the transverse plane of said outlet, so as to cut the clay passing through the latter into very thin slices and small particles, and means for directing a jet of water against the knife device whereby the clay is wet simultaneously with the cutting thereof, so as to form the desired aqueous suspension and also to aid in freeing any adherent particles from the knife device.

2,313,011
APPARATUS FOR CONTROLLING THE SPEED OF REVOLUTION OF MACHINES
August Duwe, Villingen, Schwarzwald, Germany; vested in the Alien Property Custodian
Application June 24, 1939, Serial No. 280,947
In Germany June 27, 1938
10 Claims. (Cl. 264—17)

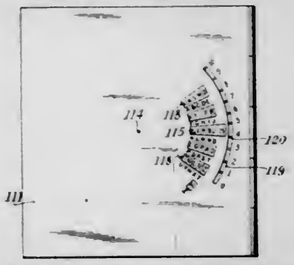
1. Apparatus, for controlling the speed of an engine having a throttle, said apparatus comprising governor devices controlled by the engine, one operating at a slightly higher speed than the other; a control device controlled by the higher speed device and controlling the throttle for throttling the throttle when the higher speed is reached; means for at will opening the throttle when not throttled by said device; and signal means controlled by the other governor device for warning the operator that the higher speed device is about to control if the speed increases.

10. Apparatus, for controlling the speed of an engine having a throttle, said apparatus comprising a body rotated by the engine; an astatic pendulum on said body actuated when a predetermined maximum speed is reached; a source



of power-medium; a throttle spring for opening the throttle; a control device controlled by the said medium for closing the throttle against the influence of the spring, the effective force of the medium against the spring being greater than the pressure of the spring; means controlled by said pendulum when actuated for causing said medium to apply its controlling force to the device for controlling the throttle at said rotated rate for throttling the throttle; and spring means normally overcoming the spring of the throttle for closing the throttle and operative at will for allowing the throttle spring to open the throttle when not throttled by said device.

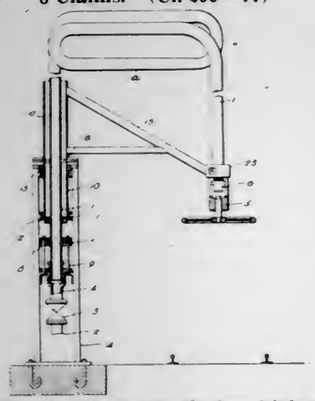
2,313,012
ENCIPHERING APPARATUS
Gustave Garnier, Paris, France; vested in the Alien Property Custodian
Application December 27, 1938, Serial No. 247,957
In France January 6, 1938
1 Claim. (Cl. 35—2)



An enciphering apparatus comprising the combination of a base, a plate pivotally mounted on said base and having registering projections on its upper face, a plurality of discs superposed on said plate and each having a circular series of apertures adapted to engage over said projections, said discs being provided with a series of uniformly spaced radial slots and bearing a plurality of indicia on one edge of each of said

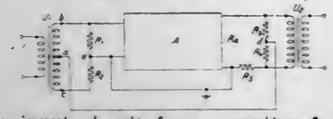
slots, said apertures being provided in a number which is a multiple of the number of said slots, a ring-shaped disc placed above the periphery of said discs and having two concentric series of apertures the spacing apart of which corresponds to that of the apertures of said discs, the apertures of the inner series being adapted to engage over said projections, and a non pivoting cover having a plurality of radial slots and bearing on one edge of each of said slots a plurality of letters of the normal alphabet, said cover also having a slot made according to an arc extending above the outer series of apertures of said ring-shaped disc.

2,313,013
CHARGING CRANE FOR FIRELESS LOCOMOTIVES
Paul Gilli and Karl Velan, Vienna, Germany; vested in the Alien Property Custodian
Application July 6, 1940, Serial No. 344,287
In Germany July 6, 1939
8 Claims. (Cl. 299—77)



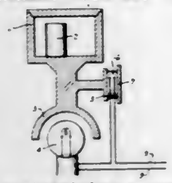
1. A charging device for fireless high pressure steam locomotives including a vertically extending steam supply line, an upright support, a tubular member having a vertical portion pivotally carried by said support, means including a stuffing box for connecting said tubular member to said supply line, said tubular member including a second vertical portion connected to the first-mentioned vertical portion by means of a loop portion, a yoke carried by the lower end of said second vertical portion and adapted to receive the charging head of a locomotive, and bracing means pivotally mounted on said support and connected to said yoke.

2,313,014
ANTICOUPLED AMPLIFIER
Wolfgang Hagen, Berlin, Germany; vested in the Alien Property Custodian
Application May 23, 1940, Serial No. 336,777
In Germany April 6, 1939
3 Claims. (Cl. 179—171)



1. An input circuit for a negative feed-back amplifier, comprising a transformer, a secondary therefor comprising a pair of symmetrical windings connected in series, a pair of loading resistances connected in series and shunted across the outer terminals of said windings, a circuit to ground connected to the junction point of said resistances, a circuit connecting the terminals of one of said resistances to the input of the amplifier, and a negative feed-back circuit from said amplifier connected to the junction point of said windings.

2,313,015
APPARATUS FOR KEEPING CONSTANT TEMPERATURE
Holger I. Hesse, Vedbaek, near Copenhagen, Denmark; vested in the Alien Property Custodian
Application January 6, 1941, Serial No. 373,270
In Denmark January 10, 1940
1 Claim. (Cl. 219—19)



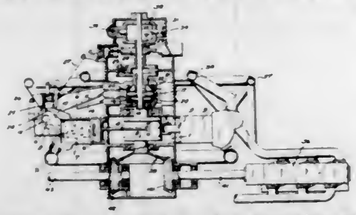
A device for maintaining a constant temperature in a holder for test tubes and the like comprising a housing of heat insulating material, an electrical heating element in said housing, a metallic heat conducting member disposed so as to conduct heat from said element to said holder, a second metallic heat conducting member connected to said first-mentioned heat conducting member at a point intermediate said heating element and said nolder, a metallic cover plate for said housing, said plate being responsive to variations in atmospheric temperature, and a bimetallic thermostatic temperature responsive control device disposed between and in contact with both said cover plate and said second heat conducting member and connected in circuit with said heating element so as to control the amount of heat emitted from said element in response to the simultaneous temperatures of said second heat conducting member and said cover plate, said holder being of such proportions that its thermal capacity is greater than the thermal capacity of the second heat conducting member so as to minimize cyclic temperature variations affecting said holder.

2,313,016
PROCESS FOR THE PRODUCTION OF ALKAMINE ESTERS
Schmul Hersch Horenstein, Berlin-Halensee, and Hermann Pählicke, Berlin-Reinickendorf, Germany; vested in the Alien Property Custodian
No Drawing. Application June 1, 1938, Serial No. 211,212. In Germany June 5, 1937
8 Claims. (Cl. 260—472)

1. A process for the production of alkamine esters comprising converting the hydrogen halide ester of an alkamine into the amine salt of the carboxylic acid to be esterified and subjecting said amine salt to a rearrangement in which the acid radical changes place with the halogen.

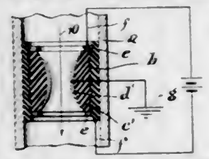
2,313,017
INTERNAL COMBUSTION ENGINE
Fredrik Hurum, Trondheim, Norway; vested in the Alien Property Custodian
Application May 9, 1941, Serial No. 392,754
4 Claims. (Cl. 123—65)

1. In a two-stroke cycle internal combustion engine, comprising a cylinder and a piston mounted for reciprocating movement therein, inlet and exhaust valves in the cylinder-head, a combustion-chamber in said cylinder-head communicating with the said cylinder through a nozzlelike passage directed downwards towards the top of the piston, the said combustion-chamber having substantially the shape of a cylinder, the axis of which is normal to the axis of the former cylinder, separate inlet valves being mounted in the ends of the said chamber, one of these valves



controlling the admission of scavenging-air under pressure, and the other valve controlling the admission of a combustible mixture of air and fuel at a higher pressure than the scavenging air, the said exhaust valve being mounted in the head of the cylinder adjacent the said nozzlelike passage, so that the scavenging air after striking the top of the piston will be diverted upwards towards thhe exhaust valve, means to open the former inlet valve for the admittance of scavenging air before the second inlet valve admits the fuel-air-mixture.

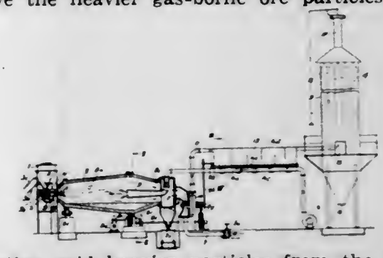
2,313,018
ELECTROSTATIC ELECTRON LENS
Friedrich Krause, Berlin, Germany; vested in the Alien Property Custodian
Application December 2, 1940, Serial No. 368,271
In Germany May 8, 1940
5 Claims. (Cl. 250—160)



1. In electron apparatus, an electron tube, an insulating bushing mounted within said tube and having an opening through which rays of the electron tube are adapted to pass, a layer of conducting material arranged on said bushing within said opening, means for applying a voltage across said layer, and said conducting layer having sufficient resistance to provide a voltage drop along the inner surface of the bushing so as to provide an electrostatic field for controlling the movement of the electron rays.

2,313,019
METALLURGICAL PROCESS
Julius Lohse, Berlin-Wilmersdorf, Germany; vested in the Alien Property Custodian
Original application October 15, 1940, Serial No. 361,314. Divided and this application July 12, 1941, Serial No. 402,252. In Germany September 1, 1937
11 Claims. (Cl. 75—9)

1. The process of treating raw ores which comprises injecting such ores longitudinally into an elongated roasting chamber, subjecting the injected ores in the chamber to the action of a roasting flame, working off from one end of the chamber heavier roasted ore particles, sucking off longitudinally from an end of the chamber gases and gas-borne ore particles, subjecting the said gases to the action of a separator to remove the heavier gas-borne ore particles, ex-



tracting said heavier particles from the separator by a suction air stream carrying oxidizing gas, and injecting the said heavier particles borne in said air stream into the chamber along the longitudinal centre thereof and at approximately the transverse centre of the same to be acted upon by the roasting flame.

2,313,020
SEAT BACK
Ferdinand Nussbaum, Stuttgart-Korntal, Germany; vested in the Alien Property Custodian
Application April 2, 1940, Serial No. 327,396
In Germany March 30, 1939
9 Claims. (Cl. 155—179)

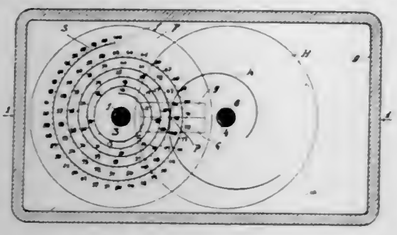


1. In a seat back, a pair of parallel spaced longitudinally extending frame members generally defining the width of said back, a plurality of V-shaped members having a journal opening at the apex of the V, arranged along the respective frame members and spaced inwardly therealong, means adjacent each of said frame members and parallel thereto engaging the opening of the corresponding adjacent V-shaped member and forming a pivot axis therefor, one arm of each of the V-shaped members extending toward its respective frame member, all of such arms lying substantially in the plane of said frame members, spring means joining said arms to the corresponding frame member, the other arms of said V-shaped members projecting outwardly and forwardly of said first-named arms and frame members, centrally positioned means stretched between the two axis-forming means, and a cushion member extending over and following the contour of the outwardly and forwardly projecting arms of the V-shaped members on one side, the centrally positioned means, and the outwardly and forwardly projecting arms of said V-shaped members on the other side to form a sprung seat back with forwardly projecting edges.

2,313,021
CALCULATOR
Jan Robitschek, Chocen, Bohemia; vested in the Alien Property Custodian
Application May 12, 1939, Serial No. 273,194
In Czechoslovakia May 14, 1938
1 Claim. (Cl. 235—67)

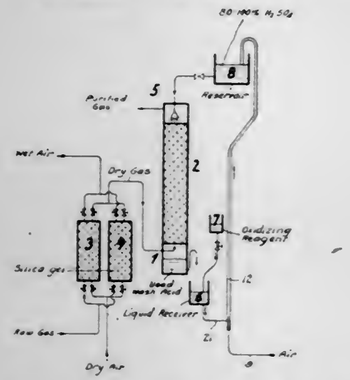
In a calculator a combination of three lines (*f*, *g*, *h*), being in superposed and parallel surfaces

(F, G, H) and on suitable supports, and one of the lines (*f*) bearing a scale (S), the other two (*g*, *h*) forming together by their points of intersection the indicator for values of the scale (S), two of the lines being revoluble, relatively to the third line about two different axes (C, D), which are perpendicular to the surfaces (F, G, H), and the form of the third line being determined by the condition, that it is the locus of the points of intersection of the two revoluble lines, when



they rotate simultaneously by proportional or by equal angles, and the line (*f*), which is provided with the scale (S), being inconstantly curved, and the scale (S) being graduated along this line (*f*) according to the angle of rotation of one of the other two lines, relatively to this line (*f*), so that to each point of intersection appertains such quantity or value of the scale (S), as corresponds to the angle of rotation from a starting position.

2,313,022
PROCESS FOR PURIFYING GASES
Friedrich Rottmayr, Pullach, near Munich, Germany; vested in the Alien Property Custodian
Application March 6, 1940, Serial No. 322,638
In Germany March 30, 1939
6 Claims. (Cl. 23—3)



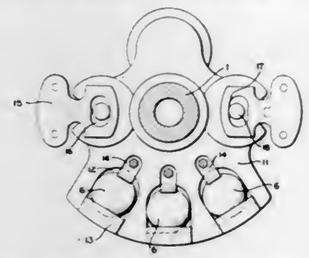
1. A process for the purification of a hydrocarbon gas containing hydrogen phosphide, which comprises the steps of washing said gas with a concentrated mineral acid substantially free of oxidizing agent to absorb and form a solution of such phosphide without oxidizing said phosphide during such washing; regenerating the resulting used washing acid by removing such acid from absorptive contact with said gas and treating said used washing acid with an oxidizing agent for oxidizing said phosphide to compounds soluble in said acid, said oxidizing agent being employed in not more than the stoichiometric amount required to oxidize said phosphide; and again bringing such regenerated washing acid substantially free from hydrogen phosphide and oxidizing agent into washing contact with gas containing hydrogen phosphide.

2,313,023
TILTABLE SEAT
André Ruegger, Levallois-Perret, France; vested in the Alien Property Custodian
Application September 3, 1938, Serial No. 228,364
In France September 7, 1937
6 Claims. (Cl. 155—116)



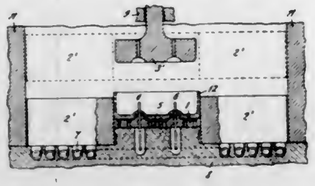
1. A tiltable seat, comprising curved elements the centre of curvature of which substantially coincides with the centre of gravity of the body of the person seated in the seat, a base fixed to the floor, two rollers rotatably mounted on each side of this base in lugs extending upwards from said base and supporting said curved elements, a guide roller rotatably mounted on each side in jaws which are pivoted on the axle of the front rollers in such a manner as to hold the lower curved elements of the seat on the top in variable positions according to the position of said curved elements.

2,313,024
DEVICE ADAPTED TO ELIMINATE OSCILLATIONS
François Marie Michel Bernard Salomon, Paris, France; vested in the Alien Property Custodian
Application December 7, 1938, Serial No. 244,382
11 Claims. (Cl. 74—604)



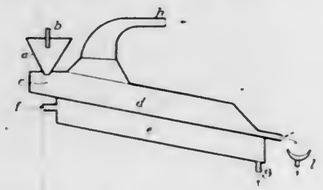
10. The combination with the rotating crankshaft of a machine of a counterweight on said crankshaft and having a hollow with opposed parallel side walls formed by integral portions of the counterweight, a metallic insert secured to said counterweight, said insert having a surface between the planes of said walls which is concave toward the axis of rotation of said crankshaft, and a rolling mass in said hollow adapted to be centrifugally held against said surface during rotation of the crankshaft and constrained by said walls to move along said surface in a plane parallel to said walls.

2,313,025
MOLD FOR MANUFACTURING ELECTRIC DISCHARGE VESSELS
Rudolf Scharfnagel, Stuttgart, Germany; vested in the Alien Property Custodian
Original application May 13, 1938, Serial No. 207,756. Divided and this application December 27, 1939, Serial No. 311,082. In Germany May 14, 1937
1 Claim. (Cl. 49—66)



An arrangement for producing a glass cover for an electric discharge vessel, which glass cover has a generally circular ceramic member and a glass body molded on said ceramic member and electrodes held in place in said ceramic member by said molded glass body, said arrangement comprising a die, a heating portion made of metal which does not stick to glass, said heating portion having a raised center portion, said center portion being of a diameter slightly larger than the diameter of the die and of equal diameter to the ceramic member, which ceramic member is placed on said raised portion and acts as a matrix, heating coils in said heating portion, guides mounted on said heating portion, and an annular vertically movable metal portion which will not stick to glass between said guides and surrounding and extending above said center portion, thereby defining a recess for receiving said ceramic member and a charge of glass when placed upon said raised center portion, said die containing bores for receiving said electrodes when said die is lowered to mold the glass body and unite it to the ceramic member.

2,313,026
PROCESS FOR THE MANUFACTURE OF LACTAMS FROM OXIMES OF CYCLIC KETONES
Paul Schlack, Berlin-Treptow, Germany; vested in the Alien Property Custodian
Application April 10, 1940, Serial No. 328,905
In Germany February 13, 1939
11 Claims. (Cl. 260—239)



1. Process for the manufacture of lactams by Beckmann rearrangement of cyclic ketoximes, the steps which comprise dissolving the oxime in sulfuric acid of a concentration of about 80 to 94% and passing the oxime solution continuously in a thin layer through a reaction zone kept at a temperature above the rearrangement temperature for the rearrangement reaction.

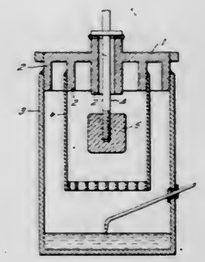
2,313,027
METHOD FOR RENDERING INOFFENSIVE HAIR DYES OF THE SO-CALLED OXIDATION TYPE
Eugène Schueller, Franconville, France; vested in the Alien Property Custodian
No Drawing. Application July 6, 1939, Serial No. 283,118. In France February 17, 1939
2 Claims. (Cl. 167—88)

1. A method of protecting live epidermis or skin from injurious effects due to the dye of the so-called oxidation type used in hair dyeing, consisting in rinsing the scalp first with a solution containing a glucide, an alum, a salt selected from the group consisting of alkali metal and alkaline earth metal chlorides, and an oxidation agent, and subsequently applying to the hair a dyestuff solution of the so-called oxidation type dye containing the same protecting compounds as in the said first solution.

2,313,028
PROCESS FOR THE PRODUCTION OF SODIUM AND POTASSIUM HYDRIDE
Friedrich Siegmann, Frankfort-on-the-Main, Germany; vested in the Alien Property Custodian
Application June 19, 1940, Serial No. 341,337
In Germany May 4, 1939
7 Claims. (Cl. 204—164)

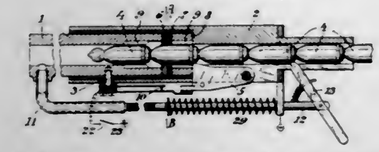
1. The process for preparing the hydride of an alkali metal selected from the group consisting of sodium and potassium which comprises vaporizing said metal in an electric arc between liquid alkali metal electrodes in the presence of hydrogen maintained at a temperature of about 300° C.

2,313,029
VAPOR ELECTRIC DEVICE
Alfred Siemens, Berlin-Charlottenburg, Hans von Bertele, Berlin-Wilmersdorf, and Willi Burgsmüller, Berlin, Germany; vested in the Alien Property Custodian
Application May 20, 1941, Serial No. 394,308
In Germany February 1, 1940
4 Claims. (Cl. 250—27.5)



1. An anode lead-in bushing for a vacuum arc device vessel comprising a substantially annular body portion of insulating material, a substantially centrally located opening in said annular body, an anode stem passing through said opening, and secured in vacuum-tight relation thereto, a plurality of annular ribs concentric with said centrally located opening, the innermost of said annular ribs being of greater length than the remaining ribs.

2,313,030
FIREARM AND AMMUNITION THEREFOR
Gustav Tauschek, New York, N. Y.; vested in the Alien Property Custodian
Application October 22, 1938, Serial No. 236,465
In Austria October 22, 1937
14 Claims. (Cl. 42—3)



1. A fire-arm comprising a barrel, means for holding a plurality of projectiles and charges in tandem on the longitudinal axis of the barrel, means for holding one of said projectiles in a position in which it closes the barrel behind the projectile which is in the firing position, an electric ignition circuit connected with the barrel and adapted to be closed by two of the connected projectiles for firing the projectile which is in the firing position, and means for feeding the projectiles forwardly in the barrel to bring one projectile into the firing position and another projectile into the position in which the barrel is closed as successive shots are fired.

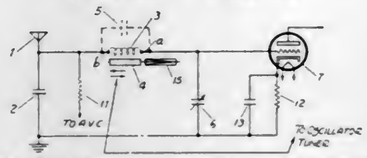
7. Fire-arm ammunition comprising a plurality of projectiles connected in tandem fashion, means for holding propelling charges and electrical igniting means between said projectiles and means for establishing electric contact between adjacent projectiles by means of the igniting means.

2,313,031
MANUFACTURE OF THREADED CONTAINERS
Frederic A. Parkhurst, Suffield, Conn., assignor to Monsanto Chemical Company, a corporation of Delaware
Application September 16, 1938, Serial No. 230,224
8 Claims. (Cl. 18—55)



4. The method of molding thin walled containers of organic plastic material which comprises molding such a container in a cavity mold adapted to form external threads on a portion of the container by a plunger adapted to form a plurality of internal driving lugs having substantial radial length and having substantial thickness in one end of such container but not to form undercuts, removing such plunger by a direct draw while holding the container in the mold cavity by said external threads, and then loosening said container from the mold cavity by rotating said container through pressure exerted on said driving lugs.

2,313,032
IMAGE SUPPRESSION IN SUPERHETERODYNE RECEIVERS
Frederick H. Scheer, Kenmore, N. Y., assignor to Colonial Radio Corporation, Buffalo, N. Y., a corporation of New York
Application October 1, 1941, Serial No. 413,170
13 Claims. (Cl. 250—20)

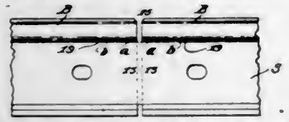


1. An image suppression system for superheterodyne radio receivers having an antenna and a vacuum tube with a control electrode, including a first resonant circuit, a portion of which is connected between said control electrode and ground; and a second resonant circuit in series between said antenna and said control electrode, said resonant circuits having a common variable inductance and being tuned respectively to a signal frequency and to the corresponding image frequency; and a conducting plate movable with respect to said inductance to vary the distributed capacity thereof, said plate being arranged to increase the distributed capacity of said inductance as the inductance is reduced.

2,313,033
SALAD DRESSING
Morris H. Joffe, Chicago, Ill., assignor to The Emulsol Corporation, Chicago, Ill.
No Drawing. Application February 6, 1941, Serial No. 377,741
18 Claims. (Cl. 99—144)

1. A salad dressing composition, effective upon incorporation into a starch-containing salad dressing to produce a salad dressing of enhanced smoothness and substantial freedom from syneresis, which comprises carob gum and an edible organic acid.

2,313,034
RAIL JOINT
Albert E. Hill, Syracuse, N. Y.
Application November 7, 1939, Serial No. 303,269
1 Claim. (Cl. 238—151)



In a rail joint comprising adjacent rail ends, splice bars lapping the rail ends, and rectangular plates secured adjacent their inner and outer edges to the under faces of the rail balls in spaced relation to the ends of the rails for engagement with the upper edges of the splice bars and with the under faces of the balls in spaced relation to the upper edges of the splice bars between said plates and the ends of the rails.

DESIGNS

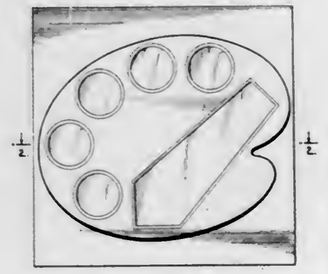
MARCH 2, 1943

135,135
DESIGN FOR A SEPARABLE ROBE OR SIMILAR ARTICLE
Valerie Raemier Allen, New York, N. Y.
Application January 18, 1943, Serial No. 109,282
Term of patent 3½ years



The ornamental design for a separable robe or similar article, substantially as shown, and described.

135,136
DESIGN FOR A DISPLAY CARD OR SIMILAR ARTICLE
Morris Aron, South Norwalk, Conn., assignor to M. Aron Corporation, New York, N. Y., a corporation of New York
Application November 2, 1942, Serial No. 108,675
Term of patent 7 years



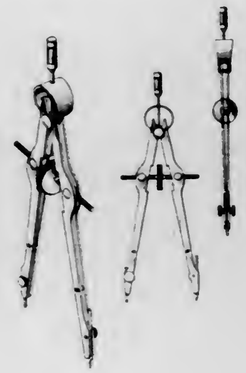
The ornamental design for a display card or similar article, as shown.

135,137
DESIGN FOR A SMOCK OR SIMILAR ARTICLE
Clementine M. Eich, St. Cloud, Minn.
Application December 12, 1941, Serial No. 104,602
Term of patent 3½ years



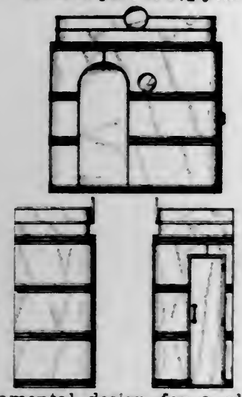
The ornamental design for a smock or similar article, as shown.

135,138
DESIGN FOR A COMPASS
Floyd G. Eubanks, Pasadena, Calif., assignor of forty-seven and one-half per cent to Francis E. Vaughan, Pasadena, and five per cent to Robert M. McManigal, Compton, Calif.
Application May 12, 1941, Serial No. 100,903
Term of patent 14 years



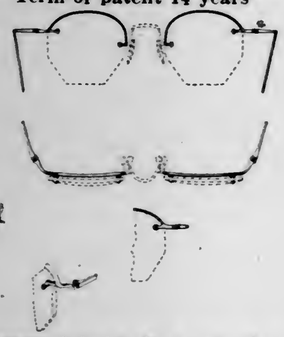
The ornamental design for a compass, as shown and described.

135,139
DESIGN FOR A PHOTOGRAPHING CABINET
Ralph M. Godfrey and Lena Godfrey, Lima, Ohio
Application December 22, 1942, Serial No. 109,101
Term of patent 3½ years



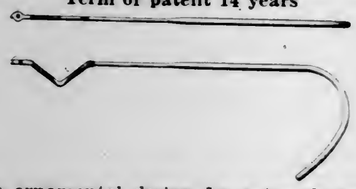
The ornamental design for a photographing cabinet, as shown and described.

135,140
DESIGN FOR A PAIR OF SPECTACLES
Francis B. Neary, Rochester, N. Y., assignor to Shuron Optical Company, Inc., Geneva, N. N. Y., a corporation of New York
Application October 16, 1941, Serial No. 103,780
Term of patent 14 years



The ornamental design for a pair of spectacles, as shown and described.

135,141
DESIGN FOR A TEMPLE MEMBER FOR SPECTACLES OR SIMILAR ARTICLE
Edwin Reynolds, Vineland, N. J.
Application October 21, 1942, Serial No. 108,582
Term of patent 14 years



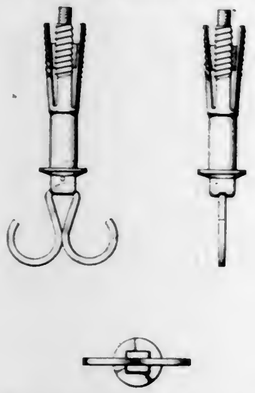
The ornamental design for a temple member for spectacles or similar article, substantially as shown.

135,142
DESIGN FOR A SHOE
Harry Le Roy Sutcliffe, New York, N. Y.
Application July 10, 1942, Serial No. 107,476
Term of patent 3½ years



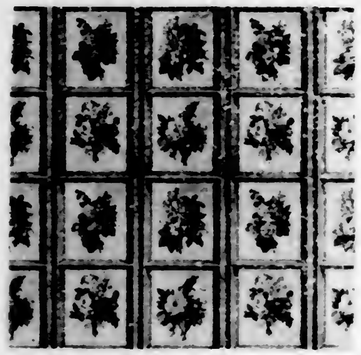
The ornamental design for a shoe, substantially as shown and described.

135,143
DESIGN FOR AN EXPANDING SLEEVE HANGER
Thomas J. Weekley, Jacobsburg, Ohio
Application August 14, 1942, Serial No. 107,935
Term of patent 14 years



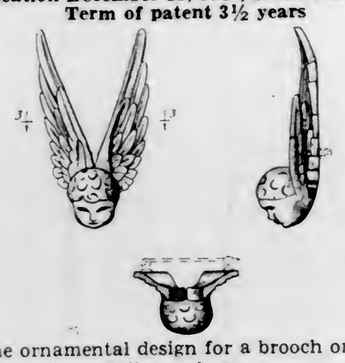
The ornamental design for an expanding sleeve hanger, as shown.

135,144
DESIGN FOR A FABRIC
Marion R. Hamre, Oceanside, N. Y.
Application December 14, 1942, Serial No. 109,033
Term of patent 3½ years



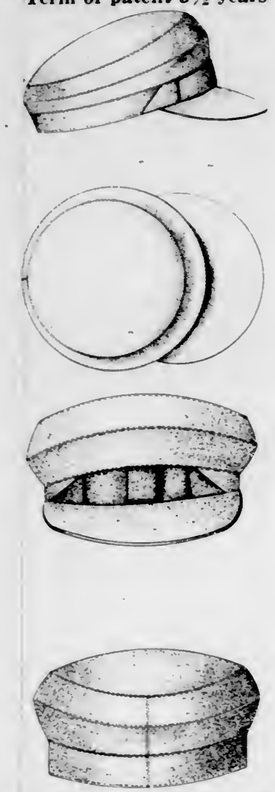
The ornamental design for a fabric, as shown.

135,145
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Frank S. Hartley, New York, N. Y.
Application December 11, 1942, Serial No. 109,001
Term of patent 3½ years



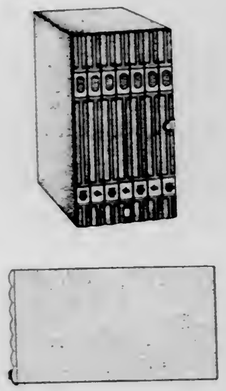
The ornamental design for a brooch or similar article, substantially as shown.

135,146
DESIGN FOR A HAT
Paul M. Maxwell, Manhasset, N. Y., and Wilhelmina J. Russy, Jersey City, N. J., assignors to Hat Corporation of America, Norwalk, Conn., a corporation of Delaware
Application January 6, 1943, Serial No. 109,207
Term of patent 3½ years



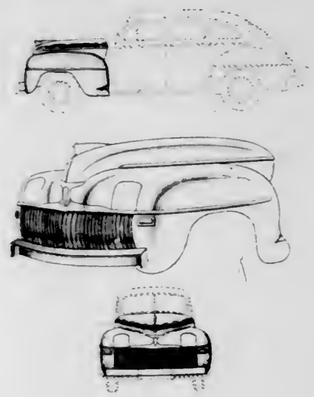
The ornamental design for a hat, as shown.

135,147
DESIGN FOR A PHONOGRAPH RECORD CABINET
Gilbert W. Amberg, Kankakee, Ill., assignor to Amberg File and Index Company, Kankakee, Ill., a corporation of Illinois
Application January 4, 1943, Serial No. 109,201
Term of patent 14 years



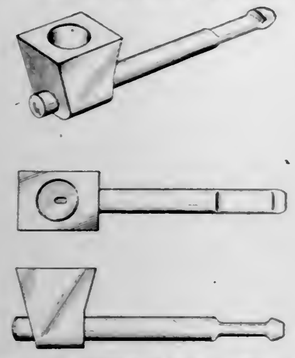
The ornamental design for a phonograph record cabinet, as shown.

135,148
DESIGN FOR AN AUTOMOBILE
Robert Cadwallader, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application December 18, 1941, Serial No. 104,705
Term of patent 7 years



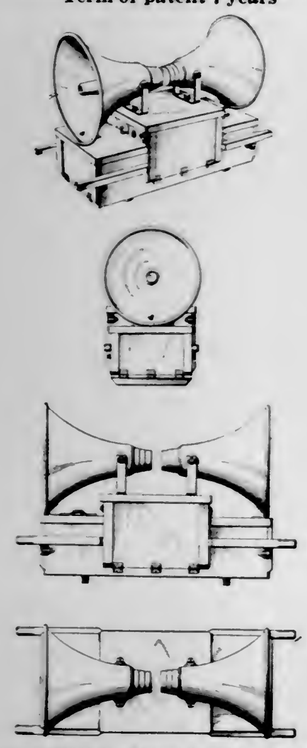
The ornamental design for an automobile, substantially as shown and described.

135,149
DESIGN FOR A TOBACCO PIPE
Gedeon R. Comptois, New York, N. Y.
Application January 27, 1942, Serial No. 105,457
Term of patent 3½ years



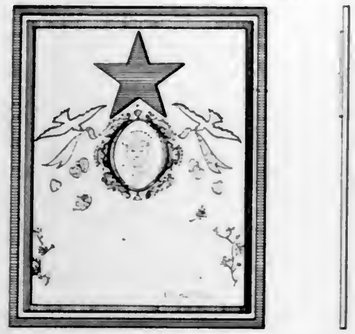
The ornamental design for a tobacco pipe, substantially as shown.

135,150
DESIGN FOR A PORTABLE SOUND AMPLIFICATION UNIT
Walker C. Cottrell, Jr., and Alexander S. Ganzert, Jr., Richmond, Va., and Milton J. Shapp, Silver Spring, Md.
Application December 24, 1942, Serial No. 109,128
Term of patent 7 years



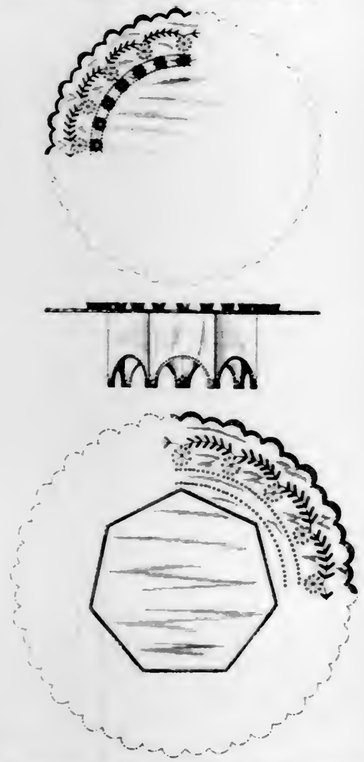
The ornamental design for a portable sound amplification unit, as shown.

135,151
DESIGN FOR A SERVICE PICTURE FRAME
Charles F. Cusick, New York, and Philip Marraccini, Bronx, N. Y.
Application October 23, 1942, Serial No. 108,600
Term of patent 3½ years



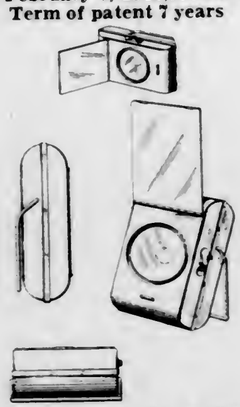
The ornamental design for a service picture frame, as shown.

135,152
DESIGN FOR A COMBINED CAKE AND CANDLE HOLDER
Clarrajay Frenger, Las Cruces, N. Mex.
Application July 29, 1942, Serial No. 107,734
Term of patent 3½ years



The ornamental design for a combined cake and candle holder, as shown and described.

135,153
DESIGN FOR A FLASHLIGHT CASE
Louis W. Gensburg, Chicago, Ill., assignor to Genco Mfg. Co., Chicago, Ill., a partnership consisting of Louis W. Gensburg, David Gensburg, and Meyer Gensburg
Application February 7, 1942, Serial No. 105,703
Term of patent 7 years



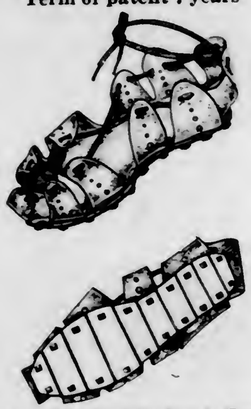
The ornamental design for a flashlight case, as shown and described.

135,154
DESIGN FOR A BUCKLE
Basil D. Huff, New York, N. Y.
Application January 21, 1943, Serial No. 109,311
Term of patent 7 years



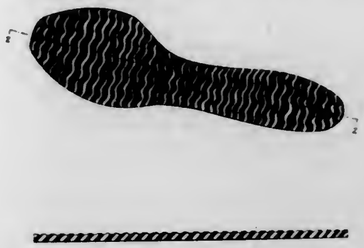
The ornamental design for a buckle, substantially as shown.

135,155
DESIGN FOR A FLEXIBLE SANDAL
Basil D. Huff, New York, N. Y.
Application January 23, 1943, Serial No. 109,334
Term of patent 7 years



The ornamental design for a flexible sandal, substantially as shown.

135,156
DESIGN FOR A SHOE SOLE
Adolph A. Kotzin, Chicago, Ill.
Application December 24, 1942, Serial No. 109,124
Term of patent 7 years



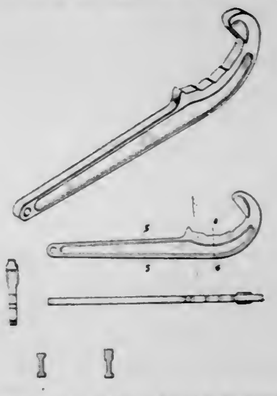
The ornamental design for a shoe sole, substantially as shown.

135,157
DESIGN FOR A PIN OR SIMILAR ARTICLE
Alice D. Laughlin, Gloucester, Mass.
Application November 26, 1942, Serial No. 108,882
Term of patent 3½ years



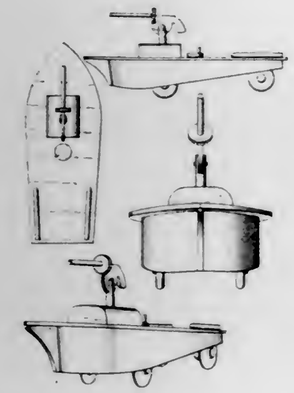
The ornamental design for a pin or similar article, as shown.

135,158
DESIGN FOR A SPANNER WRENCH
Henry M. Miller, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut
Application July 16, 1942, Serial No. 107,572
Term of patent 14 years



The ornamental design for a spanner wrench, substantially as shown.

135,159
DESIGN FOR A SCOOTER
Alfred Parke, Oak Park, Ill., assignor to W. L. Stensgaard & Associates, Inc., a corporation of Illinois
Application November 20, 1942, Serial No. 108,825
Term of patent 14 years



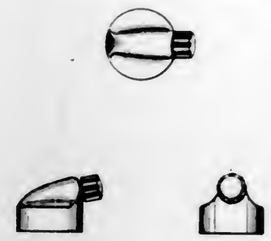
The ornamental design for a scooter, as shown.

135,160
DESIGN FOR A GRATE FOR FIREPLACES OR THE LIKE
Cyril G. Steinbicker and Noble C. Butler, Anderson, Ind., assignors to The National Tile Company, Incorporated, Anderson, Ind.
Application November 4, 1942, Serial No. 108,694
Term of patent 7 years



The ornamental design for a grate for fireplaces or the like, substantially as shown.

135,161
DESIGN FOR A POUR-OUT BOTTLE CAP
Herman Karl Stempel, Fort Madison, Iowa, assignor to W. A. Sheaffer Pen Company, Fort Madison, Iowa, a corporation of Delaware
Application February 14, 1942, Serial No. 105,790
Term of patent 7 years



The ornamental design for a pour-out bottle cap, substantially as shown.

135,162
DESIGN FOR A SERVICE PIN
John H. Williams, Zanesville, Ohio, assignor of one-third to Patrick E. Flood and one-third to Clarence J. Crossland, both of Zanesville, Ohio
Application October 8, 1942, Serial No. 108,464
Term of patent 7 years



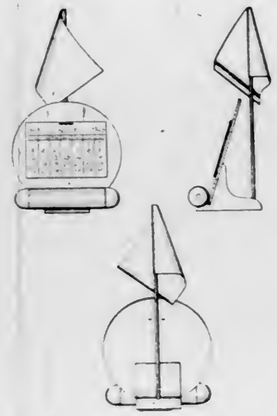
The ornamental design for a service pin, substantially as shown.

135,163
DESIGN FOR AN EMBROIDERED TRIMMING
John Goldfrank, New York, N. Y.
Application December 31, 1942, Serial No. 109,171
Term of patent 3½ years



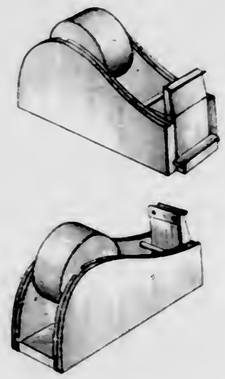
The ornamental design for an embroidered trimming, substantially as shown.

135,164
DESIGN FOR A DESK ORNAMENT OR SIMILAR ARTICLE
Joseph G. Lipic, Jr., St. Louis, Mo., assignor to Jos. Lipic Pen Co., St. Louis, Mo., a corporation of Missouri
Application November 12, 1942, Serial No. 108,755
Term of patent 14 years



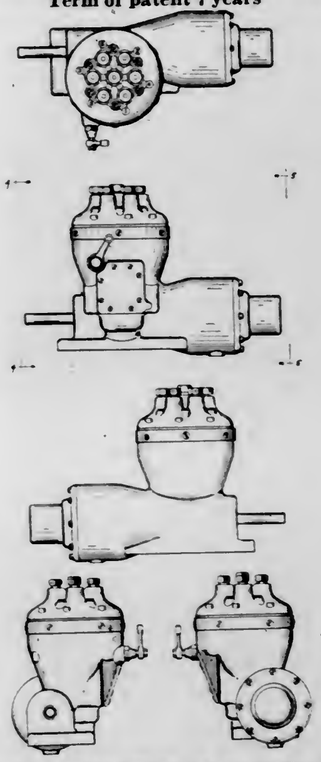
The ornamental design for a desk ornament or similar article, as shown.

135,165
DESIGN FOR A TAPE DISPENSER
Gustave Schleman, Bronx, N. Y., assignor to International Plastic Corporation, Morristown, N. J., a corporation of Illinois
Application November 23, 1942, Serial No. 108,850
Term of patent 3½ years



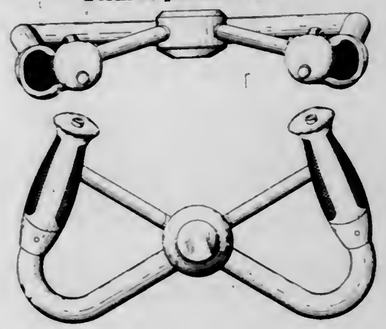
The ornamental design for tape dispenser, substantially as shown.

135,166
DESIGN FOR AN ENGINE CONTROLLING MECHANISM
Merton J. Smith, Cleveland, Ohio, assignor of twenty-five per cent to Paul B. Shannon, Chicago, Ill., twenty-five per cent to John Perry Geiger, Cleveland, Ohio, and twenty-five per cent to Robert W. Wilson, Rocky River, Ohio
Application June 24, 1942, Serial No. 107,337
Term of patent 7 years



The ornamental design for an engine controlling mechanism, as shown.

135,167
DESIGN FOR AN AIRPLANE CONTROL WHEEL
Thedore Obszarny, Chicago, and John J. Rowell, Prospect Heights, Ill., assignors to Guardian Electric Manufacturing Co., Chicago, Ill., a corporation of Illinois
Application November 17, 1942, Serial No. 108,796
Term of patent 14 years

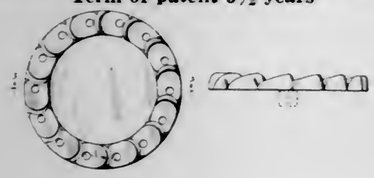


135,167—Continued



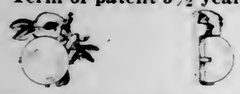
The ornamental design for an airplane control wheel, substantially as shown.

135,168
DESIGN FOR A BUTTON
Charles H. Frank, New Rochelle, N. Y.
Application January 30, 1943, Serial No. 109,394
Term of patent 3½ years



The ornamental design for a button, as shown.

135,169
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Alfred Philippe, Cranston, R. I.
Application February 3, 1943, Serial No. 109,423
Term of patent 3½ years



The ornamental design for a brooch or similar article, substantially as shown.

135,170
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Alfred Philippe, Cranston, R. I.
Application February 3, 1943, Serial No. 109,424
Term of patent 3½ years



The ornamental design for a brooch or similar article, substantially as shown.

135,171
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Alfred Philippe, Cranston, R. I.
Application February 3, 1943, Serial No. 109,425
Term of patent 3½ years



The ornamental design for a brooch or similar article, substantially as shown.

135,172
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Alfred Philippe, Cranston, R. I.
Application February 3, 1943, Serial No. 109,426
Term of patent 3½ years



The ornamental design for a brooch or similar article, substantially as shown.

135,173
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Alfred Philippe, Cranston, R. I.
Application February 3, 1943, Serial No. 109,427
Term of patent 3½ years



The ornamental design for a brooch or similar article, substantially as shown.

135,174
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Alfred Philippe, Cranston, R. I.
Application February 3, 1943, Serial No. 109,428
Term of patent 3½ years



The ornamental design for a brooch or similar article, substantially as shown.

135,175
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Alfred Philippe, Cranston, R. I.
Application February 3, 1943, Serial No. 109,430
Term of patent 3½ years



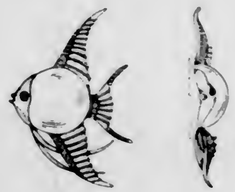
The ornamental design for a brooch or similar article, substantially as shown.

135,176
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Alfred Philippe, Cranston, R. I.
Application February 3, 1943, Serial No. 109,431
Term of patent 3½ years



The ornamental design for a brooch or similar article, substantially as shown.

135,177
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Alfred Philippe, Cranston, R. I.
Application February 3, 1943, Serial No. 109,434
Term of patent 3½ years



The ornamental design for a brooch or similar article, substantially as shown.

135,178
DESIGN FOR A DRESS
Julia Richards, New York, N. Y.
Application February 8, 1943, Serial No. 109,498
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

135,179
DESIGN FOR A DRESS
Julia Richards, New York, N. Y.
Application February 8, 1943, Serial No. 109,499
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

135,180
DESIGN FOR A DRESS
Samuel Zahn, New York, N. Y.
Application February 8, 1943, Serial No. 109,500
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

135,181
DESIGN FOR A DRESS
Samuel Zahn, New York, N. Y.
Application February 8, 1943, Serial No. 109,501
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

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CONTENTS

	Page
ISSUE OF MARCH 9, 1943	209
ERRATUM	209
ADJUDICATED PATENTS	209
ADVERSE DECISIONS IN INTERFERENCE	209
DISCLAIMERS	209
NOTICE OF CANCELLATION	209
APPLICATIONS UNDER EXAMINATION	210
DECISIONS OF THE U. S. COURTS—	
In re Kepler	211
The Armstrong Manufacturing Co. *v.* The Ridge Tool Co.	212
PATENT SUITS	213
TRADE-MARKS PUBLISHED (83 APPLICATIONS)	215
TRADE-MARK REGISTRATIONS GRANTED	224
TRADE-MARK REGISTRATIONS RENEWED	230
REISSUES	233
PLANT PATENTS	235
PATENTS GRANTED	236
DESIGNS	398

March 9, 1943

Trade-Marks	108	No. 400,391 to No.	400,498,	inclusive.
T. M. Renewals	78			
Reissues	5	No. 22,283 to No.	22,287,	inclusive.
Plant Patents	2	No. 571 to No.	572,	inclusive.
Patents	680	No. 2,313,035 to No.	2,313,714,	inclusive.
Designs	55	No. 135,182 to No.	135,236,	inclusive.
Total	928			

Erratum

Page 597 of the OFFICIAL GAZETTE of January 26, 1943, first column, in line 6 of the disclaimer issued in Patent No. 2,012,138, for "claim 35" read *claim 33*.

Adjudicated Patents

(C. C. A. R. I.) Mabey patent, No. 1,677,789, for battery-box clamp, claim 3 *Held* invalid. *Mabey* v. *Howard & Lewis Motor Sales*, 132 F.(2d) 40.

(D. C. Mich.) Johnston patent, No. 1,979,470, for method of joining bell and spigot pipe sections, *Held* not infringed. *Atlas Mineral Products Co. of Pennsylvania* v. *Johnston*, 47 F. Supp. 948.

(D. C. N. Y.) Bresnick patent, No. 2,007,108, for medicinal preparation, Held invalid. *Bresnick* v. *U. S. Vitamin Corporation*, 47 F. Supp. 993.

(C. C. A. S. C.) Jones patent, No. 2,167,573, for sanding wheel head, *Held* invalid. *Pearson Sanding Mach. Co.* v. *Williams Furniture Co.*, 132 F.(2d) 55.

(C. C. A. S. C.) Jones patent, No. 2,182,725, for tiltable adjustable sanding wheel, *Held* invalid. *Id.*

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed.

Pat. 2,256,755, H. Winograd, Electric valve control system, decided February 6, 1943, claims 8, 11, 13, and 17.

Pat. 2,255,088, B. Schroeter, Bearing for independent wheel suspension for motor vehicles, decided February 11, 1943, claim 15.

Disclaimers

2,167,573.—*Charles Jones*, High Point, N. C. SANDING WHEEL HEAD. Patent dated July 25, 1939. Disclaimer filed February 10, 1943, by the assignee, *Pearson Sanding Machine Company*.

Hereby enters this disclaimer to claim 6 in said specification.

2,182,725.—*Charles Jones*, High Point, N. C. TILTABLE ADJUSTABLE SANDING WHEEL. Patent dated December 5, 1939. Disclaimer filed February 10, 1943, by the assignee, *Pearson Sanding Machine Company*.

Hereby enters this disclaimer to claim 2 in said specification.

Notice of Cancellation

U. S. PATENT OFFICE, *Richmond, Va., Feb. 5, 1943.*

H. & J. Leibowitz, Inc., its assigns or legal representatives, take notice.

A cancellation proceeding has been instituted by this Office upon the application of Hat Corporation of America, Van Zandt Street, Third District, Norwalk, Connecticut, to effect the cancellation of trade-mark registration of Herman Leibowitz, No. 138,396, dated December 21, 1920. The assignment records of this Office show a transfer of title to this registration to H. & J. Leibowitz, Inc., New York, New York, who has been substituted for said Herman Leibowitz to defend the registration concerned. The notice of such proceeding sent by registered mail to H. & J. Leibowitz, Inc., at the said address, having been returned by the post office as undeliverable, notice is hereby given that unless H. & J. Leibowitz, Inc., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Condition of Applications Under Examination at Close of Business February 20, 1943

(Total number of applications awaiting action, excluding Trade-Mark Division, 40,644; Trade-Mark Division, 887. Oldest new case, Apr. 1, 1942; oldest amended, Apr. 3, 1942.)
(The dates given are 1942 except where † indicates 1943)

Divisions, Examiners, and Subjects of Inventions	Oldest new application awaiting office action	Oldest amended application awaiting office action	No. of applications awaiting action
1. TUCKER, M. W., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Domestic Cooking Vessels; Sewerage.	Sept. 16	Oct. 6	386
2. HERRMANN, D., Fishing and Trapping; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering.	Sept. 14	Sept. 9	254
3. WOLFFE, S., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	Apr. 6	Apr. 11	1009
4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators: Fire Escapes; Ladders; Scaffolds; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting.	Aug. 20	Sept. 15	421
5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps	July 6	June 20	555
6. GENIESSE, E. W., Carbon Chemistry (part)	May 22	May 23	1067
7. JARBOE, C. G., Optics, Photography	July 1	June 25	1006
8. ADAMS, F. L., Furniture; Kitchen and Table Articles; Racks and Cabinets	Aug. 10	Aug. 1	659
9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	Aug. 10	Aug. 19	702
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Sept. 25	Sept. 14	378
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Stop Mechanisms	Sept. 9	Sept. 12	352
13. DONNELLY, A. E., Metal Working (part): Gear Cutting, Milling and Planing; Needle and Pin Making	Aug. 7	Aug. 15	666
14. HANLIN, GEORGE, Metal Working (part); Farriery; Wire Fabrics	Oct. 28	Oct. 19	417
15. HENKIN, BENJ., Glass, Plastic Block and Earthenware Apparatus; Plastics	June 22	July 2	675
16. SPENCER, C. J., Telegraphy; Telephony	July 1	July 1	687
17. HABECKER, LEON B., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	May 12	May 12	717
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	July 1	July 17	566
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	June 10	June 5	678
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part).	Aug. 1	July 9	449
21. THOMPSON, T. J., Textiles	Sept. 24	Sept. 4	309
22. RINGLE, D., Aeronautics; Firearms; Ordnance and Explosive Devices	May 14	May 14	1651
23. BARROWS, B., Cash Registers; Calculators (part)	Aug 20	Oct. 2	130
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	Sept. 1	Sept. 1	652
26. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	July 22	July 21	570
26. YOUNG, R. R., Electricity—Generation and Motive Power	July 24	July 24	497
27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus.	Aug. 15	June 26	639
28. SOLYOM, H. L., Internal-Combustion Engines (part); Cylinders and Pistons	June 22	May 11	524
29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Package and Article Carriers; Woodworking; Tools; Metal Working, Assembling.	Oct. 15	Oct. 13	345
30. McCANN, LEO P., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Oct. 14	Oct. 22	339
31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils	Aug. 26	Aug. 27	1308
32. LESH, K., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	Aug. 15	Aug. 14	656
33. HULL, J. S., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements	Sept. 5	Sept 23	584
34. SAPERSTEIN, S., Electricity—Meters and Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators.	Sept. 5	Aug. 26	344
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles	Aug. 29	Aug. 25	686
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	Sept. 15	Sept. 2	419
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Oct. 19	Sept. 25	520
38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part)	Aug. 5	Aug. 29	678
39. WHITNEY, F. L., Fluid-Pressure Regulators; Valves; Water Distribution	Nov. 11	Nov. 18	322
40. DRUMMOND, E. J., Receptacles	Sept. 29	Sept. 30	455
41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles; Counters and Calculators (part); Typewriting Machines; Check-Controlled Apparatus.	Aug. 22	Aug. 14	422
42. MARANS, H., Electric Signaling	Sept. 3	Sept. 3	331
43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Azo Compounds.	Apr. 1	Apr. 3	995
44. HARVEY, L. P., Refrigeration	June 12	June 22	381
45. HILL, H. D., Shafting and Flexible Shaft Couplings; Wheels and Axles; Resilient Tires and Wheels; Lubrication; Bearings and Guides; Motors; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part).	Aug. 18	Aug. 26	729
46. BLEECKER, V. E., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Heating Systems; Coating Apparatus.	June 11	June 13	479
47. KANOF, WM. J., Clutches and Power Stops; Brakes; Boring and Drilling; Land Vehicles (part)	July 30	Aug. 13	955
48. ROEPKE, O. B., Electricity, General Applications; Igniters	Apr. 10	Apr. 10	741
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	Aug. 24	Aug. 12	593
50. LEVIN, SAMUEL, Resins; Rubber; Carbohydrates and Derivatives	July 21	July 21	1221
51. BACKUS, C. D., Radiant Energy	Aug. 5	Aug. 11	853
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits.	May 8	Aug. 13	607
53. PECK, M. K., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Curtains, Shades and Screens; Cutlery.	Aug. 1	Sept. 21	194
54. STRACHAN, O. W., Electric Lamp and Discharge Devices (part)	July 27	Aug. 4	461
55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery	July 7	June 9	683
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Laminated Fabrics (part); Paper Making	July 16	July 25	888
57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Aug. 11	Aug. 6	355
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working	Oct. 7	Oct. 7	527
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds; Compositions (part).	Apr. 8	Apr. 10	1295
60. GLASS, R. L., Electricity, Heating and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Marine Propulsion; Consumable Electrode Lamp and Discharge Devices.	July 4	July 4	411
61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Laminated Electrical Insulation, Belt, Hose, Tire and Ball Making; Boats and Buoys.	July 9	July 6	636
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	Sept. 12	Aug. 27	421
63. WINKELSTEIN, A. H., Preserving; Poisons; Fermentation; Foods and Beverages; Proteins; Oils and Fats.	May 19	May 6	1026
64. NASH, P. M., Acetylene: Gas Mixers: Compositions (part); Distillation; Fuel	Sept. 1	Aug. 31	1161
65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays.	July 22	July 31	630
Trade Marks: RICHMOND, F. A	†Jan. 20	†Feb. 1	887
Designs: KALUPY, H. H	†Jan. 21	†Feb. 1	346

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905. Sec. 6, as amended Mar. 2, 1907]

Aeronautical Products, Inc., Detroit, Mich. Precision internal combustion engine parts. Serial No. 443,798; Mar. 9. Class 23.

Albi Chemical Corporation, New York, N. Y. Chemical preparations. Serial No. 454,567; Mar. 9. Class 6.

American Art Alloys, Inc., Kokomo, Ind. Knives, forks, and other table flatware. Serial No. 458,135; Mar. 9. Class 23.

American Art Alloys, Inc., Kokomo, Ind. Knives, forks, and other tableware. Serial Nos. 458,139–40; Mar. 9. Class 23.

American Druggists Syndicate, Inc., Long Island City, N. Y. Vitamin preparation. Serial No. 457,293; Mar. 9. Class 6.

American Raw Hide Products Co., Providence, R. I. Mallets and hammers having rawhide faces and rawhide faces for hammers and loom pickers and sweep-stick heads for looms. Serial No. 456,649; Mar. 9. Class 23.

Apollo Shirt Company, New York, N. Y. Men's shirts, undershirts, and sweaters. Serial No. 457,803; Mar. 9. Class 39.

Aralac, Inc., New York, N. Y. Fibrous materials in the form of filaments. Serial No. 455,838; Mar. 9. Class 1.

Aldrich Company, The, London, England. Wines. Serial No. 454,048; Mar. 9. Class 47.

Arizona Farms, Tolleson, Ariz. Fresh vegetables. Serial No. 457,110; Mar. 9. Class 46.

Arrow Importing Company, Inc., Cleveland, Ohio. Wearing apparel for men, women, and children. Serial No. 453,689; Mar. 9. Class 39.

Babs Creations, Incorporated, New York, N. Y. Perfumery and cosmetics. Serial No. 446,483; Mar. 9. Class 6.

Beaux Arts Professional Instrument Mfg. Co. (See Pomilla, Frances.)

Bernstein, Herbert Henry, doing business as Typosture Chair Co., New York, N. Y. Office chairs. Serial No. 457,891; Mar. 9. Class 32.

Better Monkey Grip Co., Arlington, Tex. Tire casing and tube patches and tire and tube patching kits for use either as a vulcanizing unit or as a cold repairing unit. Serial No. 456,951; Mar. 9. Class 35.

Blaney Bakeries, Inc., Philadelphia, Pa. Dog food. Serial No. 457,671; Mar. 9. Class 46.

Booth, F. E., Company, Inc., San Francisco, Calif. Canned fruits, canned vegetables, canned fish, etc. Serial No. 445,625; Mar. 9. Class 46.

Borden Company, The, New York, N. Y. Taffy caramels. Serial No. 448,958; Mar. 9. Class 46.

Camloc Fastener Company, New York, N. Y. Tools. Serial No. 457,458; Mar. 9. Class 23.

Candy Lane Inc., Beverly Hills, Los Angeles, and Glendale, Calif. Candies and candy confections. Serial No. 453,392; Mar. 9. Class 46.

Carmack, Edward S., doing business as Zip Manufacturing Company, Little Rock, Ark. Furniture polish. Serial No. 457,893; Mar. 9. Class 16.

Chance, A. B., Company, Centralia, Mo. Linemen's platforms, platform railings, and live line guards. Serial No. 457,492; Mar. 9. Class 12.

Charles of the Ritz, Inc., New York, N. Y. Perfumes and toilet water. Serial No. 449,090; Mar. 9. Class 6.

Checkers Clothing Company. (See Miller, Gerald F.)

Chicago Pharmacal Company, The, Chicago, Ill. Preparation for use in the treatment of spastic conditions of the stomach and bowels. Serial No. 457,074; Mar. 9. Class 6.

Claire Manufacturing Company, Chicago, Ill. Self-polishing wax for floors, linoleum, and furniture. Serial No. 457,272; Mar. 9. Class 16.

Cohn & Rosenberger, Inc., New York, N. Y. Necklaces and bracelets, finger rings, earrings, etc. Serial Nos. 456,864–5; Mar. 9. Class 28.

Colgate-Palmolive-Peet Company, Jersey City, N. J. Soap. Serial No. 451,671; Mar. 9. Class 4.

Commercial Solvents Corporation, New York, N. Y. Chemical compositions. Serial No. 455,174; Mar. 9. Class 6.

Commercial Solvents Corporation, New York, N. Y. Chemical compounds. Serial No. 455,175; Mar. 9. Class 6.

Diamond Calk Horseshoe Company, Duluth, Minn. Wrenches and parts thereof, adjustable hand wrenches, wrench sets and cases, etc. Serial No. 457,386; Mar. 9. Class 23.

Diamond Calk Horseshoe Company, Duluth, Minn. Single end adjustable wrenches, double end adjustable wrenches, wrench parts, etc. Serial No. 457,387; Mar. 9. Class 23.

Dura Fixture Company, Statesville, N. C. Convertible studio davenport beds. Serial No. 457,870; Mar. 9. Class 32.

Eastman Kodak Company, The, Jersey City, N. J., and Rochester, N. Y. Contrast medium for radiography. Serial No. 458,010; Mar. 9. Class 6.

Elevator Safety Corporation, New York, N. Y. Elevator roller guides. Serial No. 455,049; Mar. 9. Class 23.

Field Publications, Brooklyn, N. Y. Series of cartoons. Serial No. 457,333; Mar. 9. Class 38.

Firestone Tire & Rubber Company, The, Akron, Ohio. Fountain pens, mechanical pencils, and wooden lead pencils. Serial No. 453,105; Mar. 9. Class 37.

Firestone Tire & Rubber Company, The, Akron, Ohio. Ash trays. Serial No. 453,106; Mar. 9. Class 8.

Firestone Tire & Rubber Company, The, Akron, Ohio. Synthetic organic resins, and powders, strands, filaments, etc. Serial No. 455,335; Mar. 9. Class 1.

Flower Foods, Inc., Maywood, Ill. Composition containing chemical ingredients for cut plants. Serial No. 457,808; Mar. 9. Class 6.

Harrison, Robert, New York, N. Y. Pictorial magazine. Serial No. 457,810; Mar. 9. Class 38.

Hoffmann-La Roche, Inc., Nutley, N. J. Vitamin preparation. Serial No. 457,469; Mar. 9. Class 6.

Hordern-Richmond Aircraft Limited, Haddenham, England. Aeroplanes made principally of wood and wooden structural parts thereof. Serial No. 456,184; Mar. 9. Class 19.

Hordern-Richmond Aircraft Limited, Haddenham, England. Plywood. Serial No. 456,185; Mar. 9. Class 12.

Industrial Sales Corporation, New York, N. Y. Linseed oil, denatured alcohol, pine oil, etc. Serial No. 455,269; Mar. 9. Class 16.

Johnson, Julius E., doing business as J. E. Johnson & Co., Chicago, Ill. Cleaning compound. Serial No. 457,276; Mar. 9. Class 4.

Katz & Burkin, New York, N. Y. Hosiery. Serial No. 457,499; Mar. 9. Class 39.

Kimberlin, Carna M., doing business as Kimberlin Manufacturing Co., Spokane, Wash. Heaters used in maintaining temperatures in water and oil systems and internal combustion engines. Serial No. 453,756; Mar. 9. Class 34.

Kitchen Art Foods Inc., Chicago, Ill. Food products and ingredients thereof. Serial No. 443,939; Mar. 9. Class 46.

Kresge, S. S., Company, Detroit, Mich. Ladies' slips. Serial No. 457,935; Mar. 9. Class 39.

Liberty Vitamin Corporation, New York, N. Y. Vitamin preparation. Serial No. 457,762; Mar. 9. Class 6.

Liberty Vitamin Corporation, New York, N. Y. Multiple vitamin mineral therapy, vitamins in capsule form, and minerals in tablet form. Serial No. 457,764; Mar. 9. Class 6.

Luxury Mint & Gum Company, Chicago, Ill. Chewing gum, mint and hard candy. Serial No. 455,053; Mar. 9. Class 46.

Masury-Young Company, Boston, Mass. Floor dressing. Serial No. 457,879; Mar. 9. Class 16.

Max Ams, Inc., New York, N. Y. Prune butter. Serial No. 457,844; Mar. 9. Class 46.

Metal Findings Corporation, New York, N. Y. Metal jewelers' findings. Serial No. 455,483; Mar. 9. Class 28.

Miller, Gerald F., doing business as Checkers Clothing Company, Dallas, Tex. Women's slack suits, women's play suits, women's short sport jackets, etc. Serial No. 449,842; Mar. 9. Class 39.

Minnesota Mining & Manufacturing Company, St. Paul, Minn. Pressure-sensitive adhesive tape. Serial No. 436,937; Mar. 9. Class 5.

National Technical Laboratories, South Pasadena, Calif. Automatic germicide mixers and dispensers. Serial No. 446,743; Mar. 9. Class 13.

Norris, John L., Jr., doing business as Victus Products, Lyndonville, Vt. Ointment. Serial No. 457,795; Mar. 9. Class 6.

Oliver & Kaufman, New York, N. Y. Textile fabrics, in the piece, in the bolt, and as removable and non-removable slipcovers. Serial No. 457,861; Mar. 9. Class 42.

Parke, Davis & Company, Detroit, Mich. Preparation used in the treatment of diseases of the respiratory tract. Serial No. 456,156; Mar. 9. Class 6.

Pass Book and Check Cover Company, The, Denver, Colo. Bank pass books, cover for books. Serial No. 449,778; Mar. 9. Class 37.

Pfister Hybrid Corn Company, El Paso, Ill. Seed corn. Serial No. 447,153; Mar. 9. Class 1.

Pomilla, Frances, doing business as Beaux Arts Professional Instrument Mfg. Co. and Beaux Arts Instruments Co., Passaic, N. J. Electric needle machines for killing the roots of, or the removal of, undesired human hair by electrolysis. Serial No. 457,207; Mar. 9. Class 44.

Premo Pharmaceutical Laboratories, Inc., New York, N. Y. Preparation for treatment of deficiency in B complex factors. Serial No. 458,045; Mar. 9. Class 6.

Premo Pharmaceutical Laboratories, Inc., New York, N. Y. Vitamin concentrate. Serial No. 458,046; Mar. 9. Class 6.

Puritan Chemical Company, Atlanta, Ga. Chemical preparation. Serial No. 456,724; Mar. 9. Class 6.

Renart Sportswear Corp., New York, N. Y. Women's and girls' sweaters. Serial No. 457,882; Mar. 9. Class 39.

Rockwell-Barnes Company, Chicago, Ill. Note books and blank books. Serial No. 454,313; Mar. 9. Class 37.

Russell, Ann, doing business as The Russell Chemical Company, Cleveland, Ohio. Crystalline cleaning powder. Serial No. 452,084; Mar. 9. Class 4.

Sapolin Co. Inc., New York, N. Y. Oil base paints for interior use. Serial No. 457,451; Mar. 9. Class 16.

Sharples Chemicals Inc., Philadelphia, Pa. Synthetic organic chemical condensation products. Serial No. 454,019; Mar. 9. Class 1.

Sire-Phillips, Inc., Dalton, Ga., and New York, N. Y. Stuffed animal toys and dolls. Serial No. 458,021; Mar. 9. Class 22.

Society of Chemical Industry in Basle, Basel, Switzerland. Intestinal antiseptic and an internal disinfectant. Serial No. 450,290; Mar. 9. Class 6.

Southern Supply Company. (See Thompson, Lee H.)

Thompson, Lee H., doing business as Southern Supply Company, Pasadena, Calif. Washing preparations. Serial No. 451,733; Mar. 9. Class 4.

Typosture Chair Co. (See Bernstein, Herbert H.)

United Wall Paper Factories, Inc., Chicago, Ill. Wall paper. Serial No. 456,856; Mar. 9. Class 37.

Victus Products. (See Norris, John L., Jr.)

Voit, Alfred M., Louisville, Ky. Board game played in conjunction with cards. Serial No. 454,317; Mar. 9. Class 22.

Volume Sprayer Manufacturing Co., Inc., Tulsa, Okla. Game. Serial No. 456,996; Mar. 9. Class 22.

Waltham Watch Company, Waltham, Mass. Watches, clocks, chronometers, etc., and parts of the foregoing. Serial No. 453,286; Mar. 9. Class 27.

Westinghouse Air Brake Company, The, Borough of Wilmerding, Pa. Pneumatic horns and air raid alarm equipments. Serial No. 458,056; Mar. 9. Class 23.

Wilson & Co., Inc., Chicago, Ill. Beef, lamb, veal, etc. Serial No. 455,058; Mar. 9. Class 46.

Wollensak Optical Company, Rochester, N. Y. Photographic shutters. Serial No. 457,733; Mar. 9. Class 26.

Zip Manufacturing Company. (See Carmack, Edward S.)

LIST OF REGISTRANTS OF TRADE-MARKS

Abbott Laboratories, North Chicago, Ill. Suspension of a sulfonamide in oil for use as a veterinary antiseptic. 400,453; Mar. 9; Serial No. 456,264; published Dec. 22, 1942. Class 6.

Ada Milling Company, Ada, Okla. Wheat flour. 400,397; Mar. 9; Serial No. 447,263; published Dec. 29, 1942. Class 46.

Air-Way Electric Appliance Corporation, Toledo, Ohio. Washing machines and parts thereof and particularly those of the electric-driven type, for washing clothes. 165,872; renewed Mar. 20, 1943.

Air-Way Electric Appliance Corporation, as assignee of the Air-Way Company, Toledo, Ohio, assignor to Air-Way Electric Appliance Corporation, Toledo, Ohio. Electric vacuum cleaners. 169,281; renewed June 12, 1943.

Alger, Sanford E., Jr., Brockton, Mass. Baby chicks. 400,430; Mar. 9; Serial No. 455,618; published Dec. 29, 1942. Class 46.

Allied Stores Corporation, Wilmington, Del., doing business as The Bon Marche, Seattle, Wash., and Dey Brothers & Company, Syracuse, N. Y. Men's suits, topcoats, gabardine raincoats, etc. 400,456; Mar. 9. Serial No. 456,300; published Dec. 29, 1942. Class 39.

Amereng Fabrics, Inc., New York, N. Y. Woolen and worsted piece goods. 400,457; Mar. 9; Serial No. 456,301; published Dec. 22, 1942. Class 42.

American Chemical & Drug Co., assignor to N. D. Petrochko and Company, Olyphant, Pa. Medicinal preparation. 170,431; renewed July 17, 1943.

American Steel and Wire Company of New Jersey, The, Cleveland, Ohio, Chicago, Ill., Pittsburgh, Pa., New York, N. Y., and Worcester, Mass., to The American Steel and Wire Company of New Jersey, Cleveland, Ohio. Nails. 170,153; renewed July 10, 1943.

Anderson, Arthur A., doing business as Arthur Anderson Fish Co., successor to Columbia River Salmon Co. Inc., Astoria, Oreg. Canned salmon. 170,515; renewed July 17, 1943.

Anderson, Wm., Textile Mfg. Co. Ltd., New York, N. Y. Cotton and rayon piece goods. 400,454; Mar. 9; Serial No. 456,281; published Dec. 22, 1942. Class 42.

Astrup Company, The, Cleveland, Ohio. Articles of tent and awning hardware. 164,376; renewed Feb. 20, 1943.

Atlas Underwear Company, The, Piqua, Ohio. Women's hosiery. 400,462; Mar. 9; Serial No. 456,444; published Dec. 29, 1942. Class 39.

Augsburg Publishing House, Minneapolis, Minn. Publication. 400,471; Mar. 9. Class 38.

Austin, H. A. Company, Incorporated, The, Worcester, Mass. Breast forms. 400,452; Mar. 9; Serial No. 456,257; published Dec. 22, 1942. Class 40.

Barker, H. L., Incorporated, New York, N. Y. Oleomargarine. 400,412; Mar. 9; Serial No. 452,761; published Dec. 29, 1942. Class 46.

Beatrice Creamery Company. (See Sumner Co., The.)

Beilinson, L. & D., Inc., New York, N. Y. Ladies' dresses, coats, and suits. 400,487; Mar. 9. Class 39.

Bernice Blouse Co., Inc., New York, N. Y. Clothing. 400,481; Mar. 9. Class 39.

Bon Marche, The. (See Allied Stores Corporation.)

Boonville Mills Company, Boonville, Mo. Wheat flour, corn meal, and graham flour. 170,845; renewed July 24, 1943.

Bristol-Myers Company, New York, N. Y., assignor, by mesne assignments, to William S. Remington, doing business as A. J. Phillips Company, Potsdam, N. Y. Cathartic and laxative preparation. 167,911; renewed May 8, 1943.

Budeke, George M., doing business as George M. Budeke Co. and Budeke's, Baltimore, Md. Painters' materials. 400,440; Mar. 9; Serial No. 456,011; published Dec. 29, 1942. Class 16.

Budeke, George M., doing business as George M. Budeke Co. and Budeke's, Baltimore, Md. Paste paint. 400,441; Mar. 9; Serial No. 456,012; published Dec. 29, 1942. Class 16.

Bulco. (See Bullion, Isadore.)

Bullion, Isadore, doing business as Bulco, New York, N. Y. Perfumes. 400,459; Mar. 9; Serial No. 456,363; published Dec. 22, 1942. Class 6.

Burgio Bros., Inc., New York, N. Y. Hosiery. 400,486; Mar. 9. Class 39.

Burns, E. Reed, Manufacturing Corporation, Brooklyn, N. Y. Polishing compositions in the form of powder, paste, and liquid, for metal. 170,499; renewed July 17, 1943.

Butterfield, Elmore E., Long Island City, N. Y. Porefilling, impregnating, water-repellent, etc., liquids for materials. 400,449; Mar. 9; Serial No. 456,232; published Dec. 29, 1942. Class 6.

California Growers Association, Inc., Los Angeles, assignor, by mesne assignments, to Tri-Valley Packing Association, San Francisco, Calif. Canned fruits, canned vegetables, olives, etc. 170,910; renewed July 24, 1943.

Cameron Surgical Specialty Company, Chicago, Ill. Instruments used to provide illumination and examine the interior of cavities in medical and surgical practise. 400,496; Mar. 9. Class 44.

Cameron, W. H. Morton, Toronto, Ontario, Canada. Jig saw puzzles. 400,439; Mar. 9; Serial No. 455,966; published Dec. 29, 1942. Class 22.

Canada Dry Ginger Ale, Incorporated, New York, N. Y. Beverages. 400,467; Mar. 9; Serial No. 456,580; published Dec. 29, 1942. Class 45.

Carlay Co., The. (See Futter, C. A.)

Carson Pirie Scott & Co., Chicago, Ill. Women's, misses', girls', etc., hats, caps, and bonnets. 166,722; renewed Apr. 10, 1943.

Carson Pirie Scott & Co., Chicago, Ill. Children's underwear. 166,721; renewed Apr. 10, 1943.

Central Santa Isabel, Fomento, Cuba. Refined sugar. 400,472; Mar. 9. Class 46.

Collegiate Manufacturing Co., Inc., New York, N. Y. Ladies' underwear. 400,465; Mar. 9; Serial No. 456,553; published Dec. 29, 1942. Class 39.

Columbia River Salmon Co. Inc. (See Anderson, Arthur A.)

Creolin Co., The, Rahway, N. J. Disinfectant for veterinary uses. 164,685; renewed Feb. 27, 1943.

Dayton Rubber Manufacturing Co., The, Dayton, Ohio. Fan belts. 169,891; renewed May 8, 1943.

Dayton Rubber Manufacturing Company, The, Dayton, Ohio. Driving belts for machinery. 400,450; Mar. 9; Serial No. 456,234; published Dec. 29, 1942. Class 35.

Dayton Rubber Manufacturing Company, The, Dayton, Ohio. Fan belts and radiator hose. 400,451; Mar. 9; Serial No. 456,235; published Dec. 29, 1942. Class 35.

Dearden, John E., Philadelphia, Pa. Periodical 400,480; Mar. 9. Class 38.

Dey Brothers & Company. (See Allied Stores Corporation.)

Dillow, Guy G., doing business as Sweetrest Company, Chicago, Ill. Laxative tablets. 400,458; Mar. 9; Serial No. 456,307; published Dec. 22, 1942. Class 6.

Drybak Corporation, The, Binghamton, N. Y. Clothing. 400,396; Mar. 9; Serial No. 446,317; published Dec. 22, 1942. Class 39.

Duplex Printing Press Company, Battle Creek, Mich. Perfecting printing-presses. 23,192; re-renewed June 6, 1943.

Du Pont, E. I., de Nemours and Company. (See Roessler & Hasslacher Chemical Company, The, assignor.)

Elmo Packing Company. (See Tolibia Cheese Corporation.)

Endo Products, Inc., New York, N. Y. Preparation consisting of an antiseptic solution. 400,418; Mar. 9; Serial No. 453,957; published Aug. 25, 1942. Class 6.

Enterprise Paint Mfg. Co., Chicago, Ill. Paints and painters' materials. 169,451; renewed June 19, 1943.

Enterprise Paint Mfg. Co., Chicago, Ill. Ready-mixed and paste paints, varnishes, and paint enamels. 169,825; renewed July 3, 1943.

Enterprise Paint Mfg. Co., Chicago, Ill. Ready-mixed and paste paints, varnishes, and paint enamels. 170,267–8; renewed July 10, 1943.

Empire Shield Co., to Empire Shield Co., Inc., New York, N. Y. Dress shields. 169,890; renewed July 3, 1943.

Erikson, Iver J., assignor to Iver J. Erikson, Inc., Worcester, Mass. Asphalt composition roofing. 167,457; renewed May 1, 1943.

Expectant Mother Dress Co. (See Peck, Samuel.)

Faehndrich, William, doing business as Wm. Faehndrich, New York, to William Faehndrich, Brooklyn, N. Y. Cheese. 170,665; renewed July 17, 1943.

Falstaff Corporation, assignor to Falstaff Brewing Corporation, St. Louis, Mo. Malt extract. 169,803; renewed July 3, 1943.

Fan and Bill's, Inc., New York, N. Y. Tea, fresh cream, sugar. 400,395; Mar. 9; Serial No. 436,602; published Dec. 29, 1942. Class 46.

Fawcett Publications, Inc., Greenwich, Conn. Magazine publication. 400,488; Mar. 9. Class 38.

Fear, Ernest D., Kansas City, Mo. Mixture used to increase the mineral content in the processing of milk and in the confection of ice cream. 400,445–6; Mar. 9; Serial Nos. 456,140–1; published Dec. 29, 1942. Class 6.

Federal-Mogul Corporation. (See Watkins Manufacturing Company, The, assignor.)

Ford Roofing Products Company, Chicago, Ill. Building siding material. 400,476; Mar. 9. Class 12.

Futter, C. A., doing business as The Carlay Co., Chicago, Ill. Vitamin capsules. 400,420; Mar. 9; Serial No. 454,227; published Dec. 22, 1942. Class 6.

Galen Company, Berkeley, Calif. Vitamin B complex concentrates and elixirs and tonics. 400,404; Mar. 9; Serial No. 452,070; published Dec. 22, 1942. Class 6.

Galen Company, Berkeley, Calif. Elixirs, tonics, adsorbates, etc. 400,406–7; Mar. 9; Serial Nos. 452,266–7; published Dec. 22, 1942. Class 6.

Gardner, Wm. H., doing business as Gardner Food Products Co., San Marino, Calif. Pickle relish. 400,477; Mar. 9. Class 46.

Garratt-Callahan Co. of California, San Francisco, Calif. Liquid solvent for removing scale and other incrustrations from equipment. 400,468; Mar. 9; Serial No. 456,596; published Dec. 29, 1942. Class 6.

Goheen Corporation, The, Wilmington, Del., and Warren, Ohio, assignor to Vita-Var Corporation, Newark, N. J. Paint. 169,596; renewed June 26, 1943.

Goldstein, Abe, New York, N. Y. Dresses and suits for ladies, girls, and children. 400,436; Mar. 9; Serial No. 455,844; published Dec. 29, 1942. Class 39.

Goodman & Suss Clothes Corporation, New York, N. Y. Men's coats, vests, trousers, etc. 400,392; Mar. 9; Serial No. 430,446; published June 30, 1942. Class 39.

Goodrich, B. F., Company, The, Akron, Ohio, and New York, N. Y. Pneumatic tire casings of rubber and fabric. 400,473; Mar. 9. Class 35.

Guttman, Joseph, & Bros., New York, N. Y. Dresses, blouses, skirts, etc. 400,409; Mar. 9; Serial No. 452,349; published June 16, 1942. Class 39.

Haft, Morris W., & Brothers, New York, N. Y. Ladies' and misses' coats, suits, jackets, etc. 400,460; Mar. 9; Serial No. 456,366; published Dec. 22, 1942. Class 39.

Haft, Morris W., & Brothers, New York, N. Y. Ladies' and misses' coats, suits, jackets, etc. 400,466; Mar. 9; Serial No. 456,557; published Dec. 29, 1942. Class 39.

Harrington & Richardson Arms Company, Worcester, Mass. Light firearms of the machine gun type. 400,433; Mar. 9; Serial No. 455,656; published Dec. 29, 1942. Class 9.

Hawthorne Paper Company, Kalamazoo, Mich. Writing paper. 170,586; renewed July 17, 1943.

Henshel Co. Inc. The, New York, N. Y., to Stein & Ellbogen Company, Chicago, Ill. Artificial pearls. 170,027; renewed July 10, 1943.

Holland, Benjamin, Manufacturing Company, Seattle, Wash. Ice cream fruits; ice cream fruit specialties; ice cream nut specialties, etc. 400,484; Mar. 9. Class 46.

Hollidge, C. Crawford, Ltd., Boston, Mass. Hosiery. 400,391; Mar. 9; Serial No. 424,940; published Sept. 9, 1941. Class 39.

Hollywood Highland Sportswear Company Glendale, Calif. Men's sports jackets and shirts. 400,415; Mar. 9; Serial No. 453,671; published Dec. 29, 1942. Class 39.

Hoody Peanut Butter Co. (See Townsend, Glenn Q.)

Hooven & Allison Company, The, Xenia, Ohio. Sisal rope. 169,486; renewed June 19, 1943.

Hooven & Allison Company, The, Xenia, Ohio. Cordage. 170,000; renewed July 10, 1943.

Hoover Manufacturing and Sales Company, New York, N. Y. Women's and misses' aprons, and uniforms for nurses, maids, and waitresses. 400,474; Mar. 9. Class 39.

Household Products Co. (See Plee-Zing, Inc.)

Hygienic Products Company, The, Canton, Ohio. Cleaning powder for water-closet bowls. 169,498; renewed June 19, 1943.

Hypex Co., New York, N. Y. Ointment base. 400,455; Mar. 9; Serial No. 456,288; published Dec. 29, 1942. Class 6.

Hurd-Bullock, Nettie M., Detroit, Mich. Metal alloys having a lead base. 400,429; Mar. 9; Serial No. 455,594; published Dec. 29, 1942. Class 14.

Irving Iron Works Company, to Irving Subway Grating Co. Inc., Long Island City, N. Y., successor. Metal gratings for floorings and staircases. 169,336; renewed June 12, 1943.

Jefferson, A. C., doing business as Jefferson Orchards San Juan, Tex. Fresh citrus fruit and canned citrus fruit juices for food purposes. 400,483; Mar. 9. Class 46.

Kastrin, Mathew, doing business as Mathew Matzuni Laboratories, Detroit, Mich. Medicine for the relief of dyspepsia, constipation, and stomach disorders. 400,447; Mar. 9; Serial No. 456,149; published Dec. 29, 1942. Class 6.

Kaylon Incorporated, New York, N. Y. Men's and ladies' pajamas, nightshirts and nightgowns. 400,463; Mar. 9; Serial No. 456,492; published Dec. 29, 1942. Class 39.

Keith, Geo. E., Company, Brockton, Mass. Leather boots and shoes. 170,219; renewed July 10, 1943.

Kentucky Macaroni Company, Louisville, Ky. Spaghetti sauce, spaghetti, macaroni, etc. 400,403; Mar. 9; Serial No. 452,063; published Dec. 29, 1942. Class 46.

Keystone Varnish Company, Brooklyn, N. Y. Preparation to be used in the manufacture of floor paints, enamels, etc., and as a finishing varnish. 170,610; renewed July 17, 1943.

Komel Corporation, The, Dayton, Ohio. Alkali metal starchates and derivatives thereof. 400,425; Mar. 9; Serial No. 455,343; published Dec. 29, 1942. Class 6.

Lehn & Fink Products Corporation, Bloomfield, N. J. Lipsticks, dry and cream rouge, and nail polish. 400,448; Mar. 9; Serial No. 456,189; published Dec. 1, 1942. Class 6.

Lelong, Lucien, Inc., Chicago, Ill. Perfumes and colognes. 400,426; Mar. 9; Serial No. 455,344; published Dec. 29, 1942. Class 6.

Levenson Company The, Boston, Mass. Women's and misses' coats. 400,421; Mar. 9; Serial No. 455,077; published Dec. 29, 1942. Class 39.

Loft Candy Corporation. (See U. R. S. Candy Stores, Inc.)

Loft Candy Stores, Inc. (See U. R. S. Candy Corporation.)

Mailliard & Schmiedell, assignor, by mesne assignments, to Mailliard & Schmiedell, San Francisco, Calif. Olive oil. 170,872; renewed July 24, 1943.

Mandell, Albert, Norwalk, Conn. Shampoo soap. 400,494; Mar. 9. Class 6.

Marshall Field & Company, Chicago, Ill. Rugs. 400,424; Mar. 9; Serial No. 455,332; published Dec. 22, 1942. Class 42.

Martin, Glenn L., Company, The, Baltimore & Middle River, Md. Heavier than air aircraft. 400,405; Mar. 9; Serial No. 452,078; published Dec. 29, 1942. Class 19.

Matzuni, Mathew, Laboratories. (See Kastrin, Mathew.)

Medicinal preparation. American Chemical & Drug Co. 170,431; renewed July 17, 1943.

Merkin, M. J., Paint Co., Inc., Long Island City, to M. J. Merkin Paint Co., Inc., New York, N. Y. Lead, oil, and zinc paint. 169,950; renewed July 10, 1943.

Mineralized Foods, Inc., Baltimore, Md. Soluble tablet for making soup. 400,478; Mar. 9. Class 46.

Mines & Flaster Coat Corp., New York, N. Y. Misses' and junior misses' coats, suits, jackets, etc. 400,495; Mar. 9. Class 39.

Monroe, Lederer & Taussig, to Monroe, Lederer & Taussig, Inc., Philadelphia, Pa., successor. Paints, paint enamels, stains, and varnishes. 167,929; renewed May 8, 1943.

Monroe, Lederer & Taussig, to Monroe, Lederer & Taussig, Inc., Philadelphia, Pa., successor. Paints, paint enamels, stains, etc. 167,932; renewed May 8, 1943.

Moore, Joseph, F., St. George, Staten Island, N. Y. Milk food products. 400,416; Mar. 9; Serial No. 453,808; published Dec. 29, 1942. Class 46.

Myles Salt Co., Ltd., New Orleans, La. Salt. 400,475; Mar. 9. Class 46.

National Drug and Chemical Company of Canada, Limited, Montreal, Quebec, Canada. Toilet preparation for the hair in the form of a pomade. 400,411; Mar. 9; Serial No. 452,648; published Dec. 22, 1942. Class 6.
National Nugrape Company. (See Nugrape Company of America, assignor.)
National Retail Dry Goods Association, New York, N. Y. Trade papers and bulletins. 169,690; renewed June 26, 1943.
Naturaline Corset Co., Boston, Mass. Corsets. 168,202; renewed May 15, 1943.
Newell Mfg. Co., The, Ogdensburg, N. Y. Curtain fixtures. 165,762; renewed Mar. 20, 1943.
Norcross, New York, N. Y. Greeting cards. 400,482; Mar. 9. Class 38.
Novocol Chemical Mfg. Co., Inc., Brooklyn, N. Y. Impression compound. 169,511; renewed June 19, 1943.
Nugrape Company of America, assignor, by mesne assignments, to National Nugrape Company, Atlanta, Ga. Maltless beverages and sirups and extracts therefor. 164,168; renewed Feb. 13, 1943.
Oak Park Chamber of Commerce, Oak Park, Ill. Publication. 400,489; Mar. 9. Class 38.
Paragon Hat Company, assignor to Paragon Hat Company, Chicago, Ill. Men's straw and felt hats. 166,658; renewed Apr. 10, 1943.
Parke, Davis & Company, Detroit, Mich. Preparations used in treatment of fungus and other infections. 400,401; Mar. 9; Serial No. 451,849; published May 5, 1942. Class 6.
Parke, Davis & Company, Detroit, Mich. Preparation used in prevention and treatment of nutritional disturbances. 400,402; Mar. 9; Serial No. 451,851; published June 30, 1942. Class 6.
Peck, Samuel, doing business as Expectant Mother Dress Co., New York, N. Y. Maternity dresses. 400,435; Mar. 9; Serial No. 455,762; published Dec. 22, 1942. Class 39.
Pepgo Chemical Products Company. (See Schimmel, Samuel.)
Petrochko, N. D., and Company. (See American Chemical & Drug Co., assignor.)
Phillips, A. J., Company. (See Bristol-Meyers Company.)
Piedmont Shirt Company, Greenville, S. C. Men's water repellent jackets. 400,422; Mar. 9; Serial No. 455,085; published Dec. 22, 1942. Class 39.
Plee-Zing, Inc., doing business as Household Products Co., Chicago, Ill., assignor to Household Products Co. Glass cleaning preparation, sweeping compound, laundry soap, etc. 400,410; Mar. 9; Serial No. 452,567; published Dec. 29, 1942. Class 4.
Pool, Clarence, Los Angeles, Calif. Packing. 400,437; Mar. 9; Serial No. 455,848; published Dec. 29, 1942. Class 35.
Premier Cutlery, Inc., New York, N. Y., by change of name to The Premier Co., Inc. Cutlery of base metal. 168,713; renewed May 29, 1943.
Premo Pharmaceutical Laboraties, Inc., New York, N. Y. Pharmaceutical preparation. 400,464; Mar. 9; Serial No. 456,545; published Dec. 29, 1942. Class 6.
Prince Matchabelli, Inc., New York, N. Y. Cologne, dusting powder, and bath oil. 400,393; Mar. 9; Serial No. 456,689; published Dec. 29, 1942. Class 6.
Progressive Leather Goods Company, West New York, N. J. Traveling toilet cases, fitted and unfitted. 400,498; Mar. 9. Class 3.
Quigley Furnace Specialties Company, Inc., New York, N. Y., by change of name to Quigley Company, Inc. Refractory material for lining and repairing structures subject to high temperature. 165,193; renewed Mar. 6, 1943.
Reliance Manufacturing Company, Chicago, Ill. Dresses for women, misses and girls. 400,442; Mar. 9; Serial No. 456,107; published Dec. 22, 1942. Class 39.
Remington, William S. (See Bristol-Myers Company, assignor.)
Renart Sportswear Corp., New York, N. Y. Women's and girls' sweaters. 400,444; Mar. 9; Serial No. 456,131; published Dec. 29, 1942. Class 39.
Renart Sportswear Corp., New York, N. Y. Women's and girls' sweaters. 400,493; Mar. 9. Class 39.
Rhino-Sole Limited, West Croydon, England. Plastic compositions. 400,400; Mar. 9; Serial No. 451,612; published Dec. 29, 1942. Class 5.
Riviera Packing Corporation, New York, N. Y. Canned fish. 400,470; Mar. 9; Serial No. 456,661; published Dec. 29, 1942. Class 46.
Rockbestos Products Corporation, New Haven, Conn. Wire and cables for electrical use. 400,443; Mar. 9; Serial No. 456,108; published Dec. 29, 1942. Class 21.
Roessler & Hasslacher Chemical Company, The, New York, N. Y., assignor, by mesne assignments, to E. I. du Pont de Nemours and Company, Wilmington, Del. Zinc alloy used in zinc plating. 164,740; renewed Feb. 27, 1943.
Roessler & Hasslacher Chemical Company, The, New York, N. Y., assignor, by mesne assignments, to E. I. du Pont de Nemours and Company, Wilmington, Del. Zinc used in zinc plating. 164,741; renewed Feb. 27, 1943.
St. Regis Paper Co., Watertown, to St. Regis Paper Company, New York, N. Y. Fiber shipping cases. 170,640; renewed July 17, 1943.
Salisbury, W. H., & Co., Chicago, Ill. Linemen's rubber jackets. 400,497; Mar. 9. Class 39.
Schaefer, F. & M., Brewing Co., The, Brooklyn, N. Y. Beer. 400,431–2; Mar. 9; Serial Nos. 455,632–3; published Dec. 22, 1942. Class 48.
Scherl & Roth, Inc. (See Simson & Frey, Inc., assignor.)
Schimmel, Samuel, doing business as Pepgo Chemical Products Company, Philadelphia, Pa. Chemical preparation for increasing the life and efficiency of electric storage batteries, to prevent sulphation and corrosion, etc. 400,417; Mar. 9; Serial No. 453,947; published Dec. 29, 1942. Class 6.
Sea Products Laboratories, Inc., New York, N. Y. Toilet soap. 400,398; Mar. 9; Serial No. 447,894; published Dec. 29, 1942. Class 4.
Sea Products Laboratories, Inc., New York, N. Y. Soap. 400,399; Mar. 9; Serial No. 448,586; published Dec. 29, 1942. Class 4.
Seamon, A. & L., Inc., Brooklyn, N. Y. Wallets and keycases. 400,408; Mar. 9; Serial No. 452,278; published Dec. 29, 1942. Class 3.
Sears, Roebuck and Co., Chicago, Ill. Vitamin capsules. 400,461; Mar. 9; Serial No. 456,370; published Dec. 29, 1942. Class 6.
Sensat, G., Hijos, Barcelona, Spain. Olive oil. 158,534; renewed Sept. 5, 1942.
Shaw, H. E., Company, Worcester, Mass. Canned fruits, fruits in jars, and marshmallow topping, etc. 400,490; Mar. 9. Class 46.
Sherwin-Williams Company, The, Cleveland, Ohio. Paints, paint enamels, japans, etc. 164,606–7; renewed Feb. 20, 1943.
Sherwin-Williams Company, The, Cleveland, Ohio. Chemical dip to control scabies of sheep and cattle. 165,480; renewed Mar. 13, 1943.
Silzle, E. A., Corporation, Anaheim, Calif. Canned citrus juices for beverages purposes. 400,423; Mar. 9; Serial No. 455,090; published Dec. 22, 1942. Class 45.
Simson & Frey, Inc., New York, N. Y., assignor to Scherl & Roth, Inc., Cleveland, O. Strings for violins and similar musical instruments. 170,458; renewed July 17, 1943.
Society Club Beverage Corporation, Newark, N. J. Soft drinks. 170,051; renewed July 10, 1943.
Southern Spring Bed Company, Atlanta, Ga. Spring beds, mattresses, cots and metal bedsteads. 170,559; renewed July 17, 1943.
Squibb, E. R., & Sons, New York, N. Y. Antihemorrhagic preparations. 400,469; Mar. 9; Serial No. 456,633; published Dec. 22, 1942. Class 6.
Sta-Brite Products Corporation, The, New Haven, Conn. Flatware. 400,485; Mar. 9. Class 23.
Standard Oil Company, Whiting, Ind., and Chicago, Ill. Burning oil or kerosene. 164,710; renewed Feb. 27, 1943.
Standard Oil Company, Whiting, Ind., and Chicago, Ill. Lubricating oils and greases. 165,827; renewed Mar. 20, 1943.
Standard Oil Company, Whiting, Ind., and Chicago, Ill. Lubricating oils and greases. 166,494; renewed Apr. 3, 1943.
Standard Oil Company, Whiting, Ind., and Chicago, Ill. Lubricating oils and greases. 167,537; renewed May 1, 1943.
Standard Oil Company, Whiting, Ind., and Chicago, Ill. Gasoline, candles, liquid paraffin, etc. 168,756; renewed May 29, 1943.
Standard Oil Company, Whiting, Ind., and Chicago, Ill. Asphalt and paving filler. 169,351; renewed June 12, 1943.
Standard Oil Company, Whiting, Ind., and Chicago, Ill. Wool oil. 169,898; renewed July 3, 1943.
Standard Oil Company, Whiting, Ind., and Chicago, Ill. Gasoline. 170,461; renewed July 17, 1943.
Steckler, Nat P., New York, N. Y. Nipples, pacifiers, nursing bottle tops, etc. 400,394; Mar. 9; Serial No. 431,716; published Dec. 29, 1942. Class 44.
Stein & Ellbogen Company. (See Henshel Co. Inc., The.)
Sullivan Company, The, to The Sullivan Company, Memphis, Tenn., successor. Composition for use in hardening cement and for furnishing a finish to the products after setting. 169,436; renewed June 19, 1943.
Sumner Co., The, Akron, Ohio, to Beatrice Creamery Company, Chicago, Ill., successor. Butter. 168,668; renewed May 29, 1943.
Superior Feed Mills, Oklahoma City, Okla. Poultry feeds, live stock feeds, and dog food. 400,428; Mar. 9; Serial No. 455,488; published Dec. 29, 1942. Class 46.
Sweetrest Company. (See Dillow, Guy G.)
Tayler, D. F., and Company Limited, Birmingham, England. Toilet pins, hairpins, safety pins, etc. 166,238; renewed Mar. 27, 1943.
Timken-Detroit Axle Company. (See Vickers Manufacturing Corporation.)
Tolibia Cheese Corporation, doing business as Elmo Packing Company, New York, N. Y. Cheese and tomato paste. 400,438; Mar. 9; Serial No. 455,961; published Dec. 29, 1942. Class 46.
Top Notch Dress Company, Boston, Mass. Women's and misses' dresses. 400,479; Mar. 9. Class 39.

Townsend, Glenn Q., doing business as Hoody Peanut Butter Co., assignor to Hoody Peanut Products Company, Portland, Oreg. Peanut butter and salted peanuts. 166,903; renewed Apr. 17, 1943.
Tri-Valley Packing Association. (See California Growers Association, Inc., assignor.)
Tru-Ade, Inc., Chicago, Ill. Beverage and concentrates and extracts for preparing the same. 400,434; Mar. 9; Serial No. 455,696; published Dec. 29, 1942. Class 45.
U. R. S. Candy Stores, Inc., Long Island City, N. Y., by change of name to Loft Candy Corporation. Candy. 169,135; renewed June 12, 1943.
U. R. S. Candy Stores, Inc., doing business as United Happiness Candy Stores, Long Island City, N. Y., by change of name to Loft Candy Corporation. Candy. 170,840; renewed July 24, 1943.
Ulmann, Bernhard, Co. Inc., New York, N. Y. Yarns for knitting, crocheting and art needlework. 170,170–1; renewed July 10, 1943.
United Happiness Candy Stores. (See U. R. S. Candy Stores, Inc.)
United Oil & Natural Gas Products Corporation, The, Monroe, La., assignor, by mesne assignments, to United Carbon Company, Inc., Charleston, W. Va. Hydrocarbon black used as a base in the manufacture of paints, varnish, and similar coloring matter. 170,445; renewed July 17, 1943.
United Retail Candy Stores, Inc., New York, N. Y., assignor, by mesne assignments, to Loft Candy Corporation, Long Island City, N. Y. Candy. 169,992; renewed July 10, 1943.
United States Bung Mfg. Co., The, New York and Brooklyn, N. Y., and Cincinnati, to The United States Bung Mfg. Co., Cincinnati, Ohio. Bungs. 170,928; renewed July 24, 1943.
Valley Fruit Company. (See Weir, Roy.)
Vickers Manufacturing Corporation, Buffalo, N. Y., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Hydraulic brake boosters and parts thereof. 400,491–2; Mar. 9. Class 19.
Vita-Var Corporation. (See Goheen Corporation, The, assignor.)
Wanamaker, John, New York, N. Y. Ladies', misses', and children's dresses. 163,640; renewed Jan. 23, 1943.
Ward Baking Company, New York, N. Y. Yeast food. 170,552; renewed July 17, 1943.
Watkins Manufacturing Company, The, Wichita, Kans., assignor to Federal-Mogul Corporation, Detroit, Mich. Babbitt bearings. 169,340; renewed June 12, 1943.
Weir, Roy, doing business as Valley Fruit Company, Pharr, Tex. Fresh citrus fruits and fresh vegetables. 400,427; Mar. 9; Serial No. 455,418; published Dec. 29, 1942. Class 46.
West Disinfecting Company, New York, to West Disinfecting Company, Long Island City, N. Y. Insecticide. 166,269; renewed Mar. 27, 1943.
Wilbur-Suchard Chocolate Company, Incorporated, Borough of Lititz, Pa. Chocolate flavored syrup. 400,419; Mar. 9; Serial No. 453,997; published Dec. 29, 1942. Class 46.
Williams, R. C., & Company, Inc., New York, N. Y. Beverages, quinine water, club soda and mineral water. 400,413; Mar. 9; Serial No. 453,652; published Dec. 29, 1942. Class 45.
Williams, R. C., & Company, Inc., New York, N. Y. Bluing, lye and potash, disinfectants, etc. 400,414; Mar. 9; Serial No. 453,655; published Dec. 29, 1942. Class 6.
Wood Conversion Company, Cloquet, to Wood Conversion Company, St. Paul and Cloquet, Minn. Insulating material. 167,562; renewed May 1, 1943.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 2

Cases, Fiber shipping. St. Regis Paper Co. 170,640; renewed July 17, 1943.

CLASS 3

Cases, fitted and unfitted, Traveling toilet. Progressive Leather Goods Company. 400,498; Mar. 9.
Wallets and keycases. A. & L. Seamon Inc. 400,408; Mar. 9; Serial No. 452,278; published Dec. 29, 1942.

CLASS 4

Cleaning powder for water-closet bowls. Hygienic Products Company. 169,498; renewed June 19, 1943.
Cleaning preparation, sweeping compound, laundry soap, etc., Glass. Plee-Zing, Inc. 400,410; Mar. 9; Serial No. 452,567; published Dec. 29, 1942.
Polishing compositions, in the form of powder, paste and liquid, for metal. E. Reed Burns Manufacturing Corporation. 170,499; renewed July 17, 1943.
Soap. Sea Products Laboratories, Inc. 400,399; Mar. 9; Serial No. 448,586; published Dec. 29, 1942.
Soap, Toilet. Sea Products Laboratories, Inc. 400,398; Mar. 9; Serial No. 447,894; published Dec. 29, 1942.

CLASS 5

Plastic compositions. Rhino-Sole Limited. 400,400; Mar. 9; Serial No. 451,612; published Dec. 29, 1942.

CLASS 6

Alkali metal starchates and derivatives thereof. Komel Corporation. 400,425; Mar. 9; Serial No. 455,343; published Dec. 29, 1942.
Antihemorrhagic preparations. E. R. Squibb & Sons. 400,469; Mar. 9; Serial No. 456,633; published Dec. 22, 1942.
Bluing, lye and potash, disinfectants, etc. R. C. Williams & Company. 400,414; Mar. 9; Serial No. 453,655; published Dec. 29, 1942.
Cathartic and laxative preparation. Bristol-Myers Company. 167,911; renewed May 8, 1943.
Chemical dip to control scabies of sheep and cattle. Sherwin-Williams Company. 165,480; renewed Mar. 13, 1943.
Chemical preparation for increasing the life and efficiency of electric storage batteries, to prevent sulphation and corrosion, etc. S. Schimmel. 400,417; Mar. 9; Serial No. 453,947; published Dec. 29, 1942.
Cologne, dusting powder, and bath oil. Prince Matchabelli, Inc. 400,393; Mar. 9; Serial No. 456,689; published Dec. 29, 1942.
Disinfectant for veterinary uses. Creolin Co. 164,685; renewed Feb. 27, 1943.
Elixirs, tonics, adsorbates, etc. Galen Company. 400,406–7; Mar. 9; Serial Nos. 452,266–7; published Dec. 22, 1942.
Insecticide. West Disinfecting Company. 166,269; renewed Mar. 27, 1943.
Laxative tablets. G. G. Dillow. 400,458; Mar. 9; Serial No. 456,307; published Dec. 22, 1942.
Lipsticks, dry and cream rouge, and nail polish. Lehn & Fink Products Corporation. 400,448; Mar. 9; Serial No. 456,189; published Dec. 1, 1942.
Medicine for the relief of dyspepsia, constipation and stomach disorders. M. Kastrin. 400,447; Mar. 9; Serial No. 456,149; published Dec. 29, 1942.
Mixture used to increase the mineral content in the processing of milk and in the confection of ice cream. E. D. Fear. 400,445–6; Mar. 9; Serial Nos. 456,140–1; published Dec. 29, 1942.
Oil, Wool. Standard Oil Company. 169,898; renewed July 3, 1943.
Ointment base. Hypex Co. 400,455; Mar. 9; Serial No. 456,288; published Dec. 29, 1942.
Perfumes. I. Bullion. 400,459; Mar. 9; Serial No. 456,363; published Dec. 22, 1942.
Perfumes and colognes. Lucien Lelong Inc. 400,426; Mar. 9; Serial No. 455,344; published Dec. 29, 1942.
Pharmaceutical preparation. Premo Pharmaceutical Laboratories, Inc. 400,464; Mar. 9; Serial No. 456,545; published Dec. 29, 1942.
Pore-filling, impregnating, water-repellent, etc., liquids for materials. E. E. Butterfield. 400,449; Mar. 9; Serial No. 456,232; published Dec. 29, 1942.
Preparation consisting of an antiseptic solution. Endo Products, Inc. 400,418; Mar. 9; Serial No. 453,957; published Aug. 25, 1942.
Preparation used in prevention and treatment of nutritional disturbances. Parke, Davis & Company. 400,402; Mar. 9; Serial No. 451,851; published June 30, 1942.
Preparations used in treatment of fungus and other infections. Parke, Davis & Company. 400,401; Mar. 9; Serial No. 451,849; published May 5, 1942.
Shampoo soap. A. Mandell. 400,494; Mar. 9.
Solvent for removing scale and other incrustations from equipment, Liquid. Garratt-Callahan Co. of California. 400,468; Mar. 9; Serial No. 456,596; published Dec. 29, 1942.
Sulfonamide in oil for use as a veterinary antiseptic, Suspension of a. Abbott Laboratories. 400,453; Mar. 9; Serial No. 456,264; published Dec. 22, 1942.
Toilet preparation for the hair in the form of a pomade. National Drug and Chemical Company of Canada, Limited. 400,411; Mar. 9; Serial No. 452,648; published Dec. 22, 1942.
Vitamin B complex concentrates and elixirs and tonics. Galen Company. 400,404; Mar. 9; Serial No. 452,070; published Dec. 22, 1942.
Vitamin capsules. C. A. Futter. 400,420; Mar. 9; Serial No. 454,227; published Dec. 22, 1942.
Vitamin capsules. Sears, Roebuck and Co. 400,461; Mar. 9; Serial No. 456,370; published Dec. 29, 1942.

CLASS 7

Cordage. Hooven & Allison Company. 170,000; renewed July 10, 1943.

Rope, Sisal. Hooven & Allison Company. 169,486; renewed June 19, 1943.

CLASS 9

Firearms of the machine gun type, Light. Harrington & Richardson Arms Company. 400,433; Mar. 9; Serial No. 455,656; published Dec. 29, 1942.

CLASS 12

Asphalt and paving filler. Standard Oil Company. 169,351; renewed June 12, 1943.
Asphalt composition roofing. I. J. Erikson. 167,457; renewed May 1, 1943.
Composition for use in hardening cement and for furnishing a finish to the products after setting. Sullivan Company. 169,436; renewed June 19, 1943.
Insulating material. Wood Conversion Company. 167,562; renewed May 1, 1943.
Material, Building siding. Ford Roofing Products Company. 400,476; Mar. 9.
Metal gratings for floorings and staircases. Irving Iron Works Company. 169,336; renewed June 12, 1943.
Refractory material for lining and repairing structures subject to high temperature. Quigley Furnace Specialties Company. 165,193; renewed Mar. 6, 1943.

CLASS 13

Articles of tent and awning hardware. Astrup Company. 164,376; renewed Feb. 20, 1943.
Curtain fixtures. Newell Mfg. Co. 165,762; renewed Mar. 20, 1943.
Nails. American Steel and Wire Company of New Jersey. 170,153; renewed July 10, 1943.

CLASS 14

Alloys having a lead base, Metal. N. M. Hurd-Bullock. 400,429; Mar. 9; Serial No. 455,594; published Dec. 29, 1942.
Alloy used in zinc plating, Zinc. Roessler & Hasslacher Chemical Company. 164,740; renewed Feb. 27, 1943.
Zinc used in zinc plating. Roessler & Hasslacher Chemical Company. 164,741; renewed Feb. 27, 1943.

CLASS 15

Gasoline. Standard Oil Company. 170,461; renewed July 17, 1943.
Gasoline, candles, liquid paraffin, etc. Standard Oil Company. 168,756; renewed May 29, 1943.
Oil or kerosene, Burning. Standard Oil Company. 164,710; renewed Feb. 27, 1943.
Oils and greases, Lubricating. Standard Oil Company. 165,827; renewed Mar. 20, 1943.
Oils and greases, Lubricating. Standard Oil Company. 166,494; renewed Apr. 3, 1943.
Oils and greases, Lubricating Standard Oil Company. 167,537; renewed May 1, 1943.

CLASS 16

Hydrocarbon black used as a base in the manufacture of paints, varnish, and similar coloring matter. United Oil & Natural Gas Products Corporation. 170,445; renewed July 17, 1943.
Paint. Goheen Corporation. 169,596; renewed June 26, 1943.
Paint, Lead, oil and zinc. M. J. Merkin Paint Co. 169,950; renewed July 10, 1943.
Paint, Paste. G. M. Budeke. 400,441; Mar. 9; Serial No. 456,012; published Dec. 29, 1942.
Painters' materials. G. M. Budeke. 400,440; Mar. 9; Serial No. 456,011; published Dec. 29, 1942.
Paints and painters' materials. Enterprise Paint Mfg. Co. 169,451; renewed June 19, 1943.
Paints, paint enamels, japans, etc. Sherwin-Williams Company. 164,606–7; renewed Feb. 20, 1943.
Paints, paint enamels, stains and varnishes. Monroe, Lederer & Taussig. 167,929; renewed May 8, 1943.
Paints, paint enamels, stains, etc. Monroe, Lederer & Taussig. 167,932; renewed May 8, 1943.
Paints, varnishes, and paint enamels, Ready-mixed and paste. Enterprise Paint Mfg. Co. 169,825; renewed July 3, 1943.
Paints, varnishes, and paint enamels, Ready-mixed and paste. Enterprise Paint Mfg. Co. 170,267–8; renewed July 10, 1943.
Preparation to be used in the manufacture of floor paints, enamels, etc., and as a finishing varnish. Keystone Varnish Company. 170,610; renewed July 17, 1943.

CLASS 19

Aircraft, Heavier than air. Glenn L. Martin Company. 400,405; Mar. 9; Serial No. 452,078; published Dec. 29, 1942.
Brake boosters and parts thereof, Hydraulic. Vickers Manufacturing Corporation. 400,491–2; Mar. 9.

CLASS 21

Electric vacuum cleaners. Air-Way Electric Appliance Corporation. 169,281; renewed June 12, 1943.
Wire and cables for electrical use. Rockbestos Products Corporation. 400,443; Mar. 9; Serial No. 456,108; published Dec. 29, 1942.

CLASS 22

Puzzles, Jig saw. W. H. M. Cameron. 400,439; Mar. 9; Serial No. 455,966; published Dec. 29, 1942.

CLASS 23

Bearings, Babbitt. Watkins Manufacturing Company. 169,340; renewed June 12, 1943.
Flatware. Sta-Brite Products Corporation. 400,485; Mar. 9.
Printing-presses, Perfecting. Duplex Printing Press Company. 23,192; re-renewed June 6, 1943.

CLASS 24

Washing machines and parts thereof and particularly those of the electric-driven type, for washing clothes. Air-Way Electric Appliance Corporation. 165,872; renewed Mar. 20, 1943.

CLASS 28

Pearls, Artificial. Henshel Co. Inc. 170,027; renewed July 10, 1943.

CLASS 32

Spring beds, mattresses, cots and metal bedsteads. Southern Spring Bed Company. 170,559; renewed July 17, 1943.

CLASS 35

Belts and radiator hose, Fan. Dayton Rubber Manufacturing Company. 400,451; Mar. 9; Serial No. 456,235; published Dec. 29, 1942.
Belts for machinery, Driving. Dayton Rubber Manufacturing Company. 400,450; Mar. 9; Serial No. 456,234; published Dec. 29, 1942.
Fan belts. Dayton Rubber Manufacturing Co. 167,891; renewed May 8, 1943.
Packing. C. Pool. 400,437; Mar. 9; Serial No. 455,848; published Dec. 29, 1942.
Tire casings, Pneumatic. B. F. Goodrich Company. 400,473; Mar. 9.

CLASS 36

Strings for violins and similar musical instruments. Simson & Frey, Inc. 170,458; renewed July 17, 1943.

CLASS 37

Paper, Writing. Hawthorne Paper Company. 170,586; renewed July 17, 1943.

CLASS 38

Cards, Greeting. Norcross. 400,482; Mar. 9.
Periodical. J. E. Dearden. 400,480; Mar. 9.
Publication. Augsburg Publishing House. 400,471; Mar. 9.
Publication. Oak Park Chamber of Commerce. 400,489; Mar. 9.
Publication, Magazine. Fawcett Publications, Inc. 400,488; Mar. 9.
Trade papers and bulletins. National Retail Dry Goods Association. 169,690; renewed June 26, 1943.

CLASS 39

Aprons, and uniforms for nurses, maids, and waitresses, Women's and misses'. Hoover Manufacturing and Sales Company. 400,474; Mar. 9.
Boots and shoes, Leather. Geo. E. Keith Company. 170,219; renewed July 10, 1943.
Clothing. Bernice Blouse Co. 400,481; Mar. 9.
Clothing. Drybak Corporation. 400,396; Mar. 9; Serial No. 446,317; published Dec. 22, 1942.
Coats, suits, jackets, etc., Ladies' and misses'. Morris W. Haft & Brothers. 400,460; Mar. 9; Serial No. 456,366; published Dec. 22, 1942.
Coats, suits, jackets, etc., Ladies' and misses'. Morris W. Haft & Brothers. 400,466; Mar. 9; Serial No. 456,557; published Dec. 29, 1942.
Coats, suits, jackets, etc., Misses' and junior misses'. Mines & Flaster Coat Corp. 400,495; Mar. 9.
Coats, vests, trousers, etc., Men's. Goodman & Suss Clothes Corporation. 400,392; Mar. 9; Serial No. 430,446; published June 30, 1942.
Coats, Women's and misses'. Levenson Company. 400,421; Mar. 9; Serial No. 455,077; published Dec. 29, 1942.
Corsets. Naturaline Corset Co. 168,202; renewed May 15, 1943.
Dresses and suits for ladies, girls, and children. A. Goldstein. 400,436; Mar. 9; Serial No. 455,844; published Dec. 29, 1942.
Dresses, blouses, skirts, etc. Joseph Guttman & Bros. 400,409; Mar. 9; Serial No. 452,349; published June 16, 1942.
Dresses, coats and suits, Ladies'. L. & D. Beilinson, Inc. 400,487; Mar. 9.
Dresses for women, misses, and girls. Reliance Manufacturing Co. 400,442; Mar. 9; Serial No. 456,107; published Dec. 22, 1942.
Dresses, Ladies', misses', and children's. J. Wanamaker. 163,640; renewed Jan. 23, 1943.
Dresses, Maternity. S. Peck. 400,435; Mar. 9; Serial No. 455,762; published Dec. 22, 1942.
Dresses, Women's and misses'. Top Notch Dress Company. 400,479; Mar. 9.

Hats, caps, and bonnets, Women's, misses', girls', etc. Carson Pirie Scott & Co. 166,722; renewed Apr. 10, 1943.
Hats, Men's straw and felt. Paragon Hat Company. 166,658; renewed Apr. 10, 1943.
Hosiery. Burgio Bros., Inc. 400,486; Mar. 9.
Hosiery. C. Crawford Hollidge, Ltd. 400,391; Mar. 9; Serial No. 424,940; published Sept. 9, 1941.
Hosiery, Women's. Atlas Underwear Company. 400,462; Mar. 9; Serial No. 456,444; published Dec. 29, 1942.
Jackets and shirts, Men's sports. Hollywood Highland Sportswear Company. 400,415; Mar. 9; Serial No. 453,671; published Dec. 29, 1942.
Jackets, Linemen's rubber. W. H. Salisbury & Co. 400,497; Mar. 9.
Jackets, Men's water repellent. Piedmont Shirt Company. 400,422; Mar. 9; Serial No. 455,085; published Dec. 22, 1942.
Pajamas, nightshirts and nightgowns, Men's and ladies'. Kaylon Incorporated. 400,463; Mar. 9; Serial No. 456,492; published Dec. 29, 1942.
Suits, topcoats, gabardine raincoats, etc., Men's. Allied Stores Corporation. 400,456; Mar. 9; Serial No. 456,300; published Dec. 29, 1942.
Sweaters, Women's and girls'. Renart Sportswear Corp. 400,444; Mar. 9; Serial No. 456,131; published Dec. 29, 1942.
Sweaters, Women's and girls'. Renart Sportswear Corp. 400,493; Mar. 9.
Underwear, Children's. Carson Pirie Scott & Co. 166,721; renewed Apr. 10, 1943.
Underwear, Ladies'. Collegiate Manufacturing Co. 400,465; Mar. 9; Serial No. 456,553; published Dec. 29, 1942.

CLASS 40

Breast forms. H. A. Austin Company. 400,452; Mar. 9; Serial No. 456,257; published Dec. 22, 1942.
Pins, hairpins, safety pins, etc., Toilet. D. F. Tayler and Company Limited. 166,238; renewed Mar. 27, 1943.
Shields, Dress. Empire Shield Co. 169,890; renewed July 3, 1943.

CLASS 42

Cotton and rayon piece goods. Wm. Anderson Textile Mfg. Co. Ltd. 400,454; Mar. 9; Serial No. 456,281; published Dec. 22, 1942.
Rugs. Marshall Field & Company. 400,424; Mar. 9; Serial No. 455,332; published Dec. 22, 1942.
Woolen and worsted piece goods. Amereng Fabrics, Inc. 400,457; Mar. 9; Serial No. 456,301; published Dec. 22, 1942.

CLASS 43

Yarns for knitting, crocheting, and art needlework. Bernhard Ulmann Co. Inc. 170,170–1; renewed July 10, 1943.

CLASS 44

Cutlery of base metal. Premier Cutlery, Inc. 168,713; renewed May 29, 1943.
Impression compound. Novocol Chemical Mfg. Co. 169,511; renewed June 19, 1943.
Instruments used to provide illumination and examine the interior of cavities in medical and surgical practise. Cameron Surgical Specialty Company. 400,496; Mar. 9.
Nipples, pacifiers, nursing bottle tops, etc. N. P. Steckler. 400,394; Mar. 9; Serial No. 431,716; published Dec. 29, 1942.

CLASS 45

Beverage and concentrates and extracts for preparing the same. Tru-Ade, Inc. 400,434; Mar. 9; Serial No. 455,696; published Dec. 29, 1942.
Beverages. Canada Dry Ginger Ale, Incorporated. 400,467; Mar. 9; Serial No. 456,580; published Dec. 29, 1942.
Beverages and sirups and extracts therefor, Maltless. Nugrape Company of America. 164,168; renewed Feb. 13, 1943.
Beverages, quinine water, club soda, and mineral water. R. C. Williams & Company. 400,413; Mar. 9; Serial No. 453,652; published Dec. 29, 1942.
Canned citrus juices for beverage purposes. E. A. Sligle Corporation. 400,423; Mar. 9; Serial No. 455,090; published Dec. 22, 1942.
Soft drinks. Society Club Beverage Corporation. 170,051; renewed July 10, 1943.

CLASS 46

Butter. Sumner Co. 168,668; renewed May 29, 1943.
Candy. U. R. S. Candy Stores, Inc. 170,840; renewed July 24, 1943.
Candy. U. R. S. Candy Stores, Inc. 169,135; renewed June 12, 1943.
Candy. United Retail Candy Stores, Inc. 169,992; renewed July 10, 1943.
Canned fish. Riviera Packing Corporation. 400,470; Mar. 9; Serial No. 456,661; published Dec. 29, 1942.
Canned fruits, canned vegetables, olives, etc. California Growers Association, Inc. 170,910; renewed July 24, 1943.
Canned fruits, fruits in jars, and marshmallow toppings, etc. H. E. Shaw Company. 400,490; Mar. 9.
Canned salmon. A. A. Anderson. 170,515; renewed July 17, 1943.
Cheese. W. Faehndrich. 170,665; renewed July 17, 1943.
Cheese and tomato paste. Tolibia Cheese Corporation. 400,438; Mar. 9; Serial No. 455,961; published Dec. 29, 1942.
Chicks, Baby. S. E. Alger, Jr. 400,430; Mar. 9; Serial No. 455,618; published Dec. 29, 1942.
Feeds, live stock feeds, and dog food, Poultry. Superior Feed Mills. 400,428; Mar. 9; Serial No. 455,488; published Dec. 29, 1942.
Flour, corn meal and graham flour, Wheat. Boonville Mills Company. 170,845; renewed July 24, 1943.
Flour, Wheat. Ada Milling Company. 400,397; Mar. 9; Serial No. 447,263; published Dec. 29, 1942.
Fruit and canned citrus fruit juices for food purposes, Fresh citrus. A. C. Jefferson. 400,483; Mar. 9.
Fruits and fresh vegetables, Fresh citrus. R. Weir. 400,427; Mar. 9; Serial No. 455,418; published Dec. 29, 1942.
Ice cream fruits, ice cream fruit specialties, ice cream nut specialties, etc. Benjamin Holland Manufacturing Company. 400,484; Mar. 9.
Milk food products. J. F. Moore. 400,416; Mar. 9; Serial No. 453,808; published Dec. 29, 1942.
Oleomargarine. H. L. Barker, Incorporated. 400,412; Mar. 9; Serial No. 452,761; published Dec. 29, 1942.
Olive oil. Mailliard & Schmiedell. 170,872; renewed July 24, 1943.
Olive oil. G. Sensat, Hijos. 158,534; renewed Sept. 5, 1942.
Peanut butter and salted peanuts. G. Q. Townsend. 166,903; renewed Apr. 17, 1943.
Pickle relish. W. H. Gardner. 400,477; Mar. 9.
Salt, Myles Salt Co., Ltd. 400,475; Mar. 9.
Spaghetti sauce, spaghetti, macaroni, etc. Kentucky Macaroni Company. 400,403; Mar. 9; Serial No. 452,063; published Dec. 29, 1942.
Sugar, Refined. Central Santa Isabel. 400,472; Mar. 9.
Syrup, Chocolate flavored. Wilbur-Suchard Chocolate Company. 400,419; Mar. 9; Serial No. 453,997; published Dec. 29, 1942.
Tablets for making soup, Soluble. Mineralized Foods, Inc. 400,478; Mar. 9.
Tea, fresh cream, sugar. Fan and Bill's, Inc. 400,395; Mar. 9; Serial No. 436,602; published Dec. 29, 1942.
Yeast food. Ward Baking Company. 170,552; renewed July 17, 1943.

CLASS 48

Beer. F. & M. Schaefer Brewing Co. 400,431–2; Mar. 9; Serial Nos. 455,632–3; published Dec. 22, 1942.
Malt extract. Falstaff Corporation. 169,803; renewed July 3, 1943.

CLASS 50

Bungs. United States Bung Mfg. Co. 170,928; renewed July 24, 1943.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 9TH DAY OF MARCH, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Atlas Powder Company. (See Large, S. B., and Rolland, assignors.)

Bourne, Roland B., West Hartford, assignor to The Maxim Silencer Company, Hartford, Conn. Sound attenuating device. Re. 22,283; Mar. 9.

Du Pont, E. I., de Nemours & Company. (See Rossander, S. S., Kvalnes, and Sparks, assignors.)

Du Pont, E. I., de Nemours & Company. (See Sparks, C. E., and Libby, Jr., assignors.)

Griffith, Carroll L., and L. A. Hall, assignors to The Griffith Laboratories, Inc., Chicago, Ill. Sterilization process. Re. 22,284; Mar. 9.

Griffith Laboratories, Inc., The. (See Griffith, C. L., and Hall, assignors.)

Hall, Lloyd A. (See Griffith, C. L., and Hall.)

Kvalnes, Donovan E. (See Rossander, S. S., Kvalnes, and Sparks.)

Large, Sylvester B., Tamaqua, and G. F. Rolland, McKeansburg, Pa., assignors to Atlas Powder Company, Wilmington, Del. Detonator. Re. 22,285; Mar. 9.

Libby, James W., Jr. (See Sparks, C. E., and Libby, Jr.)

Maxim Silencer Company, The. (See Bourne, Roland B., assignor.)

Rolland, Guy F. (See Large, S. B., and Rolland.)

Rossander, Swanie S., Wilmington, Del., D. E. Kvalnes, Penns Grove, N. J., and C. E. Sparks, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Azo dyes. Re. 22,286; Mar. 9.

Sparks, Chiles E. (See Rossander, S. S., Kvalnes, and Sparks.)

Sparks, Chiles E., Wilmington, and J. W. Libby, Jr., Claymont, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Water-soluble azo dyes from amino-aryloxy-acyl-diamines. Re. 22,287; Mar. 9.

LIST OF PLANT PATENTEES

Armstrong Nurseries, Inc. (See Crane, Morley B., assignor.)

Crane, Morley B., Merton Park, London, England, assignor to Armstrong Nurseries, Inc., Ontario, Calif. Blackberry plant. 571; Mar. 9.

Dillon, Glen O., Corona, Calif., Freestone peach. 572; Mar. 9.

LIST OF DESIGN PATENTEES

American Optical Company. (See Severy, Lawrence A., assignor.)

Aronoff, Samuel, Dayton, Ohio. Face plate for a leveling instrument. 135,194; Mar. 9.

Asteroff, J. Leah, New York, N. Y. Dress. 135,229; Mar. 9.

Bal, William, Newark, and J. T. Simpson, Fair Haven, N. J. Bed urinal. 135,195; Mar. 9.

Brewster-Squires Company. (See Patche, Clinton J., assignor.)

Brodton, Lynn, Collingswood, assignor to Flashlight Company of America, Jersey City, N. J. Flashlight or similar article. 135,225; Mar. 9.

Brown, Thomas J., West Medford, assignor to David Thomas, Inc., Boston, Mass. Handkerchief or similar article. 135,196; Mar. 9.

Buckingham, John D., assignor to Lucien Lelong, Inc., Chicago, Ill. Container for cologne bottle or similar article. 135,220; Mar. 9.

Cadet Smokestands Company. (See Fletcher, Maurice J., assignor.)

Cashin, Bonnie, New York, N. Y. Dress. 135,226; Mar. 9.

Cashin, Bonnie, New York, N. Y. Dress. 135,230; Mar. 9.

Cashin, Bonnie, New York, N. Y. Dress. 135,231; Mar. 9.

Clark, James G., Newark, N. J. Fluorescent electric light fixture. 135,217; Mar. 9.

Clark, William L. M., assignor to W. L. M. Clark, Inc., St. Louis, Mo. Carrying bag. 135,218; Mar. 9.

Clark, W. L. M., Inc. (See Clark, William L. M., assignor.)

Collopy, Carl J. (See Collopy, Ernest C.)

Collopy, Ernest C. and C. J., New Bedford, Mass. Figurine or similar article. 135,227; Mar. 9.

Dunville, John G. (See Wolf, R. J., and Dunville.)

Elder, Livingstone H., New York, N. Y. Lamp. 135,219; Mar. 9.

Everitt, David C., Milwaukee, Wis. Handbag. 135,197; Mar. 9.

Flashlight Company of America. (See Brodton, Lynn, assignor.)

Fletcher, Maurice J., assignor to Cadet Smokestands Company, Des Moines, Iowa. Smoking stand. 135,198; Mar. 9.

Gels, Katharine R., Anne Arundel County, Md. Toy animal. 135,200; Mar. 9.

Goldenberg, Bernhard J., Cedarhurst, N. Y. Hat. 135,232; Mar. 9.

Goldfrank, John, New York, N. Y. Embroidered trimming. 135,182; Mar. 9.

Goldfrank, John, New York, N. Y. Embroidered trimming. 135,183; Mar. 9.

Grady, Martin J., Decatur, Ill. Illuminable make-up cabinet. 135,201; Mar. 9.

Grant, Donald C., Los Angeles, Calif. Sweater drier. 135,199; Mar. 9.

Hansen, Bertha J., Rutherford, N. J. Brooch or similar article. 135,203; Mar. 9.

Hawxhurst, Lee C., New York, N. Y. Dress. 135,184; Mar. 9.

Hellberg, Carl W., Chicago, Ill. Service plaque. 135,221; Mar. 9.

Hordes, Irving, Yonkers, N. Y. Lapel picture frame or similar article. 135,204; Mar. 9.

Lucien Lelong, Inc. (See Buckingham, John D., assignor.)

Majewski, Joseph M., Jr. (See Payne, C. M., and Majewski, Jr.)

McCowan, David A., Toronto, Ontario, Canada. Display stand. 135,205; Mar. 9.

Miller, Arthur P., New Kensington, Pa. Cutlery holder or similar article. 135,185; Mar. 9.

Miller, Arthur P., New Kensington, Pa. Cutlery holder or similar article. 135,186; Mar. 9.

Moye, Barbara, New York, N. Y. Dress. 135,233; Mar. 9.

Mynors, Eirane, Washington, D. C., assignor to Stelzer Brothers, Inc. Lady's belt or similar article. 135,206; Mar. 9.

Oppenheim, Ruth C., New York, N. Y. Table scarf or similar article. 135,187; Mar. 9.

Parisi, Anthony, Brooklyn, N. Y. Finger ring. 135,222; Mar. 9.

Patche, Clinton J., Maplewood, N. J., assignor to Brewster-Squires Company, New York, N. Y. Power unit cabinet for etching tool. 135,216; Mar. 9.

Patche, Clinton J., Maplewood, N. J., assignor to Brewster-Squires Company, New York, N. Y. Power unit cabinet for etching tool. 135,215; Mar. 9.

Payne, Clifford M., and J. M. Majewski, Jr., assignors to F. L. Talge, Kansas City, Mo., doing business as Rival Manufacturing Company. Fruit juice extractor. 135,207; Mar. 9.

Philippe, Alfred, Cranston, R. I. Brooch or similar article. 135,188; Mar. 9.

Philippe, Alfred, Cranston, R. I. Brooch or similar article. 135,189; Mar. 9.

Philippe, Alfred, Cranston, R. I. Brooch or similar article. 135,190; Mar. 9.

Philippe, Alfred, Cranston, R. I. Brooch or similar article. 135,191; Mar. 9.

Precision Scientific Co. (See Van Guilder, Walter, assignor.)

Price, Charles S., Hollis, N. Y. Christmas wreath and the like. 135,213; Mar. 9.

Rival Manufacturing Company. (See Payne, C. M., and Majewsky, Jr., assignors.)

Rowland, Robert W., Newark, N. J. Casement for portholes or the like. 135,208; Mar. 9.
Sears Roebuck and Co. (See Wolf, R. J., and Dunville, assignors.)
Severy, Lawrence A., assignor to American Optical Company, Southbridge, Mass. Goggle. 135,192; Mar. 9.
Shirlin, Abraham, Los Angeles, Calif. Plaque. 135,209; Mar. 9.
Simmons, Joseph, Cincinnati, Ohio. Ring. 135,223; Mar. 9.
Simpson, John T. (See Ball, William.)
Slager, Martin V., Grand Rapids, Mich. Toilet seat hinge. 135,228; Mar. 9.
Sokolis, Ernest P., Springfield, Ill. Weeder head. 135,210; Mar. 9.
Stelzer Brothers, Inc. (See Mynors, Elrane, assignor.)
Sutcliffe, Harry L., New York, N. Y. Shoe. 135,193; Mar. 9.
Talge, Foster L. (See Payne, C. M., and Majewski, Jr., assignors.)
Thomas, David, Inc. (See Brown, Thomas J., assignor.)
Van Guilder, Walter, River Forest, assignor to Precision Scientific Co., Chicago, Ill. Water still. 135,202; Mar. 9.
Weber, Max, Chicago, Ill. Air circulator. 135,211; Mar. 9.
Weiss, Joseph, New York, N. Y. Stuffed doll or similar article. 135,212; Mar. 9.
Wiener, Jack, New York, N. Y. Embroidered lace. 135,214; Mar. 9.
Wolf, Richard J., and J. G. Dunville, assignors to Sears, Roebuck and Co., Chicago, Ill. Water heater. 135,224; Mar. 9.
Younghusband, James L., Chicago, Ill. Combined bottle, closure cap, and applicator. 135,236; Mar. 9.
Zahn, Samuel, New York, N. Y. Dress. 135,234; Mar. 9.
Zahn, Samuel, New York, N. Y. Jacket. 135,235; Mar. 9.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 9TH DAY OF MARCH, 1943

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A.-G. für Optisch-mechanische Erfindungen. (See Hauser, Hans, assignor.)
Abramowitz, William L., Lakewood, and R. M. Beach, Newark, assignors to National Oil Products Company, Harrison, N. J. Sulphurization. 2,313,611; Mar. 9.
Acme Steel Company. (See Wilson, Allen B., assignor.)
Adams, Benjamin F., assignor to Armstrong Cork Company, Lancaster, Pa. Adhesive. 2,313,114; Mar. 9.
Adams Company, The. (See Adams, Philip, assignor.)
Adams, Philip, assignor to The Adams Company, Dubuque, Iowa. Fireplace screen. 2,313,496; Mar. 9.
Adrian, Harry J., Stevens Point, assignor to Consolidated Water Power and Paper Company, Wisconsin Rapids, Wis. Coating paper. 2,313,497; Mar. 9.
Aero Supply Mfg. Co. Inc. (See Downey, George T., assignor.)
Aircraft Tools Inc. (See Perlman, Glenn W., assignor.)
Alden, Milton, Brockton, Mass. Electrical socket. 2,313,212; Mar. 9.
Aldrich, Wilfred O., Mount Lebanon, Pa., assignor to The American Steel and Wire Company of New Jersey. Portable mat. 2,313,211; Mar. 9.
Allied Chemical & Dye Corporation. (See Greenburg, Richard B., assignor.)
Alien Property Custodian. (See Bailly, André.)
Alien Property Custodian. (See Barde, Emilien.)
Alien Property Custodian. (See Bary, Paul.)
Alien Property Custodian. (See Bednář, Cénék.)
Alien Property Custodian. (See Bethenod, J., and Rocard.)
Alien Property Custodian. (See Bierlee, Frederik F.)
Alien Property Custodian. (See Cantacuzene, Georges S.)
Alien Property Custodian. (See Décallon, Maurice.)
Alien Property Custodian. (See Delchef, Georges.)
Alien Property Custodian. (See Feldmann, Artur.)
Alien Property Custodian. (See Fiedler, S. O. A., and Austerweil.)
Alien Property Custodian. (See Fleischer, S. S. C., and Hansen.)
Alien Property Custodian. (See Fudem, Adolf.)
Alien Property Custodian. (See Garric, Jean.)
Alien Property Custodian. (See Gratzmüller, J. L., and Ignace.)
Alien Property Custodian. (See Guinot, Henri M.)
Alien Property Custodian. (See Haustrup, Niels J.)
Alien Property Custodian. (See Hérail, J., and Gauthier.)
Alien Property Custodian. (See Heshe, Kristian.)
Alien Property Custodian. (See Heyning, Geldolph A.)
Alien Property Custodian. (See Hornain, François.)
Alien Property Custodian. (See Jacobsen, Peter E. V.)
Alien Property Custodian. (See Johanns, Marthinus J. C.)
Alien Property Custodian. (See Johansen, Rolf H.)
Alien Property Custodian. (See Klein, Poul H.)
Alien Property Custodian. (See Korytko, Charles E. S.)
Alien Property Custodian. (See Lamesch, Armand.)
Alien Property Custodian. (See Latrobe, Pierre M. L.)
Alien Property Custodian. (See Lauffer, Emile.)
Alien Property Custodian. (See Lemoigne, Pierre M.)
Alien Property Custodian. (See Lobstein, Jean.)
Alien Property Custodian. (See Maisant, Bernard.)
Alien Property Custodian. (See Marais, René.)
Alien Property Custodian. (See Mathieu, Frédéric.)
Alien Property Custodian. (See Mols, Paul E. M. J.)
Alien Property Custodian. (See Morelle, Jules.)
Alien Property Custodian. (See Munthesen, Niels.)
Alien Property Custodian. (See Nijland, Hendrik A. H.)
Alien Property Custodian. (See Pelcé, Henri.)
Alien Property Custodian. (See Persoons, Jules and Alphonse.)
Alien Property Custodian. (See Potez, Henry C. A.)
Alien Property Custodian. (See Puc, Vojtéch.)
Alien Property Custodian. (See Ratié, Pierre P. and René J.)
Alien Property Custodian. (See Saheurs, Albert G.)
Alien Property Custodian. (See Sarazin, Raoul R. R.)
Alien Property Custodian. (See Sobek, André.)
Alien Property Custodian. (See Steensen, Niels R.)
Alien Property Custodian. (See Steklik, Jan, assignor.)
Alien Property Custodian. (See Szatrow, Mikolaj.)
Alien Property Custodian. (See Tunberg, Ragnar.)
Alien Property Custodian. (See Valenssi, Georges.)
Alien Property Custodian. (See van Dranen, Willem N.)
Alien Property Custodian. (See Wahle, Otto.)
Alien Property Custodian. (See Weber, Guillaume.)
Allen, Alexander C., Monroe, assignor of one-half to N. Brachman, Detroit, Mich. Apparatus for splitting, spreading, and flattening pipe. 2,313,702; Mar. 9.
Allen, Charles F. H., and P. W. Vittum, assignors to Eastman Kodak Company, Rochester, N. Y. Cyanoacetyl coupler. 2,313,498; Mar. 9.
Allen, George E., L. A. Metz and F. C. Sharpe, Buffalo, N. Y. Adjustable support. 2,313,115; Mar. 9.
Allen, Herbert, assignor to Cameron Iron Works, Houston, Tex. Casing head. 2,313,308; Mar. 9.
Allied Chemical & Dye Corporation. (See Greenburg, Richard B., assignor.)
Allied Chemical & Dye Corporation. (See Miller, Stuart P., assignor.)
Alling, E. Roy, Kenmore, and C. F. Ulrich; said Ulrich assignor to Rice & Adams Corporation, Buffalo, N. Y. Drying of hollow containers. 2,313,040; Mar. 9.
Allyne, Edmund E., assignor to Allyne Laboratories, Inc., Cleveland, Ohio. Evaporator unit. 2,313,499; Mar. 9.
Allyne Laboratories, Inc. (See Allyne, E. E., assignor.)
Alsop, Samuel, Millidale, Conn. Filter. 2,313,612; Mar. 9.
Altorfer Bros. Company. (See Castricone, John A., assignor.)
American Can Company. (See Freeman, Richard D., assignor.)
American Cigarette and Cigar Company. (See Garratt, Alan C., assignor.)
American Diagrid Corporation. (See Szego, Steven D., assignor.)
American Display Company, The. (See Dunkelberger, Milton S., assignor.)
American Elevator & Machine Company. (See White, Kenneth M., assignor.)
American Fork & Hoe Company, The. (See Lutman, Frank B., assignor.)
American Fork & Hoe Company, The. (See Whittenberger, Charles D., assignor.)
American Maize-Products Company. (See Schopmeyer, Herman H., assignor.)
American Maize-Products Company. (See Schopmeyer, H. H., and Sharps, assignors.)
American Rayon Company. (See Furness, William H., assignor.)
American Steel and Wire Company of New Jersey, The. (See Aldrich, Wilfred O., assignor.)
American Tool Works Company, The. (See Hoelscher, William G., assignor.)
American Voith Contact Company. (See Eilken, Johannes, assignor.)
Amesbury Seat Manufacturing Co., The. (See Hare, Terence G., assignor.)
Ampro Corporation. (See Morgan, T. J., and Dearborn, assignors.)
Anderson, Alvin P. (See Sorem, S. S., and Anderson.)
Anderson, Ralph F., Rockford, Ill. Stick dispenser. 2,313,500; Mar. 9.
Anderson, Russell M., Kansas City, Mo. Shoe rearching and straightening device. 2,313,417; Mar. 9.
Anker-Holth Manufacturing Company. (See Krenke, Otto, assignor.)
Armour and Company. (See Dyrek, John E., assignor.)
Armour and Company. (See Ralston, A. W., and Segebrecht, assignors.)
Armstrong Cork Company. (See Adams, Benjamin F., assignor.)
Armstrong Cork Company. (See Billmeyer, Bruce R., assignor.)
Armstrong Cork Company. (See Carman, Frank H., assignor.)
Arnold, Charles B., Chicago, Ill., assignor to The Greif Bros. Cooperage Corporation, Cleveland, Ohio. Plywood barrel. 2,313,309; Mar. 9.
Arnold, James C., assignor to Lane-Wells Company, Los Angeles, Calif. Well-bore radiation logging apparatus. 2,313,310; Mar. 9.
Arter, Charles K., Jr., Shanker Heights, and S. Peskind, Cleveland, Ohio. Toilet seat cover. 2,313,311; Mar. 9.
Atherley, Harry C., San Francisco, Calif. Measuring device. 2,313,213; Mar. 9.
Auburn Rubber Corporation. (See Ullman, Martin, assignor.)
Austerweil, Géza V. (See Fiedler, S. O. A., and Austerweil.)
Automatic Shifters, Inc. (See Hey, Henry W., assignor.)
Ayers, John A., et al., executors. (See Brooks, Lew W.)
Ayr-Mor Laundry Machinery Co. (See Jorgenson, John P., assignor.)
Baash-Ross Tool Company. (See Johnson, Glenn D., assignor.)

Babcock, Donald E., assignor to Pittsburgh Steel Company, Pittsburgh, Pa. Making tubular axles. 2,313,116; Mar. 9.

Bachman, Gustave B., La Fayette, Ind., and H. A. Tanner, assignors to Eastman Kodak Company, Rochester, N. Y. Preparing methylene dialkyl malonates. 2,313,501; Mar. 9.

Baier, Willard E., Ontario, Calif. Humidifying means. 2,313,041; Mar. 9.

Bailly, André A., Chatillon sous Bagneux, France; vested in the Alien Property Custodian. Drive for the spindles of machine tools. 2,313,287; Mar. 9.

Baker, Benjamin P. (See Ludwig, L. R., and Baker.)

Bakewell, Harding F., San Marino, Calif. Toolholder. 2,313,312; Mar. 9.

Baldwin, Morris J., Erie, Pa., assignor to General Electric Company. Current collecting device. 2,313,502; Mar. 9.

Baldwin, Morris J., Lawrence Park, Pa., assignor to General Electric Company. Protective power system. 2,313,503; Mar. 9.

Ballard & Ballard Company. (See Willoughby, Lively B., assignor.)

Balls, Arnold K., Washington, D. C., and W. S. Hale, Alexandria, Va., assignors to Claude R. Wickard, as Secretary of Agriculture of the United States of America, and his successors in office. Sulphydryl compound obtained from flour. 2,313,504; Mar. 9.

Balsiger, Harold E. (See Price, R. E., Balsiger, and Hollengreen.)

Balsiger, Harold E. (See Rocks, H. N., Hollengreen, and Balsiger.)

Barber-Colman Company. (See Lilja, Edgar D., assignor.)

Barde, Emilien, Paris, France; vested in the Alien Property Custodian. Process which enables the reproduction of images by means of diazoic compounds to be obtained. 2,313,288; Mar. 9.

Bary, Paul, Paris, France; vested in the Alien Property Custodian. Preparation and use of anti-cryptogamic colloidal solutions, bactericides, and insecticides. 2,313,190; Mar. 9.

Bascom, Henry, St. Louis, Mo. Amusement device. 2,313,313; Mar. 9.

Batten, Percy H., et al., trustees. (See Ljungström, Fredrik, assignor.)

Bay, Thomas J., United States Navy. Condenser tube cleaner. 2,313,042; Mar. 9.

Beach, Ralph M. (See Abramowitz, W. L., and Beach.)

Becker, Arman E., Westfield, N. J., assignor to Standard Oil Development Company. Chemical product and producing same. 2,313,117; Mar. 9.

Bednář, Čeněk, Neu-Rausnitz, Moravia; vested in the Alien Property Custodian. Production of artificial skins for sausages, in paraticular, salami. 2,313,289; Mar. 9.

Bell Aircraft Corporation. (See Domonokos, Julius J., assignor.)

Bell Telephone Laboratories, Incorporated. (See Hallam, Cecil A., assignor.)

Bell Telephone Laboratories, Incorporated. (See Walther, Henry, assignor.)

Bendix Aviation Corporation. (See Frank, Frederick C., assignor.)

Bendix Aviation Corporation. (See Goepfrich, Rudolph A., assignor.)

Bendix Aviation Corporation. (See Jandasek, Joseph, assignor.)

Bendix Aviation Corporation. (See Johnson, Carl V., assignor.)

Bendix Aviation Corporation. (See Lum, George P., assignor.)

Bendix Aviation Corporation. (See Martin, Thomas B., assignor.)

Bendix Aviation Corporation. (See Stuart, Alfred A., Jr., assignor.)

Benjamin, Harry S., Poughkeepsie, N. Y. Apparatus for controlling the condition of operation of vehicles or the like. 2,313,505; Mar. 9.

Benz, Leonhardt W., Mobile, Ala. Refrigerator compressor. 2,313,214; Mar. 9.

Berg, Leo F., Oak Park, Ill., assignor to Edison General Electric Appliance Company, Inc. Illuminating means. 2,313,506; Mar. 9.

Bergvall, Royal C., Forest Hills, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electrical protective distribution system. 2,313,118; Mar. 9.

Berry, Earl A. (See Nelms, G. C., Coggeshall, Berry, and Wilbur.)

Bethenod, Joseph, and Y. Rocard, Paris, France; vested in the Alien Property Custodian. Apparatus for transforming oscillations. 2,313,290; Mar. 9.

Bierlee, Frederick F., Depasar, Bali, Netherland India; vested in the Alien Property Custodian. Inflation apparatus. 2,313,215; Mar. 9.

Billings & Spencer Company, The. (See Kuehn, Raymond L., assignor.)

Billmeyer, Bruce R., assignor to Armstrong Cork Company, Lancaster, Pa. Metal window channel. 2,313,507; Mar. 9.

Binney and Smith Company. (See Neff, John W., assignor.)

Birnie, John U. (See MacDonald, James A., assignor.)

Blackburn, Wellington E., Gallup, N. Mex. Making arch supports. 2,313,314; Mar. 9.

Blair, Emile. (See Blais, Emilien.)

Blais, Emilien, commonly known as E. Blair, assignor to Western Cartridge Company, New Haven, Conn. Composite soldered heat exchanger. 2,313,315; Mar. 9.

Blanchard, Floyd M., assignor to Yuba Manufacturing Company, San Francisco, Calif. Pin lock. 2,313,216; Mar. 9.

Bliss, E. W., Company. (See Williamson, Larkin R., assignor.)

Blizard, John, Garden City, assignor to Foster Wheeler Corporation, New York, N. Y. Steam generator. 2,313,043; Mar. 9.

Block, Emil F., Milwaukee, Wis. Antislipping device. 2,313,316; Mar. 9.

Bludworth, Joseph E. (See Schneider, G., Bludworth, and Croft.)

Bohannan, Robert S., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 2,313,509; Mar. 9.

Boillat, Philippe, assignor to the firm Tavannes Machines Co. S. A., Tavannes, Switzerland. Lathe. 2,313,613; Mar. 9.

Bonnett, John. (See Smith, A. N., and Bonnett.)

Bonsall, Charles D., assignor to Standard Railway Devices Company, Chicago, Ill. Refrigerator car. 2,313,120; Mar. 9.

Booharin, Leo Y., San Francisco, Calif. Safety apparatus for submarines. 2,313,461; Mar. 9.

Boothman, Percy R., Keighley, England. Fire hose nozzle. 2,313,614; Mar. 9.

Borden Company, The. (See Salzberg, H. K., and Kinney, assignors.)

Borel, Edouard Y., Romont, Switzerland, assignor to Societe Anonyme des Manufactures des Glaces & Produits Chimiques de Saint-Gobain, Chauny & Cirey, Paris, France. Electric furnace for melting glass. 2,313,217; Mar. 9.

Bortz, Harry A., Pittsburgh, Pa. Refrigerated cabinet. 2,313,510; Mar. 9.

Bousquet, L'Roche G., Baldwin, and D. W. Young, Flushing, assignors to General Chemical Company, New York, N. Y. Titanium solution manufacture. 2,313,615; Mar. 9.

Bowersox, Joseph W., Glen Ellyn, Ill. Rivet. 2,313,616; Mar. 9.

Brace, Kemper P., South Bend, and H. C. Waterman, Elkhart, Ind. Inspection of surfaces. 2,313,218; Mar. 9.

Brachman, Nathan. (See Allen, Alexander C., assignor.)

Bradley, Richard C., Chicago, Ill. Registering liquid meter. 2,313,511; Mar. 9.

Brand, Samuel, Binghamton, assignor to International Business Machines Corporation, New York, N. Y. Line justifying device. 2,313,119; Mar. 9.

Brassert, Herman A., Rye, assignor to Minerals and Metals Corporation, New York, N. Y. Reduction of ores to metal. 2,313,044; Mar. 9.

Bray, Overton, Burley, assignor of one-half to O. M. Mitchell, Rupert, Idaho. Saw bench. 2,313,617; Mar. 9.

Brenkert, Karl, assignor to Brenkert Light Projection Company, Detroit, Mich. Intermittent movement assembly. 2,313,317; Mar. 9.

Brenkert Light Projection Company. (See Brenkert, Karl, assignor.)

Breth, Walter J., assignor to The General Tire & Rubber Company, Akron, Ohio. Method of and apparatus for building tires. 2,313,035; Mar. 9.

Brewer, John H., assignor to Hynson, Westcott & Dunning, Incorporated, Baltimore, Md. Sterile surgical package. 2,313,512; Mar. 9.

Briggs & Stratton Corporation. (See Jacobie, Edward N., assignor.)

Bridges, Walter, Chelsea, London, England. Winding apparatus. 2,313,618; Mar. 9.

Brooks Cleaver Company. (See Huber, Charles J., assignor.)

Brooks, E. N., et al, executors. (See Brooks, Lew W.)

Brooks Equipment and Mfg. Co. (See Brooks, Lew W., assignor.)

Brooks, Lew W., Knoxville, Tenn., deceased, E. N. Brooks, K. Martin, and J. A. Ayers, executors, assignors to Brooks Equipment and Mfg. Co., Knoxville, Tenn. Loading, hauling, and dumping apparatus. 2,313,514; Mar. 9.

Brooks, John R., Richmond, Va. Lubricator for engine cylinders. 2,313,462; Mar. 9.

Broomell, George L., Jr. (See Schock, J. F., Broomell, Jr.)

Brown, Edward A., Dodge City, Kans. Mixer. 2,313,045; Mar. 9.

Brown, George H., Haddonfield, N. J., assignor to Radio Corporation of America. Antenna. 2,313,513; Mar. 9.

Brown, Gustave O., and A. Vinogradoff, San Francisco, Calif. Fruit juice extractor. 2,313,318; Mar. 9.

Brown, Hector H., Baltimore County, Md. Protective device for oil lubricating systems. 2,313,121; Mar. 9.

Brown, Herbert E., assignor to Burroughs Adding Machine Company, Detroit, Mich. Special character and amount printing mechanism. 2,313,418; Mar. 9.

Brown, Verlin T. (See Slaughter, Samuel, assignor.)

Brown, William L., Lansdowne, Pa. Gas meter. 2,313,515; Mar. 9.

Brubaker, Jasper L., Oak Park, and F. J. Lengvenis, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Testing apparatus. 2,313,516; Mar. 9.

Brubaker, Wilson M., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Amplifier. 2,313,122; Mar. 9.

Bruce, Harry E., York, Pa. Chrome yellow. 2,313,619; Mar. 9.

Bruce, Malcolm, Plymouth, Mass. Radio antenna system. 2,313,046; Mar. 9.

Brunner, Otto, Jackson Heights, assignor to Henry Leonard & Thomas, Inc., Ozone Park, N. Y. Display stand for tobacco pipes. 2,313,620; Mar. 9.

Bruson, Herman A., assignor to Röhm & Haas Company, Philadelphia, Pa. Capillary-active composition. 2,313,621; Mar. 9.

Bryant, Cuno, Multnomah County, Oreg. Apparatus for the handling and developing of motion picture films. 2,313,319; Mar. 9.

Bryant Electric Company, The. (See Forstrom, Edward E., assignor.)

Budd, Edward G., Manufacturing Company. (See Horton, Reuben H., assignor.)

Budd, Edward G., Manufacturing Company. (See Watter, Michael, assignor.)

Bulling, Herman E., Brooklyn, N. Y. Fluid dispensing container. 2,313,219; Mar. 9.

Bungay, George W., New York, N. Y. Apparatus for black-leading electrotype molds. 2,313,622; Mar. 9.

Bungay, George W., New York, N. Y. Press for making electrotype molds. 2,313,623; Mar. 9.

Burke & James, Inc. (See Nicholas, Harold L., assignor.)

Burroughs Adding Machine Company. (See Brown, Herbert E., assignor.)

Burt, Guy H., Edgewood, assignor of one-half to H. M. Burt, Narragansett, R. I. Lamp socket. 2,313,036; Mar. 9.

Burt, Harry M. (See Burt, Guy H., assignor.)

Bush, Russell J., Wabash, Ind., assignor to The General Tire & Rubber Company, Akron, Ohio. Window channeling. 2,313,419; Mar. 9.

Bushby, David, assignor to The Vacuum Air Pressure Company Limited, Regina, Saskatchewan, Canada. Piston. 2,313,320; Mar. 9.

Busignies, Henri G., Forest Hills, N. Y., and A. G. Richardson, Boonton, assignors to Federal Telephone & Radio Corporation, Newark, N. J. Direction finding system. 2,313,047; Mar. 9.

Byrkit, Gordon D. (See Lincoln, B. H., Steiner, and Byrkit.)

Byrne, John F., assignor to Collins Radio Company, Cedar Rapids, Iowa. Broadcasting system. 2,313,048; Mar. 9.

Calumet and Hecla Consolidated Copper Company. (See Hill, Walter P., assignor.)

Cameron Iron Works. (See Allen, Herbert, assignor.)

Cameron, Stuart L., St. Paul, Minn., assignor to Mechanite Metal Corporation. Foundry mold insert and making castings. 2,313,517; Mar. 9.

Camp, Eugene V., Atlanta, Ga. Highway guard rail. 2,313,220; Mar. 9.

Campbell, Nelson S., Brookline, Mass. Reversing mechanism. 2,313,221; Mar. 9.

Cantacuzene, Georges S., Paris, France, vested in the Alien Property Custodian. Process and device for storing liquids sheltered from air. 2,313,191; Mar. 9.

Cape, Arthur T., Santa Cruz, Calif., assignor to Coast Metals, Inc., Canton, Ohio. Ferrous alloy. 2,313,420; Mar. 9.

Carbide and Carbon Chemicals Corporation. (See Scott, R. F., and Plewes, assignors.)

Carlson, Wendell L., and W. H. Conron, Haddonfield, N. J., assignors to Radio Corporation of America. Antenna. 2,313,321; Mar. 9.

Carman, Frank H., assignor to Armstrong Cork Company, Lancaster, Pa. Making continuous sheets or rolls of gasket material. 2,313,508; Mar. 9.

Carnegie-Illinois Steel Corporation. (See Dimon, Richard A., assignor.)

Carnegie-Illinois Steel Corporation. (See Stack, James R., assignor.)

Carpenter, Russell, Three Rivers, Quebec, Canada. Steam joint. 2,313,322; Mar. 9.

Castricone, John A., assignor to Altorfer Bros. Company, Peoria, Ill. Ironing machine control. 2,313,123; Mar. 9.

Cave, Henry, assignor to The Fuller Brush Company, Hartford, Conn. Apparatus for making brooms. 2,313,037; Mar. 9.

Cawein, Madison, Marion, Ind., assignor to Farnsworth Television and Radio Corporation. Color television system. 2,313,224; Mar. 9.

Celanese Corporation of America. (See Schneider, G., Bludworth, and Croft, assignors.)

Champion, William J., assignor to Ditto, Incorporated, Chicago, Ill. Highly resistant hectograph blanket. 2,313,124; Mar. 9.

Chapal Donner Corporation, The. (See Plass, Robert H., assignor.)

Chase-Shawmut Company, The. (See Taylor, Elmer H., assignor.)

Cheney, Harry A. (See de Simó, M., McMillan, and Cheney.)

Chicago Railway Equipment Company. (See Wasberg, Axel, assignor.)

Chicago Telephone Supply Company. (See Schellenberger, Newton C., assignor.)

Chipman Chemical Company. (See Seibert, F. J., and Roller, assignors.)

Cities Service Oil Company. (See Kaplan, William, assignor.)

Clayton, Alec C., Yate, Bristol, England. Drilling and boring machine. 2,313,624; Mar. 9.

Clayton, William J. and W. R. Hoover, Mishawaka, Ind., assignors to United States Rubber Company, New York, N. Y. Manufacture of sponge rubber. 2,313,463; Mar. 9.

Clayton, William J., Mishawaka, Ind., assignor to United States Rubber Company, New York, N. Y. Manufacture of sponge rubber. 2,313,464; Mar. 9.

Cleveland Pneumatic Tool Company, The. (See Van Sittert, P., and Lev, assignors.)

Clifton, Harry G., Miami, Fla. Automobile signal. 2,313,222; Mar. 9.

Clopton, Mortimer L. (See Phillips, R. A., and Clopton.)

Coast Metals, Inc. (See Cape, Arthur T., assignor.)

Cobi, Walter H., New York, N. Y. Collapsible mandrel or core for driving molds for concrete piles. 2,313,625; Mar. 9.

Coggeshall, Earl J. (See Nelms, G. C., Coggeshall, Berry, and Wilbur.)

Cohn & Rosenberger, Inc. (See Placco, Oscar F., assignor.)

Collins Radio Company. (See Byrne, John F., assignor.)

Colonial Radio Corporation. (See Forbes, Henry C., assignor.)

Columbia Broadcasting System, Inc. (See Goldmark, Peter C., assignor.)

Combustion Engineering Company. (See Marshall, Leonard J., assignor.)

Conron, William H. (See Carlson, W. L., and Conron.)

Consolidated Mining & Smelting Company, The. (See Hannay, W. H., and Walsh, assignors.)

Consolidated Water Power and Paper Company. (See Adrian, Harry J., assignor.)

Continental Gin Company. (See Morgan, George C., assignor.)

Cook, Charles B., Los Angeles, Calif. Hydraulic transmission. 2,313,049; Mar. 9.

Cooledge, Sherman M., Tacoma, Wash. Table-top desk. 2,313,050; Mar. 9.

Cooper, Benjamin, Jersey City, N. J. Switch actuation recording system. 2,313,626; Mar. 9.

Cooper, Benjamin, Jersey City, N. J. Treadle controlled toll checking system. 2,313,627; Mar. 9.

Coppick, Sydney. (See Jahn, E. C., and Coppick.)

Cornell Securities Corporation. (See Van Horn, Arthur H., assignor.)

Couch, Henry R. (See Nadeau, G. F., and Couch.)

Cowles, Irving, Detroit, Mich. Injector tube coupling means. 2,313,323; Mar. 9.

Croft, Cyril M. (See Schneider, G., Bludworth, and Croft.)

Cross, Anson K., Boothbay Harbor, Maine. Vision training drawing tablet. 2,313,518; Mar. 9.

Cuming, M. A., & Company. (See Dow, Frank F., assignor.)

Cutler, Frank W., Winslow, Wash., assignor to Food Machinery Corporation, San Jose, Calif. Fruit handling equipment. 2,313,051; Mar. 9.

Cuttler, David, Chicago, Ill. Wearing apparel. 2,313,519; Mar. 9.

Czapek, Emil, New York, N. Y. Machine for producing cellulose sheets and the like. 2,313,125; Mar. 9.

Czapek, Emil, New York, N. Y. Making cellulose sheets. 2,313,520; Mar. 9.

Dale, Oswald, Nutley, assignor to Irvington Varnish & Insulator Co., Irvington, N. J. Producing cable markers. 2,313,465; Mar. 9.

Dally, Roy, assignor to Webster Electric Company, Racine, Wis. Tone arm. 2,313,126; Mar. 9.

Dally, Roy, assignor to Webster Electric Company, Racine, Wis. Crystal pickup unit. 2,313,324; Mar. 9.

Dalton, Byron W., Chicago, Ill. Floating wall construction. 2,313,325; Mar. 9.

Dalton, Simon E., Jr., Atlantic City, N. J. Bathtub with contained shower curtain. 2,313,421; Mar. 9.

Dannerth, Frederic. (See Klinkenstein, G., Dannerth, and Frey.)

Daun, Carl L., Milwaukee, Wis. Dispenser for carbonated beverages. 2,313,226; Mar. 9.

Davenport, Bascomb E. (See Roberts, T. B., and Davenport.)

Davis, Ernest, assignor to The Prosperity Company, Inc., Syracuse, N. Y. Dry cleaning machine. 2,313,225; Mar. 9.

Davol Rubber Company. (See Hanna, Ezra L., assignor.)

Dean, Dion K., Rahway, N. J., assignor to Foster Wheeler Corporation, New York, N. Y. Condensing method. 2,313,052; Mar. 9.

Dearborn, Arthur S. (See Morgan, T. J., and Dearborn.)

De Bats, Jean H. L., East Orange, N. J., assignor, by mesne assignments, to Metal Carbides Corporation, Youngstown, Ohio. Roll for metal-rolling mills. 2,313,227; Mar. 9.

Décalion, Maurice, Paris, France; vested in the Alien Property Custodian. High efficiency reflector or searchlight. 2,313,192; Mar. 9.

Decker, John B. (See McArthur, H. A., and Decker.)

De Laval Separator Company, The. (See Flowers, Alan E., assignor.)

De Laval Separator Company, The. (See Hall, Selden H., assignor.)

Delchef, Georges, Brussels, Belgium; vested in the Alien Property Custodian. Automatic phonograph. 2,313,193; Mar. 9.

Denison, William C., Jr. (See Emerson, W. H., and Denison.)

Denison, William E., assignor to Ditto, Incorporated, Chicago, Ill. Moistening mechanism. 2,313,127; Mar. 9.

Densten, Ulysses G., Haddon Heights, N. J., assignor to Strong Manufacturing Company, Portland, Oreg. Fluid control valve. 2,313,128; Mar. 9.

De Simó, Martin, Piedmont, F. M. McMillan and H. A. Cheney, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Catalyst and preparation thereof. 2,313,053; Mar. 9.

De Simó, Martin, Piedmont, F. M. McMillan and H. A. Cheney, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Catalytic isomerization of saturated hydrocarbons. 2,313,054; Mar. 9.

De Villers, Edmund J., assignor to White Castle System, Inc., Columbus, Ohio. Paper cup-forming machine. 2,313,628; Mar. 9.

De Vlieg, Gerard A., Rockford, Ill. Grinding tool dresser. 2,313,055; Mar. 9.

Diamond Match Company, The. (See Nolan, John R., assignor.)

Diamond Match Company, The. (See Wright, Charles F., assignor.)

Dicke, Oscar H., Rochester, N. Y. Electric clock system. 2,313,466; Mar. 9.

Dickson Wire & Cable Corp. (See Piliero, James, assignor.)

Di Inglio, Frank, New Haven, Conn. Shirt or like garment. 2,313,521; Mar. 9.

Dimon, Richard A., Pittsburgh, Pa., assignor to Carnegie-Illinois Steel Corporation. Pickling metallic strip. 2,313,422; Mar. 9.

Dimnes, William, Avon Township, Oakland County, Mich. Wall anchor. 2,313,522; Mar. 9.

Dirienzo, Joseph M., Madison, Wis. Self-closing match book. 2,313,629; Mar. 9.

Distillation Products, Inc. (See Hickman, Kenneth C. D., assignor.)

Ditto, Incorporated. (See Champion, William J., assignor.)

Ditto, Incorporated. (See Denison, William E., assignor.)

Ditto, Incorporated. (See Neal, Morris P., assignor.)

Ditto, Incorporated. (See Tathwell, Joseph H., assignor.)

Dixon, Paul H. (See Ioannilli, J. R., and Dixon.)

Dockerty, Stuart M., Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation. Method and apparatus for producing glass fibers. 2,313,630; Mar. 9.

Dodd, Harry E., Newark, Ohio. Container for vacuum cleaners. 2,313,423; Mar. 9.

Dohan, William R., Wynnewood, Pa., assignor to Radio Corporation of America. Mounting piezoelectric crystals. 2,313,129; Mar. 9.

Domonkos, Julius J., Kenmore, assignor to Bell Aircraft Corporation, Buffalo, N. Y. Sheet material fastening tool. 2,313,228; Mar. 9.

Donovan, Thomas S., and W. V. Wadman, assignors to Eastman Kodak Company, Rochester, N. Y. Photographic material. 2,313,523; Mar. 9.

Dorton, John M., Bonner Springs, Kans. Floating motion cushion for vehicles, furniture, and the like. 2,313,130; Mar. 9.

Dow Chemical Company, The. (See Grether, Ernest F., assignor.)

Dow, Frank F., Jamaica, assignor to M. A. Cuming & Company, Inc., New York, N. Y. Hat machine. 2,313,038; Mar. 9.

Downey, George T., assignor to Aero Supply Mfg. Co. Inc., Corry, Pa. Balanced valve assembly. 2,313,631; Mar. 9.

Driesbach, Gilbert O., Robesonia, and R. C. Rahm, Wyomissing, Pa., assignors to S. Liebovitz & Sons, Inc., New York, N. Y. Traveling work conveyer. 2,313,524; Mar. 9.

Dryden Rubber Company. (See Kelly, J. H., Jr., and Stern, assignors.)

Dryden Rubber Company. (See Winkelmann, Henry A., assignor.)

Dunkelberger, Milton S., assignor to The American Display Company, Dayton, Ohio. Fishing bait or lure. 2,313,709; Mar. 9.

Du Pont, E. I., de Nemours & Company. (See Wyeth, Nathaniel C., assignor.)

Dyrek, John E., assignor to Armour and Company, Chicago, Ill. Method and apparatus for stuffing meats into casings. 2,313,229; Mar. 9.

Earle, Roland D., Cohasset, assignor to Union-Baystate Co., Inc., Cambridge, Mass. Adhesive composition and making the same. 2,313,039; Mar. 9.

Eastman Kodak Company. (See Allen, C. F. H., and Vittum, assignors.)

Eastman Kodak Company. (See Bachman, G. B., and Tanner, assignors.)

Eastman Kodak Company. (See Donovan, T. S., and Wadman, assignors.)

Eastman Kodak Company. (See Fallesen, G. E., and Leermakers, assignors.)

Eastman Kodak Company. (See Figg, L. J., Jr., and Shaulis, assignors.)

Eastman Kodak Company. (See Hall, V. C., and Streiffert, assignors.)

Eastman Kodak Company. (See Hall, Vincent C., assignor.)

Eastman Kodak Company. (See Hurlbut, John, assignor.)

Eastman Kodak Company. (See McDowell, W. H., and Kenyon, assignors.)

Eastman Kodak Company. (See Mihalyi, Joseph, assignor.)

Eastman Kodak Company. (See Nadeau, G. F., and Couch, assignors.)

Eastman Kodak Company. (See Payne, Charles F., assignor.)

Eastman Kodak Company. (See Salminen, I. F., Weissberger and Glass, assignors.)

Eastman Kodak Company. (See Smith, Roland L., assignor.)

Eastman Kodak Company. (See Wannamaker, Thomas E., assignor.)

Eastman Oil Well Survey Corporation, et al. (See Opocensky, Willard J., assignor.)

Edelman, Beril, Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Article forming apparatus. 2,313,525; Mar. 9.

Edison General Electric Appliance Company. (See Berg, Leo F., assignor.)

Edison General Electric Appliance Company. (See Rees, Gregory L., assignor.)

Edwards, Martin A., Scotia, N. Y., assignor to General Electric Company. Electric circuit. 2,313,526; Mar. 9.

Edwards, Martin A., Scotia, N. Y., assignor to General Electric Company. Vibrator inverter system. 2,313,527; Mar. 9.

Eggert, John, Leipzig, and H. F. Nissen, Dessau, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y. Production of color film having a silver sound track. 2,313,632; Mar. 9.

Eliken, Johannes, Heidenheim-on-the-Brenz, Germany, assignor to American Voith Contact Company, Inc. Resilient coupling. 2,313,467; Mar. 9.

Eisenhand, Edna T., et al., executors. (See Traylor, John A.)

Electric Auto-Lite Company. (See Liner, Joseph I., assignor.)

Elias, Michael A., 2nd. (See Elias, Percy I., assignor.)

Elias, Percy I., assignor of one-half to M. A. Elias, 2nd, Long Beach, N. Y. Lighting fixture. 2,313,131; Mar. 9.

Elliott, Morris A., Baltimore, Md. Speed and directional changer. 2,313,132; Mar. 9.

Emerson, Walter H., East Liverpool, and W. C. Denison, Jr., Columbus, Ohio. Feeding apparatus for plastic material. 2,313,056; Mar. 9.

Empire Metal Cap Co. (See Merolle, August L., assignor.)

Erickson, Aaron H., West Lancaster, assignor to Lancaster Iron Works, Inc., Lancaster, Pa. Holder for welding rods. 2,313,327; Mar. 9.

Erickson, Donald R., and P. J. Thoma, assignors to Michigan Research Laboratories, Inc., Kalamazoo, Mich. Printing ink. 2,313,328; Mar. 9.

Ernst, Daniel, assignor to Maag Zahnräder &-Maschinen Aktiengesellschaft, Zurich, Switzerland. Examining of gears, particularly helical gears. 2,313,133; Mar. 9.

Ernst, Robert C. (See Neiman, R., Ernst, and Steinbock.)

Esgró, Sam, assignor of forty-nine per cent to C. A. Jean, Mrs. C. W. Jean, and R. N. Jean, Memphis, Tenn. Registering key for dispensing apparatus. 2,313,424; Mar. 9.

Etten, Nicholas L., Waterloo, Iowa. Diminishing pressure wringer. 2,313,134; Mar. 9.

Evershed & Signoles Limited. (See Midworth, Cyril, assignor.)

Evert, Karl H., Elmhurst, Ill. Producing flexible metal hose. 2,313,329; Mar. 9.

Ewing, Samuel C., Scotia, and F. H. Winter, Schenectady, N. Y., assignors to General Electric Company. Control system. 2,313,528; Mar. 9.

Falk Corporation, The. (See Falk, Louis W., assignor.)

Falk, Louis W., assignor to The Falk Corporation, Milwaukee, Wis. Rolling mill spindle support. 2,313,230; Mar. 9.

Fallesen, George E., and J. A. Leermakers, assignors to Eastman Kodak Company, Rochester, N. Y. Fog inhibitor for photographic emulsions. 2,313,529; Mar. 9.

Farnsworth Television and Radio Corporation. (See Cawein, Madison, assignor.)

Farnsworth Television and Radio Corporation. (See Pressley, Jackson H., assignor.)

Faximile, Inc. (See Ressler, Hugh C., assignor.)

Fay, Horace B., Willoughby, assignor to The Gridiron Steel Company, Cleveland, Ohio. Ironing board. 2,313,135; Mar. 9.

Federal Telephone & Radio Corporation. (See Busignies, H. G., and Richardson, assignors.)

Feigion, Herman D., York, Nebr. Combination fence tool. 2,313,530; Mar. 9.

Feldmann, Artur, Brunn, Czechoslovakia; vested in the Alien Property Custodian. Felt sheet machine. 2,313,292; Mar. 9.

Ferrex Corporation. (See Gersman, Harvey M., assignor.)

Fiedler, Sebastian O. A., and G. V. Austerweil, Paris, France; vested in the Alien Property Custodian. Removal of silica from water. 2,313,194; Mar. 9.

Field, Oscar S., assignor to General Railway Signal Company, Rochester, N. Y. Railway signaling system. 2,313,468; Mar. 9.

Figg, Louis J., Jr., and E. E. Shaulis, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y. Minimizing sludge formation in oils used for scrubbing gases. 2,313,531; Mar. 9.

Finch, James L., Patchogue, N. Y., assignor to Radio Corporation of America. Parasitic oscillation suppression with compressed air condensers in thermionic circuits. 2,313,330; Mar. 9.

Fischer, Albert C., Chicago, Ill. Seed planting, seed inoculation, and fertilizer. 2,313,057; Mar. 9.

Fischer, Friedrich E., Erlenbach, Switzerland. Apparatus for ascertaining sighting and firing errors in gunnery practice. 2,313,136; Mar. 9.

Fitch, Clyde J., Endwell, and K. R. Schneider, Endicott, assignors to International Business Machines Corporation, New York, N. Y. Telegraph printer. 2,313,137; Mar. 9.

Flaxman, Marcellus T., Inglewood, assignor to Union Oil Company of California, Los Angeles, Calif. Glass cleaning composition. 2,313,425; Mar. 9.

Fleischer, Svend S. C., Charlottenlund, and J. J. Hansen, Ordrup, Denmark; vested in the Alien Property Custodian. Thread isolating device. 2,313,195; Mar. 9.

Florence Stove Company. (See Reeves, Herbert M., assignor.)

Flowers, Alan E., Poughkeepsie, N. Y., assignor to The De Laval Separator Company, New York, N. Y. Machine for purifying liquids. 2,313,541; Mar. 9.

Flynn, William B., Galeta, Calif. Turncock. 2,313,331; Mar. 9.

Food Machinery Corporation. (See Cutler, Frank W., assignor.)

Food Machinery Corporation. (See Magnuson, Roy M., assignor.)

Food Machinery Corporation. (See Thompson, Albert R., assignor.)

Forbes, Henry C., Eggertsville, assignor to Colonial Radio Corporation, Buffalo, N. Y. Directional radio receiver. 2,313,231; Mar. 9.

Ford, Frank R., Sparkbrook, Birmingham, England. Mechanism for producing step by step motion. 2,313,633; Mar. 9.

Forney, Elbridge W., Canton, Ohio. Washing machine. 2,313,634; Mar. 9.

Forsman, George L., Boston, Mass. Ladder. 2,313,469; Mar. 9.

Forstron, Edward E., Stratford, assignor to The Bryant Electric Company, Bridgeport, Conn. Strain device. 2,313,426; Mar. 9.

Foster, Dudley E., South Orange, N. J., and J. A. Rankin, Port Washington, N. Y., assignors to Radio Corporation of America. Reduction of spurious responses in radio reception. 2,313,635; Mar. 9.

Foster Wheeler Corporation. (See Blizard, John, assignor.)

Foster Wheeler Corporation. (See Dean, Dion K., assignor.)

Foster Wheeler Corporation. (See Frisch, Martin, assignor.)

Fram Corporation. (See Wilkinson, James W., assignor.)

Francis, Carleton S., Jr., Chestnut Hill, Pa., assignor to Sylvania Industrial Corporation, Fredericksburg, Va. Textile product and making the same. 2,313,058; Mar. 9.

Frank, Frederick C., assignor to Bendix Aviation Corporation, South Bend, Ind. Brake. 2,313,223; Mar. 9.

Freeman, Richard D., Westfield, N. J., assignor to American Can Company, New York, N. Y. Container. 2,313,059; Mar. 9.

Freeman, Stephen E., Wauwatosa, Wis., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Fractionation of free fatty acids. 2,313,636; Mar. 9.

Freeman, Walter R., Clayton, assignor to Wagner Electric Corporation, St. Louis, Mo. Brake control mechanism. 2,313,232; Mar. 9.

Fregeolle, Oscar, assignor to Hemphill Company, Central Falls, R. I. Knitted fabric. 2,313,332; Mar. 9.

Frey, Conrad. (See Klinkenstein, G., Dannerth, and Frey.)

Friedman, Aaron, assignor to Joe Lowe Corporation, New York, N. Y. Apparatus for making variegated ice creams or similar substances. 2,313,060; Mar. 9.

Friedrich, Walter H. (See Lyman, H. J., Mills, and Friedrich.)

Frisch, Martin, assignor to Foster Wheeler Corporation, New York, N. Y. Steam generator. 2,313,061; Mar. 9.

Fröhlich, Alfred, and W. Schneider, Dessau, Germany, assignors to General Aniline & Film Corporation, New York, N. Y. Production of color photographic images. 2,313,138; Mar. 9.

Fryling, Charles F., Silver Lake, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Preparation of butadiene copolymers. 2,313,233; Mar. 9.

Fudem, Adolf, Bardejov, Czechoslovakia; vested in the Alien Property Custodian. Coin-operated ink vending apparatus for fountain pens. 2,313,293; Mar. 9.

Fuller Brush Company, The. (See Cave, Henry, assignor.)

Funk, Truman B., assignor to Yard-Man, Inc., Jackson, Mich. Making lawn mower handles. 2,313,139; Mar. 9.

Furness, William H., Haddonfield, assignor to American Rayon Company, Inc., Riverton, N. J. Apparatus for the manufacture of rayon. 2,313,140; Mar. 9.

Garbisch, Norbert S. (See McGregor, Rob R., assignor.)

Garratt, Alan C., Upper Montclair, N. J., assignor to American Cigarette and Cigar Company, New York, N. Y. Display device. 2,313,141; Mar. 9.

Garrett, Jack, Jamestown, N. Y. Mirror support. 2,313,532; Mar. 9.

Garric, Jean, Troyes, France; vested in the Alien Property Custodian. Manufacture of stockings. 2,313,294; Mar. 9.

Garzo, Abraham G., West Palm Beach, Fla. Fishing reel. 2,313,470; Mar. 9.

Gates Rubber Company, The. (See Moe, John E., assignor.)

Gauthier, Raymond. (See Hérail, J., and Gauthier.)

Gavitt, Lester E., Brookfield, Mass., assignor to Gavitt Manufacturing Company, Tinsel cord. 2,313,234; Mar. 9.

Gavitt Manufacturing Company. (See Gavitt, Lester E., assignor.)

Geer, Russell L., Grand Island, Nebr. Hardware for concrete forms. 2,313,637; Mar. 9.

Gemmell, James H., Oakland, Calif. Screw driver. 2,313,710; Mar. 9.

General Aniline & Film Corporation. (See Eggert, J., and Nissen, assignors.)

General Aniline & Film Corporation. (See Fröhlich, A., and Schneider, assignors.)

General Aniline & Film Corporation. (See Krãzlein, Paul, assignor.)

General Aniline & Film Corporation. (See Orthner, L., Platz, Keller and Sönke, assignors.)

General Aniline & Film Corporation, The. (See Yamashita, S-I., and Yoshizaki, assignors.)

General Chemical Company. (See Bousquet, L'R. G., and Young, assignors.)

General Chemical Company. (See Shinn, John V., assignor.)

General Chemical Company. (See Smith, Lee B., assignor.)

General Electric Company. (See Baldwin, Morris J., assignor.)

General Electric Company. (See Edwards, Martin A., assignor.)

General Electric Company. (See Ewing, Samuel C., and Winter, assignors.)

General Electric Company. (See Johnson, Lyman B., assignor.)

General Electric Company. (See Marshaus, Anthony J., assignor.)

General Electric Company. (See Peters, Leo R., assignor.)

General Electric Company. (See Rankin, William K., assignor.)

General Electric Company. (See Stimson, Allen G., assignor.)

General Electric Company. (See Thayer, Richard N., assignor.)

General Railway Signal Company. (See Field, Oscar S., assignor.)

General Railway Signal Company. (See Moore, E. W., and Knapp, assignors.)

General Tire & Rubber Company, The. (See Breth, Walter J., assignor.)

General Tire & Rubber Company, The. (See Bush, Russell J., assignor.)

General Tire & Rubber Company, The. (See Wheatley, George, assignor.)

Genest, Adrien. (See Genest, Aime, and Adrien.)

Genest, Aime, and A., Montreal, Quebec, Canada. Automatic multiple outlet valve. 2,313,142; Mar. 9.

Genter, Albert H., Mt. Lebanon Township, Allegheny County, Pa. Fused feeder tap. 2,313,333; Mar. 9.

Genter, Albert H., Mt. Lebanon, Pa. Car stop. 2,313,334; Mar. 9.

Geophysical Service Incorporated. (See Renner, Darwin S., assignor.)

Gerber, Paul D., Woodlynne, N. J., assignor to Radio Corporation of America. Apparatus for examining quarts. 2,313,143; Mar. 9.

Gersman, Harvey M., assignor to Ferrex Corporation, New York, N. Y. Expanded metal lath. 2,313,533; Mar. 9.

Geuder, Paeschke & Frey Co. (See Hois, Louis J., assignor.)

Gieringer, Carl K., assignor to The Liebel-Flarsheim Company, Cincinnati, Ohio. Dual wave generator. 2,313,427; Mar. 9.

Girling, Albert H. G. (See Pratt, J. H., Manley, and Girling.)
Glass, Dudley B. (See Salminen, I. F., Weissberger, and Glass.)
Gledhill, Edward C., Galion, Ohio. Combination earth mover and bulldozer. 2,313,534; Mar. 9.
Glenn, Helen, New York, N. Y. Cigarette case. 2,313,428; Mar. 9.
Glitzke, Ewald C., Kansas City, Mo. Bite registering device. 2,313,535; Mar. 9.
Goddard, De Witt R., Riverhead, N. Y., assignor to Radio Corporation of America. Vernier condenser. 2,313,429; Mar. 9.
Godfrey, Donald V., Girard, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y. Toy railway system. 2,313,335; Mar. 9.
Goepfrich, Rudolph A., assignor, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind. Brake control mechanism. 2,313,430; Mar. 9.
Goepfrich, Rudolph A., assignor to Bendix Aviation Corporation, South Bend, Ind. Brake. 2,313,431; Mar. 9.
Goepfrich, Rudolph A., assignor to Bendix Aviation Corporation, South Bend, Ind. Brake. 2,313,432; Mar. 9.
Golden, Bertie C., Reidsville, N. C., assignor to Millhiser Bag Company, Inc., Richmond, Va. Bag-making and label-inserting machine and method. 2,313,433; Mar. 9.
Goldmark, Peter C., New Canaan, Conn., assignor to Columbia Broadcasting System, Inc., New York, N. Y. Television. 2,313,062; Mar. 9.
Gomm, Albert S., Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited. Production of aqueous dispersions of ethylene polymer. 2,313,144; Mar. 9.
Goodrich, B. F., Company, The. (See Fryling, Charles F., assignor.)
Goslin-Birmingham Manufacturing Company. (See Sadtler, Philip B., assignor.)
Granditz, Victor, Cheektowaga, N. Y. Device for automatically indicating breakdown in kiln conveyers. 2,313,638; Mar. 9.
Gratzmüller, Jean L., Boulogne-Sur-Seine, and L. R. Ignace, Bougival Seine-Et-Oise, France; vested in the Alien Property Custodian. Packing device. 2,313,486; Mar. 9.
Greenburg, Richard B., Philadelphia, Pa., assignor, by mesne assignments, to Allied Chemical & Dye Corporation. Distillation of benzene fractions with butyraldehyde. 2,313,536; Mar. 9.
Greenburg, Richard B., Philadelphia, Pa., assignor, by mesne assignments, to Allied Chemical & Dye Corporation. Recovery of xylene from oils containing the same. 2,313,537; Mar. 9.
Greenburg, Richard B., Philadelphia, Pa., assignor, by mesne assignments, to Allied Chemical & Dye Corporation. Distillation of benzene fractions. 2,313,538; Mar. 9.
Grief Bros. Cooperage Corporation, The. (See Arnold, Charles B., assignor.)
Grief, L., & Bro., Inc. (See Natale, Louis, assignor.)
Grether, Ernest F., assignor to The Dow Chemical Company, Midland, Mich. Humous product. 2,313,434; Mar. 9.
Gridiron Steel Company, The. (See Fay, Horace B., assignor.)
Groomes, Harry M., Whitmore Lake, Mich. Liquid dispensing nozzle. 2,313,539; Mar. 9.
Grosse, Aristid V. (See Morrell, J. C., and Grosse.)
Grove, Collins D., Joliette, Quebec, Canada. Coupling means for dollys, trailers, and the like. 2,313,235; Mar. 9.
Grover, Elliot B., Providence, assignor to Manville Jenckes Corporation, Manville, R. I. Apparatus for testing the density of thread packages. 2,313,336; Mar. 9.
Guardite Corporation, The. (See Schneider, Raymond U., assignor.)
Guinot, Henri M., Niort, France; vested in the Alien Property Custodian. Recovery of alcohols from olefin hydration products. 2,313,196; Mar. 9.
Gulf Research & Development Company. (See Montgomery, Charles W., assignor.)
Gurke, John, Bethesda, Md. Crib cover. 2,313,337; Mar. 9.
Haas, Otto R., North Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe sewing machine. 2,313,063; Mar. 9.
Hale, Walter S. (See Balls, Arnold K., and Hale.)
Halfvarson, Gustaf A., Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Refrigeration apparatus. 2,313,472; Mar. 9.
Hall, Harry C., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind. Time switch. 2,313,064; Mar. 9.
Hall, Selden H., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Machine for purifying liquids. 2,313,540; Mar. 9.
Hall, Vincent C., and J. G. Streiffert, assignors to Eastman Kodak Company, Rochester, N. Y. Electro-optical color reproduction circuit. 2,313,542; Mar. 9.
Hall, Vincent C., assignor to Eastman Kodak Company, Rochester, N. Y. Electro-optical system. 2,313,543; Mar. 9.
Hallam, Cecil A., Westfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Metallic telephone booth. 2,313,471; Mar. 9.
Halloran, William D., River Forest, assignor to Sears, Roebuck and Co., Chicago, Ill. Timing mechanism. 2,313,065; Mar. 9.
Hammand, Lowell F., Washington, D. C. Toggle joint. 2,313,197; Mar. 9.
Hampton, Julius B., Bessemer, Ala. Article turning machine. 2,313,544; Mar. 9.
Hanna, Ezra L., North Scituate, R. I., assignor to Davol Rubber Company, Rubber goods. 2,313,703; Mar. 9.
Hannay, William H., and B. J. Walsh, Trail, British Columbia, assignors to the Consolidated Mining & Smelting Company of Canada Limited, Montreal, Quebec, Canada. Electrolytic zinc dust process. 2,313,338; Mar. 9.
Hansen, Jörgen J. (See Fleischer, S. G. C., and Hansen.)
Hare, Terence G., assignor to The Amesbury Seat Manufacturing Co., Ypsilanti, Mich. Wheel balancing. 2,313,339; Mar. 9.
Hargreaves, Thomas F. S. (See Terry, V. J., and Hargreaves.)
Harris, John L., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Combustion control. 2,313,340; Mar. 9.
Hastings Manufacturing Company. (See Phillips, Harold P., assignor.)
Hatfield, George A., Los Angeles, Calif., assignor to The National Supply Company, Pittsburgh, Pa. Gas lift device for wells. 2,313,066; Mar. 9.
Hauser, Hans, Bienne, assignor to the firm A.-G. für Optisch-mechanische Erfindungen, Coire, Switzerland. Optical testing and measuring apparatus. 2,313,639; Mar. 9.
Haustrup, Niels J., Tolderlundsvej, Odense, Denmark; vested in the Alien Property Custodian. Key-opening can. 2,313,198; Mar. 9.
Haynes, William H., Little Rock, Ark. Chuck for grooving and surfacing machines. 2,313,640; Mar. 9.
Heacock, Woodrow A., Inglewood, H. B. Swift, Redondo Beach, and W. Spyker, Inglewood, Calif. Game device. 2,313,473; Mar. 9.
Headley, Francis M., Pleasantville, N. J. Fluid drive clutch. 2,313,435; Mar. 9.
Heath, William C., Shorewood, assignor to A. O. Smith Corporation, Milwaukee, Wis. Electric forming apparatus. 2,313,067; Mar. 9.
Heavens, E. M., et al. (See Huge, Henry M., assignor.)
Hedenberg, Roy W., Brooklyn, N. Y. Safety block. 2,313,437; Mar. 9.
Heger, Joseph J., assignor to Universal X-Ray Products, Inc., Chicago, Ill. X-ray apparatus. 2,313,145; Mar. 9.
Heineman, Warren F., assignor to A. O. Smith Corporation, Milwaukee, Wis. Electric forging apparatus. 2,313,068; Mar. 9.
Hemphill Company. (See Fregeolle, Oscar, assignor.)
Hemphill Company. (See Lawson, Robert H., assignor.)
Henkelmann, Anna C. H., Husum, Sweden. Toy doll. 2,313,069; Mar. 9.
Hennessy, James J., Montclair, N. J. Locomotive driving wheel hub and liner structure. 2,313,545; Mar. 9.
Hennessy, John A., assignor to Ideal Commutator Dresser Company, Sycamore, Ill. Variable speed device. 2,313,436; Mar. 9.
Hensel, Franz R., E. I. Larsen and E. F. Swazy, assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind. Metal composition. 2,313,070; Mar. 9.
Herail, Jean, and R. Gauthier, Paris, France; vested in the Alien Property Custodian. Buoyancy system. 2,313,295; Mar. 9.
Herbelin, F. J. (See Taylor, Samuel, assignor.)
Hercules Powder Company. (See Stuart, Joseph, II, assignor.)
Hercules Powder Company. (See Wiggam, David R., assignor.)
Herman, Kenneth R. (See Vickers, H. F., and Herman.)
Heshe, Kristian, Aarhus, Denmark; vested in the Alien Property Custodian. Packing for eggs and other brittle articles. 2,133,487; Mar. 9.
Hey, Henry W., assignor to Automatic Shifters, Inc., Richmond, Va. Power steering mechanism. 2,313,704; Mar. 9.
Heyning, Geldolph A., Velsen, Netherlands; vested in the Alien Property Custodian. Road surfaces, road foundations, and similar layers. 2,313,199; Mar. 9.
Heywood-Wakefield Company. (See Larsen, L., and Klar, assignor.)
Hickman, Kenneth C. D., assignor to Distillation Products, Inc., Rochester, N. Y. Distillation apparatus. 2,313,546; Mar. 9.
Hill, Walter P., Detroit, assignor, by mesne assignments, to Calumet and Hecla Consolidated Copper Company, Calumet, Mich. Method and apparatus for shaping members. 2,313,474; Mar. 9.
Himmel Brothers Company, The. (See Himmel, Fred, and Isidore.)
Himmel, Fred, and I. Himmel, New Haven, assignors to The Himmel Brothers Company, Hamden, Conn. Manufacturing shields. 2,313,236; Mar. 9.
Himmel, Isidore. (See Himmel, Fred and Isidore.)
Hinson, James N., assignor to The Hinson Manufacturing Company, Waterloo, Iowa. Luggage bag. 2,313,547; Mar. 9.
Hinson Manufacturing Company, The. (See Hinson, James H., assignor.)
Hirschberger, Jakob, New York, N. Y. Reclaiming or regenerating rubber from rubber waste products. 2,313,146; Mar. 9.

Hodgson, Alan D'A., Bedford, England, assignor to Radio Corporation of America. Oscillation generator and modulator. 2,313,071; Mar. 9.
Hoekstra, James, assignor to Universal Oil Products Company, Chicago, Ill. Temperature controlling device. 2,313,147; Mar. 9.
Hoelscher, William G., assignor to The American Tool Works Company, Cincinnati, Ohio. Fluid operated gear shifting mechanism. 2,313,438; Mar. 9.
Hoerst, Valentine N., Cincinnati, Ohio. Drill grinding device. 2,313,641; Mar. 9.
Hoge, Frederick N., Oak Park, Ill. Gear speed reducer and the like. 2,313,548; Mar. 9.
Hois, Louis J., assignor to Geuder, Paeschke & Frey Co., Milwaukee, Wis. Filtering strainer. 2,313,237; Mar. 9.
Holcomb, Philo, Jr., assignor to The Western Union Telegraph Company, New York, N. Y. Multichannel telegraph system. 2,313,238; Mar. 9.
Holden, Edward A. (See Martin, K. L., and Holden.)
Hollengreen, Millburn A. (See Price, R. E., Balsiger and Hollengreen.)
Hollengreen, Millburn A. (See Rocks, H. N., Hollengreen, and Balsiger.)
Holley, Earl, et al. (See Olson, Elmer, assignor.)
Holley, Earl, et al. (See Udale, Stanley M., assignor.)
Holley, George M., et al. (See Olson, Elmer, assignor.)
Holley, George M., et al. (See Udale, Stanley M., assignor.)
Holmes, Gifford L., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Snap action switch. 2,313,341; Mar. 9.
Holmes, Henry H., and A. P. Saunders, assignors to Wildt and Company Limited, Leicester, England. Circular independent needle knitting machine. 2,313,642; Mar. 9.
Hoover, Daniel S., Mansfield, assignor to The Huber Manufacturing Company, Marion, Ohio. Earth handling machine and berm finisher. 2,313,342; Mar. 9.
Hoover, Walter R. (See Clayton, W. J., and Hoover.)
Hornain, François, Arras, France; vested in the Alien Property Custodian. Safety switch. 2,313,549; Mar. 9.
Horton, Erwin C., Hamburg, assignor to Trico Products Corporation, Buffalo, N. Y. Pump. 2,313,239; Mar. 9.
Horton, Reuben H., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Power and heating system. 2,313,439; Mar. 9.
Hotchkiss, Clifford, assignor to Perfex Corporation, Milwaukee, Wis. Thermal responsive device. 2,313,072; Mar. 9.
Hovey, George B., Cincinnati, Ohio. Wrist watch band. 2,313,073; Mar. 9.
Howard, Stanley R., Milton, assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Packaging machine. 2,313,643; Mar. 9.
Hubbard, Alfred W., Stillwater, assignor of one-half to J. C. N. Rowell, and one-half to T. H. Rowell, Baudette, Minn. Ophthalmic apparatus. 2,313,240; Mar. 9.
Huber, Charles J., West Chester, Pa., assignor, by mesne assignments, to Cleaver Brooks Company, Milwaukee, Wis. Valve structures. 2,313,550; Mar. 9.
Huber Manufacturing Company, The. (See Hoover, Daniel S., assignor.)
Huge, Henry M., Lorain, Ohio, asignor of one-half to C. P. Stocker, and one-half to E. M. Heavens. Control circuit. 2,313,440; Mar. 9.
Hurlbut, John, assignor to Eastman Kodak Company, Rochester, N. Y. Metering pump. 2,313,551; Mar. 9.
Hvid, Rasmus M., Wilmette, Ill. Forced vortex balancing apparatus. 2,313,644; Mar. 9.
Hynson, Westcott & Dunning. (See Brewer, John H., assignor.)
Ideal Commutator Dresser Company. (See Hennessy, John A., assignor.)
Ideal Power Lawn Mower Company. (See Sherer, J. S., Jr., and Richards, assignors.)
Ignace, Lionel R. (See Gratzmüller, J. L., and Ignace.)
Iliff, George S., assignor to Joyce, Inc., Pasadena, Calif. Preparing pads for shoes. 2,313,552; Mar. 9.
Imperial Chemical Industries Limited. (See Gomm, Albert S., assignor.)
International Business Machines Corporation. (See Brand, Samuel, assignor.)
International Business Machines Corporation. (See Fitch, C. J., and Schneider, assignors.)
International Business Machines Corporation. (See Sprecker, A. Le R., and Smithers, assignors.)
International Standard Electric Corporation. (See Terry, V. J., and Hargreaves, assignors.)
Ioannilli, Joseph R., Hamilton, and P. H. Dixon, Wenham, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J. Assembling machine. 2,313,148; Mar. 9.
Irvington Varnish & Insulator Co. (See Dale, Oswald, assignor.)
Jack, George, Rochelle Park, N. J., assignor to J. M. Lehmann Company, Inc., New York, N. Y. Chocolate tempering apparatus. 2,313,705; Mar. 9.
Jackson, Leslie K. (See Lithgow, J., and Jackson.)
Jacob, Ezekiel J., assignor to B. Liebowitz, New York, N. Y. Device for smokers' pipes. 2,313,343; Mar. 9.
Jacob, Ezekiel J., assignor to B. Liebowitz, New York, N. Y. Smoking device. 2,313,344; Mar. 9.
Jacobi, Edward N., assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Compartment door latch. 2,313,711; Mar. 9.
Jacobi, Edward N., assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Compartment door latch. 2,313,712; Mar. 9.
Jacobsen, Peter E. V., Copenhagen, Denmark; vested in the Alien Property Custodian. Process and apparatus for the manufacture of cardboard boxes for packing of eggs, fruit, and the like. 2,313,200; Mar. 9.
Jacobsson, Wilgot J., Plainfield, N. J., assignor to Union Carbide and Carbon Corporation. Altitude controlled pressure regulator. 2,313,149; Mar. 9.
Jacoby-Bender, Inc. (See Rodriguez, Emil, assignor.)
Jahn, Edwin Cornelius, and S. Coppick, Syracuse, N. Y. Nitrated lignocellulose. 2,313,441; Mar. 9.
Jandasek, Joseph, Detroit, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind. Turbo transmission. 2,313,645; Mar. 9.
Jean, Charles A., et al. (See Esgró, Sam, assignor.)
Jean, Charles W., Mrs., et al. (See Esgró, Sam, assignor.)
Jean, Ralph N., et al. (See Esgró, Sam, assignor.)
Jessup, Alfred C., Clamart, France, assignor to C. Weizmann, London, England. Cracking of oils. 2,313,241; Mar. 9.
Jewell, Howard W., Los Angeles, Calif. Pipe joint and collar therefor. 2,313,074; Mar. 9.
Johanns, Martinus J. C., Rotterdam, Netherlands; vested in the Alien Property Custodian. Window structure. 2,313,488; Mar. 9.
Johansen, Rolf H., Oslo, Norway; vested in the Alien Property Custodian. Carrying fixture. 2,313,553; Mar. 9.
Johnson, Carl V., assignor to Bendix Aviation Corporation, South Bend, Ind. Shock strut. 2,313,242; Mar. 9.
Johnson, Glenn D., Compton, assignor to Baash-Ross Tool Company, Los Angeles, Calif. Elevator link. 2,313,243; Mar. 9.
Johnson, Harry L., Minneapolis, Minn. Grain separator catch and return device. 2,313,150; Mar. 9.
Johnson, John H., Delaware, Ohio. Life jacket. 2,313,151; Mar. 9.
Johnson, Lyman B., Cleveland Heights, Ohio, assignor to General Electric Company. Gaseous discharge lamp. 2,313,646; Mar. 9.
Jones, Don F., assignor to Motor Wheel Corporation, Lansing, Mich. Fuel control for oil burners. 2,313,554; Mar. 9.
Jones, Don F., and J. W. Miller, assignors to Motor Wheel Corporation, Lansing, Mich. Air circulator. 2,313,555; Mar. 9.
Jones, W. Bartlett, Chicago, Ill., assignor to Wood Conversion Company, Cloquet, Minn. Therman insulation. 2,313,345; Mar. 9.
Jones, William C., El Paso, Tex. Muffler. 2,313,244; Mar. 9.
Jorgenson, John P., Evanston, assignor to Ayr-Mor Laundry Machinery Co., Chicago, Ill. Washing machine. 2,313,152; Mar. 9.
Joyce, Inc. (See Iliff, George S., assignor.)
Juppenlatz, John W., assignor to Treadwell Engineering Company, Easton, Pa. Molding composition. 2,313,697; Mar. 9.
Kansas City Testing Laboratory. (See Stareck, Jesse E., assignor.)
Kapella Limited. (See Warmisham, Arthur, assignor.)
Kaplan, William, Malverne, N. Y., assignor to Cities Service Oil Company, New York, N. Y. Catalytic conversion of hydrocarbon oils. 2,313,346; Mar. 9.
Kaufmann, Werner, Berlin-Siemensstadt, Germany, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Automatic reclosing circuit breaker system. 2,313,153; Mar. 9.
Kay Manufacturing Corporation. (See Krakauer, Abraham, assignor.)
Kazine, Ivan A. (See Kendrick, C. M., and Kazine.)
Keller, Hans. (See Orthner, L., Platz, Keller and Sönke.)
Keller, Joseph F. (See Ungar, Gustave A., assignor.)
Kelly, John H., Jr., and M. M. Stern, assignors to Dryden Rubber Company, Chicago, Ill. Preparation of rubber compositions. 2,313,154; Mar. 9.
Kendrick, Charles M., and I. A. Kazine, assignor to Manly Corporation, New York, N. Y. Fluid pressure device. 2,313,075; Mar. 9.
Kendrick, Charles M., and I. A. Kazine, New York, N. Y., assignors to Manly Corporation, Washington, D. C. Fluid pressure device. 2,313,246; Mar. 9.
Kent, Frank T., Hope, Ind. Towel bar extensions. 2,313,245; Mar. 9.
Kenyon, William O. (See McDowell, W. H., and Kenyon.)
King, Ernest J., New York, N. Y. Hat construction. 2,313,381; Mar. 9.
Kinney, Walter B. (See Salzberg, H. K., and Kinney.)
Kistner, Merrill M., Chicago, Ill. Steam hand iron. 2,313,382; Mar. 9.
Klar, Elof P. (See Larsen, L., and Klar.)
Klein, Poul H., Copenhagen, Denmark; vested in the Alien Property Custodian. Windshield cleaner mechanism for vehicles or vessels. 2,313,201; Mar. 9.

Kline, John E., Grosse Pointe Farms, assignor to Micromatic Hone Corporation, Detroit, Mich. Honing tool. 2,313,442; Mar. 9.

Klinkenstein, Gustave, Maplewood, F. Dannerth, East Orange, and C. Frey, Nutley, assignors to Maas & Waldstein Company, Newark, N. J. Color concentrate. 2,313,076; Mar. 9.

Knapp, James W. (See Moore, E. W., and Knapp.)

Knill, Frank, and J. A. Schulte, Vermillion, assignors, by mesne assignments, to C. W. Patterson, Cleveland, Ohio. Swivel sinker. 2,313,647; Mar. 9.

Koehler, Willie G. (See Koepsel, L. E., and Koehler.)

Koepsel, Louis E., and W. G. Koehler, McQueeney, Tex. Poison powder distributor. 2,313,556; Mar. 9.

Kohnle, Frederick, assignor to The Monarch Marking System Company, Dayton, Ohio. Price tag marking machine. 2,313,347; Mar. 9.

Kolodny, Charles, Baltimore, Md. Telephone attachment. 2,313,383; Mar. 9.

Koppers Company. (See Linder, Willy, assignor.)

Korytko, Charles E. S., Paris, France; vested in the Alien Property Custodian. Piston. 2,313,202; Mar. 9.

Krakauer, Abraham, assignor to Kay Manufacturing Corporation, Brooklyn, N. Y. Padded spring cushion unit. 2,313,443; Mar. 9.

Kränzlein, Paul, Leverkusen-I. G.-Werk, Germany, assignor to General Aniline & Film Corporation. Chloranthraquinones and making them. 2,313,155; Mar. 9.

Kratt, George C., Jr., Nisswa, Minn. Inflating pneumatic tires to proper internal air pressure under load. 2,313,156; Mar. 9.

Krenke, Otto, assignor to Anker-Holth Manufacturing Company, Inc., Port Huron, Mich. Hose reel. 2,313,557; Mar. 9.

Krow, Cecil J., Ralston, Okla. Tire pressure indicating means. 2,313,247; Mar. 9.

Kuehn, Raymond L., Hartford, Conn., assignor to The Billings & Spencer Company. Machine tool. 2,313,558; Mar. 9.

Kvupil, Frank H., Berwyn, Ill. Hydraulic clamping device and punch. 2,313,348; Mar. 9.

Lamb, Francis X., East Orange, assignor to Weston Electrical Instrument Corporation, Newark, N. J. Precision gearing. 2,313,444; Mar. 9.

Lamb, Francis X., East Orange, assignor to Weston Electrical Instrument Corporation, Newark, N. J. Precision gearing. 2,313,445; Mar. 9.

Lamesch, Armand, Herzogenrath, near Aachen, Germany; vested in the Alien Property Custodian. Fiber or filament of glass. 2,313,296; Mar. 9.

Lancaster Iron Works, Inc. (See Erickson, Aaron H., assignor.)

Land, Edwin H., Cambridge, Mass., assignor to Polaroid Corporation, Dover, Del. Variable density window. 2,313,349; Mar. 9.

Landis Tool Company. (See Price, R. E., Balsiger, and Hollengreen, assignors.)

Landis Tool Company. (See Rocks, H. N., Hollengreen, and Balsiger, assignors.)

Lane-Wells Company. (See Arnold, James C., assignor.)

Lane-Wells Company. (See Spencer, Lloyd, assignor.)

Lane-Wells Company. (See Turechek, George F., assignor.)

Larsen, Earl I. (See Hensel, F. R., Larsen, and Swazy.)

Larsen, Lewis, and E. P. Klar, Menominee, Mich., assignors to Heywood-Wakefield Company, Gardner, Mass. Chair. 2,313,559; Mar. 9.

Larson, Charles, Chicago, Ill. Bag holder. 2,313,077; Mar. 9.

Latrobe, Pierre M. L., Paris, France; vested in the Alien Property Custodian. Manufacture of decorated products permeable to the luminous rays and product obtained therefrom. 2,313,489; Mar. 9.

Lauffer, Emile, Liege, Belgium; vested in the Alien Property Custodian. Compensating device for steam or like pipings. 2,313,490; Mar. 9.

Lavietes, Henry J., Flushing, assignor to Henry Leonard & Thomas, Inc., Ozone Park, N. Y. Smoker's appliance. 2,313,648; Mar. 9.

Lawrence, Charles K. (See Vingee, R. A., and Lawrence.)

Lawson, Robert H., Pawtucket, assignor to Hemphill Company, Central Falls, R. I. Knitted fabric. 2,313,446; Mar. 9.

Lebus, William A., assignor to Protecteseal Company of America, Inc., Chicago, Ill. Safety wash tank. 2,313,350; Mar. 9.

Lee, Robert E., Coleman, Tex., assignor, by mesne assignments, to J. H. Reynolds. Determining the tectonics and nature of subsurface geology. 2,313,284; Mar. 9.

Leeds & Northrup Company. (See Schock, J. F., and Broomell, Jr., assignors.)

Leermakers, John A. (See Fallesen, G. E., and Leermakers.)

Lehmann Company, J. M., Inc. (See Jack, George, assignor.)

Leka, Thomas M., Hackensack, N. J. Aircraft. 2,313,447; Mar. 9.

Lemoigne, Pierre M., Chatillon-sur-Bagneux, France; vested in the Alien Property Custodian. Motor propelling unit. 2,313,491; Mar. 9.

Lengvenis, Frank J. (See Brubaker, J. L., and Lengvenis.)

Leonard, Henry, & Thomas, Inc. (See Brunner, Otto, assignor.)

Leonard, Henry, & Thomas, Inc. (See Lavietes, Henry J., assignor.)

Le Tourneau, Robert G., Peoria, Ill., assignor to R. G. Le Tourneau, Inc. Dump wagon. 2,313,078; Mar. 9.

Lev, Andrew J. (See Van Sittert, P., and Lev.)

Lévesque, Jean, Montreal, assignor to The Province of Quebec, Department of Colonization, Quebec, Quebec, Canada. Extraction of oils from hardwood tar and purification thereof. 2,313,385; Mar. 9.

Lévesque, Jean, Montreal, Quebec, Canada. Concentration and extraction of acetic acid in aqueous solutions. 2,313,386; Mar. 9.

Levine, Lawrence J., Brooklyn, N. Y. Visible bell call device. 2,313,560; Mar. 9.

Libbey Glass Company. (See Schutz, Harold R., assignor.)

Liebel-Flarsheim Company, The. (See Gieringer, Carl K., assignor.)

Liebowitz, Benjamin. (See Jacob, Ezekiel J., assignor.)

Liebovitz, S., & Sons, Inc. (See Driesbach, G. O., and Rahm, assignors.)

Lilja, Edgar D., assignor to Barber-Colman Company, Rockford, Ill. Condition control. 2,313,079; Mar. 9.

Lincoln, Bert H., W. L. Steiner, and G. D. Byrkit, Ponca City, Okla., assignor, by mesne assignments, to The Lubri-Zol Development Corporation, Cleveland, Ohio. Sulphur containing lubricant. 2,313,248; Mar. 9.

Linder, Willy, Essen, Germany, assignor, by mesne assignments, to Koppers Company, Pittsburgh, Pa. Carrying out endothermic gas reactions at high temperatures. 2,313,157; Mar. 9.

Line Material Company. (See Schultz, William O., assignor.)

Line Material Company. (See Wiegand, David E., assignor.)

Liner, Joseph I., assignor to The Electric Auto-Lite Company, Toledo, Ohio. Thermoelectric indicator. 2,313,649; Mar. 9.

Lithgow, John, and L. K. Jackson, Cleveland, Ohio, assignors to Sears, Roebuck and Co., Chicago, Ill. Brine tank. 2,313,080; Mar. 9.

Lithgow, John, and L. K. Jackson, Cleveland, Ohio, assignors to Sears, Roebuck and Co., Chicago, Ill. Absorption refrigerator. 2,313,707; Mar. 9.

Ljungström, Fredrik, Brevik, Lidingo, Sweden, assignor, by mesne assignments, to J. C. Marble, L. M. Merrill, and P. H. Batten, trustees. Heat exchange. 2,313,081; Mar. 9.

Lobstein, Jean, Paris, France; vested in the Alien Property Custodian. Electric heating apparatus for all applications. 2,313,492; Mar. 9.

Loewengart, Justin, assignor to Transcontinental Rubber Corporation, New York, N. Y. Applying colored designs onto rubber articles. 2,313,650; Mar. 9.

Long, Sidney L., Minneapolis, Minn. Toy. 2,313,158; Mar. 9.

Lotter, Adolph G., assignor to Stationers Loose Leaf Company, Milwaukee, Wis. Loose-leaf binder. 2,313,713; Mar. 9.

Lowe, Joe, Corporation. (See Friedman, Aaron, assignor.)

Lubri-Zol Development Corporation, The. (See Lincoln, B. H., Steiner, and Byrkit, assignors.)

Ludeman, Oscar H., Rye, N. Y. Valve. 2,313,448; Mar. 9.

Ludwig, Leon R., Wilkinsburg, and B. P. Baker, Turtle Creek, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit interrupter. 2,313,159; Mar. 9.

Lum, George P., assignor to Bendix Aviation Corporation, South Bend, Ind. Locking clip. 2,313,249; Mar. 9.

Lutman, Frank B., Willoughby, assignor to The American Fork & Hoe Company, Cleveland, Ohio. Hedge shears. 2,313,651; Mar. 9.

Lyman, Harry J., Detroit, Mich., assignor to Philco Radio and Television Corporation, Philadelphia, Pa. Adjustable antenna for vehicles. 2,313,652; Mar. 9.

Lyman, Harry J., Royal Oak, D. H. Mills and W. H. Friedrich, Detroit, Mich., assignors to Philco Radio & Television Corporation, Philadelphia, Pa. Tuning mechanism. 2,313,653; Mar. 9.

Lynger, Erik S., Stockholm, Sweden, assignor, by mesne assignments, to Servel, Inc., New York, N. Y. Refrigeration. 2,313,250; Mar. 9.

Maag, Zahnräder & Maschinen Aktiengesellschaft. (See Ernst, Daniel, assignor.)

Maas & Waldstein Company. (See Klinkenstein, G., Dannerth and Frey, assignors.)

MacDonald, James A., Glendale, assignor to J. U. Birnie, Los Angeles, Calif. Making coherent materials. 2,313,082; Mar. 9.

MacLean, Gordon, Flushing, assignor to The Turbo-Mixer Corporation, New York, N. Y. Apparatus for treating liquids with gases. 2,313,654; Mar. 9.

Magnuson, Roy M., Campbell, assignor to Food Machinery Corporation, San Jose, Calif. Pressure regulating means. 2,313,351; Mar. 9.

Mainardi, Marcus N. (See Mainardi, Pompey and Marcus N.)

Mainardi, Pompey, and M. N. Mainardi, Paterson, N. J. Stereoscopic system. 2,313,561; Mar. 9.

Mainardi, Pompey, and M. N. Mainardi, Paterson, N. J. Stereoscope. 2,313,562; Mar. 9.

Maisant, Bernard, Paris, France; vested in the Alien Property Custodian. Coconut retting method. 2,313,297; Mar. 9.

Mallory, P. R., & Co. (See Hall, Harry C., assignor.)

Mallory, P. R., & Co. (See Hensel, F. R., Larsen and Swazy, assignors.)

Malone, Homer E., assignor to Perfex Corporation, Milwaukee, Wis. Switching mechanism. 2,313,083; Mar. 9.

Mandalou, Nick, assignor of one-half to Leo S. Sacharoff, New York, N. Y. Finger sponge device. 2,313,563; Mar. 9.

Manley, Gilbert E. (See Pratt, J. H., Manley, and Girling.)

Manly Corporation. (See Kendrick, C. M., and Kazine, assignors.)

Manly, Fred G., Chicago, Ill. Turntable and mounting therefor. 2,313,084; Mar. 9.

Manly, Fred G., Chicago, Ill. Fluid control valve. 2,313,564; Mar. 9.

Manning, Maxwell & Moore, Incorporated. (See Yowell, Joseph W., assignor.)

Manville Jenckes Corporation. (See Grover, Elliot B., assignor.)

Marais, René, Paris, France; vested in the Alien Property Custodian. Windscreen wiper having a wide sweeping action. 2,313,203; Mar. 9.

Marble, Jarvis C., et al., trustee. (See Ljungström, Fredrik, assignor.)

Marshall, Charles O., assignor to Toledo Scale Company, Toledo, Ohio. Hydraulic force transmission device. 2,313,655; Mar. 9.

Marshall, Leonard J., Tenafly, N. J., assignor to Combustion Engineering Company, Inc., New York, N. Y. Ash deflecting baffle. 2,313,251; Mar. 9.

Marshaus, Anthony J., East Cleveland, Ohio, assignor to General Electric Company. Apparatus for feeding mercury. 2,313,657; Mar. 9.

Martin, Karl, et al., Executors. (See Brooks, Lew W.)

Martin, Kingsley L., Montclair, N. J., and Edward A. Holden, Jamaica, N. Y. Atomizer. 2,313,298; Mar. 9.

Martin, Thomas B., Dayton, Ohio, assignor to Bendix Aviation Corporation South Bend, Ind. Engine starter gearing. 2,313,656; Mar. 9.

Marx, Louis & Company. (See Godfrey, Donald V., assignor.)

Marx, Louis, & Company. (See Smith, A. N., and Bonnett, assignors.)

Mathieu, Frédéric, Paris, France; vested in the Alien Property Custodian. Safety device against fire for cinematographic projectors. 2,313,299; Mar. 9.

Mayer, Carl, and E. Mayer, Hampstead, London, England. Detachable footwear pad. 2,313,252; Mar. 9.

Mayer, Edith. (See Mayer, Carl and Edith.)

Mayers, Wilbur S., Toledo, Ohio. Machine and method for forming and welding hollow glass blocks. 2,313,160; Mar. 9.

McArthur, Herbert A., Mundelein, and J. B. Decker, Evanston, Ill. Oiling system for rotary pumps. 2,313,387; Mar. 9.

McCormick, George, Redwood City, and F. E. Russell, San Francisco, Calif. Boiler drop plug. 2,313,449; Mar. 9.

McDonald, William J., Kansas City, Mo. Vehicle impeding device. 2,313,388; Mar. 9.

McDowell, Wendell H., and W. O. Kenyon, assignors to Eastman Kodak Company, Rochester, N. Y. Resin and its preparation 2,313,565; Mar. 9.

McGregor, Rob R., Swissvale, assignor to N. S. Garbisch, Butler, Pa. Manufacture of glass plates. 2,313,566; Mar. 9.

McGrew, John A., Albany, N. Y. Lock washer. 2,313,658; Mar. 9.

McMillan, Frank M. (See de Simó, M., McMillan and Cheney.)

McWane, Henry E., Lynchburg, Va. Metallic mold. 2,313,253; Mar. 9.

Mead, Theodore E., Chicago, Ill. Sanding device. 2,313,254; Mar. 9.

Mechanite Metal Corporation. (See Cameron, Stuart L., assignor.)

Merolle, Augustus L., assignor to Empire Metal Cap Co. Inc., Brooklyn, N. Y. Sheet metal container. 2,313,161; Mar. 9.

Merrill, Leslie M., et al., trustee. (See Ljungström, Fredrik, assignor.)

Meston, Archibald F., Bound Brook, N. J., assignor to Research Corporation, New York, N. Y. Electrical precipitator. 2,313,389; Mar. 9.

Metal Carbides Corporation. (See De Bats, Jean H. L., assignor.)

Metropolitan Paving Brick Company, The. (See Sever, D. R., and (Renkert, assignor).)

Metz, Lawrence A. (See Allen, G. E., Metz and Sharpe.)

Michigan Research Laboratories, Inc. (See Erickson, D. R., and Thoma, assignors.)

Micromatic Hone Corporation. (See Kline, John E., assignor.)

Midworth, Cyril, assignor to Evershed & Vignoles Limited, Chiswick, London, England. Electrical measuring instrument. 2,313,352; Mar. 9.

Miehle Printing Press & Manufacturing Company. (See Stevens, Burt D., assignor.)

Mihalyi, Joseph, assignor to Eastman Kodak Company, Rochester, N. Y. Range and depth of field finders for cameras. 2,313,567; Mar. 9.

Miller, John W. (See Jones, Don F., and Miller.)

Miller, John W., assignor to Motor Wheel Corporation, Lansing, Mich. Combustion apparatus. 2,313,568; Mar. 9.

Miller, Robert N., Rosemont, assignor to The Pennsylvania Railroad Company, Philadelphia, Pa. Drop plug. 2,313,255; Mar. 9.

Miller, Stuart P., Scarsdale, N. Y., assignor, by mesne assignments, to Allied Chemical & Dye Corporation. Maleic anhydride-tar base condensation product and its production. 2,313,392; Mar. 9.

Mills, Donald H. (See Lyman, H. J., Mills, and Friedrich.)

Mills, John H., Rockport, Tex. Decoy. 2,313,353; Mar. 9.

Minerals and Metals Corporation. (See Brassert, Herman A., assignor.)

Minneapolis-Honeywell Regulator Company. (See Harris, John L., assignor.)

Minneapolis-Honeywell Regulator Company. (See Holmes, Gifford I., assignor.)

Minneapolis-Honeywell Regulator Company. (See Newton, Alwin B., assignor.)

Mitchell, Harry W., Shaker Heights, assignor to Mitchell Metal Products, Inc., Cleveland, Ohio. Apparatus for welding. 2,313,393; Mar. 9.

Mitchell Metal Products, Inc. (See Mitchell, Harry W., assignor.)

Mitchell, O. M. (See Bray, Overton, assignor.)

Mittag, Richard W. P., Washington, D. C. Black-out device. 2,313,659; Mar. 9.

Moe, John E., assignor to The Gates Rubber Company, Denver, Colo. Loom picker. 2,313,354; Mar. 9.

Mols, Paul E. M. J., Boitsfort, Belgium; vested in the Alien Property Custodian. Grinding glass plates. 2,313,493; Mar. 9.

Monarch Marking System Company, The. (See Kohnle, Frederick, assignor.)

Montgomery, Charles W., Aspinwall, assignor to Gulf Research & Development Company, Pittsburgh, Pa. Manufacture of high octane gasoline. 2,313,660; Mar. 9.

Montgomery, Charles W., Oakmont, assignor to Gulf Research & Development Company, Pittsburgh, Pa. Isomerization and alkylation of paraffins. 2,313,661; Mar. 9.

Moore, Edmund W., Rochester, and J. W. Knapp, Brockport, assignors to General Railway Signal Company, Rochester, N. Y. Railway signaling system. 2,313,475; Mar. 9.

Mordy, George, Pasadena, Calif. Bottle case. 2,313,355; Mar. 9.

Morelle, Jules, Paris, France; vested in the Alien Property Custodian. Collimator. 2,313,204; Mar. 9.

Morgan, George C., Birmingham, Ala., assignor to Continental Gin Company. Fluid distribution and collection system. 2,313,256; Mar. 9.

Morgan, Thomas J., Chicago, and A. S. Dearborn, Hinsdale, Ill., assignors to Ampro Corporation. One-way clutch for cinematographs. 2,313,662; Mar. 9.

Morgan, Thomas J., and A. S. Dearborn, Chicago, Ill., assignor to Ampro Corporation. Cinematograph. 2,313,663; Mar. 9.

Morrell, Jacque C., and A. V. Grosse, assignors to Universal Oil Products Company, Chicago, Ill. Treatment of hydrocarbons. 2,313,162; Mar. 9.

Motor Wheel Corporation. (See Jones, Don F., assignor.)

Motor Wheel Corporation. (See Jones, Don F., and Miller, assignors.)

Motor Wheel Corporation. (See Miller, John W., assignor.)

Mount, Wadsworth W., Summit, N. J. Antitorpedo shield. 2,313,664; Mar. 9.

Mullins Manufacturing Corporation. (See White, Richard F., assignor.)

Munthesen, Niels, Copenhagen, Denmark, vested in the Alien Property Custodian. Electric timeswitch. 2,313,569; Mar. 9.

Nadeau, Gale F., and H. R. Couch, assignors to Eastman Kodak Company, Rochester, N. Y. Photographic layer capable of receiving writing. 2,313,570; Mar. 9.

Natale, Louis, Baltimore County, Md., assignor to L. Greif & Bro., Inc. Man's drape coat. 2,313,665; Mar. 9.

National Oil Products Company. (See Abramowitz, W. L., and Beach, assignors.)

National Supply Company, The. (See Hatfield, George A., assignor.)

Neal, Morris P., Quincy, assignor to Ditto, Incorporated, Chicago, Ill. Front margin stop means for duplicating machines. 2,313,163; Mar. 9.

Neff, John W., Easton, Pa., assignor to Binney and Smith Company, New York, N. Y. Plastic molding machine. 2,313,476; Mar. 9.

Neff, John W., Easton, Pa., assignor to Binney and Smith Company, New York, N. Y. Adjustable cam track. 2,313,477; Mar. 9.

Neft, Isadore E., Los Angeles, Calif. Projecting apparatus. 2,313,450; Mar. 9.

Neiman, Robert, R. C. Ernst, and E. A. Steinbock, said Neiman and said Ernst assignors to University of Louisville, Louisville, Ky. Investment composition. 2,313,085; Mar. 9.

Neiman, Robert, R. C. Ernst, and E. A. Steinbock, said Neiman and said Ernst assignors to University of Louisville, Louisville, Ky. Investment composition. 2,313,086; Mar. 9.

Neja, Ambrose, Anaheim, Calif. Box stacking and conveying mechanism. 2,313,478; Mar. 9.

Nelms, George C., Pittsburgh, E. J. Coggeshall, Turtle Creek, E. A. Berry, McDonald, Pa., and W. K. Wilbur, Bluefield, W. Va., assignors to Portable Lamp & Equipment Co., Pittsburgh, Pa. Mine lamp. 2,313,165; Mar. 9.

Nelson, Karl O., assignor of one-half to H. J. Nunnemacher, Milwaukee, Wis. Valve. 2,313,257; Mar. 9.

Nelson, Walfred A., Salt Lake City, Utah. Self-retaining surgical retractor. 2,313,164; Mar. 9.

New, Fred M., New York, N. Y. Flashlight attachment. 2,313,356; Mar. 9.

Newton, Alwin B., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Reverse cycle heating system. 2,313,390; Mar. 9.

Newton, Alwin B., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Refrigerating system. 2,313,391; Mar. 9.

Nicholas, Harold L., assignor to Burke & James, Inc., Chicago, Ill. Switch. 2,313,166; Mar. 9.

Nijland, Hendrik A. H., Laren, Netherlands; vested in the Alien Property Custodian. Circuit breaker for high voltage. 2,313,571; Mar. 9.

Nissen, Hans F. (See Eggert, J., and Nissen.)

Nolan, John R., Larchmont, assignor to The Diamond Match Company, New York, N. Y. Mechanism for extracting defective book assemblies from match booking machines. 2,313,451; Mar. 9.

Noma Electric Corporation. (See Wolf, Abraham, assignor.)

Norris, George C., Swissvale, Pa. Ice cube tray. 2,313,394; Mar. 9.

Nungesser, Robert E., Washington, D. C. Fish lure. 2,313,572; Mar. 9.

Nunnemacher, Henry J. (See Nelson, Karl O., assignor.)

Nystrom, Karl F., Milwaukee, Wis. Floor protection for railway cars. 2,313,167; Mar. 9.

O'Brien, Joseph F., Jersey City, N. J., assignor to John R. Pierce Foundation, New York, N. Y. Multiple conductor electric wiring unit. 2,313,452; Mar. 9.

Ohio Thermometer Company, The. (See Wappner, R. C., and Osborne, assignors.)

Okolicsanyi, Ferenc, Kensington, London, England, assignor to Scophony Corporation of America, New York, N. Y. Television receiver. 2,313,286; Mar. 9.

Olson, Elmer, Detroit, Mich., assignor to G. M. and E. Holley. Two-stage carburetor. 2,313,258; Mar. 9.

Opocensky, Willard J., Long Beach, Calif., assignor to Eastman Oil Well Survey Company, Dallas, Tex., and Eastman Oil Well Survey Corporation, Long Beach, Calif. Inclination and directional device for boreholes. 2,313,168; Mar. 9.

Orthner, Ludwig, C. Platz, and H. Keller, Frankfort-on-the-Main, and H. Sönke, Bad Soden-in-Taunus, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y. Capillary active compounds and preparing them. 2,313,573; Mar. 9.

Osborne, Frank M. (See Wappner, R. C., and Osborne.)

Ottoson, Carl C., West Brighton, Staten Island, N. Y. Flight attachment. 2,313,259; Mar. 9.

Owens-Corning Fiberglas Corporation. (See Dockerty, Stuart M., assignor.)

Pajeau, Charles H., Evanston, Ill., assignor to The Toy Tinkers, Inc. Toy construction block. 2,313,357; Mar. 9.

Parr, Warren S., United States Navy, and M. F. Peters, Beltsville, Md. Liquid cooling device. 2,313,087; Mar. 9.

Parva Products Company. (See White, Paul W., assignor.)

Patterson, Charles W. (See Knill, F., and Schulte, assignors.)

Payne, Charles F., assignor to Eastman Kodak Company, Rochester, N. Y. Apparatus for and method of continuously cooking starch. 2,313,574; Mar. 9.

Pelcé, Henri, Flixecourt, France; vested in the Alien Property Custodian. Circular weaving loom. 2,313,300; Mar. 9.

Penick, Arthur J. and K. T., Houston, Tex. Well head assembly. 2,313,169; Mar. 9.

Penick, Kirby T. (See Penick, Arthur J. and K. T.)

Pennsylvania Railroad Company, The. (See Miller, Robert N., assignor.)

Perfex Corporation. (See Hotchkiss, Clifford, assignor.)

Perfex Corporation. (See Malone, Homer E., assignor.)

Perlman, Glenn W., assignor to Aircraft Tools Inc., Los Angeles, Calif. Skin clamp. 2,313,358; Mar. 9.

Persoons, Alphonse. (See Persoons, Jules and A.)

Persoons, Jules and A., Thildonck, Belgium; vested in the Alien Property Custodian. Cream separator. 2,313,260; Mar. 9.

Peskind, Samuel. (See Arter, C. K., Jr., and Peskind.)

Peters, Leo R., East Cleveland, Ohio, assignor to General Electric Company. Electric discharge apparatus. 2,313,575; Mar. 9.

Peters, Melville F. (See Parr, W. S., and Peters.)

Peterson, Arthur F., East Orange, assignor to Schering Corporation, Bloomfield, N. J. Package for tablets, ampoules, and the like. 2,313,667; Mar. 9.

Peterson, Harold O., Riverhead, N. Y., assignor to Radio Corporation of America. Logarithmic instrument circuit. 2,313,666; Mar. 9.

Philco Corporation. (See Rundell, Theodore W., assignor.)

Philco Radio & Television Corporation. (See Lyman, H. J., Mills, and Friedrich, assignors.)

Philco Radio and Television Corporation. (See Lyman, Harry J., assignor.)

Phillips, Harold P., assignor to Hastings Manufacturing Company, Hastings, Mich. Piston ring. 2,313,395; Mar. 9.

Phillips, Harold P., assignor to Hastings Manufacturing Company, Hastings, Mich. Piston expander. 2,313,396; Mar. 9.

Phillips, Ralph A., Hawthorne, and M. L. Clopton, Glendale, Calif. Core drilling device. 2,313,576; Mar. 9.

Pierce, John B., Foundation. (See O'Brien, Joseph F., assignor.)

Pierce, Lawrence, Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Enclosed circuit interrupter. 2,313,170; Mar. 9.

Piliero, James, Astoria, assignor to Dickson Wire & Cable Corp., Long Island City, N. Y. Resilient support. 2,313,171; Mar. 9.

Pittsburgh Plate Glass Company. (See Freeman, Stephen E., assignor.)

Pittsburgh Plate Glass Company. (See Truby, Harry A., assignor.)

Pittsburgh Steel Company. (See Babcock, Donald E., assignor.)

Placco, Oscar F., Cranston, R. I., assignor to Cohn & Rosenberger, Inc. Ear ornament. 2,313,668; Mar. 9.

Plant, John H., Aurora, Ill. Shoe. 2,313,577; Mar. 9.

Plaskon Company. (See Simons, John K., assignor.)

Plass, Robert H., Upper Montclair, assignor to The Chapal Donner Corporation, Newark, N. J. Apparatus for treating fur. 2,313,578; Mar. 9.

Platz, Carl. (See Orthner, L., Platz, Keller, and Sönke.)

Plewes, Argyle C. (See Scott, R. F., and Plewes.)

Pneumatic Scale Corporation. (See Howard, Stanley R., assignor.)

Pneumatic Scale Corporation. (See Yates, John, assignor.)

Podgorny, John, Harvey, assignor to Union Special Machine Company, Chicago, Ill. Overall banding machine. 2,313,261; Mar. 9.

Polaroid Corporation. (See Land, Edwin H., assignor.)

Polk Development Company, The. (See Polk, Ralph, Sr., and Ralph, Jr., assignors.)

Polk, Ralph, Jr. (See Polk, Ralph, Sr., and Ralph, Jr.)

Polk, Ralph, Sr., Miami, and R. Polk, Jr., assignors to The Polk Development Company, Tampa, Fla. Holding fork for citrus fruits. 2,313,714; Mar. 9.

Portable Lamp & Equipment Co. (See Nelms, G. C., Coggeshall, Berry, and Wilbur, assignors.)

Potez, Henry C. A., Meaulte, Somme, France; vested in the Alien Property Custodian. Two-speed driving mechanism for centrifugal compressors. 2,313,205; Mar. 9.

Potts, Cecil E. (See Shook, Fred C., assignor.)

Potts, Louis M., Evanston, Ill. Meter recording system. 2,313,088; Mar. 9.

Pratt, James H., Birmingham, G. E. Manley, Earlswood, and A. H. G. Girling, Edgbaston, Birmingham, England. Hydraulic control mechanism. 2,313,359; Mar. 9.

Pressley, Jackson H., Marion, Ind., assignor to Farnsworth Television and Radio Corporation. Automatic record-changing apparatus. 2,313,262; Mar. 9.

Price, Ralph E., Highfield, Md., H. E. Balsiger, and M. A. Hollengreen, assignors to Landis Tool Company, Waynesboro, Pa. Feed mechanism. 2,313,479; Mar. 9.

Process Management Company. (See Rice, Francis O., assignor.)

Prosperity Company, The. (See Davis, Ernest, assignor.)

Protectoseal Company of America, Inc. (See Lebus, William A., assignor.)

Province of Quebec, Department of Colonization, The. (See Lévesque, Jean, assignor.)

Puc, Vojtěch, Prague, Czechoslovakia; vested in the Alien Property Custodian. Sliding clasp fastener. 2,313,579; Mar. 9.

Radio Corporation of America. (See Brown, George H., assignor.)

Radio Corporation of America. (See Carlson, W. L., and Conron, assignors.)

Radio Corporation of America. (See Dohan, William R., assignor.)

Radio Corporation of America. (See Finch, James L., assignor.)

Radio Corporation of America. (See Foster, D. E., and Rankin, assignors.)

Radio Corporation of America. (See Gerber, Paul D., assignor.)

Radio Corporation of America. (See Goddard, De Witt R., assignor.)

Radio Corporation of America. (See Hodgson, Alan D'A., assignor.)

Radio Corporation of America. (See Peterson, Harold O., assignor.)

Radio Corporation of America. (See Roberts, Walter van B., assignor.)

Radio Corporation of America. (See Thompson, Leland E., assignor.)

Rahm, Robert C. (See Driesbach, Gilbert O., and Rahm.)

Ralston, Anderson W., and E. W. Segebrecht, assignors to Armour and Company, Chicago, Ill. Concentrating nonmetalliferous ores. 2,313,360; Mar. 9.

Rankin, Jesse M., executrix. (See Rankin, William K.)

Rankin, John A. (See Foster, D. E., and Rankin.)

Rankin, William K., deceased, late of Lansdowne, Pa., by J. M. Rankin, Lansdowne, Pa., executrix, assignor to General Electric Company. Gas blast electric circuit breaker. 2,313,580; Mar. 9.

Ratié, Pierre, P. and R. J., Montrouge, France; vested in the Alien Property Custodian. Assembly for the blades of variable pitch airscrews. 2,313,301; Mar. 9.

Ratié, René J. (See Ratié, Pierre P. and R. J.)

Rea, Philip M., Oklahoma City, Okla. Overshot fishing tool. 2,313,263; Mar. 9.

Rechberger, Fred G., Rego Park, Long Island, N. Y. Safety device. 2,313,172; Mar. 9.

Reed, William E., Pittsburgh, Pa. Wire fabric. 2,313,581; Mar. 9.

Rees, Gregory L., La Grange Park, assignor to Edison General Appliance Company, Inc., Chicago, Ill. Door structure. 2,313,582; Mar. 9.

Reeves, Herbert M., Kankakee, Ill., assignor to Florence Stove Company, Gardner, Mass. Oil range. 2,313,089; Mar. 9.

Regan Forge and Engineering Company. (See Sprague, Robert B., assignor.)

Reggio, Ferdinando, C., Buffalo, N. Y. Fuel supply system. 2,313,264; Mar. 9.

Reid, George H., London, England. Apparatus for training pilots, navigators, and like aircraft personnel. 2,313,480; Mar. 9.

Reiser, Alfred A., Buffalo, N. Y. Plug valve. 2,313,090; Mar. 9.

Reising, Eugene G., Hartford, Conn. Compensator for automatic firearms. 2,313,669; Mar. 9.

Remington Arms Company. (See Reynolds, Warren S., assignor.)

Rendano, Louis, Brooklyn, N. Y. Electric fan. 2,313,481; Mar. 9.

Renkert, Donald J. (See Sever, D. R., and Renkert.

Renner, Darwin S., Dallas, Tex., assignor to Geophysical Service Incorporated. Seismic recording. 2,313,091; Mar. 9.

Research Corporation. (See Meston, Archibald F., assignor.)

Ressler, Hugh C., West Brighton, assignor to Faximile, Inc., New York, N. Y. Modulating system. 2,313,583; Mar. 9.

Reynolds, Joseph H. (See Lee, Robert E., assignor.)

Reynolds, Warren S., Stratford, Conn., assignor to Remington Arms Company, Inc. Receptacle charging machine. 2,313,265; Mar. 9.

Rice & Adams Corporation. (See Alling, E. R., and (Ulrich, assignor).)

Rice, Francis O., Baltimore, Md., assignor, by mesne assignments, to Process Management Company, Inc., Wilmington, Del. Decomposing organic materials. 2,313,092; Mar. 9.

Richards, Arthur J. (See Sherer, J. S., Jr., and Richards.)

Richards, Ralph N., assignor to W. R. Richards, Kalamazoo, Mich. Clutch mechanism. 2,313,361; Mar. 9.

Richards, Wilma R. (See Richards, Ralph N., assignor.)

Richardson, Avery G. (See Busignies, H. G., and Richardson.)

Rinck, Franklin B., La Grange, and J. W. Scott, Downers Grove, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Wire. 2,313,584; Mar. 9.

Roberts, John A., New York, N. Y. Theftproof closure. 2,313,266; Mar. 9.

Roberts, Turney B., and B. E. Davenport, Memphis, Tex. Pickup attachment for harvesting implements. 2,313,670; Mar. 9.

Roberts, Walter van B., Princeton, N. J., assignor to Radio Corporation of America. Power measuring device. 2,313,699; Mar. 9.

Roberts, Walter van B., Princeton, N. J., assignor to Radio Corporation of America. Transmitter. 2,313,700; Mar. 9.

Rocard, Yves. (See Bethenod, J., and Rocard.)

Rocks, Hugh N., M. A. Hollengreen, and H. E. Balsiger, assignors to Landis Tool Company, Waynesboro, Pa. Multiple wheel grinding machine. 2,313,482; Mar. 9.

Rodriguez, Emil, assignor to Jacoby-Bender, Inc., New York, N. Y. Safety cord clasp. 2,313,397; Mar. 9.

Röhm & Haas Company, (See Bruson, Herman A., assignor.)

Roller, Louis C. (See Seibert, Frank J., and Roller.)

Ronning, Jacob A., Minneapolis, Minn. Wrench-acting tool. 2,313,398; Mar. 9.

Rous, David, New York, N. Y. Shipping carton blank for chairs. 2,313,362; Mar. 9.

Rowell, Joseph C. N., et al. (See Hubbard, Alfred W., assignor.)

Rowell, Theodore H., et al. (See Hubbard, Alfred W., assignor.)

Rubel, Laurence E., assignor to Underwood and Underwood, Washington, D. C., Inc., Washington, D. C. Device for viewing transparencies. 2,313,453; Mar. 9.

Ruben, Samuel, New Rochelle, N. Y. Dielectric for electrostatic condensers. 2,313,093; Mar. 9.

Ruben, Samuel, New Rochelle, N. Y. Electrostatic condenser. 2,313,094; Mar. 9.

Rubinstein, Harry, Brooklyn, N. Y. Apparatus for making rayon cakes. 2,313,267; Mar. 9.

Rubinstein, Harry, Brooklyn, N. Y. Making and treating rayon cakes. 2,313,268; Mar. 9.

Rundell, Theodore W., Abington, assignor to Philco Corporation, Philadelphia, Pa. Refrigerator construction. 2,313,671; Mar. 9.

Rupp, Herbert E., Springfield Township, Richland County, Ohio. Self-priming centrifugal mine pump. 2,313,585; Mar. 9.

Russell, Frank E. (See McCormick, G., and Russell.)

Sacharoff, Leo S. (See Mandalou, Nick, assignor.)

Sadtler, Philip B., Birmingham, Ala., assignor to Gosiln-Birmingham Manufacturing Company, Inc. Pump for evaporating systems. 2,313,269; Mar. 9.

Saheurs, Albert G., Barenton, France; vested in the Alien Property Custodian. Process and apparatus for treatment of fluids. 2,313,494; Mar. 9.

Salminen, Ilmari F., A. Weissberger, and D. B. Glass, assignors to Eastman Kodak Company, Rochester, N. Y. Hydroxynaphthoic acid amide coupler. 2,313,586; Mar. 9.

Salzberg, Harold K., and W. B. Kinney, Bainbridge, assignors to The Borden Company, New York, N. Y. Coating sand mold surfaces. 2,313,672; Mar. 9.

Salzberg, Harold K., and W. B. Kinney, Bainbridge, assignors to The Borden Company, New York, N. Y. Coating foundry mold surfaces. 2,313,674; Mar. 9.

Sapp, Floyd B., Sherman Oaks, Calif. Wrench. 2,313,270; Mar. 9.

Sarazin, Raoul R. R., Saint-Prix, France; vested in the Alien Property Custodian. Impulse neutralizer. 2,313,206; Mar. 9.

Saunders, Alfred P. (See Holmes, H. H., and Saunders.)

Saurer, Curt, Akron, Ohio. Vehicle fender. 2,313,587; Mar. 9.

Schellenger, Newton C., El Paso, Tex., assignor to Chicago Telephone Supply Company, Elkhart, Ind. Circuit controller. 2,313,291; Mar. 9.

Schering Corporation. (See Peterson, Arthur F., assignor.)

Schmitt, George H., Oakland, Calif. Retaining wall and block for the same. 2,313,363; Mar. 9.

Schneider, George, Montclair, N. J., J. E. Bludworth, and C. M. Croft, Cumberland, Md., assignors to Celanese Corporation of America. Fabric treatment. 2,313,173; Mar. 9.

Schneider, Kurt R. (See Fitch, C. J., and Schneider.)

Schneider, Raymond U., Chicago, Ill., assignor to The Guardite Corporation. Door control mechanism. 2,313,095; Mar. 9.

Schneider, Wilhelm. (See Fröhlich, A., and Schneider.)

Schnell, Steve, Overland, assignor to Wagner Electric Corporation, St. Louis, Mo. Packing cup retainer. 2,313,271; Mar. 9.

Schnell, Steve, Kirkwood, assignor to Wagner Electric Corporation, St. Louis, Mo. Compound master cylinder. 2,313,273; Mar. 9.

Schnell, Steve, Kirkwood, assignor to Wagner Electric Corporation, St. Louis, Mo. Compound master cylinder. 2,313,274; Mar. 9.

Schock, John F., Philadelphia, and G. L. Broomell, Jr., Springfield Township, Montgomery County, assignors to Leeds & Northrup Company, Philadelphia, Pa. Self-balancing system. 2,313,272; Mar. 9.

Schopmeyer, Herman H., Hammond, Ind., assignor to American Maize-Products Company. Feed. 2,313,275; Mar. 9.

Schopmeyer, Herman H., Hammond, Ind., and G. V. Sharps, Chicago, Ill., assignors to American Maize-Products Company. Making iron phytate. 2,313,276; Mar. 9.

Schramm, Albert A. (See Walker, S. P., and Schramm.)

Schulte, John A. (See Knill, F., and Schulte.)

Schultz, Joachim M., New York, N. Y. Quill brush. 2,313,675; Mar. 9.

Schultz, William O., assignor to Line Material Company, South Milwaukee, Wis. Fuse construction. 2,313,364; Mar. 9.

Schultz, William O., assignor to Line Material Company, South Milwaukee, Wis. Fuse construction. 2,313,365; Mar. 9.

Schutz, Harold R., Toledo, Ohio, assignor to Libbey Glass Company. Reheating furnace. 2,313,698; Mar. 9.

Schwier, William, Milwaukee, Wis. Carburetor. 2,313,366; Mar. 9.

Scophony Corporation of America. (See Okolicsanyi, Ferenc, assignor.)

Scott, James W. (See Rinck, F. B., and Scott.)

Scott, Robert F., St. Albans, and A. C. Plewes, South Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation. Vacuum distillation process and apparatus. 2,313,175; Mar. 9.

Sears, Roebuck and Co. (See Halloran, William D., assignor.)
Sears, Roebuck & Co. (See Lithgow, J., and Jackson, assignors.)
Secretary of Agriculture of the United States of America, Claude R. Wickard, and his successors in office. (See Balls, A. K., and Hale, assignor.)
Selbert, Frank J., and L. C. Roller, assignors to Chipman Chemical Company, Inc., Bound Brook, N. J. Parasiticide composition and producing the same. 2,313,588; Mar. 9.
Seibert, Frank J., and L. C. Roller, assignors to Chipman Chemical Company, Inc., Bound Brook, N. J. Parasiticide composition and producing the same. 2,313,589; Mar. 9.
Segebrecht, Ervin W. (See Ralston, A. W., and Segebrecht.)
Seussad de Lavaud, Dimitri, Paris, France. Propeller having an automatically variable pitch. 2,313,326; Mar. 9.
Servel, Inc. (See Lynger, Erik S., assignor.)
Sever, Dean R., New Philadelphia, and D. J. Renkert, near Canton, said Renkert, assignor to The Metropolitan Paving Brick Company, Canton, Ohio. Vitrified traffic marker. 2,313,673; Mar. 9.
Sharpe, Francis C. (See Allen, G. E., Metz and Sharpe.)
Sharps, Gordon V. (See Schopmeyer, H. H., and Sharps.)
Shaulis, Edward E. (See Figg, L. J., Jr., and Shaulis.)
Shaver, James B., Cleveland, Ohio. Ventilating and circulating system. 2,313,676; Mar. 9.
Shelby, Peter P., Hermosa Beach, Calif. Well tester. 2,313,176; Mar. 9.
Shell Development Company. (See de Simó, M., McMillan and Cheney, assignors.)
Shell Development Company. (See Sorem, S. S., and Anderson, assignors.)
Shepard, Francis H., Jr., Merchantville, N. J. Reproduction of sound frequencies. 2,313,096; Mar. 9.
Shepard, Francis H., Jr., Merchantville, N. J. System for compensating anode supply potential variations. 2,313,097; Mar. 9.
Shepard, Francis H., Jr., Merchantville, N. J. Reproduction of sound frequency vibrations. 2,313,098; Mar. 9.
Sherer, Joseph S., Jr., and A. J. Richards, assignors to Ideal Power Lawn Mower Company, Lansing, Mich. Lawn mower. 2,313,590; Mar. 9.
Shinn, John V., Flushing, assignor to General Chemical Company, New York, N. Y. Manufacture of sulphuric acid. 2,313,677; Mar. 9.
Shock, Fred C., assignor of one-half to C. E. Potts, Baltimore, Md. Wrench. 2,313,174; Mar. 9.
Silex Company, The. (See Wolcott, Frank E., assignor.)
Simons, John K., assignor to Plaskon Company, Incorporated, Toledo, Ohio. Resin. 2,313,678; Mar. 9.
Simor, Eugene, New York, N. Y. Window cleaner. 2,313,367; Mar. 9.
Slaughter, Samuel, assignor of one-half to Verlin T. Brown, Richmond, Ind. Side delivery wheelbarrow. 2,313,591; Mar. 9.
Smink, Berdie, New York, N. Y. Maternity garment. 2,313,399; Mar. 9.
Smith, A. O., Corporation. (See Heath, William C., assignor.)
Smith, A. O., Corporation. (See Heineman, Warren F., assignor.)
Smith, Alfred F., Sr., Scarsdale, N. Y. Circular shoe heel. 2,313,368; Mar. 9.
Smith, Anthony N., and J. Bonnett, Girard, Pa., assignors to Louis Marx & Company, Inc., New York, N. Y. Toy gun. 2,313,400; Mar. 9.
Smith, Arthur E., Los Angeles, Calif. Ampoule. 2,313,483; Mar. 9.
Smith, Arthur E., Los Angeles, Calif. Hypodermic syringe. 2,313,484; Mar. 9.
Smith, Burgess W., assignor to The Todd Company, Inc., Rochester, N. Y. Safety paper and preparing the same. 2,313,592; Mar. 9.
Smith, Clarence J., Mason City, assignor of one-half to R. G. Thompson, Clear Lake, Iowa. Bar hanger. 2,313,594; Mar. 9.
Smith, Harvey N., Washington, D. C. Ice creeper. 2,313,099; Mar. 9.
Smith, Lee B., Woodbridge, N. J., assignor to General Chemical Company, New York, N. Y. Manufacture of thiocyanates. 2,313,680; Mar. 9.
Smith, Roland L., Belmont, Mass., assignor to Eastman Kodak Company, Rochester, N. Y. Tripod carrying case. 2,313,593; Mar. 9.
Smith, Sam R., South Bend, Ind. Wheel. 2,313,277; Mar. 9.
Smithers, Le Roy S. (See Sprecker, A. Le R., and Smithers.)
Snyder, Paul, Baltimore, Md. Undergarment. 2,313,595; Mar. 9.
Sobek, André, Paris, France; vested in the Alien Property Custodian. Differential pump. 2,313,302; Mar. 9.
Societe Anonyme des Manufactures des Glaces & Produits Chimiques de Saint-Gobain, Chauny & Cirey. (See Borel, Edouard V., assignor.)
Solvay Process Company, The. (See Vingee, R. A., and Lawrence, assignors.)
Sönke, Heinz. (See Orthner, L., Platz, Keller and Sönke.)
Sorem, Stanley S., and A. P. Anderson, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Asphalt composition. 2,313,596; Mar. 9.
Spang, Ferdinand J., Butler, Pa. Plug for oil and gas wells. 2,313,178; Mar. 9.
Sparks, Alva P. (See Webb, V. C., and Sparks.)
Spears-Wells Machinery Co., The. (See Wells, Ira M., assignor.)
Spencer, Lloyd, assignor to Lane-Wells Company, Los Angeles, Calif. Formation tester. 2,313,369; Mar. 9
Sprague, Robert B., Wilmington, Calif., assignor to Regan Forge and Engineering Company. Blowout preventer and valve. 2,313,177; Mar. 9.
Sprecker, Alfred Le R., Freeport, and Le R. S. Smithers, Kew Gardens, assignors to International Business Machines Corporation, New York, N. Y. Computing scale. 2,313,179; Mar. 9.
Spring, Claude L., Des Moines, Iowa. Radiating furnace. 2,313,370; Mar. 9.
Spyker, William. (See Heacock, W. A., Swift and Spyker.)
Stack, Alvilda L., executrix. (See Stack, James R.)
Stack, James R., Pittsburgh, Pa., deceased, Alvilda L. Stack, Montpelier, Vt., executrix, assignor, by mesne assignments, to Carnegie-Illinois Steel Corporation, Pittsburgh, Pa. Electrodeposition of tin and its alloys. 2,313,371; Mar. 9.
Stack, James R., Pittsburgh, Pa., deceased, Alvilda L. Stack, Montpelier, Vt., executrix, assignor, by mesne assignments, to Carnegie-Illinois Steel Corporation, Pittsburgh, Pa. Electrodeposition of lead. 2,313,372; Mar. 9.
Standard Oil Development Company. (See Becker, Arman E., assignor.)
Standard Railway Devices Company. (See Bonsall, Charles D., assignor.)
Stareck, Jesse E., Waterbury, Conn., assignor to Kansas City Testing Laboratory, Kansas City, Mo. Electrodeposition of cuprous oxides and baths therefor. 2,313,454, Mar. 9.
Stareck, Jesse E., Waterbury, Conn. Decoratively coloring articles in gold colors and the product thereof. 2,313,455; Mar. 9.
Stareck, Jesse E., Oakville, Conn., assignor to Kansas City Testing Laboratory, Kansas City, Mo. Producing decorative coatings exhibiting patterns or designs, and product. 2,313,456; Mar. 9.
Stationers Loose Leaf Company. (See Lotter, Adolph G., assignor.)
Steedman, Edwin H., St. Louis, Mo. Recovery of liquid hydrocarbons from well fluids. 2,313,681; Mar. 9.
Steensen, Niels R., Copenhagen, Denmark; vested in the Alien Property Custodian. Molding concrete structures. 2,313,207; Mar. 9.
Steihbock, Edmund A. (See Neiman, R., Ernst, and Steinbock.)
Steiner, Waldo L. (See Lincoln, B. H., Steiner and Byrkit.)
Steklik, Jan, Prerov, Moravia; vested in the Alien Property Custodian. Range finder. 2,313,208; Mar. 9.
Stern, Milton M. (See Kelly, J. H., Jr., and Stern.)
Stevens, Burt D., Barrington, assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Sheet feeding mechanism. 2,313,100; Mar. 9.
Stewart Iron Works Company, The. (See Young, Charles F., assignor.)
Stiller, Benjamin, Akron, Ohio. Key case. 2,313,485; Mar. 9.
Stimson, Allen G., Marblehead, Mass., assignor to General Electric Company. Thermal overload relay. 2,313,597; Mar. 9.
Stock, Herman, New York, N. Y. Furrier's knife. 2,313,598; Mar. 9.
Stocker, Closman P., et al. (See Huge, Henry M., assignor.)
Straub, W. F., & Company. (See Straub, Walter F., assignor.)
Straub, Walter F., assignor to W. F. Straub & Company, Chicago, Ill. Dispensing container construction. 2,313,278; Mar. 9.
Streiffert, John G. (See Hall, V. C., and Streiffert.)
Strong Manufacturing Company. (See Densten, Ulysses G., assignor.)
Stuart, Alfred A., Jr., Hasbrouck Heights, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind. Compass system. 2,313,682; Mar. 9.
Stuart, Joseph H., assignor to Hercules Powder Company, Wilmington, Del. Blasting machine. 2,313,101; Mar. 9.
Suczek, Robert, Grosse Pointe, Mich. Universal joint. 2,313,279; Mar. 9.
Sundt, Edward V., Arcadia, Calif. Electric fuse. 2,313,373; Mar. 9.
Surges, Frank, Lombard, Ill. Sewer and pipe cleaner. 2,313,599; Mar. 9.
Swazy, Earl F. (See Hensel, F. R., Larsen, and Swazy.)
Swift, Herbert B. (See Heacock, W. A., Swift, and Spyker.)
Sylvania Industrial Corporation. (See Francis, Carleton S., Jr., assignor.)
Sylvania Industrial Corporation. (See Wallach, Roger N., assignor.)
Szatrow, Mikolaj, Manila, P. I.; vested in the Alien Property Custodian. Game. 2,313,303; Mar. 9.
Szego, Steven D., assignor to American Diagrid Corporation, New York, N. Y. Beam connecting unit. 2,313,280; Mar. 9.

Talty, Frank A., Topeka, Kans. Traffic guide. 2,313,600; Mar. 9.
Tanberg, Ragnar, Aaskollen, Drammen, Norway; vested in the Alien Property Custodian. Cooling glass ribbon in fourcault machines. 2,313,495; Mar. 9.
Tangen, Anthony, Detroit, Mich. Power take-off mechanism. 2,313,679; Mar. 9.
Tanner, Howard A. (See Bachman, G. B., and Tanner.)
Tathwell, Joseph H., Charlotte, N. C., assignor to Ditto, Incorporated, Chicago, Ill. Hectograph roll cabinet. 2,313,180; Mar. 9.
Tavannes Machines Co. S. A. (See Boillat, Phillippe, assignor.)
Taylor, Elmer H., assignor to The Chase-Shawmut Company, Newburyport, Mass. Thermal circuit interrupter. 2,313,281; Mar. 9.
Taylor, Samuel Y., Houston, assignor of fifty per cent to F. J. Herbelin, Galveston, Tex. High density press. 2,313,102; Mar. 9.
Terry, Victor J., and T. F. S. Hargreaves, London, England, assignors to International Standard Electric Corporation, New York, N. Y. Voltage divider. 2,313,601; Mar. 9.
Thayer, Richard N., Cleveland Heights, Ohio, assignor to General Electric Company. Gaseous discharge lamp. 2,313,683; Mar. 9.
Thoma, Paul J. (See Erickson, D. R., and Thoma.)
Thomas, Charles L., assignor to Universal Oil Products Company, Chicago, Ill. Alkylation of paraffin hydrocarbons. 2,313,103; Mar. 9.
Thomas, David W., assignor to Youngstown Metal Products Company, Youngstown, Ohio. Ironing board. 2,313,181; Mar. 9.
Thomas, Richford A., Aberdeen, S. Dak. Apparatus for reconstructing fur coats. 2,313,374; Mar. 9.
Thompson, Albert R., Los Gatos, assignor to Food Machinery Corporation, San Jose, Calif. Cut string bean grader. 2,313,375; Mar. 9.
Thompson, Leland E., Merchantville, N. J., assignor to Radio Corporation of America. Variable selectivity control system. 2,313,182; Mar. 9.
Thompson, R. G. (See Smith, Clarence J., assignor.)
Thulin, Ivar V., Upper Darby, Pa. Knitting accessory. 2,313,684; Mar. 9.
Tiegtig, Chester, Covington, Ky. Process and apparatus for metallurgical reduction. 2,313,457; Mar. 9.
Todd Company, The. (See Smith, Burgess W., assignor.)
Toledo Scale Company. (See Bohanman, Robert S., assignor.)
Toledo Scale Company. (See Marshall, Charles O., assignor.)
Toy Tinkers, Inc., The. (See Pajeau, Charles H., assignor.)
Transcontinental Rubber Corporation. (See Loewengart, Justin, assignor.)
Traylor, John A., deceased, Denver, Colo., T. S. Traylor, E. T. Eisenhand, and J. B. Traylor, Denver, Colo., executors, and J. B. Traylor, Denver, Colo. Electromagnetic motor. 2,313,401; Mar. 9.
Traylor, John B. (See Traylor, John A. and John B.)
Traylor, John B., et al., executors. (See Traylor, John A.)
Traylor, Tessie S., et al., executors. (See Traylor, John A.)
Trbojevich, Nikola, Toledo, Ohio. Transmission and gear teeth. 2,313,183; Mar. 9.
Treadwell Engineering Company. (See Juppenlatz, John W., assignor.)
Trico Products Corporation. (See Horton, Erwin C., assignor.)
Truby, Harry A., New Kensington, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Glass and making the same. 2,313,685; Mar. 9.
Tucker, Irving, Merrick, N. Y. Combination head and neck covering device. 2,313,458; Mar. 9.
Tunke, Paul F., Ridgewood, N. Y. Therapeutic device. 2,313,282; Mar. 9.
Turbo-Mixer Corporation, The. (See MacLean, Gordon, assignor.)
Turechek, George F., assignor to Lane-Wells Company, Los Angeles, Calif. Bullet retainer means for gun perforators. 2,313,402; Mar. 9.
Udale, Stanley M., Detroit, Mich., assignor to G. M. Holley and E. Holley. Power control. 2,313,283; Mar. 9.
Ullman, Martin, New York, N. Y., assignor to Auburn Rubber Corporation, Auburn, Ind. Combination shipping and display container for toys, etc. 2,313,376; Mar. 9.
Ulrich, Carl F. (See Alling, E. R., and Ulrich.)
Underwood and Underwood, Washington, D. C., Inc. (See Rubel, Laurence E., assignor.)
Ungar, Gustave A., Pelham Manor, assignor to J. F. Keller, New York, N. Y. Gas separator for liquid dispensing apparatus. 2,313,403; Mar. 9.
Union-Baystate Co. (See Earle, Roland D., assignor.)
Union Carbide and Carbon Corporation. (See Jacobsson, Wilgot J., assignor.)
Union Oil Company of California. (See Flaxman, Marcellus T., assignor.)
Union Special Machine Company. (See Podgorny, John, assignor.)
United Shoe Machinery Corporation. (See Haas, Otto R., assignor.)
United Shoe Machinery Corporation. (See Ioannilli, J. R., and Dixon, assignors.)
United States Gypsum Company. (See Walker, S. P., and Schramm, assignors.)
United States Rubber Company. (See Clayton, William J., assignor.)
United States Rubber Company. (See Clayton, W. J., and Hoover, assignors.)
Universal Oil Products Company. (See Hoekstra, James, assignor.)
Universal Oil Products Company. (See Morrell, J. C., and Grosse, assignors.)
Universal Oil Products Company. (See Thomas, Charles L., assignor.)
Universal X-Ray Products, Inc. (See Heger, Joseph J., assignor.)
University of Louisville. (See Neiman, R., and Ernst, assignors, and Steinbock.)
Uremovich, Mark, Milwaukee, Wis. Saw guard. 2,313,686; Mar. 9.
Vacuum Air Pressure Company Limited, The. (See Bushby, David, assignor.)
Valensi, Georges, Paris, France; vested in the Alien Property Custodian. Communication system. 2,313,209; Mar. 9.
Valentine, Warren P., Yeadon, Pa. Pump valve. 2,313,284; Mar. 9.
Van Cleave, Edwin E., Chicago, Ill. Railway car hand brake. 2,313,602; Mar. 9.
Van Cleff Bros. (See Wood, Raymond E., assignor.)
Van Draneu, Willem N., De Bilt, Netherlands; vested in the Alien Property Custodian. Filter card. 2,313,304; Mar. 9.
Van Horn, Arthur H., Rocky River, assignor to Cornell Securities Corporation, Cleveland, Ohio. Closing ring. 2,313,459; Mar. 9.
Van Sittert, Paul, Shaker Heights, and A. J. Lev, Garfield Heights, assignors to The Cleveland Pneumatic Tool Company, Cleveland, Ohio. Nut setter. 2,313,603; Mar. 9.
Vickers, Harry F., assignor to Vickers Incorporated, Detroit, Mich. Power transmission. 2,313,404; Mar. 9.
Vickers, Harry F., assignor to Vickers Incorporated, Detroit, Mich. Power transmission. 2,313,405; Mar. 9.
Vickers, Harry F., assignor to Vickers Incorporated, Detroit, Mich. Power transmission. 2,313,406; Mar. 9.
Vickers, Harry F., and K. R. Herman, assignors to Vickers Incorporated, Detroit, Mich. Power transmission. 2,313,407; Mar. 9.
Vickers Incorporated. (See Vickers, Harry F., assignor.)
Vingee, Raymond A., Syracuse, and C. K. Lawrence, Baldwinsville, assignors to The Solvay Process Company, New York, N. Y. Electrolytic production of alkali metals. 2,313,408; Mar. 9.
Vinogradoff, Alexander. (See Brown, G. O., and Vinogradoff.)
Vittum, Paul W. (See Allen, C. F. H., and Vittum.)
Vogel, Joseph A., Wilmington, Del. Tree removing and transplanting apparatus. 2,313,604; Mar. 9.
Wadman, Walter V. (See Donovan, T. S., and Wadman.)
Wadsworth, Gordon, Chicago, Ill. Combination toilet preparations dispenser. 2,313,184; Mar. 9.
Wagner Electric Company. (See Schnell, Steve, assignor.)
Wagner Electric Corporation. (See Freeman, Walter R., assignor.)
Wahle, Otto, Prague, Czechoslovakia; vested in the Alien Property Custodian. Producing fabrics having weft threads. 2,313,305; Mar. 9.
Walker, Clinton L., Piedmont, Calif. Tennis ball trap. 2,313,409; Mar. 9.
Walker, Stephen P., Winnetka, and A. A. Schramm, assignors to United States Gypsum Company, Chicago, Ill. Ceiling structure. 2,313,687; Mar. 9.
Wallace, James M., North Braddock, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit interrupter. 2,313,185; Mar. 9.
Wallach, Roger N., Briarcliff Manor, N. Y., assignor to Sylvania Industrial Corporation, Fredericksburg, Va. Plied yarn and cords and producing the same. 2,313,104; Mar. 9.
Waller, George A., Mount Vernon, N. Y. Overload clutch. 2,313,708; Mar. 9.
Walls, Herbert L., Salt Lake City, Utah. Apparatus for tightening airplane propeller shaft thrust bearing nuts. 2,313,105; Mar. 9.
Walsh, Basil J. (See Hannay, W. H., and Walsh.)
Walther, Henry, Millburn, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Preparation of boron compositions. 2,313,410; Mar. 9.
Wannamaker, Thomas E., Orangeburg, S. C., assignor to Eastman Kodak Company, Rochester, N. Y. Treatment of N-monomethyl-p-aminophenol. 2,313,605; Mar. 9.
Wappner, Ralph C., and F. M. Osborne, assignors to The Ohio Thermometer Company, Springfield, Ohio. Thermometer. 2,313,688; Mar. 9.
Warmisham, Arthur, assignor to Kapella Limited, Leicester, England. Compound microscope and lens system therefor. 2,313,460; Mar. 9.
Wasberg, Axel, assignor to Chicago Railway Equipment Company, Chicago, Ill. Sliding door structure. 2,313,106; Mar. 9.

Waterman, Herbert C. (See Brace, K. P., and Waterman.)
Waters, Rex H., Akron, Ohio, assignors to Wingfoot Corporation, Wilmington, Del. Rubber press pad. 2,313,689; Mar. 9.
Watter, Michael, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Aircraft structure. 2,313,411; Mar. 9.
Webb, Venard C., and A. P. Sparks, Denver, Colo. Slat cleaner. 2,313,606; Mar. 9.
Weber, Guillaume, Mondorf-les-Bains, Luxembourg; vested in the Alien Property Custodian. Explosive load for mines. 2,313,210; Mar. 9.
Webster Electric Company. (See Dally, Roy, assignor.)
Weiss, Samuel, Portland, Oreg. Springless grease fitting. 2,313,377; Mar. 9.
Weissberger, Arnold. (See Salminen, I. F., Weissberger, and Glass.)
Weizmann, Charles. (See Jessup, Alfred C., assignor.)
Wells, Ira M., assignor to The Spears-Well Machinery Co., Inc., Oakland, Calif. Reversible traction broom. 2,313,412; Mar. 9.
Wertz, Louis S., Shaker Heights, Ohio. Composition for densifying porous masses and structures. 2,313,107; Mar. 9.
Wertz, Louis S., Cleveland, Ohio. Treating surfaces. 2,313,108; Mar. 9.
Wertz, Louis S., Cleveland, Ohio. Treating porous masses. 2,313,109; Mar. 9.
Wertz, Louis S., Cleveland, Ohio. Filling cavities. 2,313,110; Mar. 9.
Weske, John R., Hudson, Ohio. Axial flow fan. 2,313,413; Mar. 9.
Western Cartridge Company. (See Blais, Emilien, assignor.)
Western Electric Company. (See Brubaker, J. L., and Lengvenis, assignors.)
Western Electric Company. (See Edelman, Beril, assignor.)
Western Electric Company. (See Rinck, F. B., and Scott, assignors.)
Western Union Telegraph Company, The. (See Holcomb, Philo, Jr., assignor.)
Westinghouse Electric & Manufacturing Company. (See Bergvall, Royal C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Brubaker, Wilson M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Halfvarson, Gustaf A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Kaufmann, Werner, assignor.)
Westinghouse Electric & Manufacturing Company. (See Ludwig, L. R., and Baker, assignors.)
Westinghouse Electric & Manufacturing Company. (See Pierce, Lawrence, assignor.)
Westinghouse Electric & Manufacturing Company. (See Wallace, James M., assignor.)
Weston Electrical Instrument Corporation. (See Lamb, Francis X., assignor.)
Wheatley, George, assignor to The General Tire & Rubber Company, Akron, Ohio. Apparatus for retreading tires. 2,313,414; Mar. 9.
White Castle System, Inc. (See De Villers, Edmund J., assignor.)
White, Kenneth M., assignor to American Elevator & Machine Company, Louisville, Ky. Variable voltage elevator control. 2,313,607; Mar. 9.
White, Paul W., Waterbury, Conn., assignor to Parva Products Company, Chicago, Ill. Game. 2,313,701; Mar. 9.
White, Richard F., assignor to Mullins Manufacturing Corporation, Salem, Ohio. Corner base cabinet construction. 2,313,690; Mar. 9.
Whitfield, Ira, Boston, Mass. High-speed bolt diestock. 2,313,415; Mar. 9.
Whittenberger, Charles D., Akron, assignor to The American Fork & Hoe Company, Cleveland, Ohio. Broom rake. 2,313,691; Mar. 9.
Wiegand, David E., Zanesville, Ohio, assignor to Line Material Company, South Milwaukee, Wis. Making transformers. 2,313,306; Mar. 9.
Wiggam, David R., West Grove, Pa., assignor to Hercules Powder Company, Wilmington, Del. Phonograph record. 2,313,186; Mar. 9.
Wilbur, William K. (See Nelms, G. C., Coggeshall, Berry, and Wilbur.)
Wildt and Company Limited. (See Holmes, H. H., and Saunders, assignors.)
Wiles, Russell, assignor to Russell Wiles, Jr., Chicago, Ill. Wind indicator for rifle shooting. 2,313,608; Mar. 9.
Wiles, Russell, Jr. (See Wiles, Russell, assignor.)
Wilkinson, James W., Providence, R. I., assignor to Fram Corporation. Connector for sections of filter cartridges. 2,313,307; Mar. 9.
Williamson, Larkin R., assignor to E. W. Bliss Company, Brooklyn, N. Y. Clutch and brake system. 2,313,187; Mar. 9.
Willoughby, Lively B., assignor to Ballard & Ballard Company, Incorporated, Louisville, Ky. Article assembling and feeding machine. 2,313,706; Mar. 9.
Wilson, Allen B., Evanston, assignor to Acme Steel Company, Chicago, Ill. Venetian blind slat and method of and apparatus for forming the same. 2,313,111; Mar. 9.
Winer, Baruch, New York, N. Y. Multiphase continuous fat treating. 2,313,692; Mar. 9.
Wingfoot Corporation. (See Waters, Rex H., assignor.)
Winkelmann, Herbert A., assignor to Dryden Rubber Company, Chicago, Ill. Reclaiming neoprene. 2,313,693; Mar. 9.
Winter, Fred H. (See Ewing, S. C., and Winter.)
Wolcott, Frank E., West Hartford, Conn., assignor to The Silex Company. Beverage making device. 2,313,112; Mar. 9.
Wolf, Abraham, Brooklyn, assignor to Noma Electric Corporation, New York, N. Y. Illuminating device. 2,313,378; Mar. 9.
Wood Conversion Company. (See Jones, W. Bartlett, assignor.)
Wood, Raymond E., Downers Grove, assignor, by mesne assignments, to Van Cleef Bros., Chicago, Ill. Mounting means for electrically operated units. 2,313,379; Mar. 9.
Woodburn, Chester C., Des Moines, Iowa. Adjustable goal for basketball courts. 2,313,188; Mar. 9.
Wright, Charles F., Akron, Ohio, assignor to The Diamond Match Company, New York, N. Y. Cover feeding, scoring, and folding means for match booking machines. 2,313,609; Mar. 9.
Wright, John T., West Warren, Mass., assignor to The William E. Wright & Sons Company. Display box. 2,313,694; Mar. 9.
Wright, William E., & Sons Company. (See Wright, John T., assignor.)
Wyeth, Nathaniel C., Paterson, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Predetermining counter. 2,313,189; Mar. 9.
Yamashita, Shun-ichi, Kamikyoku, Kyoto, and T. Yoshizaki, Asahiku, Osaka, Japan, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y. Preparing amino-sulphonic acids substituted in the amino-group by acyl radicals of fatty acids. 2,313,695; Mar. 9.
Yard-Man, Inc. (See Funk, Truman B., assignor.)
Yates, John, assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Tea bag and making the same. 2,313,696; Mar. 9.
Young, Charles F., assignor to The Stewart Iron Works Company, Covington, Ky. Operating and indicating mechanism for jail doors. 2,313,416; Mar. 9.
Young, David W. (See Bousquet, L'R. G., and Young.)
Youngstown Metal Products Company. (See Thomas, David W., assignor.)
Yowell, Joseph W., Stratford, Conn., assignor to Manning, Maxwell & Moore, Incorporated, New York, N. Y. Pressure transmitter. 2,313,610; Mar. 9.
Yuba Manufacturing Company. (See Blanchard, Floyd M., assignor.)
Zalkind, Joseph, New York, N. Y. Sortable multiple form. 2,313,285; Mar. 9.
Zalkind, Philip, New York, N. Y. Drawer. 2,313,113; Mar. 9.
Zimmer, Elmer H., Toronto, Ontario, Canada. Safety switch. 2,313,380; Mar. 9.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 9TH DAY OF MARCH, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Detonator. S. B. Large and G. F. Rolland. Re. 22,285; Mar. 9.
Dyes, Azo. S. S. Rossander, D. E. Kvalnes, and C. E. Sparks. Re. 22,286; Mar. 9.
Sound attenuating device. R. B. Bourne. Re. 22,283; Mar. 9.
Sterilization process. C. L. Griffith and L. A. Hall. Re. 22,284; Mar. 9.
Water-soluble azo dyes from amino-aryloxy-acyl-diamines. C. E. Sparks and J. W. Libby, Jr. Re. 22,287; Mar. 9

LIST OF PLANT PATENTEES

Peach, Freestone. G. O. Dillon. 572; Mar. 9.
Plant, Blackberry. M. B. Crane. 571; Mar. 9.

LIST OF DESIGN INVENTIONS

Bag, Carrying. W. L. M. Clark. 135,218; Mar. 9.
Bed urinal. W. Bal and J. T. Simpson. 135,195; Mar. 9.
Belt or similar article, Lady's. E. Mynors. 135,206; Mar. 9.
Bottle, closure cap, and applicator, Combined. J. L. Younghusband. 135,236; Mar. 9.
Brooch or similar article. B. J. Hansen. 135,203; Mar. 9.
Brooch or similar article. A. Philippe. 135,188–91; Mar. 9.
Cabinet for etching tool, Power unit. C. J. Patche. 135,215–16; Mar. 9.
Cabinet, Illuminable make-up. M. J. Grady. 135,201; Mar. 9.
Casement for portholes or the like. R. W. Rowland. 135,208; Mar. 9.
Circulator, Air. M. Weber. 135,211; Mar. 9.
Containers for cologne bottle or similar article. J. D. Buckingham. 135,220; Mar. 9.
Doll or similar article, Stuffed. J. Weiss. 135,212; Mar. 9.
Dress. J. L. Asteroff. 135,229; Mar. 9.
Dress. B. Cashin. 135,226; Mar. 9.
Dress. B. Cashin. 135,230–1; Mar. 9.
Dress. L. C. Hawxhurst. 135,184; Mar. 9.
Dress. B. Moye. 135,233; Mar. 9.
Dress. S. Zahn. 135,234; Mar. 9.
Drier, Sweater. D. C. Grant. 135,199; Mar. 9.
Extractor, Fruit juice. C. M. Payne and J. M. Majewski, Jr. 135,207; Mar. 9.
Figurine or similar article. E. C. and C. J. Collopy. 135,227; Mar. 9.
Flashlight or similar article. L. Brodton. 135,225. Mar. 9.
Frame or similar article, Lapel picture. I. Hordes. 135,204; Mar. 9.
Goggle. L. A. Severy. 135,192; Mar. 9.
Handbag. D. E. Everitt. 135,197; Mar. 9.
Handkerchief or similar article. T. J. Brown. 135,196; Mar. 9.
Hat. B. J. Goldenberg. 135,232; Mar. 9.
Heater, Water. R. J. Wolf and J. G. Dunville. 135,224; Mar. 9.
Hinge, Toilet seat. M. V. Slager. 135,228; Mar. 9.
Holder or similar article, Cutlery. A. P. Miller. 135,185–6; Mar. 9.
Jacket. S. Zahn. 135,235; Mar. 9.
Lace, Embroidered. J. Wiener. 135,214; Mar. 9.
Lamp. L. H. Elder. 135,219; Mar. 9.
Light fixture, Fluorescent electric. J. G. Clark. 135,217; Mar. 9.
Plaque. A. Shirlin. 135,209; Mar. 9.
Plaque, Service. C. W. Hellberg. 135,221; Mar. 9.
Plate for a leveling instrument, Face. S. Aronoff. 135,194; Mar. 9.
Ring. J. Simmons. 135,223; Mar. 9.
Ring, Finger. A. Parisi. 135,222; Mar. 9.
Scarf or similar article, Table. R. C. Oppenheim. 135,187; Mar. 9.
Shoe. H. L. Suteliffe. 135,193; Mar. 9.
Stand, Display. D. A. McCowan. 135,205; Mar. 9.
Stand, Smoking. M. J. Fletcher. 135,198; Mar. 9.
Toy animal. K. R. Geis. 135,200; Mar. 9.
Trimming, Embroidered. J. Goldfrank. 135,182–3; Mar. 9.
Water still. W. Van Guilder. 135,202; Mar. 9.
Weeder head. E. P. Sokolis. 135,210; Mar. 9.
Wreath and the like, Christmas. C. S. Price. 135,213; Mar. 9.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 9TH DAY OF MARCH, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Acetic acid in aqueous solutions, Concentration and extraction of. J. Lévesque. 2,313,386; Mar. 9.
Acid. Manufacture of sulphuric. J. V. Shinn. 2,313,677; Mar. 9.
Acids, Fractionation of free fatty. S. E. Freeman. 2,313,636; Mar. 9.
Adhesive. B. F. Adams. 2,313,114; Mar. 9.
Adhesive composition and making the same. R. D. Earle. 2,313,039; Mar. 9.
Adjustable support. G. E. Allen, L. A. Metz and F. C. Sharpe. 2,313,115; Mar. 9.
Aircraft. T. M. Leka. 2,313,477; Mar. 9.
Aircraft structure. M. Watter. 2,313,411; Mar. 9.
Alcohols from olefin hydration products, Recovery of. H. M. Guinot. 2,313,196; Mar. 9.
Alloy; *See*—
Ferrous alloy.
Altitude controlled pressure regulator. W. J. Jacobsson. 2,313,149; Mar. 9.
Amino-sulphonic acids substituted in the amino-group by acyl radicals of fatty acids Preparing. S-i Yamishita and T. Yoshizaki. 2,313,695; Mar. 9.
Amplifier. W. M. Brubaker. 2,313,122; Mar. 9.
Ampoule. A. E. Smith. 2,313,483; Mar. 9.
Amusement device. H. Bascom. 2,313,313; Mar. 9.
Anchor, Wall. W. Dinnes. 2,313,522; Mar. 9.
Antenna. G. H. Brown. 2,313,513; Mar. 9.
Antenna. W. L. Carlson and W. H. Conron. 2,313,321; Mar. 9.
Antenna for vehicles, Adjustable. H. J. Lyman. 2,313,652; Mar. 9.
Anti-cryptogamic colloidal solutions, bactericides, and insecticides, Preparation and use of. P. Bary. 2,313,190; Mar. 9.
Antislipping device. E. F. Block. 2,313,316; Mar. 9.
Apparatus for and method of continuously cooking starch. C. F. Payne. 2,313,574; Mar. 9.
Apparatus for ascertaining sighting and firing errors in gunnery practice. F. E. Fischer. 2,313,136; Mar. 9.
Apparatus for black-leading electrotype molds. G. W. Bungay. 2,313,622; Mar. 9.
Apparatus for controlling the condition of operation of vehicles or the like. H. S. Benjamin. 2,313,505; Mar. 9.
Apparatus for examining quartz. P. D. Gerber. 2,313,143; Mar. 9.
Apparatus for feeding mercury. A. J. Marshaus. 2,313,657; Mar. 9.
Apparatus for making brooms. H. Cave. 2,313,037; Mar. 9.
Apparatus for making rayon cakes. H. Rubenstein. 2,313,267; Mar. 9.
Apparatus for making variegated ice creams or similar substance. A. Friedman. 2,313,060; Mar. 9.
Apparatus for reconstructing fur coats. R. A. Thomas. 2,313,374; Mar. 9.
Apparatus for retreading tires. G. Wheatley. 2,313,414; Mar. 9.
Apparatus for splitting, spreading, and flattening pipe. A. C. Allen. 2,313,702; Mar. 9.
Apparatus for submarines, Safety. L. Y. Booharin. 2,313,461; Mar. 9.
Apparatus for testing the density of thread packages. E. B. Grover. 2,313,336; Mar. 9.
Apparatus for the handling and developing of motion picture films. C. Bryant. 2,313,319; Mar. 9.
Apparatus for the manufacture of rayon. W. H. Furness. 2,313,140; Mar. 9.
Apparatus for tightening airplane propeller shaft thrust bearing nuts. H. L. Walls. 2,313,105; Mar. 9.
Apparatus for training pilots, navigators, and like aircraft personnel. G. H. Reid. 2,313,480; Mar. 9.
Apparatus for transforming oscillations. J. Bethenod and Y. Rocard. 2,313,290; Mar. 9.
Apparatus for treating fur. R. H. Plass. 2,313,578; Mar. 9.
Apparatus for treating liquids with gases. G. MacLean. 2,313,654; Mar. 9.
Apparatus for welding. H. W. Mitchell. 2,313,393; Mar. 9.
Apparel, Wearing. D. Cuttler. 2,313,519; Mar. 9.
Aqueous dispersions of ethylene polymer, Production of. A. S. Comm. 2,313,144; Mar. 9.
Arch supports, Making. W. E. Blackburn. 2,313,314; Mar. 9.
Article assembling and feeding machine. L. B. Willoughby. 2,313,706; Mar. 9.
Article forming apparatus. B. Edelman. 2,313,525; Mar. 9.
Article turning machine. J. B. Hampton. 2,313,544; Mar. 9.
Articles in gold colors and the product thereof, Decoratively coloring. J. E. Starcck. 2,313,455; Mar. 9.
Ash deflecting baffle. L. J. Marshall. 2,313,251; Mar. 9.
Asphalt composition. S. S. Sorem and A. P. Anderson. 2,313,596; Mar. 9.
Assembling machine. J. R. Ioannilli and P. H. Dixon. 2,313,148; Mar. 9.
Assembly for the blades of variable pitch airscrews. P. P. and R. J. Ratié. 2,313,301; Mar. 9.
Atomizer. K. L. Martin and E. A. Holden. 2,313,298; Mar. 9.
Attachment for harvesting implements, Pickup. T. B. Roberts and B. E. Davenport. 2,313,670; Mar. 9.
Automobile signal. H. G. Clifton. 2,313,222; Mar. 9.
Axles, Making tubular. D. E. Babcock. 2,313,116; Mar. 9.
Bag; *See*—
Luggage bag.
Bag holder. C. Larson. 2,313,077; Mar. 9.
Bag-making and label inserting machine and method. R. C. Golden. 2,313,433; Mar. 9.
Bar hanger. C. J. Smith. 2,313,594; Mar. 9.
Barrel, Plywood. C. B. Arnold. 2,313,309; Mar. 9.
Bathtub with contained shower curtain. S. E. Dalton, Jr. 2,313,421; Mar. 9.
Beam connecting unit. S. D. Szego. 2,313,280; Mar. 9.
Bell call device, Visible. L. J. Levine. 2,313,560; Mar. 9.
Bench, Saw. O. Bray. 2,313,617; Mar. 9.
Benzene fractions, Distillation of. R. B. Greenburg. 2,313,528; Mar. 9.
Benzene fractions with butyraldehyde, Distillation of. R. B. Greenburg. 2,313,536; Mar. 9.
Beverage making device. F. E. Wolcott. 2,313,112; Mar. 9.
Binder, Loose-leaf. A. G. Lotter. 2,313,713; Mar. 9.
Bite registering device. E. C. Glitzke. 2,313,535; Mar. 9.
Black-out device. R. W. P. Mittag. 2,313,659; Mar. 9.
Blanket, Highly resistant hectograph. W. J. Champion. 2,313,124; Mar. 9.
Blasting machine. J. Stuart, II. 2,313,101; Mar. 9.
Block; *See*—
Safety block. Toy construction block.
Blowout preventer and valve. R. B. Sprague. 2,313,177; Mar. 9.
Board; *See*—
Ironing board.
Boiler drop plug. G. McCormick and F. E. Russell 2,313,449; Mar. 9.
Boron compositions, Preparation of. H. Walther. 2,313,410; Mar. 9.
Bottle case. G. Mordy. 2,313,355; Mar. 9.
Box; *See*—
Display box.
Box stacking and conveying mechanism. A. Neja. 2,313,478; Mar. 9.
Brake; *See*—
Railway car hand brake.
Brake. F. C. Frank. 2,313,223; Mar. 9.
Brake. R. A. Goepfrich. 2,313,431–2; Mar. 9.
Brake control mechanism. W. R. Freeman. 2,313,232; Mar. 9.
Brake control mechanism. R. A. Goepfrich. 2,313,430; Mar. 9.
Brine tank. J. Lithgow and L. K. Jackson. 2,313,080;
Broadcasting system. J. F. Byrne. 2,313,048; Mar. 9.
Broom, Reversible traction. I. M. Wells. 2,313,412; Mar. 9.
Brush, Quill. J. M. Schultz. 2,313,675; Mar. 9.
Bullet retainer means for gun perforators. G. F. Turechek. 2,313,402; Mar. 9.
Buoyancy system. J. Hérail and R. Gauthier. 2,313,295; Mar. 9.
Butadiene copolymers, Preparation of. C. F. Fryling. 2,313,233; Mar. 9.
Cabinet; *See*—
Hectograph roll cabinet. Refrigerated cabinet.
Cabinet construction. Corner base. R. F. White. 2,313,690; Mar. 9.
Cable markers, Producing. O. Dale. 2,313,465; Mar. 9.
Cam track, Adjustable. J. W. Neff. 2,313,477; Mar. 9.
Can; *See*—
Key-opening can.
Cap-forming machine, Paper. E. J. De Villers. 2,313,628; Mar. 9.
Capillary-active composition. H. A. Bruson. 2,313,621; Mar. 9.

Capillary active compounds and preparing them. L. Orthner, C. Platz, H. Keller, and H. Sönke. 2,313,573; Mar. 9.
Car; *See*—
Refrigerator car.
Car stop. A. H. Genter. 2,313,334; Mar. 9.
Carburetor. W. Schwier. 2,313,366; Mar. 9.
Carburetor, Two-stage. E. Olson. 2,313,258; Mar. 9.
Card, Filter. W. N. van Dranen. 2,313,304; Mar. 9.
Carrying fixture. R. H. Johansen. 2,313,553; Mar. 9.
Carton blank for chairs, Shipping. D. Rous. 2,313,362; Mar. 9.
Case; *See*—
Bottle case. Key case.
Cigarette case. Tripod carrying case.
Casing head. H. Allen. 2,313,308; Mar. 9.
Catalyst and preparation thereof. M. de Simó, F. M. McMillan, and H. A. Cheney. 2,313,053; Mar. 9.
Catalytic conversion of hydrocarbon oils. W. Kaplan. 2,313,346; Mar. 9.
Cavities, Filling. L. S. Wertz. 2,313,110; Mar. 9.
Ceiling structure. S. P. Walker and A. A. Schramm. 2,313,687; Mar. 9.
Cellulose sheets, Making. E. Czapek. 2,313,520; Mar. 9
Chair. L. Larsen and E. P. Klar. 2,313,559; Mar. 9.
Character and amount printing mechanism, Special. H. E. Brown. 2,313,418; Mar. 9.
Chemical product and producing same. A. E. Becker. 2,313,117; Mar. 9.
Chloranthraquinones and making them. P. Kränzlein. 2,313,155; Mar. 9.
Chocolate tempering apparatus. G. Jack. 2,313,705; Mar. 9.
Chrome yellow. H. E. Bruce. 2,313,619; Mar. 9.
Chuck for grooving and surfacing machines. W. H. Haynes. 2,313,640; Mar. 9.
Cigarette case. H. Glenn. 2,313,428; Mar. 9.
Cinematograph. T. J. Morgan and A. S. Dearborn. 2,313,663; Mar. 9.
Circuit; *See*—
Control circuit. Logarithmic instrument circuit.
Electric circuit.
Electro-optical color reproduction circuit.
Circuit breaker for high voltage. H. A. H. Nijland. 2,313,571; Mar. 9.
Circuit breaker system, Automatic reclosing. W. Kaufmann. 2,313,153; Mar. 9.
Circuit controller. N. C. Schellenger. 2,313,291; Mar. 9.
Circuit interrupter. L. R. Ludwig and B. P. Baker. 2,313,159; Mar. 9.
Circuit interrupter. J. M. Wallace. 2,313,185; Mar. 9.
Circuit interrupter, Enclosed. L. Pierce. 2,313,170; Mar. 9.
Circuit interrupter, Thermal. E. H. Taylor. 2,313,281; Mar. 9.
Circular weaving loom. H. Pelce. 2,313,300; Mar. 9.
Circulator, Air. D. F. Jones and J. W. Miller. 2,313,555; Mar. 9.
Clamp; *See*—
Skin clamp.
Clamping device and punch, Hydraulic. F. H. Kvapil. 2,313,348; Mar. 9.
Clasp, Safety cord. E. Rodriguez. 2,313,397; Mar. 9.
Cleaner; *See*—
Condenser tube cleaner. Slat cleaner.
Sewer and pipe cleaner. Window cleaner.
Cleaning machine, Dry. E. Davis. 2,313,225; Mar. 9.
Clip; *See*—
Locking clip.
Closing ring. A. H. Van Horn. 2,313,459; Mar. 9.
Clutch; *See*—
Fluid drive clutch. Overload clutch.
Clutch and brake system. L. R. Williamson. 2,313,187; Mar. 9.
Clutch for cinematographs, One-way. T. J. Morgan and A. S. Dearborn. 2,313,662; Mar. 9.
Clutch mechanism. R. N. Richards. 2,313,361; Mar. 9.
Coat, Man's drape. L. Natale. 2,313,665; Mar. 9.
Coatings exhibiting patterns or designs, and product, Producing decorative. J. E. Starcck. 2,313,456; Mar. 9.
Coconut retting method. B. Maisant. 2,313,297; Mar. 9.
Coin-operated ink vending apparatus for fountain pens. A. Fudem. 2,313,293; Mar. 9.
Collimator. J. Morelle. 2,313,204; Mar. 9.
Color concentrate. G. Klinkenstein, F. Dannerth, and C. Frey. 2,313,976; Mar. 9.
Combination fence tool. H. D. Feigion. 2,313,530; Mar. 9.
Combustion apparatus. J. W. Miller. 2,313,568; Mar. 9.
Combustion control. J. L. Harris. 2,313,340; Mar. 9.
Communication system. G. Valensi. 2,313,209; Mar. 9.
Compartment door latch. E. N. Jacobi. 2,313,711–12; Mar. 9.
Compass system. A. A. Stuart, Jr. 2,313,682; Mar. 9.
Compensating device for steam or like pipings. E. Lauffer. 2,313,490; Mar. 9.
Compensator for automatic firearms. E. G. Reising. 2,313,669; Mar. 9.
Composition for densifying porous masses and structures. L. S. Wertz. 2,313,107; Mar. 9.
Compound microscope and lens system therefor. A. Warmisham. 2,313,460; Mar. 9.
Concrete structures, Molding. N. R. Steensen. 2,313,207; Mar. 9.
Condensation product and its production, Maleic anhydride-tar base. S. P. Miller. 2,313,392; Mar. 9.
Condenser; *See*—
Electrostatic condenser. Vernier condenser.
Condenser tube cleaner. T. J. Bay. 2,313,042; Mar. 9.
Condensing method. D. K. Dean. 2,313,052; Mar. 9.
Condition control. E. D. Lilja. 2,313,079; Mar. 9.
Connector for sections of filter cartridges. J. W. Wilkinson. 2,313,307; Mar. 9.
Container; *See*—
Fluid dispensing container. Sheet metal container.
Container. R. D. Freeman. 2,313,059; Mar. 9.
Container for vacuum cleaners. H. E. Dodd. 2,313,423; Mar. 9.
Containers, Drying of hollow. E. R. Alling and C. F. Ulrich. 2,313,040; Mar. 9.
Control circuit. H. M. Huge. 2,313,440; Mar. 9.
Control system. S. C. Ewing and F. H. Winter. 2,313,528; Mar. 9.
Control system, Variable selectivity. L. E. Thompson. 2,313,182; Mar. 9.
Conveyer, Traveling work. G. O. Driesbach and R. C. Rabin. 2,313,524; Mar. 9.
Core drilling device. R. A. Phillips and M. L. Clopton. 2,313,576; Mar. 9.
Counter, Predetermining. N. C. Wyeth. 2,313,189; Mar. 9.
Coupling; *See*—
Resilient coupling.
Coupling means for dollys, trailers, and the like. C. D. Grove. 2,313,235; Mar. 9.
Cover; *See*—
Crib cover. Toilet seat cover.
Cover feeding, scoring, and folding means for match booking machines. C. F. Wright. 2,313,609; Mar. 9.
Cream separator. J. and A. Persoons. 2,313,260; Mar. 9.
Crib cover. J. Gurke. 2,313,337; Mar. 9.
Crystal pickup unit. R. Dally. 2,313,324; Mar. 9.
Cup retainer, Packing. S. Schnell. 2,313,271; Mar. 9.
Current collecting device. M. J. Baldwin. 2,313,502; Mar. 9.
Cushion for vehicles, furniture, and the like, Floating motion. J. M. Dorton. 2,313,130; Mar. 9.
Cyanoacetyl couplers. C. F. H. Allen and P. W. Vittum. 2,313,498; Mar. 9.
Cylinder, Compound master. S. Schnell. 2,313,273–4; Mar. 9.
Decoy. J. H. Mills. 2,313,353; Mar. 9.
Designs onto rubber articles, Applying colored. J. Loewengart. 2,313,650; Mar. 9.
Desk, Table-top. S. M. Cooledge. 2,313,050; Mar. 9.
Detachable footwear pad. C. and E. Mayer. 2,313,252; Mar. 9.
Device for automatically indicating breakdown in kiln conveyors. V. Granditz. 2,313,638; Mar. 9.
Device for smokers' pipes. E. J. Jacob. 2,313,343; Mar. 9.
Device for viewing transparencies. L. E. Rubel. 2,313,453; Mar. 9.
Dielectric for electrostatic condensers. S. Ruben. 2,313,093; Mar. 9.
Diestock, High-speed bolt. I. Whitfield. 2,313,415; Mar. 9.
Differential pump. A. Sobek. 2,313,302; Mar. 9.
Direction finding system. H. G. Busignies and A. G. Richardson. 2,313,047; Mar. 9.
Dispenser; *See*—
Stick dispenser.
Toilet preparations dispenser.
Dispenser for carbonated beverages. C. L. Daun. 2,313,226; Mar. 9.
Dispensing container construction. W. F. Straub. 2,313,278; Mar. 9.
Display box. J. T. Wright. 2,313,694; Mar. 9.
Display device. A. C. Garratt. 2,313,141; Mar. 9.
Display stand for tobacco pipes. O. Brunner. 2,313,620; Mar. 9.
Distillation apparatus. K. C. D. Hickman. 2,313,546; Mar. 9.
Door control mechanism. R. U. Schneider. 2,313,095; Mar. 9.
Door structure. G. L. Rees. 2,313,582; Mar. 9.
Door structure, Sliding. A. Wasberg. 2,313,106; Mar. 9.
Drawer. P. Zalkind. 2,313,113; Mar. 9.
Drill grinding device. V. N. Hoerst. 2,313,641; Mar. 9.
Drilling and boring machine. A. C. Clayton. 2,313,624; Mar. 9.
Drive for the spindles of machine tools. A. A. Bailly. 2,313,287; Mar. 9.
Driving mechanism for centrifugal compressors, Two-speed. H. C. A. Potez. 2,313,205; Mar. 9.
Drop plug. R. N. Miller. 2,313,255; Mar. 9.
Dual wave generator. C. K. Gieringer. 2,313,427; Mar. 9.
Earth handling machine and berm finisher. D. S. Hoover. 2,313,342; Mar. 9.
Earth mover and bulldozer, Combination. E. C. Gledhill. 2,313,534; Mar. 9.
Electric circuit. M. A. Edwards. 2,313,526; Mar. 9
Electric circuit breaker, Gas blast. W. K. Rankin. 2,313,580; Mar. 9.

Electric clock system. O. H. Dicke. 2,313,466; Mar. 9.
Electric discharge apparatus. L. R. Peters. 2,313,575; Mar. 9.
Electric fan. L. Rendano. 2,313,481; Mar. 9.
Electric forging apparatus. W. F. Heineman. 2,313,068; Mar. 9.
Electric forming apparatus. W. C. Heath. 2,313,067; Mar. 9.
Electric furnace for melting glass. E. V. Borel. 2,313,217; Mar. 9.
Electric fuse. E. V. Sundt. 2,313,373; Mar. 9.
Electric heating apparatus for all applications. J. Lobstein. 2,313,492; Mar. 9.
Electric timeswitch. N. Munthesen. 2,313,569; Mar. 9.
Electric wiring unit, Multiple conductor. J. F. O'Brien. 2,313,452; Mar. 9.
Electrical measuring instrument. C. Midworth. 2,313,352; Mar. 9.
Electrical precipitator. A. F. Meston. 2,313,389; Mar. 9.
Electrical protective distribution system. R. C. Bergvall. 2,313,118; Mar. 9.
Electrical socket. M. Alden. 2,313,212; Mar. 9.
Electrodeposition of cuprous oxides and baths therefor. J. E. Stareck. 2,313,454; Mar. 9.
Electrodeposition of lead. J. R. Stack. 2,313,372; Mar. 9.
Electrodeposition of tin and its alloys. J. R. Stack. 2,313,371; Mar. 9.
Electrolytic production of alkali metals. R. A. Vingee and C. K. Lawrence. 2,313,408; Mar. 9.
Electro-optical color reproduction circuit. V. C. Hall and J. G. Streiffert. 2,313,542; Mar. 9.
Electro-optical system. V. C. Hall. 2,313,543; Mar. 9.
Electrolytic zinc dust process. W. H. Hannay and B. J. Walsh. 2,313,338; Mar. 9.
Electromagnetic motor. J. A. and J. B. Traylor. 2,313,401; Mar. 9.
Electrostatic condenser. S. Ruben. 2,313,094; Mar. 9.
Elevator control, Variable voltage. K. M. White. 2,313,607; Mar. 9.
Elevator link. G. D. Johnson. 2,313,243; Mar. 9.
Engine starter gearing. T. B. Martin. 2,313,656; Mar. 9.
Evaporator unit. E. E. Allyne. 2,313,499; Mar. 9.
Explosive load for mines. G. Weber. 2,313,210; Mar. 9.
Extractor: *See*—
Fruit juice extractor.
Fabric: *See*—
Knitted fabric. Wire fabric.
Fabric treatment. G. Schneider, J. E. Bludworth, and C. M. Croft. 2,313,173; Mar. 9.
Fabrics having weft threads, Producing. O. Wahle. 2,313,305; Mar. 9.
Fan, Axial flow. J. R. Weske. 2,313,413; Mar. 9.
Fastener: *See*—
Sliding clasp fastener.
Fat treating, Multiphase continuous. B. Winer. 2,313,692; Mar. 9.
Feed. H. H. Schopmeyer. 2,313,275; Mar. 9.
Feed mechanism. R. E. Price, H. E. Balsiger, and M. A. Hollengreen. 2,313,479; Mar. 9.
Feeding apparatus for plastic material. W. H. Emerson and W. C. Denison, Jr. 2,313,056; Mar. 9.
Ferrous alloy. A. T. Cape. 2,313,420; Mar. 9.
Fiber or filament of glass. A. Lamesch. 2,313,296; Mar. 9.
Film having a silver sound track, Production of color. J. Eggert and H. F. Nissen. 2,313,632; Mar. 9.
Filter. S. Alsop. 2,313,612; Mar. 9.
Filtering strainer. L. J. Hois. 2,313,237; Mar. 9.
Finger sponge device. N. Mandalon. 2,313,563; Mar. 9.
Fireplace screen. P. Adams. 2,313,496; Mar. 9.
Fishing bait or lure. M. S. Dunkelberger. 2,313,709; Mar. 9.
Fish lure. R. E. Nungesser. 2,313,572; Mar. 9.
Fishing reel. A. G. Garzo. 2,313,470; Mar. 9.
Flashlight attachment. F. M. New. 2,313,356; Mar. 9.
Flight attachment. C. C. Ottoson. 2,313,259; Mar. 9.
Floor protection for railway cars. K. F. Nystrom. 2,313,167; Mar. 9.
Fluid control valve. U. G. Densten. 2,313,128; Mar. 9.
Fluid control valve. F. G. Manly. 2,313,564; Mar. 9.
Fluid dispensing container. H. E. Bulling. 2,313,219; Mar. 9.
Fluid distribution and collection system. G. C. Morgan. 2,313,256; Mar. 9.
Fluid drive clutch. F. W. Headley. 2,313,435; Mar. 9.
Fluid operated gear shifting mechanism. W. G. Hoelscher. 2,313,438; Mar. 9.
Fluid pressure device. C. M. Kendrick and I. A. Kazine. 2,313,075; Mar. 9.
Fluid pressure device. C. M. Kendrick and I. A. Kazine. 2,313,246; Mar. 9.
Fog inhibitor for photographic emulsions. G. E. Fallesen and J. A. Leermakers. 2,313,529; Mar. 9.
Forced vortex balancing apparatus. R. M. Hvid. 2,313,644; Mar. 9.
Fork for citrus fruits, Holding. R. Polk, Sr., and R. Polk, Jr. 2,313,714; Mar. 9.
Formation tester. L. Spencer. 2,313,369; Mar. 9.
Foundry mold insert and making castings. S. L. Cameron. 2,313,517; Mar. 9.
Fruit handling equipment. F. W. Cutler. 2,313,051; Mar. 9.
Fruit juice extractor. G. O. Brown and A. Vinogradoff. 2,313,318; Mar. 9.
Fuel control for oil burners. D. F. Jones. 2,313,554; Mar. 9.
Fuel supply system. F. C. Reggio. 2,313,264; Mar. 9.
Furnace: *See*—
Radiating furnace. Reheating furnace.
Fuse construction. W. O. Schultz. 2,313,364–5; Mar. 9.
Fused feeder tap. A. H. Genter. 2,313,333; Mar. 9.
Game. M. Szatrow. 2,313,303; Mar. 9.
Game. P. W. White. 2,313,701; Mar. 9.
Game device. W. A. Heacock, H. B. Swift, and W. Spyker. 2,313,473; Mar. 9.
Garment, Maternity. B. Smink. 2,313,399; Mar. 9.
Gas lift device for wells. G. A. Hatfield. 2,313,066; Mar. 9.
Gas meter. W. L. Brown. 2,313,515; Mar. 9.
Gas reactions at high temperatures, Carrying out endothermic. W. Linder. 2,313,157; Mar. 9.
Gas separator for liquid dispensing apparatus. G. A. Ungar. 2,313,403; Mar. 9.
Gaseous discharge lamp. L. B. Johnson. 2,313,646; Mar. 9.
Gaseous discharge lamp. R. N. Thayer. 2,313,683; Mar. 9.
Gasoline, Manufacture of high octane. C. W. Montgomery. 2,313,660; Mar. 9.
Gear speed reducer and the like. F. N. Hoge. 2,313,548; Mar. 9.
Gears, particularly helical gears, Examining of. D. Ernst. 2,313,133; Mar. 9.
Generator: *See*—
Dual wave generator. Steam generator.
Generator and modulator, Oscillation. A. D'A. Hodgson. 2,313,071; Mar. 9.
Glass and making the same. H. A. Truby. 2,313,685; Mar. 9.
Glass cleaning composition. M. T. Flaxman. 2,313,425; Mar. 9.
Glass fibers, Method and apparatus for producing. S. M. Dockerty. 2,313,630; Mar. 9.
Glass plates, Grinding. P. E. M. J. Mols. 2,313,493; Mar. 9.
Glass plates, Manufacture of. R. R. McGregor. 2,313,566; Mar. 9.
Glass ribbon in fourcault machines, Cooling. R. Tanberg. 2,313,495; Mar. 9.
Goal for basketball courts, Adjustable. C. C. Woodburn. 2,313,188; Mar. 9.
Grader, Cut string bean. A. R. Thompson. 2,313,375; Mar. 9.
Grain separator catch and return device. H. L. Johnson. 2,313,150; Mar. 9.
Grease fitting, Springless. S. Weiss. 2,313,377; Mar. 9.
Grinding tool dresser. G. A. De Vlieg. 2,313,055; Mar. 9.
Guard, Saw. M. Uremovich. 2,313,686; Mar. 9.
Hanger: *See*—
Bar hanger.
Hardware for concrete forms. R. L. Geer. 2,313,637; Mar. 9.
Hat construction. E. J. King. 2,313,381; Mar. 9.
Hat machine. F. F. Dow. 2,313,038; Mar. 9.
Head and neck covering device, Combination. I. Tucker. 2,313,458; Mar. 9.
Heat exchange. F. Ljungström. 2,313,081; Mar. 9.
Heat exchanger, Composite soldered. E. Blais. 2,313,315; Mar. 9.
Heating system, Reverse cycle. A. B. Newton. 2,313,390; Mar. 9.
Hectograph roll cabinet. J. H. Tathwell. 2,313,180; Mar. 9.
High density press. S. Taylor. 2,313,102; Mar. 9.
High efficiency reflector or searchlight. M. Décalion. 2,313,192; Mar. 9.
Holder: *See*—
Bag holder.
Holder for welding rods. A. H. Erickson. 2,313,327; Mar. 9.
Honing tool. J. E. Kline. 2,313,442; Mar. 9.
Hose, Producing flexible metal. K. H. Evert. 2,313,329; Mar. 9.
Hose reel. O. Krenke. 2,313,557; Mar. 9.
Humidifying means. W. E. Baier. 2,313,041; Mar. 9.
Humous product. E. F. Grether. 2,313,434; Mar. 9.
Hydraulic control mechanism. J. H. Pratt, G. E. Manley, and A. H. G. Girling. 2,313,359; Mar. 9.
Hydrocarbons, Catalytic isomerization of saturated. M. de Simó, F. M. McMillan and H. A. Cheney. 2,313,054; Mar. 9.
Hydrocarbons, Treatment of. J. C. Morrell and A. V. Grosse. 2,313,162; Mar. 9.
Hydroxynaphthoic acid amide coupler. I. F. Salminen, A. Weissberger, and D. B. Glass. 2,313,586; Mar. 9.
Ice creeper. H. N. Smith. 2,313,099; Mar. 9.
Illuminating device. A. Wolf. 2,313,378; Mar. 9.
Illuminating means. L. F. Berg. 2,313,506; Mar. 9.
Impulse neutralizer. R. R. R. Sarazin. 2,313,206; Mar. 9.
Inclination and directional device for boreholes. W. J. Opocensky. 2,313,168; Mar. 9.
Indicator: *See*—
Thermoelectric indicator.
Indicator for rifle shooting, Wind. R. Wiles. 2,313,608; Mar. 9.

Inflation apparatus. F. F. Bierlee. 2,313,215; Mar. 9.
Ink, Printing. D. R. Erickson and P. J. Thoma. 2,313,328; Mar. 9.
Intermittent movement assembly. K. Brenkert. 2,313,317; Mar. 9.
Investment composition. R. Neiman, R. C. Ernst, and E. A. Steinbock. 2,313,085–6; Mar. 9.
Iron: *See*—
Steam hand iron.
Iron phytate, Making. H. H. Schopmeyer and G. V Sharps. 2,313,276; Mar. 9.
Ironing board. H. B. Fay. 2,313,135; Mar. 9.
Ironing board. D. W. Thomas. 2,313,181; Mar. 9.
Ironing machine control. J. A. Castricone. 2,313,123; Mar. 9.
Jacket, Life. J. H. Johnson. 2,313,151; Mar. 9.
Joint: *See*—
Steam joint. Universal joint.
Toggle joint.
Key case. B. Stiller. 2,313,485; Mar. 9.
Key for dispensing apparatus, Registering. S. Esgró. 2,313,424; Mar. 9.
Key-opening can. N. J. Haustrup. 2,313,198; Mar. 9.
Knife, Furrier's. H. Stock. 2,313,598; Mar. 9.
Knitted fabric. O. Fregcolle. 2,313,332; Mar. 9.
Knitted fabric. R. H. Lawson. 2,313,446; Mar. 9.
Knitting accessory. I. V. Thulin. 2,313,684; Mar. 9.
Ladder. G. L. Forsman. 2,313,469; Mar. 9.
Lamp: *See*—
Gaseous discharge lamp. Mine lamp.
Latch: *See*—
Compartment door latch.
Lathe. P. Boillat. 2,313,613; Mar. 9.
Lighting fixture. P. I. Elias. 2,313,131; Mar. 9.
Line justifying device. S. Brand. 2,313,119; Mar. 9.
Liquid cooling device. W. S. Parr and M. F. Peters. 2,313,087; Mar. 9.
Liquid dispensing nozzle. H. M. Groomes. 2,313,539; Mar. 9.
Liquid hydrocarbons from well fluids, Recovery of. E. H Steedman. 2,313,681; Mar. 9.
Liquids sheltered from air, Process and device for storing. G. S. Cantacuzene. 2,313,191; Mar. 9.
Loading, hauling, and dumping apparatus. L. W. Brooks. 2,313,514; Mar. 9.
Lock: *See*—
Pin lock.
Lock washer. J. A. McGrew. 2,313,658; Mar. 9.
Locking clip. G. P. Lum. 2,313,249; Mar. 9.
Locomotive driving wheel hub and liner structure. J. J. Hennessy. 2,313,545; Mar. 9.
Logarithmic instrument circuit. H. O. Peterson. 2,313,666; Mar. 9.
Loom: *See*—
Circular weaving loom.
Loom picker. J. E. Moe. 2,313,354; Mar. 9.
Lubricator for engine cylinders. J. R. Brooks. 2,313,462; Mar. 9.
Luggage bag. J. N. Hinson. 2,313,547; Mar. 9.
Machine and method for forming and welding hollow glass blocks. W. S. Mayers. 2,313,160; Mar. 9.
Machine for producing cellulose sheets and the like. E. Czapek. 2,313,125; Mar. 9.
Machine for purifying liquids. A. E. Flowers. 2,313,541; Mar. 9.
Machine for purifying liquids. S. H. Hall. 2,313,540; Mar. 9.
Machine tool. R. L. Kuehn. 2,313,558; Mar. 9.
Mandrel or core for driving molds for concrete piles, Collapsible. W. H. Cobi. 2,313,625; Mar. 9.
Margin stop means for duplicating machines, Front. M. P. Neal. 2,313,163; Mar. 9.
Marker, Vitrified traffic. D. R. Sever and D. J. Renkert. 2,313,673; Mar. 9.
Mat, Portable. W. O. Aldrich. 2,313,211; Mar. 9.
Match book, Self-closing. J. M. Dirienzo. 2,313,629; Mar. 9.
Materials, Decomposing organic. F. O. Rice. 2,313,092; Mar. 9.
Materials, Making coherent. J. A. MacDonald. 2,313,082; Mar. 9.
Measuring device. H. C. Atherley. 2,313,213; Mar. 9.
Mechanism for extracting defective book assemblies from match booking machines. J. R. Nolan. 2,313,451; Mar. 9.
Mechanism for producing step by step motion. F. R. Ford. 2,313,633; Mar. 9.
Metal composition. F. R. Hensel, E. I. Larsen, and E. F. Swazy. 2,313,070; Mar. 9.
Metal lath, Expanded. H. M. Gersman. 2,313,533; Mar. 9.
Metallic mold. H. E. McWane. 2,313,253; Mar. 9.
Metallic strip, Pickling. R. A. Dimon. 2,313,422; Mar. 9.
Meter: *See*—
Gas meter. Registering liquid meter.
Meter recording system. L. M. Potts. 2,313,088; Mar. 9.
Metering pump. J. Hurlbut. 2,313,551; Mar. 9.
Method and apparatus for shaping members. W. P. Hill. 2,313,474; Mar. 9.
Method and apparatus for stuffing meats into casings. J. E. Dyrek. 2,313,229; Mar. 9.
Methylene dialkyl malonates, Preparing. G. B. Bachman and H. A. Tanner. 2,313,501; Mar. 9.
Mine lamp. G. C. Nelms, E. J. Coggeshall, E. A. Berry, and W. K. Wilbur. 2,313,165; Mar. 9.
Mirror support. J. Garrett. 2,313,532; Mar. 9.
Mixer. E. A. Brown. 2,313,045; Mar. 9.
Modulating system. H. C. Ressler. 2,313,583; Mar. 9.
Moistening mechanism. W. E. Denison. 2,313,127; Mar. 9.
Mold: *See*—
Metallic mold.
Mold surfaces, Coating foundry. H. K. Salzberg and W. B. Kinney. 2,313,674; Mar. 9.
Mold surfaces, Coating sand. H. K. Salzberg and W. B. Kinney. 2,313,672; Mar. 9.
Molding composition. J. W. Juppenlatz. 2,313,697; Mar. 9.
Molding machine, Plastic. J. W. Neff. 2,313,476; Mar. 9.
Motor: *See*—
Electromagnetic motor.
Motor propelling unit. P. M. Lemoigne. 2,313,491; Mar. 9.
Mounting means for electrically operated units. R. E. Wood. 2,313,379; Mar. 9.
Mower handles, Making lawn. T. B. Funk. 2,313,139; Mar. 9.
Mower, Lawn. J. S. Sherer, Jr., and A. J. Richards. 2,313,590; Mar. 9.
Muffler. W. C. Jones. 2,313,244; Mar. 9.
Multiple form, Sortable. J. Zalkind. 2,313,285; Mar. 9.
Multiple outlet valve, Automatic. A. and A. Genest. 2,313,142; Mar. 9.
N-monomethyl-p-aminophenol, Treatment of. T. E. Wannamaker. 2,313,605; Mar. 9.
Needle knitting machine, Circular independent. H. N. Holmes and A. P. Saunders. 2,313,642; Mar. 9.
Neoprene, Reclaiming. H. A. Winkelmann. 2,313,693; Mar. 9.
Nitrated lignocellulose. E. C. Jahn and S. Coppick. 2,313,441; Mar. 9.
Nozzle, Fire hose. P. R. Boothman. 2,313,614; Mar. 9.
Nut setter. P. van Sittert and A. J. Lev. 2,313,603; Mar. 9.
Oiling system for rotary pumps. H. A. McArthur and J. B. Decker. 2,313,387; Mar. 9.
Oils, Cracking of. A. C. Jessup. 2,313,241; Mar. 9.
Oils from hardwood tar and purification thereof, Extraction of. J. Lévesque. 2,313,385; Mar. 9.
Operating and indicating mechanism for jail doors. C. F. Young. 2,313,416; Mar. 9.
Ophthalmic apparatus. A. W. Hubbard. 2,313,240; Mar. 9.
Optical testing and measuring apparatus. H. Hauser. 2,313,639; Mar. 9.
Ores, Concentrating nonmetalliferous. A. W. Ralston and E. W. Segebrecht. 2,313,360; Mar. 9.
Ores to metal, Reduction of. H. A. Brassert. 2,313,044; Mar. 9.
Ornament, Ear. O. F. Placco. 2,313,668; Mar. 9.
Overall banding machine. J. Podgorny. 2,313,261; Mar. 9.
Overload clutch. G. A. Waller. 2,313,708; Mar. 9.
Overshot fishing tool. P. M. Rea. 2,313,263; Mar. 9.
Package for tablets, ampoules, and the like. A. F. Peterson. 2,313,667; Mar. 9.
Packaging machine. S. R. Howard. 2,313,643; Mar. 9.
Packing device. J. L. Gratzmüller and L. R. Ignace. 2,313,486; Mar. 9.
Packing for eggs and other brittle articles. K. Heshe. 2,313,487; Mar. 9.
Pad: *See*—
Detachable footwear pad. Rubber press pad.
Pads for shoes, Preparing. G. S. Hill. 2,313,552; Mar. 9.
Paper and preparing the same, Safety. B. W. Smith. 2,313,592; Mar. 9.
Paper, Coating. H. J. Adrian. 2,313,497; Mar. 9.
Paraffin hydrocarbons, Alkylation of. C. L. Thomas. 2,313,103; Mar. 9.
Paraffins, Isomerization and alkylation of. C. W. Montgomery. 2,313,661; Mar. 9.
Parasitic oscillation suppression with compressed air condensers in thermionic circuits. J. L. Finch. 2,313,330; Mar. 9.
Parasiticide composition and producing the same. F. J. Seibert and L. C. Roller. 2,313,588–9; Mar. 9.
Phonograph, Automatic. G. Delchef. 2,313,193; Mar. 9.
Phonograph record. D. R. Wiggam. 2,313,186; Mar. 9.
Photographic images, Production of color. A. Fröhlich and W. Schneider. 2,313,138; Mar. 9.
Photographic layer capable of receiving writing. G. F. Nadeau and H. R. Couch. 2,313,570; Mar. 9.
Photographic material. T. S. Donovan and W. V. Wadman. 2,313,523; Mar. 9.
Piezoelectric crystals, Mounting. W. R. Dohan. 2,313,129; Mar. 9.
Pin lock. F. M. Blanchard. 2,313,216; Mar. 9.
Pipe joint and collar therefor. H. W. Jewell. 2,313,074; Mar. 9.
Piston. D. Bushby. 2,313,320; Mar. 9.
Piston. C. E. S. Korytko. 2,313,202; Mar. 9.
Piston expander. H. P. Phillips. 2,313,396; Mar. 9.

Piston ring. H. P. Phillips. 2,313,395; Mar. 9.
Plug: *See*—
Boiler drop plug. Drop plug.
Plug for oil and gas wells. F. J. Spang. 2,313,178; Mar. 9.
Plug valve. A. A. Reiser. 2,313,090; Mar. 9.
Porous masses, Treating. L. S. Wertz. 2,313,109; Mar. 9.
Powder distributor, Poison. L. E. Koepsel and W. G. Koehler. 2,313,556; Mar. 9.
Power and heating system. R. H. Horton. 2,313,439; Mar. 9.
Power control. S. M. Udale. 2,313,283; Mar. 9.
Power measuring device. W. van B. Roberts. 2,313,699; Mar. 9.
Power steering mechanism. H. W. Hey. 2,313,704; Mar. 9.
Power system, Protective. M. J. Baldwin. 2,313,503; Mar. 9.
Power take-off mechanism. A. Tangen. 2,313,679; Mar. 9.
Power transmission. H. F. Vickers. 2,313,404–6; Mar. 9.
Power transmission. H. F. Vickers and K. R. Herman. 2,313,407; Mar. 9.
Precision gearing. F. X. Lamb. 2,313,444–5; Mar. 9.
Press: *See*—
High density press.
Press for making electrotype molds. G. W. Bungay. 2,313,623; Mar. 9.
Process and apparatus for metallurgical reduction; C. Tiegtig. 2,313,457; Mar. 9.
Process and apparatus for the manufacture of cardboard boxes for packing of eggs, fruit, and the like. P. E. V. Jacobsen. 2,313,200; Mar. 9.
Process and apparatus for the treatment of fluids. A. G. Sabeurs. 2,313,494; Mar. 9.
Products permeable to the luminous rays and products obtained therefrom, Manufacture of decorated. P. M. Latrobe. 2,313,489; Mar. 9.
Projecting apparatus. I. E. Neft. 2,313,450; Mar. 9.
Propeller having an automatically variable pitch. D. Sensaud de Lavaud. 2,313,326; Mar. 9.
Protective device for oil lubricating systems. H. H. Brown. 2,313,121; Mar. 9.
Pump: *See*—
Differential pump. Self-priming centrifugal
Metering pump. mine pump.
Pump. E. C. Horton. 2,313,239; Mar. 9.
Pump for evaporating systems. P. B. Sadtler. 2,313,269; Mar. 9.
Pump valve. W. P. Valentine. 2,313,284; Mar. 9.
Radiating furnace. C. L. Spring. 2,313,370; Mar. 9.
Radio antenna system. M. Bruce. 2,313,046; Mar. 9.
Radio receiver, Directional. H. C. Forbes. 2,313,231; Mar. 9.
Rail, Highway guard. E. V. Camp. 2,313,220; Mar. 9.
Railway car hand brake. E. E. Van Cleave. 2,313,602; Mar. 9.
Railway signaling system. O. S. Field. 2,313,468; Mar. 9.
Railway signaling system. E. W. Moore and J. W. Knapp. 2,313,475; Mar. 9.
Rake, Broom. C. D. Whittenberger. 2,313,691; Mar. 9.
Range and depth of field finders for cameras. J. Mihalyi. 2,313,567; Mar. 9.
Range finder. J. Steklik. 2,313,208; Mar. 9.
Range, Oil. H. M. Reeves. 2,313,089; Mar. 9.
Rayon cakes, Making and treating. H. Rubinstein. 2,313,268; Mar. 9.
Receptacle charging machine. W. S. Reynolds. 2,313,265; Mar. 9.
Record-changing apparatus, Automatic. J. H. Pressley. 2,313,262; Mar. 9.
Reel: *See*—
Fishing reel. Hose reel.
Refrigerated cabinet. H. A. Bortz. 2,313,510; Mar. 9.
Refrigerating system. A. B. Newton. 2,313,391; Mar. 9.
Refrigeration. E. S. Lynger. 2,313,250; Mar. 9.
Refrigeration apparatus. G. A. Halfvarson. 2,313,472; Mar. 9.
Refrigerator, Absorption. J. Lithgow and L. K. Jackson. 2,313,707; Mar. 9.
Refrigerator car. C. D. Bonsall. 2,313,120; Mar. 9.
Refrigerator compressor. L. W. Benz. 2,313,214; Mar. 9.
Refrigerator construction. T. W. Rundell. 2,313,671; Mar. 9.
Registering liquid meter. R. C. Bradley. 2,313,511; Mar. 9.
Regulating means, Pressure. R. M. Magnuson. 2,313,351; Mar. 9.
Regulator: *See*—
Altitude controlled pressure regulator.
Reheating furnace. H. R. Schutz. 2,313,698; Mar. 9.
Relay, Thermal overload. A. G. Stimson. 2,313,597; Mar. 9.
Reproduction of images by means of diazoic compounds to be obtained, Process which enables the. E. Barde. 2,313,288; Mar. 9.
Resilient coupling. J. Elken. 2,313,467; Mar. 9.
Resilient support. J. Piliero. 2,313,171; Mar. 9.
Resin. J. K. Simons. 2,313,678; Mar. 9.
Resin and its preparation. W. H. McDowell and W. O. Kenyon. 2,313,565; Mar. 9.
Reversing mechanism. N. S. Campbell. 2,313,221; Mar. 9.
Ring: *See*—
Closing ring. Piston ring.
Rivet. J. W. Bowersox. 2,313,616; Mar. 9.
Road surface, road foundation, and similar layers. G. A. Heyning. 2,313,199; Mar. 9.
Roll for metal-rolling mills. J. H. L. De Bats. 2,313,227, Mar. 9.
Rolling mill spindle support. L. W. Falk. 2,313,230; Mar. 9.
Rubber compositions, Preparation of. J. H. Kelly, Jr., and M. M. Stern. 2,313,154; Mar. 9.
Rubber from rubber waste products, Reclaiming or regenerating. J. Hirschberger. 2,313,146; Mar. 9.
Rubber goods. E. L. Hanna. 2,313,703; Mar. 9.
Rubber, Manufacture of sponge. W. J. Clayton. 2,313,464; Mar. 9.
Rubber, Manufacture of sponge. W. J. Clayton and W. R. Hoover. 2,313,463; Mar. 9.
Rubber press pad. R. H. Waters. 2,313,689; Mar. 9.
Safety block. R. W. Hedenberg. 2,313,437; Mar. 9.
Safety device. F. G. Rechberger. 2,313,172; Mar. 9.
Safety device against fire for cinematographic projectors. F. Mathieu. 2,313,299; Mar. 9.
Safety switch. F. Hornain. 2,313,549; Mar. 9.
Safety switch. E. H. Zimmer. 2,313,380; Mar. 9.
Safety wash tank. W. A. Lebus. 2,313,350; Mar. 9.
Sanding device. T. E. Mead. 2,313,254; Mar. 9.
Scale, Computing. A. Le R. Sprecker and Le R. S. Smithers. 2,313,179; Mar. 9.
Scale, Weighing. R. S. Bohannan. 2,313,509; Mar. 9.
Screen: *See*—
Fireplace screen.
Screw driver. J. H. Gemmell. 2,313,710; Mar. 9.
Seed planting, seed inoculation, and fertilizer. A. C. Fischer. 2,313,057; Mar. 9.
Seismic recording. D. S. Renner. 2,313,091; Mar. 9.
Self-balancing system. J. F. Schock and G. L. Broomell, Jr. 2,313,272; Mar. 9.
Self-priming centrifugal mine pump. H. E. Rupp. 2,313,585; Mar. 9.
Separator: *See*—
Cream separator.
Sewer and pipe cleaner. F. Surges. 2,313,599; Mar. 9.
Shears, Hedge. F. R. Lutman. 2,313,651; Mar. 9.
Sheet feeding mechanism. B. D. Stevens. 2,313,100; Mar. 9.
Sheet machine, Felt. A. B. Feldmann. 2,313,292; Mar. 9.
Sheet material fastening tool. J. J. Domonkos. 2,313,228; Mar. 9.
Sheet metal container. A. L. Merolle. 2,313,161; Mar. 9.
Sheets or rolls of gasket material, Making continuous. F. H. Carman. 2,313,508; Mar. 9.
Shield, Antitorpedo. W. W. Mount. 2,313,664; Mar. 9.
Shields, Manufacturing. F. and I. Himmel. 2,313,236; Mar. 9.
Shipping and display container for toys, etc., Combination. M. Ullman. 2,313,376; Mar. 9.
Shirt or like garment. F. Diluglio. 2,313,521; Mar. 9.
Shock strut. C. V. Johnson. 2,313,242; Mar. 9.
Shoe. J. H. Plant. 2,313,577; Mar. 9.
Shoe heel, Circular. A. F. Smith, Sr. 2,313,368; Mar. 9.
Shoe rearching and straightening device. R. M. Anderson. 2,313,417; Mar. 9.
Shoe sewing machine. O. R. Haas. 2,313,063; Mar. 9.
Signal: *See*—
Automobile signal.
Silica from water, Removal of. S. O. A. Fiedler and G. V. Austerweil. 2,313,194; Mar. 9.
Skin clamp. G. W. Perlman. 2,313,358; Mar. 9.
Skins for sausages, in particular, salami, Production of artificial. Č. Bednář. 2,313,289; Mar. 9.
Slat cleaner. V. C. Webb and A. P. Sparks. 2,313,606; Mar. 9.
Sliding clasp fastener. V. Puc. 2,313,579; Mar. 9.
Sludge formation in oils used for scrubbing gases, Minimizing. L. J. Figg, Jr., and E. E. Shaulis. 2,313,531; Mar. 9.
Smoker's appliance. H. J. Lavietes. 2,313,648; Mar. 9.
Smoking device. E. J. Jacob. 2,313,344; Mar. 9.
Snap action switch. G. I. Holmes. 2,313,341; Mar. 9.
Socket, Lamp. G. H. Burt. 2,313,036; Mar. 9.
Sound frequencies, Reproduction of. F. H. Shepard, Jr. 2,313,096; Mar. 9.
Sound frequency vibrations, Reproduction of. F. H. Shepard, Jr. 2,313,098; Mar. 9.
Speed and directional changer. M. A. Elliott. 2,313,132; Mar. 9.
Speed device, Variable. J. A. Hennessy. 2,313,436; Mar. 9.
Spring cushion unit, Padded. A. Krakauer. 2,313,443; Mar. 9.
Spurious responses in radio reception, Reduction of. D. E. Foster and J. A. Rankin. 2,313,635; Mar. 9.
Steam generator. J. Blizard. 2,313,043; Mar. 9.
Steam generator. M. Frisch. 2,313,061; Mar. 9.
Steam hand iron. M. M. Kistner. 2,313,382; Mar. 9.
Steam joint. R. Carpenter. 2,313,322; Mar. 9.
Stereoscope. P. and M. N. Malnardi. 2,313,562; Mar. 9.
Stereoscopic system. P. and M. N. Malnardi. 2,313,561; Mar. 9.
Stick dispenser. R. F. Anderson. 2,313,500; Mar. 9.

Stockings, Manufacture of. J. Garric. 2,313,294; Mar. 9.
Strain device. E. E. Forstrom. 2,313,426; Mar. 9.
Sulphur containing lubricant. B. H. Lincoln, W. L. Steiner, and G. D. Byrkit. 2,313,248; Mar. 9.
Sulphurization. W. L. Abramowitz and R. M. Beach. 2,313,611; Mar. 9.
Sulphydryl compound obtained from flour. A. K. Balls and W. S. Hale. 2,313,504; Mar. 9.
Support: *See*—
Adjustable support. Rolling mill spindle sup-
Mirror support. port.
Resilient support.
Surfaces, Inspection of. K. P. Brace and H. C. Waterman. 2,313,218; Mar. 9.
Surfaces, Treating. L. S. Wertz. 2,313,108; Mar. 9.
Surgical package, Sterile. J. H. Brewer. 2,313,512; Mar. 9.
Surgical retractor, Self-retaining. W. A. Nelson. 2,313,164; Mar. 9.
Switch: *See*—
Safety switch. Time switch.
Snap action switch.
Switch. H. L. Nicholas. 2,313,166; Mar. 9.
Switch actuating recording system. B. Cooper. 2,313,626; Mar. 9.
Switching mechanism. H. E. Malone. 2,313,083; Mar. 9.
Swivel sinker. F. Knill and J. A. Schulte. 2,313,647; Mar. 9.
Syringe, Hypodermic. A. E. Smith. 2,313,484; Mar. 9.
System for compensating anode supply potential variations. F. H. Shepard, Jr. 2,313,097; Mar. 9.
Tablet, Vision training drawing. A. K. Cross. 2,313,518; Mar. 9.
Tag marking machine, Price. F. Kohnle. 2,313,347; Mar. 9.
Tank: *See*—
Brine tank. Safety wash tank.
Tea bag and making the same. J. Yates. 2,313,696; Mar. 9.
Tectonics and nature of subsurface geology, Determining the. R. E. Lee. 2,313,384; Mar. 9.
Telegraph printer. C. J. Fitch and K. R. Schneider. 2,313,137; Mar. 9.
Telegraph system, Multichannel. P. Holcomb, Jr. 2,313,238; Mar. 9.
Telephone attachment. C. Kolodny. 2,313,383; Mar. 9.
Telephone booth, Metallic. C. A. Hallam. 2,313,471; Mar. 9.
Television. P. C. Goldmark. 2,313,062; Mar. 9.
Television receiver. F. Okolicsanyi. 2,313,286; Mar. 9.
Television system, Color. M. Cawein. 2,313,324; Mar. 9.
Temperature controlling device. J. Hoekstra. 2,313,147; Mar. 9.
Tennis ball trap. C. L. Walker. 2,313,409; Mar. 9.
Testing apparatus. J. L. Brubaker and F. J. Lengvenis. 2,313,516; Mar. 9.
Textile product and making the same. C. S. Francis, Jr. 2,313,058; Mar. 9.
Theftproof closure. J. A. Roberts. 2,313,266; Mar. 9.
Therapeutic device. P. F. Tunke. 2,313,282; Mar. 9.
Thermal insulation. W. B. Jones. 2,313,345; Mar. 9.
Thermal responsive device. C. Hotchkiss. 2,313,072; Mar. 9.
Thermoelectric indicator. J. I. Liner. 2,313,649; Mar. 9.
Thermometer. R. C. Wappner and F. M. Osborne. 2,313,688; Mar. 9.
Thiocyanates, Manufacture of. L. B. Smith. 2,313,680; Mar. 9.
Thread isolating device. S. S. C. Fleischer and J. J. Hansen. 2,313,195; Mar. 9.
Time switch. H. C. Hall. 2,313,064; Mar. 9.
Timing mechanism. W. D. Halloran. 2,313,065; Mar. 9.
Tinsel cord. L. E. Gavitt. 2,313,234; Mar. 9.
Tire pressure indicating means. C. J. Krow. 2,313,247; Mar. 9.
Tires, Method of and apparatus for building. W. J. Breth. 2,313,035; Mar. 9.
Tires to proper internal air pressure under load, Inflating pneumatic. G. C. Kratt, Jr. 2,313,156; Mar. 9.
Titanium solution manufacture. L'R. G. Bousquet and D. W. Young. 2,313,615; Mar. 9.
Toggle joint. I. F. Hammand. 2,313,197; Mar. 9.
Toilet preparations dispenser, Combination. G. Wadsworth. 2,313,184; Mar. 9.
Toilet seat cover. C. K. Arter, Jr. 2,313,311; Mar. 9.
Tone arm. R. Daily. 2,313,126; Mar. 9.
Tool: *See*—
Combination fence tool. Overshot fishing tool.
Honing tool. Sheet material fastening
Machine tool. tool
Toolholder. H. F. Bakewell. 2,313,312; Mar. 9.
Towel bar extensions. F. T. Kent. 2,313,245; Mar. 9.
Toy. S. L. Long. 2,313,158; Mar. 9.
Toy construction block. C. H. Pajeau. 2,313,357; Mar. 9.
Toy doll. A. C. H. Henkelmann. 2,313,069; Mar. 9.
Toy gun. A. N. Smith and J. Bonnett. 2,313,400; Mar. 9.
Toy railway system. D. V. Godfrey. 2,313,335; Mar. 9.
Traffic guide. F. A. Talty. 2,313,600; Mar. 9.
Transformers, Making. D. E. Wiegand. 2,313,306; Mar. 9.
Transmission and gear teeth. N. Trbojevich. 2,313,183; Mar. 9.
Transmission device, Hydraulic force. C. O. Marshall. 2,313,655; Mar. 9.
Transmission, Hydraulic. C. B. Cook. 2,313,049; Mar. 9.
Transmission, Turbo. J. Jandasek. 2,313,645; Mar. 9.
Transmitter. W. van B. Roberts. 2,313,700; Mar. 9.
Transmitter, Pressure. J. W. Yowell. 2,313,610; Mar. 9.
Trap: *See*—
Tennis ball trap.
Tray, Ice cube. G. C. Norris. 2,313,394; Mar. 9.
Treadle controlled toll checking system. B. Cooper. 2,313,627; Mar. 9.
Tree removing and transplanting apparatus. J. A. Vogel. 2,313,604; Mar. 9.
Tripod carrying case. R. L. Smith. 2,313,593; Mar. 9.
Tube coupling means, Injector. I. Cowles. 2,313,323; Mar. 9.
Tuning mechanism. H. J. Lyman, D. H. Mills, and W. H. Friedrich. 2,313,653; Mar. 9.
Turncock. W. B. Flynn. 2,313,331; Mar. 9.
Turntable and mounting therefor. F. G. Manly. 2,313,084; Mar. 9.
Undergarment. P. Snyder. 2,313,595; Mar. 9.
Universal joint. R. Suczek. 2,313,279; Mar. 9.
Vacuum distillation process and apparatus. R. F. Scott and A. C. Plewes. 2,313,175; Mar. 9.
Valve: *See*—
Blowout preventor and Multiple outlet valve.
valve. Plug valve.
Fluid control valve. Pump valve.
Valve. O. H. Ludeman. 2,313,448; Mar. 9.
Valve. K. O. Nelson. 2,313,257; Mar. 9.
Valve assembly, Balanced. G. T. Downey. 2,313,631; Mar. 9.
Valve structure. C. J. Huber. 2,313,550; Mar. 9.
Vehicle fender. C. Saurer. 2,313,587; Mar. 9.
Vehicle impeding device. W. J. McDonald. 2,313,388; Mar. 9.
Venetian blind slat and method of and apparatus for forming the same. A. B. Wilson. 2,313,111; Mar. 9.
Ventilating and circulating system. J. B. Shaver. 2,313,676; Mar. 9.
Vernier condenser. De W. R. Goddard. 2,313,429; Mar. 9.
Vibrator inverter system. M. A. Edwards. 2,313,527; Mar. 9.
Voltage divider. V. J. Terry and T. F. S. Hargreaves. 2,313,601; Mar. 9.
Wagon, Dump. R. G. Le Tourneau. 2,313,078; Mar. 9.
Wall and block for the same, Retaining. G. H. Schmitt. 2,313,363; Mar. 9.
Wall construction, Floating. B. W. Dalton. 2,313,325; Mar. 9.
Washer: *See*—
Lock washer.
Washing machine. E. W. Forney. 2,313,634; Mar. 9.
Washing machine. J. P. Jorgenson. 2,313,152; Mar. 9.
Watch band, Wrist. G. B. Hovey. 2,313,073; Mar. 9.
Well-bore radiation logging apparatus. J. C. Arnold. 2,313,310; Mar. 9.
Well head assembly. A. J. and K. T. Penick. 2,313,169; Mar. 9.
Well tester. P. P. Shelby. 2,313,176; Mar. 9.
Wheel. S. R. Smith. 2,313,277; Mar. 9.
Wheel balancing. T. G. Hare. 2,313,339; Mar. 9.
Wheel grinding machine, Multiple. H. N. Rocks, M. A. Hollengreen, and H. E. Balsiger. 2,313,482; Mar. 9.
Wheelbarrow, Side delivery. S. Slaughter. 2,313,591; Mar. 9.
Winding apparatus. W. Bridges. 2,313,618; Mar. 9.
Window channel, Metal. B. R. Billmeyer. 2,313,507; Mar. 9.
Window channeling. R. J. Bush. 2,313,419; Mar. 9.
Window cleaner. E. Simor. 2,313,367; Mar. 9.
Window structure. M. J. C. Johanns. 2,313,488; Mar. 9.
Window, Variable density. E. H. Land. 2,313,349; Mar. 9.
Windshield cleaner mechanism for vehicles or vessels. P. H. Klein. 2,313,201; Mar. 9.
Windscreen wiper having a wide sweeping action. R. Marais. 2,313,203; Mar. 9.
Wire. F. B. Rinck and J. W. Scott. 2,313,584; Mar. 9.
Wire fabric. W. E. Reed. 2,313,581; Mar. 9.
Wrench. F. B. Sapp. 2,313,270; Mar. 9.
Wrench. F. C. Shock. 2,313,174; Mar. 9.
Wrench-acting tool. J. A. Ronning. 2,313,398; Mar. 9.
Wringer, Diminishing pressure. N. L. Etten. 2,313,134; Mar. 9.
X-ray apparatus. J. J. Heger. 2,313,145; Mar. 9.
Xylene from oils containing the same, Recovery of. R. B. Greenburg. 2,313,537; Mar. 9.
Yarn and cords and producing the same, Plied. R. N. Wallach. 2,313,104; Mar. 9.

CLASSIFICATION OF PATENTS

ISSUED MARCH 9, 1943

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

2— 84: 2,313,458
93: 2,313,665
97: 2,313,519
128: 2,313,521
181: 2,313,381
211: 2,313,399
224: 2,313,595
4— 149: 2,313,421
243: 2,313,311
5— 247: 2,313,171
336: 2,313,337
351: 2,313,443
7— 1: 2,313,174
8— 3: 2,313,076
131: 2,313,173
9— 20: 2,313,151
10— 126: 2,313,415
12— 52: 2,313,148
129.1: 2,313,417
146: 2,313,314
2,313,552
13— 6: 2,313,217
15— 77: 2,313,666
82: 2,313,412
104.10: 2,313,042
104.30: 2,313,599
191: 2,313,675
220: 2,313,367
244: 2,313,563
255: 2,313,203
256: 2,313,201
257: 2,313,423
17— 39: 2,313,229
18— 15: 2,313,125
16: 2,313,623
18: 2,313,414
28: 2,313,476
57: 2,313,520
19— 72: 2,313,256
20— 4: 2,313,345
26: 2,313,106
92: 2,313,637
21— 58: Re.22,284
22— 134: 2,313,517
136: 2,313,253
188: 2,313,085
2,313,086
2,313,697
189: 2,313,672
2,313,674
23— 75: 2,313,680
87: 2,313,615
172: 2,313,677
24—205.5: 2,313,579
251: 2,313,397
256: 2,313,459
25— 22: 2,313,056
155: 2,313,207
28— 14: 2,313,292
43: 2,313,195
71.5: 2,313,140
73: 2,313,058
82: 2,313,296
29— 17: 2,313,702
84: 2,313,105
165: 2,313,116
30— 239: 2,313,651
331: 2,313,598
32— 19: 2,313,535
33—179.5: 2,313,133
205.5: 2,313,168
222: 2,313,682
34— 105: 2,313,040
35— 12: 2,313,480
25: 2,313,136
26: 2,313,518
36— 36: 2,313,252
39: 2,313,368
50: 2,313,577

36— 62: 2,313,099
2,313,316
37— 126: 2,313,534
150: 2,313,342
191: 2,313,216
38— 8: 2,313,524
47: 2,313,123
77: 2,313,382
137: 2,313,135
2,313,181
40—152.2: 2,313,453
41— 21: 2,313,489
42— 1: 2,313,608
51: 2,313,402
43— 3: 2,313,353
45: 2,313,572
46: 2,313,709
52: 2,313,647
148: 2,313,556
45— 69: 2,313,050
46— 26: 2,313,357
118: 2,313,069
130: 2,313,158
47— 1: 2,313,057
37: 2,313,604
62: Pl.Pt.571
Pl.Pt.572
49— 1: 2,313,160
2,313,630
17: 2,313,495
57: 2,313,698
77: 2,313,566
50— 23: 2,313,564
51— 34: 2,313,287
95: 2,313,479
105: 2,313,482
110: 2,313,493
148: 2,313,254
184.3: 2,313,442
219: 2,313,641
53— 3: 2,313,112
56— 26: 2,313,590
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400.17: 2,313,691
57— 76: 2,313,267
2,313,268
140: 2,313,104
58— 24: 2,313,466
60— 54: 2,313,435
54.5: 2,313,359
54.6: 2,313,273
2,313,274
61— 36: 2,313,109
39: 2,313,363
79: 2,313,625
62— 4: 2,313,390
8: 2,313,391
17: 2,313,120
89.5: 2,313,510
95: 2,313,080
2,313,499
108.5: 2,313,394
116: 2,313,472
118: 2,313,707
119.5: 2,313,250
123: 2,313,681
63— 14: 2,313,668
64— 6: 2,313,230
11: 2,313,467
21: 2,313,279
66— 1: 2,313,305
14: 2,313,642
96: 2,313,294
172: 2,313,332
2,313,446
68— 19: 2,313,225
23: 2,313,634
2,313,644
144: 2,313,152

68— 262: 2,313,134
70— 145: 2,313,711
451: 2,313,712
71— 10: 2,313,434
72— 105: 2,313,522
106: 2,313,110
117: 2,313,533
118: 2,313,325
127: 2,313,108
73— 31: 2,313,610
51: 2,313,156
2,313,176
2,313,304
165: 2,313,213
233: 2,313,511
268: 2,313,515
374: 2,313,688
74— 2: 2,313,197
7: 2,313,656
10: 2,313,653
11: 2,313,679
70: 2,313,221
100: 2,313,341
189.5: 2,313,132
230.17: 2,313,436
303: 2,313,183
395: 2,313,317
421: 2,313,548
461: 2,313,444
2,313,445
504: 2,313,554
505: 2,313,602
568: 2,313,477
604: 2,313,206
75— 21: 2,313,644
128: 2,313,420
136: 2,313,070
77— 1: 2,313,624
80— 58: 2,313,227
81— 15: 2,313,228
17: 2,313,348
53: 2,313,398
84: 2,313,270
82— 28: 2,313,618
84— 404: 2,313,318
85— 5: 2,313,358
40: 2,313,616
86— 32: 2,313,265
88— 2.3: 2,313,204
14: 2,313,148
2,313,218
16.6: 2,313,561
17: 2,313,260
20: 2,313,240
24: 2,313,639
28: 2,313,450
29: 2,313,502
57: 2,313,460
65: 2,313,349
99: 2,313,532
89— 14: 2,313,699
91— 7.5: 2,313,622
48: 2,313,127
50: 2,313,643
92— 40: 2,313,497
93— 37: 2,313,200
94— 1.5: 2,313,600
2,313,673
13: 2,313,211
95— 2: 2,313,632
4.5: 2,313,119
6: 2,313,138
2,313,288
2,313,498
7: 2,313,529
8: 2,313,570
44: 2,313,567
88: 2,313,523
2,313,586

95— 93: 2,313,319
98— 33: 2,313,555
38: 2,313,676
99— 9: 2,313,275
77.1: 2,313,696
176: 2,313,289
236: 2,313,705
100— 1: 2,313,102
101— 93: 2,313,448
126: 2,313,465
132: 2,313,163
132.5: 2,313,633
102— 24: 2,313,210
29: Re.22,285
103— 4: 2,313,239
37: 2,313,302
41: 2,313,269
42: 2,313,351
44: 2,313,551
45: 2,313,404
2,313,405
2,313,406
113: 2,313,585
120: 2,313,075
2,313,246
153: 2,313,284
162: 2,313,407
247: 2,313,066
101— 258: 2,313,334
105— 422: 2,313,167
106— 14.5: 2,313,124
37: 2,313,186
53: 2,313,685
91: 2,313,107
241: 2,313,114
273: 2,313,596
286: 2,313,199
292: 2,313,619
107— 1: 2,313,060
7: 2,313,500
112— 45: 2,313,063
104: 2,313,433
152: 2,313,261
242: 2,313,440
312: 2,313,601
323: 2,313,502
327: 2,313,129
114— 16.5: 2,313,461
54: 2,313,215
122: 2,313,295
240: 2,313,664
116— 53: 2,313,222
117— 1: 2,313,592
27: 2,313,082
38: 2,313,650
107: 2,313,410
139: 2,313,703
122— 336: 2,313,251
473: 2,313,043
2,313,061
504.3: 2,313,255
2,313,449
123— 98: 2,313,283
139: 2,313,264
124— 17: 2,313,409
29: 2,313,400
125— 11: 2,313,055
126— 45: 2,313,089
99: 2,313,370
191: 2,313,582
127— 28: 2,313,574
128— 20: 2,313,164
214: 2,313,219
218: 2,313,484
272: 2,313,483
395: 2,313,494
403: 2,313,282
422: 2,313,427
129— 17: 2,313,713
131— 187: 2,313,648

131— 205: 2,313,343
2,313,344
137— 139: 2,313,177
2,313,448
153: 2,313,149
139— 13: 2,313,300
159: 2,313,354
140— 121: 2,313,530
143— 47: 2,313,617
159: 2,313,686
145— 50: 2,313,710
146— 3: 2,313,318
2,313,714
149— 27.5: 2,313,578
150— 40: 2,313,485
151— 36: 2,313,658
153— 217: 2,313,474
54: 2,313,111
79: 2,313,139
154— 10: 2,313,035
33.1: 2,313,508
155— 54: 2,313,559
179: 2,313,130
158— 91: 2,313,568
160— 41: 2,313,659
330: 2,313,496
164— 23: 2,313,525
36: 2,313,558
166— 1: 2,313,369
13: 2,313,178
14: 2,313,169
167— 14: 2,313,588
2,313,589
16: 2,313,160
170— 162: 2,313,301
164: 2,313,326
166: 2,313,491
171— 76: 2,313,101
95: 2,313,272
2,313,352
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172— 126: 2,313,401
152: 2,313,607
245: 2,313,699
289: 2,313,528
173— 322: 2,313,426
328: 2,313,212
334.1: 2,313,452
174— 120: 2,313,234
134: 2,313,584
175— 41: 2,313,094
41.5: 2,313,429
182: 2,313,384
183: 2,313,516
294: 2,313,118
2,313,153
356: 2,313,306
363: 2,313,526
365: 2,313,527
176— 2: 2,313,657
122: 2,313,575
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2,313,683
177— 311: 2,313,121
339: 2,313,560
386: 2,313,290
178— 5.2: 2,313,542
2,313,543
5.4: 2,313,062
2,313,224
7.5: 2,313,286
40: 2,313,137
44: 2,313,182

178— 50: 2,313,209
52: 2,313,238
179—100.41: 2,313,126
2,313,324
171: 2,313,097
2,313,098
2,313,122
2,313,330
171.5: 2,313,583
185: 2,313,383
180— 77: 2,313,505
79.2: 2,313,704
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48: Re.22,283
64: 2,313,244
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7: 2,313,389
115: 2,313,531
184— 56: 2,313,462
105: 2,313,377
187— 61: 2,313,172
188— 106: 2,313,432
152: 2,313,223
2,313,431
188: 2,313,437
189— 2: 2,313,471
8: 2,313,416
36: 2,313,280
75: 2,313,488
76: 2,313,507
82: 2,313,581
85: 2,313,687
190— 43: 2,313,547
192— 3: 2,313,232
2,313,430
3.2: 2,313,645
18: 2,313,187
30.5: 2,313,603
41: 2,313,662
45: 2,313,361
56: 2,313,708
58: 2,313,049
194— 51: 2,313,293
195— 8: 2,313,297
196— 10: 2,313,103
2,313,660
2,313,661
50: 2,313,092
2,313,117
52: 2,313,241
2,313,346
198— 21: 2,313,706
175: 2,313,259
200— 33: 2,313,064
35: 2,313,569
42: 2,313,380
44: 2,313,170
48: 2,313,571
51.09: 2,313,036
52: 2,313,549
2,313,638
58: 2,313,247
67: 2,313,291
113: 2,313,597
114: 2,313,185
2,313,364
2,313,365
115.5: 2,313,333
123: 2,313,281
131: 2,313,373
137: 2,313,072
2,313,083
148: 2,313,159
2,313,580
153: 2,313,166
168: 2,313,379
202— 42: 2,313,536
2,313,537

202—	42:	2,313,538	219—	3:	2,313,067	235—	1:	2,313,424	251—	10:	2,313,128
	52:	2,313,175			2,313,068		61.5:	2,313,208		93:	2,313,090
	205:	2,313,546		8:	2,313,327		132:	2,313,189		98:	2,313,257
204—	10:	2,313,338		10:	2,313,329	236—	21:	2,313,340		132:	2,313,631
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	35:	2,313,455		22:	2,313,492			2,313,147		144:	2,313,142
	53:	2,313,372	220—	9:	2,313,671	240—	5:	2,313,506		164:	2,313,331
	54:	2,313,371		10:	2,313,161		10:	2,313,378	252—	48:	2,313,248
	56:	2,313,454		54:	2,313,198		11.3:	2,313,165		139:	2,313,425
	59:	2,313,408		85:	2,313,191		45:	2,313,356		205:	2,313,053
	141:	2,313,422		86:	2,313,266		78:	2,313,131		351:	2,313,621
206—	29:	2,313,629		89:	2,313,350		103:	2,313,192		373:	2,313,157
	41:	2,313,428		90:	2,313,059	242—	11:	2,313,618	255—	72:	2,313,576
	42:	2,313,667	221—	21:	2,313,278		84.4:	2,313,470	256—	1:	2,313,388
	44:	2,313,376		79:	2,313,184		149:	2,313,684		13.1:	2,313,220
	46:	2,313,362	223—	7:	2,313,628	244—	17:	2,313,447	257—	1:	2,313,087
	49:	2,313,694		13:	2,313,038		117:	2,313,411		3:	2,313,439
	63.2:	2,313,512		68:	2,313,374	246—	53:	2,313,468		6:	2,313,081
209—	88:	2,313,451	224—	4:	2,313,073			2,313,475		51:	2,313,052
	95:	2,313,150		5:	2,313,593	248—	11:	2,313,663		128:	2,313,315
		2,313,375		11:	2,313,553		101:	2,313,077	259—	54:	2,313,045
	121:	2,313,051	225—	40:	2,313,226		156:	2,313,115	260—	22:	2,313,328
	166:	2,313,360	228—	23:	2,313,469		228:	2,313,594		29:	2,313,678
210—	28:	2,313,194	229—	5.5:	2,313,113	250—	11:	2,313,047		32:	2,313,039
	62:	2,313,307		29:	2,313,487		17:	2,313,048			2,313,144
	159:	2,313,237		47:	2,313,309			2,313,700		36:	2,313,693
	179:	2,313,612	230—	114:	2,313,205		20:	2,313,096		78:	2,313,392
211—	60:	2,313,620		120:	2,313,413			2,313,231			2,313,565
	106:	2,313,245		144:	2,313,214			2,313,635		84.5:	2,313,233
	133:	2,313,141		207:	2,313,387		33:	2,313,046		92.6:	2,313,693
212—	68:	2,313,084		255:	2,313,481			2,313,321		112:	2,313,504
214—	1:	2,313,243	233—	14:	2,313,540			2,313,513		125:	2,313,611
		2,313,544		15:	2,313,541			2,313,652		145:	Re.22,286
	6:	2,313,478		27:	2,313,260		36:	2,313,071			Re.22,287
	64:	2,313,335	234—	2:	2,313,627		83.6:	2,313,310		220:	2,313,441
	77:	2,313,514		36.5:	2,313,626		89:	2,313,145		365:	2,313,155
217—	19:	2,313,355		58:	2,313,088	251—	5:	2,313,550		401:	2,313,695

260—	409:	2,313,692	279—	58:	2,313,640						
	419:	2,313,636	280—	35.5:	2,313,235						
	439:	2,313,276		152:	2,313,587						
	485:	2,313,501	282—	20:	2,313,285						
	534:	2,313,573	285—	10:	2,313,322						
	541:	2,313,386		30:	2,313,308						
	574:	2,313,605		87:	2,313,323						
	627:	2,313,385		90:	2,313,490						
	641:	2,313,196		114:	2,313,074						
	683.3:	2,313,162	287—	93:	2,313,249						
	683.5:	2,313,054		119:	2,313,312						
	720:	2,313,146	290—	14:	2,313,503						
	722:	2,313,154	294—	102:	2,313,263						
	723:	2,313,463	296—	44.5:	2,313,419						
		2,313,464	298—	2:	2,313,591						
261—	23:	2,313,258		27:	2,313,078						
	30:	2,313,041	299—	78:	2,313,557						
	41:	2,313,366		120:	2,313,298						
	93:	2,313,654		144:	2,313,614						
265—	5:	2,313,179	300—	12:	2,313,037						
	12:	2,313,336	301—	5:	2,313,277						
	47:	2,313,509			2,313,339						
		2,313,655	308—	165:	2,313,545						
266—	13:	2,313,457	309—	11:	2,313,202						
267—	63:	2,313,486			2,313,320						
	64:	2,313,242		12:	2,313,396						
268—	58:	2,313,095		34:	2,313,271						
270—	61:	2,313,609		44:	2,313,395						
271—	2.5:	2,313,347	312—	98:	2,313,180						
	27:	2,313,100		142:	2,313,660						
273—	1.5:	2,313,188									
	30:	2,313,701									
	130:	2,313,473									
	131:	2,313,303									
274—	10:	2,313,193									
		2,313,262									
277—	24:	2,313,438									

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

Re.22,285:	102— 29	2,313,124:	106—14.5	2,313,233:	260—84.5	2,313,344:	131—205	2,313,558:	164— 36	2,313,627:	234— 2
2,313,035:	154— 10	2,313,140:	28—71.5	2,313,235:	280—35.5	2,313,351:	103— 42	2,313,575:	176—122	2,313,650:	117— 38
2,313,036:	200—51.09	2,313,145:	250— 89	2,313,245:	211—106	2,313,402:	42— 51	2,313,577:	36— 50	2,313,675:	15—191
2,313,054:	260—683.5	2,313,152:	68—144	2,313,250:	62—119.5	2,313,422:	204—141	2,313,582:	126—191	2,313,682:	33—222
2,313,058:	28— 73	2,313,162:	260—683.3	2,313,254:	51—148	2,313,456:	204— 18	2,313,596:	106—273	2,313,692:	260—409
2,313,065:	219— 20	2,313,167:	105—422	2,313,282:	128—403	2,313,463:	260—723	2,313,609:	270— 61	2,313,696:	99—77.1
2,313,066:	103—247	2,313,173:	8—131	2,313,296:	28— 82	2,313,469:	228— 23	2,313,615:	23— 87		
2,313,069:	260—92.6	2,313,196:	260—641	2,313,309:	229— 47	2,313,472:	62—116	2,313,618:	242— 11		
2,313,100:	271— 27	2,313,211:	94— 13	2,313,328:	260— 22	2,313,486:	267— 63	2,313,619:	106—292		
2,313,113:	229—5.5	2,313,225:	68— 19	2,313,335:	214— 64	2,313,525:	164— 23	2,313,621:	252—351		
2,313,115:	248—156	2,313,229:	17— 39	2,313,343:	131—205	2,313,548:	74—421	2,313,626:	234—36.5		

U. S. GOVERNMENT PRINTING OFFICE: 1943

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE KEPLER

No. 4,671. Decided December 1, 1942

[— F.(2d) —]

1. PATENTABILITY—METHOD OF FORMING PRESSURE VESSELS.

Certain claims to a method of forming multi-layer pressure vessels *Held* unpatentable over the prior art.

2. SAME—SAME.

"While it is true * * * that the prior art did not teach in detail * * * the redistribution of stresses in the several layers of a multi-layer pressure vessel, we think that if the teachings of the prior art were followed, there would be a redistribution of stresses such as appellant claims to have discovered. A patent should not be granted for appellant's discovery of a result that would flow naturally from the teachings of the prior art. It may be that appellant, by his study of the art and his teachings therein, has made distinct and advantageous advances in the art, but we are constrained to agree with the Board that what he has done does not amount to invention.

APPEAL from the Patent Office. Affirmed.

Mr. Edwin A. Andrus (*Mr. Lee B. Kemon* of counsel) for Kepler.

Mr. W. W. Cochran (*Mr. E. L. Reynolds* of counsel) for the Commissioner of Patents.

BLAND, *J.*:

The Primary Examiner of the United States Patent Office finally rejected claims 15, 16, 17, and 18 of appellant's application for a patent, and on appeal the Board of Appeals affirmed the action of the Examiner as to claims 16 to 18, inclusive, but allowed claim 15. Applicant has appealed here from the decision of the Board affirming the Examiner's rejection of claims 16 to 18, inclusive.

The invention relates to methods of forming multi-layer pressure vessels which are capable of withstanding high internal pressures and which have a number of layers consisting of concentrically arranged tubular members in close contact. The application particularly relates to the tightening of the layers and maintaining them permanently in close contact. The method of manufacturing the layers and placing them together is, in general, that disclosed in United States Letters Patent No. 1,925,118 issued to one Richard Stresau.

In making this kind of vessel, a relatively thin metal plate is rolled into cylindrical shape and welded at the longitudinal meeting edges. The welded seam is next ground smooth. Then another plate is rolled into cylindrical shape of slightly larger diameter so as to fit snugly over the first. It is pressed into tight engagement over the first cylinder, clamped in position, and welded at its meeting edges, the previously fabricated section serving as a backing plate while the seam is welded. Thus the process continues until the desired number of layers or the desired thickness of the vessel wall is reached. The several different rolls thus constitute a multi-layered wall, forming, when end closures are welded thereto, a vessel which has greater strength than a vessel of the same amount of metal if cast or rolled into one piece.

In his application appellant states that various means have been employed to bring the layers into better nesting relation during the welding process, citing, for example, the application of clamps and bands to the exterior of the shell while other devices press against the inner surface. He points out, however, that by none of these mechanical means is it possible to achieve a perfectly tight fit because of certain tolerances which creep into factory operations, the consequence being that the stresses created when great pressure is put upon such vessels in use are unevenly distributed since they are thrown primarily onto the inner layers and to a much less extent onto the outer layers, thereby weakening the structure.

Appellant states that his object is to provide a pre-stressing operation in the manufacture of multi-layer vessels so as to expand the inner layers against the outer layers to the end that more even distribution of working stresses over all the layers will result. To accomplish this he closes off the vessel and applies pressure to its interior to expand the walls thereof. He states that a light oil or other suitable fluid is pumped into the vessel, causing it to expand. He uses gauges to determine the amount of pressure applied and seeks to have the internal layers expanded beyond their elastic limit. He points out that in expanding the inner layers beyond their elastic limit, often the outer layers have been given no permanent deformation. He therefore applies sufficient pressure to stretch the inner layers to a point where the outer layers are also expanded to such an extent that upon release of the pressure the latter will squeeze against the inner layers and thus bring about a sturdy, compressed wall of sheets of metal.

In his specification he states:

If the layers of the vessel are expanded beyond the elastic limit of the steel a permanent deformation or set will be obtained and removal of the pressure will not cause the structure to regain its original form. In expanding a layer vessel it is possible to stretch the steel in the inner layers beyond the elastic limit without giving the outer layers a permanent deformation. However, to be certain that the inner layers are actually stretched beyond the elastic limit a certain amount of permanent expansion should be transmitted to the outer layers. Otherwise when the pressure is released and the outside layer returns to its original shape the inner layers may shrink back without having become permanently expanded into the outer structure. The fact that the outside layer is permanently expanded indicates that the inner layers have been permanently stretched into the outer structure, and that the elastic return of the several layers upon release of pressure will be substantially equal; thereby maintaining the layers in uniform tight contact throughout.

Tests have been performed in which the outside layer has been given a slight permanent set and measurements taken to determine the increase in the circumference of the vessel. The desired increase in circumference can be calculated from the dimensions of the vessel and the yield point of the steel. When the outside layer is given this set, the desired pre-stressing condition exists with the inner layers stretched beyond the yield point and permanently expanded against the outer layers.

All the claims, including the subsequently al-

lowed claim 15, were rejected by the Examiner upon the following references: Brownell, 280,905, July 10, 1883; Badger, 895,412, August 11, 1908; Krauss (British), 368,111, March 3, 1932.

Claim 16 is illustrative and reads as follows:

16. The method of improving the stress distribution under load of a thick walled multi-layer pressure vessel which comprises, displacing the air in the vessel with a relatively incompressible fluid medium which is relatively inexpansible at the temperatures and pressures employed, applying pressure to said medium to bring the layers into tight contact with one another and stress the metal to a value which will effect a substantially equal elastic return for all of the layers, and then releasing the pressure.

The Examiner rejected all the claims upon Brownell and also upon Badger in view of Krauss.

The Board of Appeals, in deciding the case, had the following to say:

The claims have been rejected on the patent to Brownell, and also on the patent to Badger in view of the patent to Krauss. The Examiner holds it would not amount to invention, in view of Krauss, to substitute liquid for the gas used by Badger. Brownell discloses the use of either liquid or gas.

Claim 15 requires the metal of all the layers to be stressed at least to its elastic limit. This means that the metal of the inner layers is stressed beyond its elastic limit, as explained in the specification. We find nothing in the references indicative of stress in the outer layer of the order recited in this claim. We consider the claim to be allowable.

Claims 16, 17, and 18 require the metal to be so stressed that the elastic return of the metal in the outer layer equals or exceeds that of the inner layers. It is explained at the top of page 8 of the specification that the elastic return of the outer layer is greater than that of the inner layers when the metal of the latter has a lower elastic limit than does the metal of the outer layer. We do not believe that these claims require the actual stressing of the metal of the outer layer to such degree as to patentably distinguish from the references.

The Brownell patent discloses a method of making a multi-layer vessel by placing a brass or copper lining within a shell of iron or steel and supplying liquid under pressure to the interior of the vessel to force the lining tightly against the shell. Brownell was concerned with making boilers and discloses only an inner liner placed against the outer shell or body. He states:

• • • After the soldering is finished, I subject the boiler to hydraulic or pneumatic pressure on the inside by means of any suitable apparatus. This forces the copper lining tightly against the body • • •, and thereby drives out any air which may have been between the lining and body. • • •

The Badger patent is also concerned with making multi-layer vessels, to which Badger refers as "compound receptacles." He shows an outer member and an inner member with a layer of solder between the two. He states that the inner member may be of lead, tin, or zinc. He suggests the use of pressure at one hundred pounds per square inch from "any suitable air-pressure supply." We quote from the specification (drawing numerals omitted): [Italics ours.]

• • • The pressure is first applied in order to force the coated wall of the [inner] member against the complemental wall of the [outer] member evenly. After this is done heat is applied until the required union between the two walls is secured. In most cases, I have found where I employ steel for the outer member and tin or lead for the inner member, a pressure of one hundred pounds to the square inch will accomplish the desired result, *but this pressure may be varied, depending upon the conditions attending the particular piece of work.* By this method, the inner member is forced against the outer member uniformly at all points, and this pressure can be maintained during the softening of the coating, and continued until after the parts have united and cooled, thereby effecting a uniform and permanent union between the inner and outer member.

The British patent to Krauss relates to the manufacture of pipes and tanks. Krauss begins his operations in much the same manner as appellant. He discloses the use of water as a hydraulic pressure medium for the expanding operation. He states that a number of different tubes can be expanded together in this manner and points out in his specification that a permanent expansion of as much as twenty percent may be produced in the inner chamber.

Claim 15, as observed from the quoted portion of the Board's opinion, was allowed over the rejection of the Examiner, upon the theory that it required that all the layers be stretched at least to their elastic limits and that nothing of the kind had been shown in the prior art. The Board agreed with the Examiner in rejecting claims 16, 17, and 18 because it did not believe that

"these claims require the actual stressing of the metal of the outer layer to such degree as to patentably distinguish from the references."

[1] [2] We agree with this holding of the Board. If a manufacturer of multi-layer vessels followed the teachings of the three patents cited, it seems clear that his process might well involve every step which appellant teaches. Each of these patents shows a stressing or stretching of the inner member. It is obvious that if such member is stretched sufficiently, the outer member will be stretched also to some extent, and that if the outer member is not stretched beyond its elastic limit, it will have a tendency when the pressure is released to return to its original shape and thus closely adhere to the inner member.

While it is true, as urged by appellant in his brief, that the prior art did not teach in detail, as has appellant, the redistribution of stresses in the several layers of a multi-layer pressure vessel, we think that if the teachings of the prior art were followed, there would be a redistribution of stresses such as appellant claims to have discovered. A patent should not be granted for appellant's discovery of a result that would flow naturally from the teachings of the prior art. It may be that appellant, by his study of the art and his teachings therein, has made distinct and advantageous advances in the art, but we are constrained to agree with the Board that what he has done does not amount to invention.

The decision of the Board of Appeals, affirming that of the Examiner in rejecting the claims on appeal, is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

THE ARMSTRONG MANUFACTURING CO.

v.

THE RIDGE TOOL CO.

No. 4,670. Decided December 1, 1942

[— F.(2d) —]

1. TRADE-MARKS—DESCRIPTIVENESS.

"It is our opinion that the use of the mark 'Vistand' by appellant is a misspelling of the words 'vise stand' and that appellant's mark is merely descriptive of the goods to which the mark is applied."

2. SAME—CANCELLATION—INJURY.

"Inasmuch as appellee used the words 'vise stand' as describing goods similar to those to which appellant applied the mark 'Vistand' it was not necessary for appellee to prove actual damage to it by appellant's registration. In such circumstances damage will be presumed.

APPEAL from the Patent Office. Affirmed.

Mr. Asher Blum (*Mr. Charles R. Allen, Mr. Hugo Mock*, and *Mr. Alex. Friedman* of counsel) for The Armstrong Manufacturing Co.

Mr. J. D. Douglass (*Messrs. Richey & Watts* and *Mr. Watts T. Estabrook* of counsel) for The Ridge Tool Co.

LENROOT, *J.*:

This is an appeal in a trade-mark cancellation proceeding from a decision of the Commissioner of Patents, which reversed a decision of the Examiner of Trade-Mark Interferences and granted the petition of appellee for cancellation of the trade-mark of appellant.

On May 24, 1940, appellee filed in the Patent Office a petition for cancellation of the registration of appellant's mark "Vistand" issued on February 16, 1937, No. 343,274, under the Trade-Mark Act of February 20, 1905.

The petition alleged that the notation "Vistand" "is merely a slight misspelling of the generic name of vise-stand, which describes a stand for supporting vises or the like";

that the petitioner is a manufacturer of tools including stands for holding vises, which are known as vise stands and have been listed as such for many years prior to the earliest date of use alleged under said registered trade-mark; that the petitioner does not use the words vise stand as a trade-mark but merely in a descriptive sense.

Allegations of injury followed in the petition.

Both parties took testimony.

From such testimony it appears that appellee manufactured and sold to the public vise stands both with and without vises. It appears that prior to appellant's use of the mark "Vistand" applied to a vise stand integral with a vise (denominated by it as No. "833b") it applied the words "vise stand" to a like stand having the same number "833b." It also appears that appellee and other manufacturers described in their catalogues similar articles as "vise stands."

[1] It is our opinion that the use of the mark "Vistand" by appellant is a misspelling of the words "vise stand" and that appellant's mark is merely descriptive of the goods to which the mark is applied.

We are fully in accord with the following statement of the Commissioner in his decision:

In my opinion the mark "Vistand" when applied to a vise stand would be apt to be pronounced the same as the name "vise stand", and the similarity between the single word "Vistand" and the two words "vise stand" in sound and in appearance is so close that "Vistand" and "vise stand" mean the same thing, to wit, a vise stand; and the word "Vistand" should be considered to be, in effect, merely the generic name of such article and merely descriptive thereof.

[2] Inasmuch as appellee used the words "vise stand" as describing goods similar to those to which appellant applied the mark "Vistand" it was not necessary for appellee to prove actual damage to it by appellant's registration. In such circumstances damage will be presumed. *United Shoe Machinery Corporation* v. *Compo Shoe Machinery Corporation et al.*, 19 C. C. P. A. (Patents) 1009, 56 F.(2d) 292, 421 O. G. 4; *Model Brassiere Co., Inc.*, v. *Bromley-Shepard Co., Inc.*, 18 C. C. P. A. (Patents) 1294, 49 F.(2d) 482, 411 O. G. 538.

It appears that on January 8, 1940, appellee filed an application for the registration of the mark "Tristand" as applied to "vise benches," and that appellant filed notice of opposition thereto, alleging that said mark "Tristand" is confusingly similar to its mark "Vistand" here involved.

In view of our conclusion as to the descriptiveness of appellant's mark and appellee's use of the words "vise stand" to describe its product, it is not necessary here to discuss said opposition proceeding other than to say that the question of whether appellee's mark "Tristand" is descriptive may not be determined by us in this proceeding.

For the reasons herein stated the decision of the Commissioner is affirmed.

Affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,211,475, D. Micon, Mattress: 1,771,185, same, Mattress and method of making same, filed Oct. 30, 1942, D. C., N. D. Ill., E. Div., Doc. 4804, *D. Micon* v. *Burton-Dixie Corp.*

1,328,459. (See Re. 17,906.)

1,384,355. (See Re. 17,906.)

1,495,038, C. Barbieri, Automatic cup forming machine; 2,049,419, same, Cup machine; 2,049,418, same, Process of making containers; 2,088,832, same, Container; 1,750,454, same, Rolled edge cone cup; 1,610,192, same, Conical paper cup and process for making same; 1,535,757, same, Sundae cup forming machine; 1,495,039, P. T. Potts, Sanitary cup making machine; 1,495,041, same, Cup assembling attachment for cup forming machines; 1,594,617, R. Holman, Cup-forming machine with stacking attachment; 1,598,719, H. Carle, Machine for making containers; 2,203,510, Smith & Bild, Method of and machine for making paper cups; 2,203,513, W. E. Amberg, Apparatus for and method of making containers; 1,584,736, D. F. Curtain, Paper cup former, D. C., N. D. Ill., E. Div., Doc. 254, *Dixie-Vortex Co.* v. *Paper Container Mfg. Co.* Patents 2,049,419 and 1,594,736 dismissed; claims 71, 78, 79, 80, 83, 91, and 92 of 2,049,418 withdrawn Sept. 12, 1940. 1,495,038, 1,495,039, 1,495,041, 1,535,757, 2,049,418, 2,088,832, and claims 4, 5, and 7 of 1,594,617, claims 87, 94, 95, 96, 97, 98, 99, 127, 138, 193, 140, and 152 of 1,598,710 and claim 26 of 2,203,513 withdrawn Dec. 9, 1940. Claims 1 and 2 of 1,594,617 held infringed; claims 5, 6, 7, 9, 10, 11, 20, 23, and 24 of 2,203,510 held valid, claims 6, 9, 10, 11, 20, 23, and 24 held infringed Mar. 14, 1942; claims 4, 5, 8, 9, 10, 11, 13, 20, 40, and 41 of 2,203,513 held valid and infringed; claims 2, 3, 4, and 5 of 1,610,192 held valid and infringed, injunction (notice Jan. 30, 1943).

1,495,039. (See 1,495,038.) 1,495,041. (See 1,495,038.)

1,535,757. (See 1,495,038.)

1,567,667, R. G. Miller, Instrument for teaching telegraphy; 1,725,145, O. B. Kirkpatrick, Student's telegraph, D. C., N. D. Ill., E. Div., Doc. 9705, *R. G. Miller* v. *O. T. Alexander et al.* Bill and counterclaim dismissed without prejudice Jan 8, 1943.

1,584,736. (See 1,495,038.) 1,594,617. (See 1,495,038.)

1,598,710. (See 1,495,038.)

1,603,877. (See Re. 17,906.)

1,610,192. (See 1,495,038.)

1,663,505, W. H. Mason, Hard grainless fiber product and process of making same; 1,941,536, R. M. Boehm, Hard vegetable fiber product of high strength and process of making same; 2,120,137, W. H. Mason, Process of making ligno-cellulose fiber products; 2,234,126, same, Ligno-cellulose fiber product, D. C., N. D. Ill., E. Div., Doc. 2842, *Masonite Corp.* v. *U. S. Gypsum Co.* Dismissed by stipulation Aug. 20, 1942.

1,671,725. (See 1,970,285.)

1,718,601. (See Re. 17,906.)

1,718,602. (See Re. 17,906.)

1,718,604. (See Re. 17,906.)

1,718,605. (See Re. 17,906.)

1,724,542, J. Zabel, Fur brushing and ironing machine; 1,776,114, S. Friedman, Fur treating method and apparatus, D. C., N. D. Ill., E. Div., Doc. 4584, *Reliable Machine Works, Inc.*, v. *Weil & Eisendrath Co.* Patents held valid and infringed Oct. 27, 1942.

1,725,145. (See 1,567,667.)

1,744,016, A. P. Steckel, Metal rolling; 1,779,195, same, Method and apparatus for rolling thin sheetlike material, filed Jan. 23, 1943, D. C., N. D. Ohio, E. Div., Doc. 21632, *The Cold Metal Process Co.* v. *Jones & Laughlin Steel Corp.* Doc. 21633, *The Cold Metal Process Co.* v. *The Youngstown Sheet & Tube Co.* Same, D. C., S. D. Ohio, W. Div., Doc. 627, *The Cold Metal Process Co.* v. *The American Rolling Mill Co.* Same, D. C., S. D. Ohio, E. Div., Doc. 642, *The Cold Metal Process Co.* v. *Wheeling Steel Corp.*

1,750,454. (See 1,495,038.) 1,771,185. (See 1,211,475.)

1,776,114. (See 1,724,542.) 1,779,195. (See 1,744,016.)

1,794,537, R. C. Palmer, Process of treating decolorizing agents; 1,794,539, same, Process of revivifying adsorbent material; 1,810,222, same, Process of purifying and decolorizing rosin; 1,807,599, same, Process of purifying rosin, D. C. Miss. (Biloxi), Doc. 129, *Newport Industries, Inc.*, v. *Crosby Naval Stores, Inc.* Bill dismissed (notice Jan. 8, 1943).

1,794,539. (See 1,794,537.) 1,797,850. (See 2,270,225.)

1,807,599. (See 1,794,537.) 1,810,222. (See 1,794,537.)

1,825,736, Klein & Szegvari, Method for the production of rubber goods directly from latex; 1,996,051, D. F. Twiss, Method and form for manufacturing rubber goods from an aqueous dispersion of rubber; 1,908,719, E. A. Willson, Method for making shaped rubber articles; 1,924,214, E. B. Newton, Method for making articles from rubber dispersions, D. C., N. D. Ill., E. Div., Doc. 1240, *American Anode, Inc.*, v. *Lee-Tex Rubber Products Corp.* Patents 1,908,719 and 1,924,214 were withdrawn from suit; claims 1, 16, 18, and 19 of 1,825,736 held valid, and all claims except 19 infringed; claims 2, 4, 17, 18, 28, and 29 of 1,996,051 held valid, and all claims except 4 held infringed, injunction (notice Jan. 30, 1943).

1,908,719. (See 1,825,736.) 1,924,214. (See 1,825,736.)

1,941,536. (See 1,663,505.) 1,952,635. (See 2,270,225.)

1,963,447. (See 1,970,285.)

1,970,285, R. M. Douvry, Binding arrangement; 2,108,136, Nelson & Spinner, Binding machine; 1,963,447, A. Prache, Loose-leaf binder; Re. 21,344 (of 2,123,625), 2,099,881, C. E. Emmer, Binding device; 1,671,725, H. S. Jones, Clamp; 2,211,743, Nelson & Spinner, Binder forming apparatus; 2,211,744, same, Method of forming a binder; 2,242,185, I. Spinner, Binder, D. C., N. D. Ill., E. Div., Doc. 722, *Cerola, Inc.*, v. *Plastic Binding Corp.* Patents 2,108,136, 2,211,743, 2,211,744, and 2,242,185 held invalid, Patent 1,970,285 held not infringed; defendant is estopped to assert any claim to 2,099,881 or 2,123,625 (Re. 21,344); Patent 1,671,725 dismissed with prejudice June 10, 1941.

1,996,051. (See 1,825,736.) 2,049,418. (See 1,495,038.)

2,049,419. (See 1,495,038.) 2,088,832. (See 1,495,038.)

2,094,428, A. Fulton, Adherent-backed flexible material and method of making same; 2,246,984, K. E. Palmer, Adhesive display, D. C., N. D. Ill., E. Div., Doc. 3262, *The Leaton Corp.* v. *Poster Products, Inc.* Bill dismissed Nov. 10, 1942.

2,099,881. (See 1,970,285.) 2,108,136. (See 1,970,285.)

2,120,137. (See 1,663,505.) 2,123,625. (See 1,970,285.)

2,142,814. (See Re. 21,194.)

2,143,931. (See 2,142,814.) 2,147,685. (See 2,179,992.)

2,159,609, Des. 114,980, F. J. Wengen, Cap, D. C., N. D. Ill., E. Div., Doc. 3209, *Eagle Knitting Mills, Inc.*, v. *American Needle & Novelty Co.* Claims 1 and 2 of 2,159,609 and single claim of design held valid and infringed Oct. 26, 1942.

2,179,992, R. J. Champayne, Pneumatic fender tool; 2,147,685, F. H. Borm, Air hammer, D. C., N. D. Ill., E. Div., Doc. 4118, *Variety Pneumatic Tool Co.* v. *The Borm Mfg. Co.* Counterclaim dismissed Sept. 4, 1942. Claims 4, 5, 9, 13, and 31 of 2,179,992 held invalid Oct. 29, 1942.

2,203,510. (See 1,495,038.) 2,203,513. (See 1,495,038.)

2,211,743. (See 1,970,285.) 2,211,744. (See 1,970,285.)

2,234,126. (See 1,663,505.) 2,242,185. (See 1,970,285.)

2,246,984. (See 2,094,428.)

2,270,225, A. G. Steinmayer, Fuse link construction; Re. 22,092 (of 1,952,635), same, Fuse; 1,797,850, L. P. Boll, Fuse link, D. C., N. D. Ill., E. Div., Doc. 3383, *Schweitzer & Conrad, Inc., et al.* v. *Line Material Co.* By stipulation counterclaim dismissed Oct. 27, 1942.

Re. 17,906, 1,718,604, 1,718,605, A. E. Smith, Hypodermic syringe; Des. 101,485, Re. 19,219, same, Ampule; 1,328,459, same, Instrument for producing intraosseous anesthesia; 1,384,355, same, Hypodermic needle; 1,603,877, same, Medicinal package; 1,718,601, same, Dental syringe; 1,718,602, same, Syringe construction; T. M. 261,647, same, Local anesthetizing nerve-blocking tablets, etc.; T. M. 328,935, same, Syringes, empty ampuls, hypodermic needles, etc.; T. M. 133,115, Dental Products Co., Certain named surgical appliances; T. M. 134,927, same, Anesthetic tablets, D. C., N. D. Ill., E. Div., Doc. 784, *A. E. Smith* v. *Dental Products Co., Inc.* Complaint and counterclaim so far as it relates to trade-mark infringement is dismissed; Des 101,485, claim 7 of 1,718,602, claims 1, 2, 10, 11, 12, 13, 14, 15, 16, 17, 18, 26, 27, and 28 of Re. 17,906 and all claims of 1,328,459 and 1,384,355 held valid and infringed, injunction for plaintiff; Patents 1,718,601, 1,718,604, 1,718,605, 1,603,877, and Re. 19,219 dismissed for want of prosecution Dec. 2, 1942.

Re. 19,219. (See Re. 17,906.)

Re. 21,344. (See 1,970,285.)

Re. 22,092. (See 2,270,225.)

Des. 101,485. (See Re. 17,906.)

Des. 114,980. (See 2,159,609.)

T. M. 133,115. (See Re. 17,906.)

T. M. 134,927. (See Re. 17,906.)

T. M. 261,647. (See Re. 17,906.)

T. M. 328,935. (See Re. 17,906.)

TRADE-MARKS

OFFICIAL GAZETTE, MARCH 9, 1943

[VOL. 548. No. 2]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 447,153. PFISTER HYBRID CORN COMPANY, El Paso, Ill. Filed Sept. 18, 1941.

5897

FOR SEED CORN.
Claims use since May 10, 1938.

Ser. No. 454,019. SHARPLES CHEMICALS INC., Philadelphia, Pa. Filed July 2, 1942.

PLASTAMINE

FOR SYNTHETIC ORGANIC CHEMICAL CONDENSATION PRODUCTS—NAMELY, SYNTHETIC RESINS AND INTERMEDIATE CONDENSATION PRODUCTS FORMED IN THE COURSE OF MANUFACTURE OF RESINS.
Claims use since June 3, 1942.

Ser. No. 455,335. THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio. Filed Sept. 4, 1942.

DUROFORM

FOR SYNTHETIC ORGANIC RESINS, AND POWDERS, STRANDS, FILAMENTS, FIBRES, WEBS, AND MOLDING MIXTURES MADE IN WHOLE OR IN PART OF SYNTHETIC ORGANIC RESINS AND ADAPTED TO BE EMPLOYED IN THE FABRICATION OF THREAD, FABRICS, SCREENS, AND CONDUITS, AND FOR OTHER USES IN THE INDUSTRIAL ARTS.
Claims use since Dec. 2, 1941.

Ser. No. 455,838. ARALAC, INC., New York, N. Y. Filed Sept. 29, 1942.

AMERLAC

FOR FIBROUS MATERIALS IN THE FORM OF FILAMENTS OF STAPLE OR LONGER LENGTHS PRODUCED FROM PROTEINACEOUS SUBSTANCES.
Claims use since Aug. 6, 1942.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 451,671. COLGATE-PALMOLIVE-PEET COMPANY, Jersey City, N. J. Filed Mar. 17, 1942.

NYRAY

FOR SOAP.
Claims use since Feb. 10, 1942.

Ser. No. 451,733. LEE H. THOMPSON, doing business as Southern Supply Company, Pasadena, Calif. Filed Mar. 18, 1942.

CHEM-CREAM

The word "Cream" is disclaimed apart from the mark.
FOR WASHING PREPARATIONS — NAMELY, WASHES FOR AUTOMOBILES, TRUCK BODIES, AND AIRPLANES.
Claims use since Jan. 15, 1939.

Ser. No. 452,084. ANN RUSSELL, doing business as The Russell Chemical Company, Cleveland, Ohio. Filed Apr. 1, 1942.

SOLVEASE

FOR CRYSTALLINE CLEANING POWDER.
Claims use since Aug. 13, 1934.

Ser. No. 457,276. JULIUS E. JOHNSON, doing business as J. E. Johnson & Co., Chicago, Ill. Filed Dec. 8, 1942.

WATAWAX

FOR CLEANING COMPOUND HAVING INCIDENTAL POLISHING PROPERTIES FOR USE ON FURNITURE, AUTOMOBILES, WOODWORK, PAINTED WALLS, FLOORS, GLASS, AND PORCELAIN.
Claims use since Dec. 1, 1936.

CLASS 5

ADHESIVES

Ser. No. 436,937. MINNESOTA MINING & MANUFACTURING COMPANY, St. Paul, Minn. Filed Oct. 14, 1940.

Wetordry

FOR PRESSURE-SENSITIVE ADHESIVE TAPE.
Claims use since Feb. 23, 1940.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 446,483. BABS CREATIONS, INCORPORATED, New York, N. Y. Filed Aug. 23, 1941.

Blossomscent

BY Babs

The term "Blossomscent" is disclaimed apart from the mark.
FOR PERFUMERY AND COSMETICS—NAMELY, FACE CREAM, FACE POWDER, ROUGE, AND LIPSTICK.
Claims use since Aug. 15, 1941.

Ser. No. 449,090. CHARLES OF THE RITZ, INC., New York, N. Y. Filed Dec. 2, 1941.

PARFUMETTE

FOR PERFUMES AND TOILET WATER.
Claims use since Nov. 24, 1941.

Ser. No. 450,290. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland. Filed Jan. 17, 1942.

SAPAMINE

FOR INTESTINAL ANTISEPTIC AND AN INTERNAL DISINFECTANT.
Claims use since April, 1934.

Ser. No. 454,567. ALBI CHEMICAL CORPORATION, New York, N. Y. Filed July 29, 1942.

ALBI

FOR CHEMICAL PREPARATIONS FOR TREATING FIBROUS MATERIAL TO MAKE SAME FIREPROOF, WATERPROOF, OR MILDEWPROOF.
Claims use since July 15, 1942.

Ser. No. 455,174. COMMERCIAL SOLVENTS CORPORATION, New York, N. Y. Filed Aug. 29, 1942.

ACITERGE

FOR CHEMICAL COMPOSITIONS OF AN ACID-SOLUBLE, STABLE, SURFACE-ACTIVE CHARACTER, HAVING A GENERAL USE IN THE INDUSTRIAL ARTS, SUCH AS SCOURING AGENTS FOR WOOL, FLOTATION AGENTS, INGREDIENTS OF RUST-PROOFING AND METAL CLEANING COMPOSITIONS, EMULSIFYING AGENTS, AND THE LIKE.
Claims use since June 15, 1942.

Ser. No. 455,175. COMMERCIAL SOLVENTS CORPORATION, New York, N. Y. Filed Aug. 29, 1942.

AMININE S

FOR CHEMICAL COMPOUNDS HAVING CATIONIC PROPERTIES, HAVING A GENERAL USE IN THE INDUSTRIAL ARTS, SUCH AS IMPROVING THE HANDLE OF COTTON AND RAYON GOODS, AS TEXTILE FINISHING AGENTS, AS WETTING AGENTS, AND THE LIKE.
Claims use since June 29, 1942.

Ser. No. 456,156. PARKE, DAVIS & COMPANY, Detroit, Mich. Filed Oct. 12, 1942.

SULFA-THEDRIN

FOR PREPARATION USED IN THE TREATMENT OF DISEASES OF THE RESPIRATORY TRACT.
Claims use since Sept. 25, 1942.

Ser. No. 456,724. PURITAN CHEMICAL COMPANY, Atlanta, Ga. Filed Nov. 9, 1942.

AWN-NU

FOR CHEMICAL PREPARATION FOR TREATING, PRESERVING, OR MAKING FABRICS WATER REPELLENT.
Claims use since Oct. 22, 1942.

Ser. No. 457,074. THE CHICAGO PHARMACAL COMPANY, Chicago, Ill. Filed Nov. 27, 1942.

SPASTOSED

FOR PREPARATION FOR USE IN THE TREATMENT OF SPASTIC CONDITIONS OF THE STOMACH AND BOWELS.
Claims use since Nov. 4, 1942.

Ser. No. 457,293. AMERICAN DRUGGISTS SYNDICATE, INC., Long Island City, N. Y. Filed Dec. 9, 1942.

ADSPLEX

FOR VITAMIN PREPARATION.
Claims use since Nov. 15, 1942.

Ser. No. 457,469. HOFFMAN-LA ROCHE, INC., Nutley, N. J. Filed Dec. 17, 1942.

"HANDY VI-MIX"

The words "Handy" and "Mix" are disclaimed apart from the mark.
FOR VITAMIN PREPARATION USED AS A FOOD SUPPLEMENT.
Claims use since Dec. 2, 1942.

Ser. No. 457,762. LIBERTY VITAMIN CORPORATION, New York, N. Y. Filed Jan. 5, 1943.

DEACIN

FOR VITAMIN PREPARATION IN CAPSULE FORM FOR THE TREATMENT OF ARTHRITIS AND CERTAIN FORMS OF ACNE AND PSORIASIS.
Claims use since Dec. 21, 1942.

Ser. No. 457,764. LIBERTY VITAMIN CORPORATION, New York, N. Y. Filed Jan. 5, 1943.

PROVIMIN

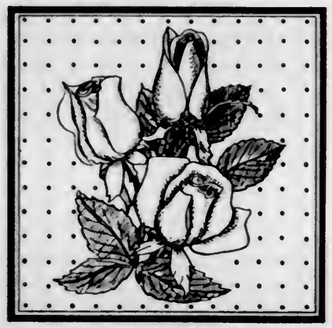
FOR MULTIPLE VITAMIN MINERAL THERAPY, VITAMINS IN CAPSULE FORM AND MINERALS IN TABLET FORM.
Claims use since Dec. 21, 1942.

Ser. No. 457,795. JOHN L. NORRIS, JR., doing business as Victus Products, Lyndonville, Vt. Filed Jan. 7, 1943.

VICTUS

FOR OINTMENT FOR USE IN THE TREATMENT OF MINOR CUTS AND BURNS.
Claims use since Dec. 28, 1942.

Ser. No. 457,808. FLOWER FOODS, INC., Maywood, Ill. Filed Jan. 8, 1943.



FOR COMPOSITION CONTAINING CHEMICAL INGREDIENTS FOR STRENGTHENING, STERILIZING, FEEDING, AND PROMOTING THE DEVELOPMENT OF CUT PLANTS AND ADAPTED TO BE ADDED TO WATER IN WHICH THE PLANTS ARE IMMERSED.
Claims use since Feb. 1, 1939.

Ser. No. 458,010. THE EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y. Filed Jan. 19, 1943.

PANTOPAQUE

FOR CONTRAST MEDIUM FOR RADIOGRAPHY.
Claims use since Dec. 28, 1942.

Ser. No. 458,045. PREMO PHARMACEUTICAL LABORATORIES, INC., New York, N. Y. Filed Jan. 20, 1943.

BEADOX

FOR PREPARATION OF PYRIDOXINE HYDROCHLORIDE FOR TREATMENT OF DEFICIENCY IN B COMPLEX FACTORS.
Claims use since October, 1942.

Ser. No. 458,046. PREMO PHARMACEUTICAL LABORATORIES, INC., New York, N. Y. Filed Jan. 20, 1943.

NIOMIDE

FOR VITAMIN CONCENTRATE IN CAPSULE, TABLET, AND LIQUID FORM.
Claims use since September, 1942.

CLASS 8

SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 453,106. THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio. Filed May 19, 1942.

Firestone

FOR ASH TRAYS.
Claims use since Nov. 1, 1926.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 456,185. HORDERN-RICHMOND AIRCRAFT LIMITED, Haddenham, England. Filed Oct. 14, 1942.

HYDULIGNUM

FOR PLYWOOD.
Claims use since Oct. 15, 1938.

Ser. No. 457,492. A. B. CHANCE COMPANY, Centralia, Mo. Filed Dec. 18, 1942.

TIPS

FOR LINEMEN'S PLATFORMS, PLATFORM RAILINGS AND LIVE LINE GUARDS COMPRISING RECTANGULAR WOODEN TROUGHS WHICH COVER AND ARE SUPPORTED BY THE LINE AT A CROSS ARM TO PROTECT THE LINEMEN FROM THE LINE AND PERMIT THEM TO SIT OR STAND ON THE CROSS SUPPORT BY THE LINE.
Claims use since Jan. 1, 1926.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 446,743. NATIONAL TECHNICAL LABORATORIES, South Pasadena, Calif. Filed Sept. 2, 1941.

STERIMATIC

FOR AUTOMATIC GERMICIDE MIXERS AND DISPENSERS FOR USE IN DISH AND SIMILAR STERILIZING.
Claims use since Aug. 22, 1937.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 455,269. INDUSTRIAL SALES CORPORATION, New York, N. Y. Filed Sept. 2, 1942.

INDUSSA BRAND

Applicant disclaims the word "Brand" apart from the mark.

FOR LINSEED OIL, DENATURED ALCOHOL USED IN THINNING PAINTS AND DISSOLVING SHELLACS, PINE OIL FOR USE IN PAINTS, DIPENTENE USED AS A PAINT THINNER AND STEAM DISTILLED WOOD TURPENTINE.

Claims use since Apr. 27, 1942.

Ser. No. 457,272. CLAIRE MANUFACTURING COMPANY, Chicago, Ill. Filed Dec. 8, 1942.

JINX

FOR SELF POLISHING WAX FOR FLOORS, LINOLEUM, AND FURNITURE.

Claims use since June 1, 1941.

Ser. No. 457,451. SAPOLIN CO. INC., New York, N. Y. Filed Dec. 16, 1942.

SO-NU

Applicant does not claim the word "New" or its phonetic equivalent "Nu" apart from the mark.

FOR OIL BASE PAINTS FOR INTERIOR USE.

Claims use since November, 1942.

Ser. No. 457,879. MASURY-YOUNG COMPANY, Boston, Mass. Filed Jan. 12, 1943.

SOLE-GRIP

FOR FLOOR DRESSING.

Claims use since Sept. 17, 1942.

Ser. No. 457,893. EDWARD S. CARMACK, doing business as Zip Manufacturing Company, Little Rock, Ark. Filed Jan. 13, 1943.

ZIMCO

FOR FURNITURE POLISH.

Claims use since Nov. 22, 1941.

CLASS 19

VEHICLES, NOT INCLUDING ENGINES

Ser. No. 456,184. HORDERN-RICHMOND AIRCRAFT LIMITED, Haddenham, England. Filed Oct. 14, 1942.

HYDULIGNUM

FOR AEROPLANES MADE PRINCIPALLY OF WOOD AND WOODEN STRUCTURAL PARTS THEREOF.

Claims use since Oct. 15, 1938.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 454,317. ALFRED M. VOIT, Louisville, Ky. Filed July 18, 1942.

LIBERTY

FOR BOARD GAME PLAYED IN CONJUNCTION WITH CARDS.

Claims use since June 10, 1942.

Ser. No. 456,996. VOLUME SPRAYER MANUFACTURING CO., INC., Tulsa, Okla. Filed Nov. 23, 1942.

Kick-O-Lick

FOR GAME CONSISTING OF ONE OR MORE PLAYING BALLS, BASKETS FOR RECEIVING THE BALLS, AND ACTUATING DEVICES FOR MANIPULATING SAID BALLS.

Claims use since July 11, 1942.

Ser. No. 458,021. SIRE-PHILLIPS, INC., Dalton, Ga., and New York, N. Y. Filed Jan. 19, 1943.

RUFTY-TUFTY

FOR STUFFED ANIMAL TOYS AND DOLLS.

Claims use since Sept. 10, 1942.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 443,798. AERONAUTICAL PRODUCTS, INC., Detroit, Mich. Filed May 22, 1941.



FOR PRECISION INTERNAL COMBUSTION ENGINE PARTS—NAMELY, TAPPETS, CAMS AND BUSHINGS.

Claims use since October, 1940.

Ser. No. 455,049. ELEVATOR SAFETY CORPORATION, New York, N. Y. Filed Aug. 22, 1942.

ELSCO

FOR ELEVATOR ROLLER GUIDES.

Claims use since Jan. 1, 1941.

Ser. No. 456,649. AMERICAN RAW HIDE PRODUCTS CO., Providence, R. I. Filed Nov. 5, 1942.



FOR MALLETS AND HAMMERS HAVING RAWHIDE FACES, AND RAWHIDE FACES FOR HAMMERS AND LOOM PICKERS, AND SWEEPSTICK HEADS FOR LOOMS.

Claims use since July, 1932.

Ser. No. 457,386. DIAMOND CALK HORSESHOE COMPANY, Duluth, Minn. Filed Dec. 14, 1942.

DIAMALLOY

FOR WRENCHES AND PARTS THEREOF, ADJUSTABLE HAND WRENCHES, WRENCH SETS AND CASES, COUNTER ADVERTISING CARDS DISPLAYING WRENCHES, MOTOR PUMP PLIERS, BATTERY PLIERS, SIDE CUTTING PLIERS, LONG NOSE PLIERS, LONG NOSE SIDE CUTTING PLIERS, DIAGONAL CUTTING PLIERS, NEEDLE NOSE PLIERS, HEAVY DUTY PLIERS, AND STAPLE PULLERS.

Claims use since 1931.

Ser. No. 457,387. DIAMOND CALK HORSESHOE COMPANY, Duluth, Minn. Filed Dec. 14, 1942.

DIAMOND

FOR SINGLE END ADJUSTABLE WRENCHES, DOUBLE END ADJUSTABLE WRENCHES, WRENCH PARTS, COUNTER ADVERTISING BOARDS DISPLAYING WRENCHES, THIN STRAIGHT NOSED PLIERS, THIN BENT NOSED PLIERS, MOTOR SPECIAL PLIERS, D. C. COMBINATION SLIPJOINT PLIERS, NUMBER 1000 PLIERS, SIDE CUTTING PLIERS, CRATE OPENERS, HORSESHOE CALK EXTRACTORS, BOTH SINGLE AND DOUBLE ENDED; CALK PUNCHES, MACHINE AND HAND THREAD-FORMING TAPS.

Claims use since 1920.

Ser. No. 457,458. CAMLOC FASTENER COMPANY, New York, N. Y. Filed Dec. 17, 1942.



FOR TOOLS—NAMELY, DRILLS, COUNTER-SINKS, COUNTER-BORES, PUNCHES, DIES, PLIERS, AND SIMILAR TOOLS FOR DRILLING, COUNTER-SINKING, AND DIMPLING SHEET MATERIAL.

Claims use since Aug. 19, 1938.

Ser. No. 458,056. THE WESTINGHOUSE AIR BRAKE COMPANY, Borough of Wilmerding, Pa. Filed Jan. 20, 1943.

STARTLOR

FOR PNEUMATIC HORNS, AND AIR RAID ALARM EQUIPMENTS OF THE CLASS INCLUDING A HORN OR HORNS OPERABLE THROUGH THE MEDIUM OF AN ELECTRICAL OR FLUID PRESSURE CONTROL SYSTEM.

Claims use since June 5, 1942.

Ser. No. 458,135. AMERICAN ART ALLOYS, INC., Kokomo, Ind. Filed Jan. 25, 1943.

Dirilyte

FOR KNIVES, FORKS, AND OTHER TABLE FLATWARE, MADE OF NONPRECIOUS METAL.

Claims use since June 24, 1938.

Ser. No. 458,139. AMERICAN ART ALLOYS, INC., Kokomo, Ind. Filed Jan. 25, 1943.

DIRILYTE

FOR KNIVES, FORKS, AND OTHER TABLE FLATWARE, MADE OF NONPRECIOUS METAL.

Claims use since June 24, 1938.

Ser. No. 458,140. AMERICAN ART ALLOYS, INC., Kokomo, Ind. Filed Jan. 25, 1943.

Dirilyte

FOR KNIVES, FORKS, AND OTHER TABLE FLATWARE, MADE OF NONPRECIOUS METAL.

Claims use since June 24, 1938.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 457,733. WOLLENSAK OPTICAL COMPANY, Rochester, N. Y. Filed Jan. 2, 1943.

Rapax

FOR PHOTOGRAPHIC SHUTTERS.
Claims use since July 1, 1942.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 453,286. WALTHAM WATCH COMPANY, Waltham, Mass. Filed May 26, 1942.

WALTHAM
PREMIER

Applicant is owner of Regs. Nos. 82,124 and 99,132, both effected under the 10-year proviso and both renewed.
FOR WATCHES, CLOCKS, CHRONOMETERS, WATCH CASES, CLOCK CASES, AND PARTS OF EACH OF THE FOREGOING.
Claims use since September, 1908.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 455,483. METAL FINDINGS CORPORATION, New York, N. Y. Filed Sept. 11, 1942.

MFC

FOR METAL JEWELERS' FINDINGS—NAMELY, METAL CLIPS, METAL PINS, METAL BARS, METAL HOOKS AND EYES, METAL SAFETY CATCHES, AND METAL FRENCH TONGUES.
Claims use since July 1, 1941.

Ser. No. 456,864. COHN & ROSENBERGER, INC., New York, N. Y. Filed Nov. 17, 1942.

MERINGUE

FOR NECKLACES AND BRACELETS, FINGER RINGS, EARRINGS, JEWELRY CLIPS, BROOCHES, LOCKETS, AND THE FOLLOWING GOODS MADE IN WHOLE OR IN PART OF PRECIOUS METAL OR PLATED WITH SAME; BEADS, PINS, HAT ORNAMENTS, HAIR ORNAMENTS, HOLDERS FOR FACE POWDER COMPACTS, COMB CASES, FANCY CIGARETTE BOXES, FANCY BUCKLES, AND JEWELRY INITIALS.
Claims use since August, 1942.

Ser. No. 456,865. COHN & ROSENBERGER, INC., New York, N. Y. Filed Nov. 17, 1942.

SCINTILLA

FOR NECKLACES AND BRACELETS, FINGER RINGS, EARRINGS, JEWELRY CLIPS, BROOCHES, LOCKETS, AND THE FOLLOWING GOODS MADE IN WHOLE OR IN PART OF PRECIOUS METAL OR PLATED WITH SAME; BEADS, PINS, HAT ORNAMENTS, HAIR ORNAMENTS, HOLDERS FOR FACE POWDER COMPACTS, COMB CASES, FANCY CIGARETTE BOXES, FANCY BUCKLES, AND JEWELRY INITIALS.
Claims use since January, 1933.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 457,870. DURA FIXTURE COMPANY, Statesville, N. C. Filed Jan. 12, 1943.

DURABED

FOR CONVERTIBLE STUDIO DAVENPORT BEDS.
Claims use since Dec. 29, 1942.

Ser. No. 457,891. HERBERT HENRY BERNSTEIN, doing business as Typosture Chair Co., New York, N. Y. Filed Jan. 13, 1943.

TYPOSTURE CHAIR

No claim is made to the word "Chair" apart from the mark.
FOR OFFICE CHAIRS.
Claims use since Dec. 1, 1942.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 453,756. CARNA M. KIMBERLIN, doing business as Kimberlin Manufacturing Co., Spokane, Wash. Filed June 19, 1942.

KIM
Hotstart

The word "Hotstart" is disclaimed apart from the mark.
FOR HEATERS USING LIQUID FUELS AS GASOLINE, KEROSENE, STOVE OIL OR LIGHT WEIGHT FUEL OIL, AND USED IN MAINTAINING TEMPERATURES IN WATER AND OIL SYSTEMS AND INTERNAL COMBUSTION ENGINES.
Claims use since Sept. 2, 1941.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 456,951. BETTER MONKEY GRIP CO., Arlington, Tex. Filed Nov. 21, 1942.

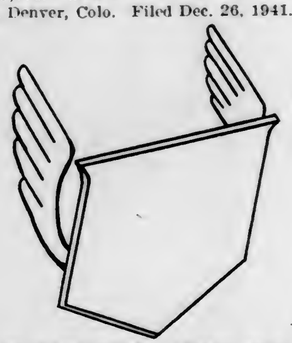
Feather-Flex

FOR TIRE CASING AND TUBE PATCHES AND TIRE AND TUBE PATCHING KITS FOR USE EITHER AS A VULCANIZING UNIT OR AS A COLD REPAIRING UNIT.
Claims use since Oct. 12, 1942.

CLASS 37

PAPER AND STATIONERY

Ser. No. 449,778. THE PASS BOOK AND CHECK COVER COMPANY, Denver, Colo. Filed Dec. 26, 1941.



FOR BANK PASS BOOKS, COVER FOR BOOKS—NAMELY, CHECK BOOKS, TELEPHONE DIRECTORIES, MENUS, SCHOOL ANNUALS, AND CARD CASES, COVERS FOR CATALOGUES, AND LOOSE LEAF FORMS.
Claims use since Dec. 10, 1941.

Ser. No. 453,105. THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio. Filed May 19, 1942.

Firestone

FOR FOUNTAIN PENS, MECHANICAL PENCILS AND WOODEN LEAD PENCILS.
Claims use since Nov. 1, 1936, on fountain pens; and since Jan. 1, 1927, on pencils.

Ser. No. 454,313. ROCKWELL-BARNES COMPANY, Chicago, Ill. Filed July 18, 1942.

WIRELESS

FOR NOTE BOOKS AND BLANK BOOKS.
Claims since since July 8, 1942.

Ser. No. 456,856. UNITED WALL PAPER FACTORIES, INC., Chicago, Ill. Filed Nov. 16, 1942.

VALU-PAK

The word "Pak" is disclaimed apart from the mark.
FOR WALL PAPER.
Claims use since Nov. 11, 1942.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 457,333. FIELD PUBLICATIONS, Brooklyn, N. Y. Filed Dec. 11, 1942.

THE SCUTTLES

FOR SERIES OF CARTOONS.
Claims use since Oct. 12, 1942.

Ser. No. 457,810. ROBERT HARRISON, New York, N. Y. Filed Jan. 8, 1943.

EYEFUL

FOR PICTORIAL MAGAZINE PUBLISHED PERIODICALLY.
Claims use since Dec. 15, 1942.

CLASS 39

CLOTHING

Ser. No. 449,842. GERALD F. MILLER, doing business as Checkers Clothing Company, Dallas, Tex. Filed Dec. 29, 1941.

SPORTS GUILD

The word "Sports" is disclaimed apart from the mark.
FOR WOMEN'S SLACK SUITS, WOMEN'S PLAY SUITS, WOMEN'S SHORT SPORT JACKETS, WOMEN'S TAILORED SKIRTS AND DRESSES AND JACKET SETS.
Claims use since Dec. 15, 1941.

Ser. No. 453,689. ARROW IMPORTING COMPANY, INC., Cleveland, Ohio. Filed June 16, 1942.



FOR WEARING APPAREL FOR MEN, WOMEN, AND CHILDREN—NAMELY, JACKETS, COATS, REVERSIBLE COATS, AND RAINCOATS.
Claims use since Jan. 10, 1940.

Ser. No. 457,499. KATZ & BURKIN, New York, N. Y. Filed Dec. 18, 1942.

BLUE SWAN

FOR HOSIERY.
Claims use since 1926.

Ser. No. 457,803. APOLLO SHIRT COMPANY, New York, N. Y. Filed Jan. 8, 1943.

"DRY-AIRE"

FOR MEN'S DRESS, SPORT, AND MILITARY SHIRTS MADE OF TEXTILE FABRICS CONSISTING OF COTTON, RAYON, OR MIXTURES THEREOF AND FOR MEN'S UNDERSHIRTS AND SWEATERS.
Claims use since Dec. 11, 1942.

Ser. No. 457,882. RENART SPORTSWEAR CORP., New York, N. Y. Filed Jan. 12, 1943.

ZAZZY

FOR WOMEN'S AND GIRLS' SWEATERS.
Claims use since Dec. 15, 1942.

Ser. No. 457,935. S. S. KRESGE COMPANY, Detroit, Mich. Filed Jan. 15, 1943.

SNO-MIST

FOR LADIES' SLIPS.
Claims use since Sept. 4, 1942.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 457,861. OLIVER & KAUFMAN, New York, N. Y. Filed Jan. 11, 1943.

SLIPHOLSTERY

FOR TEXTILE FABRICS, IN THE PIECE, IN THE BOLT, AND AS REMOVABLE AND NON-REMOVABLE SLIPCOVERS, MADE OF COTTON, RAYON, AND MIXTURES THEREOF.
Claims use since Oct. 15, 1942.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 457,207. FRANCES POMILLA, doing business as Beaux Arts Professional Instrument Mfg. Co. and Beaux Arts Instruments Co., Passaic, N. J. Filed Dec. 4, 1942.

The DOCTOR

FOR ELECTRIC NEEDLE MACHINES FOR KILLING THE ROOTS OF, OR THE REMOVAL OF, UNDESIRED HUMAN HAIR BY ELECTROLYSIS.
Claims use since July 1, 1938.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 443,939. KITCHEN ART FOODS INC., Chicago, Ill. Filed May 26, 1941.



FOR FOOD PRODUCTS AND INGREDIENTS THEREOF COMPRISING DRY, DEHYDRATED OR PARTLY DEHYDRATED MIXTURES FOR USE IN THE PREPARATION OF SOUPS, PIE CRUST, MUFFINS, POWDERED OR GRANULAR FLAVORING PREPARATIONS ADAPTED TO BE USED IN MAKING, FLAVORING AND INCIDENTALLY COLORING SHERBETS OR OTHER FOOD OR FOOD BEVERAGES, TEA, SPANISH RICE, TABLE SYRUP, AND DRY, DEHYDRATED OR PARTLY DEHYDRATED ONION, PARSLEY AND CELERY POWDERS.
Claims use since May 16, 1939.

Ser. No. 445,625. F. E. BOOTH COMPANY, INC., San Francisco, Calif. Filed July 25, 1941.



FOR CANNED FRUITS, CANNED VEGETABLES, CANNED FISH, CANNED SHAD ROE, CANNED VEGETABLE JUICES FOR FOOD PURPOSES, CANNED TOMATO PASTE, TOMATO CATSUP, AND CANNED CHICKEN.
Claims use for canned fruits, vegetables and fish since 1880; for tomato catsup and tomato paste since 1920; for canned vegetable juices since June, 1936; and for canned chicken since May, 1941.

Ser. No. 448,958. THE BORDEN COMPANY, New York, N. Y. Filed Nov. 27, 1941.

Baby Beulahs

FOR TAFFY CARAMELS.
Claims use since Nov. 1, 1941.

Ser. No. 453,392. CANDY LANE INC., Beverly Hills, Los Angeles, and Glendale, Calif. Filed June 1, 1942.



The words "Candy" and "Fine Confections" are disclaimed apart from the mark.
FOR CERTAIN CANDIES AND CANDY CONFECTIONS—NAMELY, BURNT ALMONDS, BON BONS, BRITTLES, CARAMELS, CHEWS, CHOCOLATES, COFFEE ROYALS, ENGLISH TAFFEE, FUDGE, GLACE FRUIT, AND HARD CANDIES.
Claims use since Mar. 21, 1935.

Ser. No. 455,053. LUXURY MINT & GUM COMPANY, Chicago, Ill. Filed Aug. 22, 1942.

LUXURY

FOR CHEWING GUM, MINT AND HARD CANDY.
Claims use for gum since July 22, 1938; and for mints and candies since March 10, 1937.

Ser. No. 455,058. WILSON & CO., INC., Chicago, Ill. Filed Aug. 22, 1942.

Gela Seald

Applicant disclaims the word "Seald" apart from the mark.
FOR GELATINE COATED FRESH AND CURED MEATS—NAMELY, BEEF, LAMB, VEAL, PORK, HAMS, PICNICS, BUTTS, BACON, SAUSAGE, MEAT LOAVES AND POULTRY.
Claims use since Nov. 5, 1940.

Ser. No. 457,110. ARIZONA FARMS, Tolleson, Ariz. Filed Nov. 30, 1942.



FOR FRESH VEGETABLES.
Claims use since Nov. 18, 1942.

Ser. No. 457,671. BLANEY BAKERIES, INC., Philadelphia, Pa. Filed Dec. 31, 1942.

BARKFOR'T

FOR DOG FOOD.
Claims use since Nov. 12, 1942.

Ser. No. 457,844. MAX AMS, INC., New York, N. Y. Filed Jan. 11, 1943.

PRUN-VAR

Applicant disclaims "Prun" apart from the mark.
FOR PRUNE BUTTER.
Claims use since Oct. 15, 1942.

CLASS 47

WINES

Ser. No. 454,048. THE ARDRICH COMPANY, London, England. Filed July 4, 1942.

RICARLO

FOR WINES.
Claims use since Jan. 31, 1940.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

MARCH 9, 1943

400,391. GENUINE CREPE HOSIERY. C. CRAWFORD HOLLIDGE, LTD., Boston, Mass.
Filed October 26, 1939. Serial No. 424,940. PUBLISHED SEPTEMBER 9, 1941. Class 39.

400,392. MEN'S COATS, VESTS, TROUSERS, OVERCOATS, AND TOPCOATS. GOODMAN & SUSS CLOTHES CORPORATION, New York, N. Y.
Filed April 6, 1940. Serial No. 430,446. PUBLISHED JUNE 30, 1942. Class 39.

400,393. COLOGNE, DUSTING POWDER AND BATH OIL. PRINCE MATCHABELLI, INC., New York, N. Y.
Filed November 7, 1942. Serial No. 456,689. PUBLISHED DECEMBER 29, 1942. Class 6.

400,394. NIPPLES, PACIFIERS, NURSING BOTTLE TOPS, TEETHING RINGS, COTTON SWABS, NIPPLE PROTECTORS, HOT WATER BOTTLES, AND SYRINGES FOR EARS, NOSE AND RECTUM. NAT P. STECKLER, New York, N. Y.
Filed May 8, 1940. Serial No. 431,716. PUBLISHED DECEMBER 29, 1942. Class 44.

400,395. TEA, FRESH CREAM, SUGAR. FAN AND BILL'S, INC., New York, N. Y.
Filed October 3, 1940. Serial No. 436,602. PUBLISHED DECEMBER 29, 1942. Class 46.

400,396. CLOTHING—NAMELY, KNEE OR FULL LENGTH AND LACE, KNITTED, OR BUTTON BOTTOM BREECHES, COATS, SHEEPSKIN OR CLOTH HUNTING COATS. THE DRYBAK CORPORATION, Binghamton, N. Y.
Filed August 18, 1941. Serial No. 446,317. PUBLISHED DECEMBER 22, 1942. Class 39.

400,397. WHEAT FLOUR. ADA MILLING COMPANY, Ada, Okla.
Filed September 23, 1941. Serial No. 447,263. PUBLISHED DECEMBER 29, 1942. Class 46.

400,398. HARD AND SOFT WATER TOILET SOAP. SEA PRODUCTS LABORATORIES, INC., New York, N. Y.
Filed October 17, 1941. Serial No. 447,894. PUBLISHED DECEMBER 29, 1942. Class 4.

400,399. SOAP. SEA PRODUCTS LABORATORIES, INC., New York, N. Y.
Filed November 12, 1941. Serial No. 448,586. PUBLISHED DECEMBER 29, 1942. Class 4.

400,400. PLASTIC COMPOSITIONS CONSISTING PRINCIPALLY OF RUBBER FOR REPAIRING FOOTWEAR. RHINO-SOLE LIMITED, West Croydon, England.
Filed March 13, 1942. Serial No. 451,612. PUBLISHED DECEMBER 29, 1942. Class 5.

400,401. PREPARATIONS USED IN TREATMENT OF FUNGUS AND OTHER INFECTIONS. PARKE, DAVIS & COMPANY, Detroit, Mich.
Filed March 23, 1942. Serial No. 451,849. PUBLISHED MAY 5, 1942. Class 6.

400,402. PREPARATION USED IN PREVENTION AND TREATMENT OF NUTRITIONAL DISTURBANCES. PARKE, DAVIS & COMPANY, Detroit, Mich.
Filed March 23, 1942. Serial No. 451,851. PUBLISHED JUNE 30, 1942. Class 6.

400,403. SPAGHETTI SAUCE, SPAGHETTI, MACARONI, NOODLES, AND VERMICELLI. KENTUCKY MACARONI COMPANY, Louisville, Ky.
Filed March 28, 1942. Serial No. 452,063. PUBLISHED DECEMBER 29, 1942. Class 46.

400,404. VITAMIN B COMPLEX CONCENTRATES AND ELIXIRS AND TONICS CONTAINING THE VITAMIN B COMPLEX. GALEN COMPANY, Berkeley, Calif.
Filed April 1, 1942. Serial No. 452,070. PUBLISHED DECEMBER 22, 1942. Class 6.

400,405. HEAVIER THAN AIR AIRCRAFT. THE GLENN L. MARTIN COMPANY, Baltimore and Middle River, Md.
Filed April 1, 1942. Serial No. 452,078. PUBLISHED DECEMBER 29, 1942. Class 19.

400,406. ELIXIRS, TONICS, ADSORBATES, TABLETS, PILLS, VIALS, AND AMPOULES CONTAINING ONE OR MORE VITAMINS AND/OR FILTRATE FACTORS. GALEN COMPANY, Berkeley, Calif.
Filed April 10, 1942. Serial No. 452,266. PUBLISHED DECEMBER 22, 1942. Class 6.

400,407. ELIXIRS, TONICS, ADSORBATES, TABLETS, PILLS, VIALS, AND AMPOULES CONTAINING ONE OR MORE VITAMINS AND/OR FILTRATE FACTORS. GALEN COMPANY, Berkeley, Calif.
Filed April 10, 1942. Serial No. 452,267. PUBLISHED DECEMBER 22, 1942. Class 6.

400,408. WALLETS AND KEYCASES. A. & L. SEAMON INC., Brooklyn, N. Y.
Filed April 10, 1942. Serial No. 452,278. PUBLISHED DECEMBER 29, 1942. Class 3.

400,409. LADIES' AND MISSES' KNITTED DRESSES, BLOUSES, SKIRTS, JACKETS AND SWEATERS. JOSEPH GUTTMAN & BROS., New York, N. Y.
Filed April 15, 1942. Serial No. 452,349. PUBLISHED JUNE 16, 1942. Class 39.

400,410. GLASS CLEANING PREPARATION, SWEEPING COMPOUND, LAUNDRY SOAP, AND SOAP POWDER. PLEE-ZING, INC., doing business as Household Products Co., Chicago, Ill., assignor to Household Products Co., a corporation of Illinois.
Filed April 24, 1942. Serial No. 452,567. PUBLISHED DECEMBER 29, 1942. Class 4.

400,411. TOILET PREPARATION FOR THE HAIR IN THE FORM OF A POMADE. NATIONAL DRUG AND CHEMICAL COMPANY OF CANADA, LIMITED, Montreal, Quebec, Canada.
Filed April 28, 1942. Serial No. 452,648. PUBLISHED DECEMBER 22, 1942. Class 6.

400,412. OLEOMARGARINE. H. L. BARKER, INCORPORATED, New York, N. Y.
Filed May 4, 1942. Serial No. 452,761. PUBLISHED DECEMBER 29, 1942. Class 46.

400,413. BEVERAGES SOLD AS SOFT DRINKS; QUININE WATER; CLUB SODA, AND MINERAL WATER. R. C. WILLIAMS & COMPANY, INC., New York, N. Y.
Filed June 13, 1942. Serial No. 453,652. PUBLISHED DECEMBER 29, 1942. Class 45.

400,414. BLUING, LYE AND POTASH, DISINFECTANTS, INSECTICIDES, AMMONIA, AMMONIA POWDER, BLEACH, BORAX, JAVELLE WATER, CHLORIDE OF LIME, SAL SODA, AND FOOD COLORINGS. R. C. WILLIAMS & COMPANY, INC., New York, N. Y.
Filed June 13, 1942. Serial No. 453,655. PUBLISHED DECEMBER 29, 1942. Class 6.

400,415. MEN'S SPORTS JACKETS AND SHIRTS. HOLLYWOOD HIGHLAND SPORTSWEAR COMPANY, Glendale, Calif.
Filed June 15, 1942. Serial No. 453,671. PUBLISHED DECEMBER 29, 1942. Class 39.

400,416. MILK FOOD PRODUCTS—NAMELY, A CULTURED CURDLED MILK FOR HUMAN CONSUMPTION. JOSEPH F. MOORE, St. George, Staten Island, N. Y.
Filed June 22, 1942. Serial No. 453,808. PUBLISHED DECEMBER 29, 1942. Class 46.

400,417. CHEMICAL PREPARATION FOR INCREASING THE LIFE AND EFFICIENCY OF ELECTRIC STORAGE BATTERIES, TO PREVENT SULPHATION AND CORROSION, TO REDUCE HEATING OF BATTERIES. SAMUEL SCHIMMEL, doing business as Pepco Chemical Products Company, Philadelphia, Pa.
Filed June 29, 1942. Serial No. 453,947. PUBLISHED DECEMBER 29, 1942. Class 6.

400,418. PREPARATION CONSISTING OF AN ANTISEPTIC SOLUTION CONTAINING PHENYL MERCURIC SALTS TO BE USED AS A GERMICIDE FOR PRESURGICAL PREPARATION AND FIRST AID ANTISEPSIS. ENDO PRODUCTS, INC., New York, N. Y.
Filed June 30, 1942. Serial No. 453,957. PUBLISHED AUGUST 25, 1942. Class 6.

400,419. CHOCOLATE FLAVORED SYRUP FOR FOOD PURPOSES. WILBUR-SUCHARD CHOCOLATE COMPANY, INCORPORATED, Borough of Lititz, Pa.
Filed July 1, 1942. Serial No. 453,997. PUBLISHED DECEMBER 29, 1942. Class 46.

400,420. VITAMIN CAPSULES. C. A. FUTTER, doing business as The Carlay Co., Chicago, Ill.
Filed July 15, 1942. Serial No. 454,227. PUBLISHED DECEMBER 22, 1942. Class 6.

400,421. WOMEN'S AND MISSES' COATS. THE LEVENSON COMPANY, Boston, Mass.
Filed August 24, 1942. Serial No. 455,077. PUBLISHED DECEMBER 29, 1942. Class 39.

400,422. MEN'S WATER REPELLANT JACKETS. PIEDMONT SHIRT COMPANY, Greenville, S. C.
Filed August 24, 1942. Serial No. 455,085. PUBLISHED DECEMBER 22, 1942. Class 39.

400,423. CANNED CITRUS JUICES FOR BEVERAGE PURPOSES. E. A. SILZLE CORPORATION, Anaheim, Calif.
Filed August 24, 1942. Serial No. 455,090. PUBLISHED DECEMBER 22, 1942. Class 45.

400,424. RUGS. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed September 4, 1942. Serial No. 455,332. PUBLISHED DECEMBER 22, 1942. Class 42.

400,425. ALKALI METAL STARCHATES AND DERIVATIVES THEREOF. THE KOMEL CORPORATION, Dayton, Ohio.
Filed September 4, 1942. Serial No. 455,343. PUBLISHED DECEMBER 29, 1942. Class 6.

400,426. ASSORTMENTS OF PERFUMES AND COLOGNES IN PACKAGES. LUCIEN LELONG INC., Chicago, Ill.
Filed September 4, 1942. Serial No. 455,344. PUBLISHED DECEMBER 29, 1942. Class 6.

400,427. FRESH CITRUS FRUITS AND FRESH VEGETABLES — NAMELY, TOMATOES. ROY WEIR, doing business as Valley Fruit Company, Pharr, Tex.
Filed September 8, 1942. Serial No. 455,418. PUBLISHED DECEMBER 29, 1942. Class 46.

400,428. POULTRY FEEDS, LIVE STOCK FEEDS, AND DOG FOOD. SUPERIOR FEED MILLS, Oklahoma City, Okla.
Filed September 11, 1942. Serial No. 455,488. PUBLISHED DECEMBER 29, 1942. Class 46.

400,429. METAL ALLOYS HAVING A LEAD BASE. NETTIE M. HURD-BULLOCK, Detroit, Mich.
Filed September 17, 1942. Serial No. 455,594. PUBLISHED DECEMBER 29, 1942. Class 14.

400,430. BABY CHICKS. SANFORD E. ALGER, JR., Brockton, Mass.
Filed September 19, 1942. Serial No. 455,618. PUBLISHED DECEMBER 29, 1942. Class 46.

400,431. BEER. THE F. & M. SCHAEFER BREWING CO., Brooklyn, N. Y.
Filed September 19, 1942. Serial No. 455,632. PUBLISHED DECEMBER 22, 1942. Class 48.

400,432. BEER. THE F. & M. SCHAEFER BREWING CO., Brooklyn, N. Y.
Filed September 19, 1942. Serial No. 455,633. PUBLISHED DECEMBER 22, 1942. Class 48.

400,433. SEMI- AND FULLY-AUTOMATIC LIGHT FIREARMS OF THE MACHINE GUN TYPE. HARRINGTON & RICHARDSON ARMS COMPANY, Worcester, Mass.
Filed September 21, 1942. Serial No. 455,656. PUBLISHED DECEMBER 29, 1942. Class 9.

400,434. NON-ALCOHOLIC, MALTLESS BEVERAGE USED AS A SOFT DRINK AND CONCENTRATES AND EXTRACTS FOR PREPARING THE SAME. TRU-ADE, INC., Chicago, Ill.
Filed September 22, 1942. Serial No. 455,696. PUBLISHED DECEMBER 29, 1942. Class 45.

400,435. MATERNITY DRESSES. SAMUEL PECK, doing business as Expectant Mother Dress Co., New York, N. Y.
Filed September 25, 1942. Serial No. 455,762. PUBLISHED DECEMBER 22, 1942. Class 39.

400,436. DRESSES AND SUITS FOR LADIES, GIRLS, AND CHILDREN. ABE GOLDSTEIN, New York, N. Y.
Filed September 29, 1942. Serial No. 455,844. PUBLISHED DECEMBER 29, 1942. Class 39.

400,437. PACKING—TO-WIT, PACKING RINGS, PACKINGS FOR PISTON RODS, AND PACKINGS FOR STUFFING BOXES. CLARENCE POOL, Los Angeles, Calif.
Filed September 29, 1942. Serial No. 455,848. PUBLISHED DECEMBER 29, 1942. Class 35.

400,438. CHEESE AND TOMATO PASTE. TOLIBIA CHEESE CORPORATION, doing business as Elmo Packing Company, New York, N. Y.
Filed October 3, 1942. Serial No. 455,961. PUBLISHED DECEMBER 29, 1942. Class 46.

400,439. JIG SAW PUZZLES. W. H. MORTON CAMERON, Toronto, Ontario, Canada.
Filed October 5, 1942. Serial No. 455,966. PUBLISHED DECEMBER 29, 1942. Class 22.

400,440. PAINTERS' MATERIALS—NAMELY, FLAT PAINT, PAINT ENAMEL, PRIMER AND SEALER, SEMI-GLOSS PAINT AND ENAMEL UNDERCOATER. GEORGE M. BUDEKE, doing business as George M. Budeke Co. and Budeke's, Baltimore, Md.
Filed October 7, 1942. Serial No. 456,011. PUBLISHED DECEMBER 29, 1942. Class 16.

400,441. PASTE PAINT. GEORGE M. BUDEKE, doing business as George M. Budeke Co. and Budeke's, Baltimore, Md.
Filed October 7, 1942. Serial No. 456,012. PUBLISHED DECEMBER 29, 1942. Class 16.

400,442. DRESSES FOR WOMEN, MISSES, AND GIRLS. RELIANCE MANUFACTURING COMPANY, Chicago, Ill.
Filed October 9, 1942. Serial No. 456,107. PUBLISHED DECEMBER 22, 1942. Class 39.

400,443. WIRE AND CABLES FOR ELECTRICAL USE. ROCKBESTOS PRODUCTS CORPORATION, New Haven, Conn.
Filed October 9, 1942. Serial No. 456,108. PUBLISHED DECEMBER 29, 1942. Class 21.

400,444. WOMEN'S AND GIRLS' SWEATERS. RENART SPORTSWEAR CORP., New York, N. Y.
Filed October 10, 1942. Serial No. 456,131. PUBLISHED DECEMBER 29, 1942. Class 39.

400,445. MIXTURE COMPRISING DEXTROSE, LACTOSE, CAROTENE, CALCIUM OXIDE, MAGNESIUM OXIDE, COMPOUNDS OF SODIUM AND POTASSIUM, AND OTHER CHEMICAL INGREDIENTS, WHICH MIXTURE IS USED TO INCREASE THE MINERAL CONTENT IN THE PROCESSING OF MILK AND IN THE CONFECTION OF ICE CREAM. ERNEST D. FEAR, Kansas City, Mo.
Filed October 12, 1942. Serial No. 456,140. PUBLISHED DECEMBER 29, 1942. Class 6.

400,446. MIXTURE COMPRISING DEXTROSE, LACTOSE, CAROTENE, CALCIUM OXIDE, MAGNESIUM OXIDE, COMPOUNDS OF SODIUM AND POTASSIUM, AND OTHER CHEMICAL INGREDIENTS, WHICH MIXTURE IS USED TO INCREASE THE MINERAL CONTENT IN THE PROCESSING OF MILK AND IN THE CONFECTION OF ICE CREAM. ERNEST D. FEAR, Kansas City, Mo.
Filed October 12, 1942. Serial No. 456,141. PUBLISHED DECEMBER 29, 1942. Class 6.

400,447. MEDICINE FOR THE RELIEF OF DYSPEPSIA, CONSTIPATION AND STOMACH DISORDERS. MATHEW KASTRIN, doing business as Mathew Matzuni Laboratories, Detroit, Mich.
Filed October 12, 1942. Serial No. 456,149. PUBLISHED DECEMBER 29, 1942. Class 6.

400,448. LIPSTICKS, DRY AND CREAM ROUGE, AND NAIL POLISH. LEHN & FINK PRODUCTS CORPORATION, Bloomfield, N. J.
Filed October 14, 1942. Serial No. 456,189. PUBLISHED DECEMBER 1, 1942. Class 6.

400,449. PORE-FILLING, IMPREGNATING, WATER-REPELLENT, AND MILDEW-PROOFING LIQUIDS FOR MATERIALS SUCH AS CERAMICS, PLASTICS, CONCRETES, STONE, GYPSUM PRODUCTS, LEATHER, TEXTILES, AND PAPER. ELMORE E. BUTTERFIELD, Long Island City, N. Y.
Filed October 16, 1942. Serial No. 456,232. PUBLISHED DECEMBER 29, 1942. Class 6.

400,450. DRIVING BELTS FOR MACHINERY. THE DAYTON RUBBER MANUFACTURING COMPANY, Dayton, Ohio.
Filed October 16, 1942. Serial No. 456,234. PUBLISHED DECEMBER 29, 1942. Class 35.

400,451. FAN BELTS AND RADIATOR HOSE. THE DAYTON RUBBER MANUFACTURING COMPANY, Dayton, Ohio.
Filed October 16, 1942. Serial No. 456,235. PUBLISHED DECEMBER 29, 1942. Class 35.

400,452. BREAST FORMS. THE H. A. AUSTIN COMPANY, INCORPORATED, Worcester, Mass.
Filed October 17, 1942. Serial No. 456,257. PUBLISHED DECEMBER 22, 1942. Class 40.

400,453. SUSPENSION OF A SULFONAMIDE IN OIL FOR USE AS A VETERINARY ANTISEPTIC. ABBOTT LABORATORIES, North Chicago, Ill.
Filed October 19, 1942. Serial No. 456,264. PUBLISHED DECEMBER 22, 1942. Class 6.

400,454. COTTON AND RAYON PIECE GOODS. WM. ANDERSON TEXTILE MFG. CO. LTD., New York, N. Y.
Filed October 20, 1942. Serial No. 456,281. PUBLISHED DECEMBER 22, 1942. Class 42.

400,455. OINTMENT BASE FOR THE USE OF PHARMACISTS IN COMPOUNDING PRESCRIPTIONS FOR MEDICATED OINTMENTS FOR THE TREATMENT OF THE SKIN. HYPEX CO., New York, N. Y.
Filed October 20, 1942. Serial No. 456,288. PUBLISHED DECEMBER 29, 1942. Class 6.

400,456. MEN'S SUITS, TOPCOATS, GABARDINE RAINCOATS, AND JACKETS. ALLIED STORES CORPORATION, Wilmington, Del., doing business as The Bon Marche, Seattle, Wash., and Dey Brothers & Company, Syracuse, N. Y.
Filed October 21, 1942. Serial No. 456,300. PUBLISHED DECEMBER 29, 1942. Class 39.

400,457. WOOLEN AND WORSTED PIECE GOODS. AMERENG FABRICS, INC., New York, N. Y.
Filed October 21, 1942. Serial No. 456,301. PUBLISHED DECEMBER 22, 1942. Class 42.

400,458. LAXATIVE TABLETS. GUY G. DILLOW, doing business as Sweetrest Company, Chicago, Ill.
Filed October 21, 1942. Serial No. 456,307. PUBLISHED DECEMBER 22, 1942. Class 6.

400,459. PERFUMES. ISADORE BULLION, doing business as Bulco, New York, N. Y.
Filed October 23, 1942. Serial No. 456,363. PUBLISHED DECEMBER 22, 1942. Class 6.

400,460. LADIES' AND MISSES' COATS, SUITS, JACKETS, SKIRTS, AND COAT AND SUIT ENSEMBLES. MORRIS W. HAFT & BROTHERS, New York, N. Y.
Filed October 23, 1942. Serial No. 456,366. PUBLISHED DECEMBER 22, 1942. Class 39.

400,461. VITAMIN CAPSULES. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed October 23, 1942. Serial No. 456,370. PUBLISHED DECEMBER 29, 1942. Class 6.

400,462. WOMEN'S HOSIERY. THE ATLAS UNDERWEAR COMPANY, Piqua, Ohio.
Filed October 27, 1942. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 456,444. PUBLISHED DECEMBER 29, 1942. Class 39.

400,463. MEN'S AND LADIES' PAJAMAS, NIGHTSHIRTS, AND NIGHTGOWNS. KAYLON INCORPORATED, New York, N. Y.
Filed October 28, 1942. Serial No. 456,492. PUBLISHED DECEMBER 29, 1942. Class 39.

400,464. PHARMACEUTICAL PREPARATION OF VITAMIN E IN THE FORM OF AN ELIXIR, CAPSULES, TABLETS, AND SYRUP. PREMO PHARMACEUTICAL LABORATORIES, INC., New York, N. Y.
Filed October 30, 1942. Serial No. 456,545. PUBLISHED DECEMBER 29, 1942. Class 6.

400,465. LADIES' UNDERWEAR. COLLEGIATE MANUFACTURING CO., INC., New York, N. Y.
Filed October 31, 1942. Serial No. 456,553. PUBLISHED DECEMBER 29, 1942. Class 39.

400,466. LADIES' AND MISSES' COATS, SUITS, JACKETS, SKIRTS, AND COAT AND SUIT ENSEMBLES. MORRIS W. HAFT & BROTHERS, New York, N. Y.
Filed October 31, 1942. Serial No. 456,557. PUBLISHED DECEMBER 29, 1942. Class 39.

400,467. NON-ALCOHOLIC, MALTLESS BEVERAGES. CANADA DRY GINGER ALE, INCORPORATED, New York, N. Y.
Filed November 2, 1942. Serial No. 456,580. PUBLISHED DECEMBER 29, 1942. Class 45.

400,468. LIQUID SOLVENT FOR REMOVING SCALE AND OTHER INCRUSTATIONS FROM EQUIPMENT. GARRATT-CALLAHAN CO. OF CALIFORNIA, San Francisco, Calif.
Filed November 2, 1942. Serial No. 456,596. PUBLISHED DECEMBER 29, 1942. Class 6.

400,469. ANTIHEMORRHAGIC PREPARATIONS. E. R. SQUIBB & SONS, New York, N. Y.
Filed November 3, 1942. Serial No. 456,633. PUBLISHED DECEMBER 22, 1942. Class 6.

400,470. CANNED FISH. RIVIERA PACKING CORPORATION, New York, N. Y.
Filed November 5, 1942. Serial No. 456,661. PUBLISHED DECEMBER 29, 1942. Class 46.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

400,471. (CLASS 38. PRINTS AND PUBLICATIONS.) AUGSBURG PUBLISHING HOUSE, Minneapolis, Minn. Filed Aug. 26, 1940. Serial No. 435,381.

Christmas
ANNUAL

FOR AN ANNUAL PUBLICATION OF CHRISTMAS LITERATURE AND ART.
Claims use since Aug. 10, 1940.

400,472. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CENTRAL SANTA ISABEL, Fomento, Cuba. Filed Oct. 11, 1940. Serial No. 436,868.

TRUCANE

FOR REFINED SUGAR.
Claims use since Aug. 20, 1940.

400,473. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE B. F. GOODRICH COMPANY, Akron, Ohio, and New York, N. Y. Filed Jan. 10, 1941. Serial No. 439,544.

SAFETY WELD

FOR PNEUMATIC TIRE CASINGS OF RUBBER AND FABRIC.
Claims use since about Dec. 17, 1940.

400,474. (CLASS 39. CLOTHING.) HOOVER MANUFACTURING AND SALES COMPANY, New York, N. Y. Filed Feb. 15, 1941. Serial No. 440,689.

Peggy Parker
FASHIONS

FOR WOMEN'S AND MISSES' APRONS, AND UNIFORMS FOR NURSES, MAIDS, AND WAITRESSES.
Claims use since August, 1940.

400,475. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MYLES SALT CO., LTD., New Orleans, La. Filed May 7, 1941. Serial No. 443,837.

PANEL-PAK

FOR SALT.
Claims use since Apr. 26, 1941.

400,476. (CLASS 12. CONSTRUCTION MATERIALS.) FORD ROOFING PRODUCTS COMPANY, Chicago, Ill. Filed July 16, 1941. Serial No. 445,392.

FORD-V-NEER

FOR BUILDING SIDING MATERIAL COMPRISING WATERPROOFED FIBROUS SHEETS BEARING BRICK OR MASONRY DESIGNS.
Claims use since about June 10, 1941.

400,477. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WM. H. GARDNER, doing business as Gardner Food Products Co., San Marino, Calif. Filed Nov. 13, 1941. Serial No. 448,611.

HAM – DOG

FOR PICKLE RELISH.
Claims use since Oct. 24, 1941.

400,478. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MINERALIZED FOODS, INC., Baltimore, Md. Filed Nov. 17, 1941. Serial No. 448,700.

V·I·M
SOUPTABBS

FOR A SOLUBLE TABLET FOR MAKING SOUP.
Claims use since Sept. 13, 1941.

400,479. (CLASS 39. CLOTHING.) TOP NOTCH DRESS COMPANY, Boston, Mass. Filed Nov. 18, 1941. Serial No. 448,742.

Jane Abbott

FOR WOMEN'S AND MISSES' DRESSES.
Claims use since Mar. 1, 1941.

400,480. (CLASS 38. PRINTS AND PUBLICATIONS.) JOHN E. DEARDEN, Philadelphia, Pa. Filed Nov. 22, 1941. Serial No. 448,820.

THE
AMERICAN UNDERWRITER

FOR A PERIODICAL.
Claims use since Nov. 10, 1941.

400,481. (CLASS 39. CLOTHING.) BERNICE BLOUSE CO., INC., New York, N. Y. Filed Dec. 12, 1941. Serial No. 449,406.

Joyce Ottley

FOR CLOTHING—NAMELY, WOMEN'S AND GIRLS' BLOUSES.
Claims use since Nov. 25, 1941.

400,482. (CLASS 38. PRINTS AND PUBLICATIONS.) NORCROSS, New York, N. Y. Filed Dec. 13, 1941. Serial No. 449,464.

DOUBLE-WISH

FOR GREETING CARDS.
Claims use since Dec. 12, 1941.

400,483. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. C. JEFFERSON, doing business as Jefferson Orchards, San Juan, Tex. Filed Jan. 30, 1942. Serial No. 450,593.

MINNETONKA

The trade-mark in the Dakota Indian language means "Big Water."
FOR FRESH CITRUS FRUIT AND CANNED CITRUS FRUIT JUICES FOR FOOD PURPOSES.
Claims use since Oct. 15, 1940, on fresh citrus fruit, and since Jan. 1, 1942, on canned citrus fruit juice.

400,484. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BENJAMIN HOLLAND MANUFACTURING COMPANY, Seattle, Wash. Filed Mar. 28, 1942. Serial No. 451,975.

"Freezer Tested"

FOR ICE CREAM FRUITS; ICE CREAM FRUIT SPECIALTIES—NAMELY, MIXTURES OF FRUITS, NUTS, SUGAR OR SUGAR SYRUP; ICE CREAM NUT SPECIALTIES—NAMELY, A MIXTURE OF GROUND NUTS AND SUGAR SYRUP; FRUIT SYRUPS FOR ICE CREAM; PURÉES—NAMELY, PULPED FRUIT WITH SUGAR OR SUGAR SYRUP ADDED; FLAVORING EXTRACTS AND FLAVORING EMULSIONS FOR FOOD PURPOSES.
Claims use since Jan. 10, 1942.

400,485. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE STA-BRITE PRODUCTS CORPORATION, New Haven, Conn. Filed Apr. 2, 1942. Serial No. 452,111.

Shecaton

FOR FLATWARE—NAMELY, TABLE KNIVES AND FORKS, SOUPSPOONS, TEASPOONS, SALAD FORKS, BUTTER KNIVES, AND SUGAR SHELLS OF PLATED WARE AND PLASTIC.
Claims use since May 13, 1940.

400,486. (CLASS 39. CLOTHING.) BURGIO BROS., INC., New York, N. Y. Filed Apr. 28, 1942. Serial No. 452,635.

Hug Snug

FOR HOSIERY.
Claims use since December, 1941.

400,487. (CLASS 39. CLOTHING.) L. & D. BEILINSON, INC., New York, N. Y. Filed June 2, 1942. Serial No. 453,407.

Ellen Dee

FOR LADIES' DRESSES, LADIES' COATS AND LADIES' SUITS.
Claims use since Jan. 31, 1941.

400,488. (CLASS 38. PRINTS AND PUBLICATIONS.) FAWCETT PUBLICATIONS, INC., Greenwich, Conn. Filed June 2, 1942. Serial No. 453,414.

MODEL BUILDERS' MANUAL

FOR A MAGAZINE PUBLICATION APPEARING ANNUALLY OR IN APPROXIMATELY ANNUAL PERIODS.
Claims use since Oct. 17, 1941.

400,489. (CLASS 38. PRINTS AND PUBLICATIONS.) OAK PARK CHAMBER OF COMMERCE, Oak Park, Ill. Filed July 10, 1942. Serial No. 454,147.

Oak Park Shopping Guide

FOR A BIWEEKLY PUBLICATION.
Claims use since Dec. 1, 1941.

400,490. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) H. E. SHAW COMPANY, Worcester, Mass. Filed July 16, 1942. Serial No. 454,273.

Tadcaster

FOR CANNED FRUITS, FRUITS IN JARS, AND MARSHMALLOW TOPPING, HARD CANDY, CANDIED AND SALTED NUTS.
Claims use since 1930.

400,491. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) VICKERS MANUFACTURING CORPORATION, Buffalo, N. Y., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Filed Aug. 31, 1942. Serial No. 455,215.

VICKERS HYDRAULIC BRAKE BOOSTER

FOR HYDRAULIC BRAKE BOOSTERS AND PARTS THEREOF.
Claims use since February, 1939.

400,492. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) VICKERS MANUFACTURING CORPORATION, Buffalo, N. Y., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Filed Aug. 31, 1942. Serial No. 455,216.

VICKERS

FOR HYDRAULIC BRAKE BOOSTERS AND PARTS THEREOF.
Claims use since February, 1939.

400,493. (CLASS 39. CLOTHING.) RENART SPORTSWEAR CORP., New York, N. Y. Filed Oct. 22, 1942. Serial No. 456,345.

Mitt-Mates

FOR WOMEN'S AND GIRLS' SWEATERS.
Claims use since Nov. 9, 1941.

400,494. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALBERT MANDELL, Norwalk, Conn. Filed Oct. 26, 1942. Serial No. 456,426.

Louise Dráze

FOR SHAMPOO SOAP.
Claims use since the spring of 1937.

400,495. (CLASS 39. CLOTHING.) MINES & FLASTER COAT CORP., New York, N. Y. Filed Nov. 16, 1942. Serial No. 456,853.

Beautitone
VEL VELOUR

FOR MISSES' AND JUNIOR MISSES' COATS, SUITS, JACKETS, AND COAT AND SUIT ENSEMBLES.
Claims use since Jan. 2, 1941.

400,496. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) CAMERON SURGICAL SPECIALTY COMPANY, Chicago, Ill. Filed Dec. 7, 1942. Serial No. 457,236.

Omniangle

FOR INSTRUMENTS USED TO PROVIDE ILLUMINATION AND TO EXAMINE THE INTERIOR OF CAVITIES IN MEDICAL AND SURGICAL PRACTISE.
Claims use since Oct. 15, 1941.

400,497. (CLASS 39. CLOTHING.) W. H. SALISBURY & Co., Chicago, Ill. Filed Dec. 11, 1942. Serial No. 457,348.

LINEMAN'S SNAP SALISBURY ON JACKET

FOR LINEMEN'S RUBBER JACKETS.
Claims use since June, 1936.

400,498. (CLASS 3. BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) PROGRESSIVE LEATHER GOODS COMPANY, West New York, N. J. Filed Dec. 12, 1942. Serial No. 457,369.

HANG-A-PAK

FOR TRAVELING TOILET CASES, FITTED AND UNFITTED.
Claims use since May, 1935.

TRADE-MARK REGISTRATIONS RENEWED

23,192. **DUPLEX.** PERFECTING PRINTING-PRESSES. Registered June 6, 1893. DUPLEX PRINTING PRESS COMPANY, Battle Creek, Mich., a corporation of Michigan. Re-renewed June 6, 1943.

158,534. **"G. SENSAT—SUBLIME" AND DRAWING.** OLIVE OIL. Registered September 5, 1922. G. SENSAT, Hijos, Barcelona, Spain, a firm. Renewed September 5, 1942.

163,640. **MIMI.** LADIES', MISSES', AND CHILDREN'S DRESSES. Registered January 23, 1923. JOHN WANAMAKER NEW YORK, New York, N. Y., a corporation of New York. Renewed January 23, 1943.

164,168. **NUGRAPE.** NONALCOHOLIC, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SIRUPS AND EXTRACTS THEREFOR. Registered February 13, 1923. NUGRAPE COMPANY OF AMERICA. Renewed February 13, 1943, to National Nugrape Company, Atlanta, Ga., a corporation of Georgia, assignee by mesne assignments.

164,376. **"ASTRUP" AND DRAWING.** CERTAIN ARTICLES OF TENT AND AWNING HARDWARE. Registered February 20, 1923. THE ASTRUP COMPANY, Cleveland, Ohio, a corporation of Ohio. Renewed February 20, 1943.

164,606. **METRO-NAMEL.** PAINTS (READY MIXED, PASTE FORM, OR DRY); PAINT ENAMELS, JAPANS, VARNISHES, STAINS, AND FILLERS. Registered February 20, 1923. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio, a corporation of Ohio. Renewed February 20, 1943.

164,607. **FLAT-RITE.** PAINTS (READY-MIXED, PASTE FORM, OR DRY); PAINT ENAMELS, JAPANS, VARNISHES, STAINS, AND FILLERS. Registered February 20, 1923. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio, a corporation of Ohio. Renewed February 20, 1943.

164,685. **V-C-P.** DISINFECTANT FOR VETERINARY USES. Registered February 27, 1923. THE CREOLIN CO., Rahway, N. J., a corporation of New Jersey. Renewed February 27, 1943.

164,710. **NEOLITE.** BURNING OIL OR KEROSENE. Registered February 27, 1923. STANDARD OIL COMPANY, Whiting, Ind., and Chicago, Ill., a corporation of Indiana. Renewed February 27, 1943.

164,740. **DUOZINC.** ZINC ALLOY USED IN ZINC PLATING. Registered February 27, 1923. THE ROESSLER & HASSLACHER CHEMICAL COMPANY, New York, N. Y. Renewed February 27, 1943, to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware, assignee by mesne assignments.

164,741. **PUROZINC.** ZINC USED IN ZINC PLATING. Registered February 27, 1923. THE ROESSLER & HASSLACHER CHEMICAL COMPANY, New York, N. Y. Renewed February 27, 1943, to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware, assignee by mesne assignments.

165,193. **MONO-LINE.** REFRACTORY MATERIAL FOR LINING AND REPAIRING STRUCTURES SUBJECT TO HIGH TEMPERATURE. Registered March 6, 1923. QUIGLEY FURNACE SPECIALTIES COMPANY, INC. Renewed March 6, 1943, to Quigley Company, Inc., New York, N. Y., a corporation of New York, by change of name.

165,480. **"KILSCAB" AND DRAWING.** CHEMICAL DIP TO CONTROL SCABIES OF SHEEP AND CATTLE. Registered March 13, 1923. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio, a corporation of Ohio. Renewed March 13, 1943.

165,762. **NEWLCO.** CURTAIN FIXTURES. Registered March 20, 1923. THE NEWELL MFG. CO., Ogdensburg, N. Y., a corporation of Maine. Renewed March 20, 1943.

165,827. **RETRAX.** LUBRICATING OILS AND GREASES. Registered March 20, 1923. STANDARD OIL COMPANY, Whiting, Ind., and Chicago, Ill., a corporation of Indiana. Renewed March 20, 1943.

165,872. **THE AIR-WAY.** WASHING MACHINES AND PARTS THEREOF AND PARTICULARLY THOSE OF THE ELECTRIC-DRIVEN TYPE, FOR WASHING CLOTHES. Registered March 20, 1923. AIR-WAY ELECTRIC APPLIANCE CORPORATION, Toledo, Ohio, a corporation of Delaware. Renewed March 20, 1943.

166,238. **REPRESENTATION OF THREE PINS TIED WITH RIBBON.** TOILET PINS, HAIRPINS, SAFETY PINS, THIMBLES, AND HOOKS AND EYES, NOT OF PRECIOUS METAL OR IMITATION PRECIOUS METAL. Registered March 27, 1923. D. F. TAYLER AND COMPANY LIMITED, Birmingham, England, a registered company of Great Britain. Renewed March 27, 1943.

166,269. **"FLY-BANE" AND DRAWING.** INSECTICIDE. Registered March 27, 1923. WEST DISINFECTING COMPANY, New York, N. Y. Renewed March 27, 1943, to West Disinfecting Company, Long Island City, N. Y., a corporation of New York.

166,494. **STANOLEX.** LUBRICATING OILS AND GREASES. Registered April 3, 1923. STANDARD OIL COMPANY, Whiting, Ind., and Chicago, Ill., a corporation of Indiana. Renewed April 3, 1943.

166,658. **"PARAGON" AND DRAWING.** MEN'S STRAW AND FELT HATS. Registered April 10, 1923. PARAGON HAT COMPANY. Renewed April 10, 1943, to Paragon Hat Company, Chicago, Ill., a co-partnership, assignee.

166,721. **"KUMFORTSUIT" AND DRAWING.** CHILDREN'S UNDERWEAR OF TEXTILE FABRIC. Registered April 10, 1923. CARSON PIRIE SCOTT & CO., Chicago, Ill., a corporation of Illinois. Renewed April 10, 1943.

166,722. **NOBBY TOPS.** WOMEN'S, MISSES', GIRLS', AND CHILDREN'S HATS, CAPS, AND BONNETS. Registered April 10, 1923. CARSON PIRIE SCOTT & CO., Chicago, Ill., a corporation of Illinois. Renewed April 10, 1943.

166,903. **"HOODY'S GOODIES" AND DRAWING.** PEANUT BUTTER AND SALTED PEANUTS. Registered April 17, 1923. GLENN Q. TOWNSEND, doing business as Hoody Peanut Butter Co. Renewed April 17, 1943, to Hoody Peanut Products Company, Portland, Oreg., a corporation of Oregon, assignee.

167,457. **"IVEROIDE" AND DRAWING.** ASPHALT COMPOSITION ROOFING IN SHEETS AND ROLLS. Registered May 1, 1923. IVER J. ERIKSON. Renewed May 1, 1943, to Iver J. Erikson, Inc., Worcester, Mass., a corporation of Massachusetts, successor.

167,537. **ARIO.** LUBRICATING OILS AND GREASES. Registered May 1, 1923. STANDARD OIL COMPANY, Whiting, Ind., and Chicago, Ill., a corporation of Indiana. Renewed May 1, 1943.

167,562. **BALSAM-WOOL.** INSULATING MATERIAL IN SHEET FORM MADE OF WOOD, AND POSSESSING HEAT AND COLD RESISTING AND SOUND-DEADENING PROPERTIES. Registered May 1, 1923. WOOD CONVERSION COMPANY, Cloquet, Minn. Renewed May 1, 1943, to Wood Conversion Company, St. Paul, and Cloquet, Minn., a corporation of Delaware.

167,891. **MAXIMAIRE.** FAN BELTS. Registered May 8, 1923. THE DAYTON RUBBER MANUFACTURING CO., Dayton, Ohio, a corporation of Ohio. Renewed May 8, 1943.

167,911. **YELLOW JACKETS.** CATHARTIC AND LAXATIVE PREPARATION. Registered May 8, 1923. BRISTOL-MYERS COMPANY, New York, N. Y. Renewed May 8, 1943, to William S. Remington, doing business as A. J. Phillips Company, Potsdam, N. Y., assignee by mesne assignments.

167,929. **MOLETA.** DRY AND READY-MIXED PAINTS, PAINT ENAMELS, STAINS, AND VARNISHES. Registered May 8, 1923. MONROE, LEDERER & TAUSSIG. Renewed May 8, 1943, to Monroe, Lederer & Taussig, Inc., Philadelphia, Pa., a corporation of Delaware, successor.

167,932. **REPRESENTATION OF A CHECKER BORDER, ETC.** DRY AND READY-MIXED PAINTS, PAINT ENAMELS, STAINS, AND VARNISHES. Registered May 8, 1923. MONROE, LEDERER & TAUSSIG. Renewed May 8, 1943, to Monroe, Lederer & Taussig, Inc., Philadelphia, Pa., a corporation of Delaware, successor.

168,202. **NATURALINE.** CORSETS. Registered May 15, 1923. NATURALINE CORSET CO., Boston, Mass., a corporation of Massachusetts. Renewed May 15, 1943.

168,668. **SUMNER'S.** BUTTER. Registered May 29, 1923. THE SUMNER CO., Akron, Ohio. Renewed May 29, 1943, to Beatrice Creamery Company, Chicago, Ill., a corporation of Delaware, successor.

168,713. **PREMIER.** CERTAIN KINDS OF CUTLERY OF BASE METAL. Registered May 29, 1923. PREMIER CUTLERY, INC. Renewed May 29, 1943, to The Premier Co. Inc., New York, N. Y., a corporation of New York, by change of name.

168,756. **STANOLIND.** GASOLINE, CANDLES, LIQUID PARAFFIN, AND LUBRICATING OILS AND GREASES. Registered May 29, 1923. STANDARD OIL COMPANY, Whiting, Ind., and Chicago, Ill., a corporation of Indiana. Renewed May 29, 1943.

169,135. **CUTIE POPS.** CANDY. Registered June 12, 1923. U. R. S. CANDY STORES, INC. Renewed June 12, 1943, to Loft Candy Corporation, Long Island City, N. Y., a corporation of New York, by change of name.

169,281. **AIR-WAY.** ELECTRIC VACUUM CLEANERS. Registered June 12, 1923. AIR-WAY ELECTRIC APPLIANCE CORPORATION, as assignee of The Air Way Company, Toledo, Ohio. Renewed June 12, 1943, to Air-Way Electric Appliance Corporation, Toledo, Ohio, a corporation of Delaware, assignee.

169,336. **SUBLIT.** METAL GRATINGS FOR FLOORINGS AND STAIRCASES. Registered June 12, 1923. IRVING IRON WORKS COMPANY. Renewed June 12, 1943, to Irving Subway Grating Co. Inc., Long Island City, N. Y., a corporation of New York, successor.

169,340. **"WATKINS" AND DRAWING.** BABBITT BEARINGS. Registered June 12, 1923. THE WATKINS MANUFACTURING COMPANY, Wichita, Kans. Renewed June 12, 1943, to Federal-Mogul Corporation, Detroit, Mich., a corporation of Michigan, assignee.

169,351. **STANOLIND.** ASPHALT AND PAVING FILLER. Registered June 12, 1923. STANDARD OIL COMPANY, Whiting, Ind., and Chicago, Ill., a corporation of Indiana. Renewed June 12, 1943.

169,436. **KONSET.** A COMPOSITION FOR USE IN HARDENING CEMENT AND FOR FURNISHING A FINISH TO THE PRODUCTS AFTER SETTING. Registered June 19, 1923. THE SULLIVAN COMPANY. Renewed June 19, 1943, to The Sullivan Company, Memphis, Tenn., a corporation of Tennessee, successor.

169,451. **ENTERPRISE.** CERTAIN NAMED PAINTS AND PAINTERS' MATERIALS. Registered June 19, 1923. ENTERPRISE PAINT MFG. CO., Chicago, Ill., a corporation of Illinois. Renewed June 19, 1943.

169,486. **REPRESENTATION OF A RED YARN THREAD.** SISAL ROPE. Registered June 19, 1923. THE HOOVEN & ALLISON COMPANY, Xenia, Ohio, a corporation of Ohio. Renewed June 19, 1943.

169,498. **SANO-LAVA.** CLEANING POWDER FOR WATER-CLOSET BOWLS. Registered June 19, 1923. THE HYGIENIC PRODUCTS COMPANY, Canton, Ohio, a corporation of Ohio. Renewed June 19, 1943.

169,511. **MODELRITE.** IMPRESSION COMPOUND. Registered June 19, 1923. NOVOCOL CHEMICAL MFG. CO., INC., Brooklyn, N. Y., a corporation of New York. Renewed June 19, 1943.

169,596. **"OLD HONESTY" AND DRAWING.** PAINT FOR GENERAL USE, INCLUDING DRY, READY MIXED, AND PASTE. Registered June 26, 1923. THE GOHEEN CORPORATION, Wilmington, Del., and Warren, Ohio. Renewed June 26, 1943, to Vita-Var Corporation, Newark, N. J., a corporation of New Jersey, assignee.

169,690. **NATIONAL MERCHANDISE FAIR.** TRADE PAPERS AND BULLETINS USED AT IRREGULAR INTERVALS. Registered June 26, 1923. NATIONAL RETAIL DRY GOODS ASSOCIATION, New York, N. Y., a corporation of New York. Renewed June 26, 1943.

169,803. **FALSTAFF.** MALT EXTRACT. Registered July 3, 1923. FALSTAFF CORPORATION. Renewed July 3, 1943, to Falstaff Brewing Corporation, St. Louis, Mo., a corporation of Delaware, assignee.

169,825. **ENTER-LAC.** READY-MIXED AND PASTE PAINTS, VARNISHES, AND PAINT ENAMELS. Registered July 3, 1923. ENTERPRISE PAINT MFG. CO., Chicago, Ill., a corporation of Illinois. Renewed July 3, 1943.

169,890. **EMPIRE.** DRESS SHIELDS. Registered July 3, 1923. EMPIRE SHIELD CO. Renewed July 3, 1943, to Empire Shield Co., Inc., New York, N. Y., a corporation of New York, successor.

169,898. **LANASOL.** WOOL OIL. Registered July 3, 1923. STANDARD OIL COMPANY, Whiting, Ind., and Chicago, Ill., a corporation of Indiana. Renewed July 3, 1943.

169,956. **PLASTICOTE.** LEAD, OIL, AND ZINC PAINT FOR OUTSIDE AND INSIDE USE. Registered July 10, 1923. M. J. MERKIN PAINT CO., INC., Long Island City, N. Y. Renewed July 10, 1943, to M. J. Merkin Paint Co., Inc., New York, N. Y., a corporation of New York.

169,992. **REPRESENTATION OF A GIRL.** CANDY. Registered July 10, 1923. UNITED RETAIL CANDY STORES, INC., New York, N. Y. Renewed July 10, 1943, to Loft Candy Corporation, Long Island City, N. Y., a corporation of New York, assignee by mesne assignments.

170,000. **REPRESENTATION OF A RED STAR.** CORDAGE—NAMELY, MANILA, SISAL AND HEMP ROPE AND TWINE. Registered July 10, 1923. THE HOOVEN & ALLISON COMPANY, Xenia, Ohio, a corporation of Ohio. Renewed July 10, 1943.

170,027. **"BLUEBIRD" AND DRAWING.** ARTIFICIAL PEARLS. Registered July 10, 1923. THE HENSHEL CO. INC., New York, N. Y. Renewed July 10, 1943, Stein & Ellbogen Company, Chicago, Ill., a corporation of Illinois.

170,051. **"SOCIETY CLUB" AND DRAWING.** SOFT DRINKS. Registered July 10, 1923. SOCIETY CLUB BEVERAGE CORPORATION, Newark, N. J., a corporation of New Jersey. Renewed July 10, 1943.

170,153. **REPRESENTATION OF TWO RED HOOPS.** NAILS. Registered July 10, 1923. THE AMERICAN STEEL AND WIRE COMPANY OF NEW JERSEY, Cleveland, Ohio, Chicago, Ill., Pittsburgh, Pa., New York, N. Y., and Worcester, Mass. Renewed July 10, 1943, to The American Steel and Wire Company of New Jersey, Cleveland, Ohio, a corporation of New Jersey.

170,170. **ANGORETWOOL.** YARNS FOR KNITTING, CROCHETING, AND ART NEEDLEWORK. Registered July 10, 1923. BERNHARD ULMANN CO. INC., New York, N. Y., a corporation of New York. Renewed July 10, 1943.

170,171. **GLOWFLOSS.** YARNS FOR KNITTING, CROCHETING, AND ART NEEDLEWORK. Registered July 10, 1923. BERNHARD ULMANN CO. INC., New York, N. Y., a corporation of New York. Renewed July 10, 1943.

170,219. **PRINCESS PAT.** LEATHER BOOTS AND SHOES. Registered July 10, 1923. GEO. E. KEITH COMPANY, Brockton, Mass. Renewed July 10, 1943.

170,267. **REPUBLIC.** READY-MIXED AND PASTE PAINTS, VARNISHES, AND PAINT ENAMELS. Registered July 10, 1923. ENTERPRISE PAINT MFG. CO., Chicago, Ill., a corporation of Illinois. Renewed July 10, 1943.

170,268. **ZINK-A-LITE.** READY-MIXED AND PASTE PAINTS, VARNISHES, AND PAINT ENAMELS. Registered July 10, 1923. ENTERPRISE PAINT MFG. CO., Chicago, Ill., a corporation of Illinois. Renewed July 10, 1943.

170,431. **TUBERTONE.** A CERTAIN NAMED MEDICINAL PREPARATION. Registered July 17, 1923. AMERICAN CHEMICAL & DRUG CO. Renewed July 17, 1943, to N. D. Petrochko and Company, Olyphant, Pa., a partnership, assignee.

170,445. **"DIXIE" AND DRAWING.** HYDROCARBON BLACK USED AS A BASE IN THE MANUFACTURE OF PAINTS, VARNISH, AND SIMILAR COLORING MATTER. Registered July 17, 1923. THE UNITED OIL & NATURAL GAS PRODUCTS CORPORATION, Monroe, La. Renewed July 17, 1943, to United Carbon Company, Inc., Charleston, W. Va., a corporation of Maryland, assignee by mesne assignments.

170,458. **WONDERTONE.** STRINGS FOR VIOLINS AND SIMILAR MUSICAL INSTRUMENTS. Registered July 17, 1923. SIMSON & FREY, INC., New York, N. Y. Renewed July 17, 1943, to Scherl & Roth, Inc., Cleveland, Ohio, a corporation of Ohio, assignee.

170,461. **SOLITE.** GASOLINE. Registered July 17, 1923. STANDARD OIL COMPANY, Whiting, Ind., and Chicago, Ill., a corporation of Indiana. Renewed July 17, 1943.

170,499. **TRIPLE E.** POLISHING COMPOSITIONS, IN THE FORM OF POWDER, PASTE, AND LIQUID, FOR METAL. Registered July 17, 1923. E. REED BURNS MANUFACTURING CORPORATION, Brooklyn, N. Y., a corporation of New York. Renewed July 17, 1943.

170,515. **BLUE LETTER.** CANNED SALMON. Registered July 17, 1923. ARTHUR A. ANDERSON, doing business as Arthur Anderson Fish Co. Renewed July 17, 1943, to Columbia River Salmon Co. Inc., Astoria, Oreg., a corporation of Oregon, successor.

170,552. **WABACO.** YEAST FOOD. Registered July 17, 1923. WARD BAKING COMPANY, New York, N. Y., a corporation of New York. Renewed July 17, 1943.

170,559. **BLUE RIBBON.** SPRING BEDS, MATTRESSES, COTS, AND METAL BEDSTEADS. Registered July 17, 1923. SOUTHERN SPRING BED COMPANY, Atlanta, Ga., a corporation of Georgia. Renewed July 17, 1943.

170,586. **HAWTHORNE LEDGER.** WRITING PAPER. Registered July 17, 1923. HAWTHORNE PAPER COMPANY, Kalamazoo, Mich., a corporation of Michigan. Renewed July 17, 1943.

170,610. **"TREAT IT ROUGH".** PREPARATION TO BE USED IN THE MANUFACTURE OF FLOOR PAINTS, ENAMELS, FILLERS, AND AS A FINISHING VARNISH. Registered July 17, 1923. KEYSTONE VARNISH COMPANY, Brooklyn, N. Y., a corporation of New York. Renewed July 17, 1943.

170,640. **TARZAN.** FIBER SHIPPING CASES. Registered July 17, 1923. ST. REGIS PAPER CO., Watertown, N. Y. Renewed July 17, 1943, to St. Regis Paper Company, New York, N. Y., a corporation of New York.

170,665. **ROQUEFORTONNAISE.** CHEESE. Registered July 17, 1923. WILLIAM FAEHNDRICH, doing business as Wm. Faehndrich Co., New York, N. Y. Renewed July 17, 1943, to William Faehndrich, Brooklyn, N. Y.

170,840. **"MOTHERS OWN" AND DRAWING.** CANDY. Registered July 24, 1923. U. R. S. CANDY STORES, INC., doing business as United Happiness Candy Stores. Renewed July 24, 1943, to Loft Candy Corporation, Long Island City, N. Y., a corporation of New York, by change of name.

170,845. **"WINALL" AND DRAWING.** WHEAT FLOUR, CORN MEAL, AND GRAHAM FLOUR. Registered July 24, 1923. BOONVILLE MILLS COMPANY, Boonville, Mo., a corporation of Missouri. Renewed July 24, 1943.

170,872. **"VITTORIA" AND DRAWING.** OLIVE OIL. Registered July 24, 1923. MAILLIARD & SCHMIEDELL. Renewed July 24, 1943, to Mailliard & Schmiedell, San Francisco, Calif., a corporation of California, assignee by mesne assignments.

170,910. **SUNNY SMILE.** CANNED FRUITS, CANNED VEGETABLES, OLIVES, AND OLIVE OIL. Registered July 24, 1923. CALIFORNIA GROWERS ASSOCIATION, INC., Los Angeles, Calif. Renewed July 24, 1943, to Tri-Valley Packing Association, San Francisco, Calif., a corporation of California, assignee by mesne assignments.

170,928. **U. S. BUNG M'F'G CO.** BUNGS. Registered July 24, 1923. THE UNITED STATES BUNG MFG. CO., New York, and Brooklyn, N. Y., and Cincinnati, Ohio. Renewed July 24, 1943, to The United States Bung Mfg. Co., Cincinnati, Ohio, a corporation of New York.

REISSUES

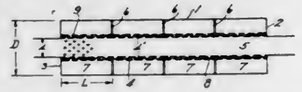
MARCH 9, 1943

22,283
SOUND ATTENUATING DEVICE

Roland B. Bourne, West Hartford, Conn., assignor to The Maxim Silencer Company, Hartford, Conn., a corporation of Connecticut

Original No. 2,043,731, dated June 9, 1936, Serial No. 64,223, February 17, 1936. Application for reissue January 11, 1943, Serial No. 472,051

20 Claims. (Cl. 181—48)



18. A sound attenuating device comprising a main sound conducting channel, a surrounding pervious layer of sound absorbing material having an extent transversely of the channel on the order of one and a half times the corresponding extent of the channel, and a casing forming a closed chamber surrounding the sound absorbing material and having an extent transversely of the channel on the order of three times the corresponding extent of the channel.

22,284
STERILIZATION PROCESS

Carroll L. Griffith and Lloyd A. Hall, Chicago, Ill., assignors to The Griffith Laboratories, Inc., Chicago, Ill., a corporation of Illinois

No Drawing. Original No. 2,189,947, dated February 13, 1940, Serial No. 145,154, May 27, 1937. Application for reissue February 12, 1941, Serial No. 378,606

9 Claims. (Cl. 21—58)

2. The process of sterilizing normally dry material which comprises heating the material for at least on hour at a temperature not lower than 110° F., freeing the heated material of removable gases and moisture by applying a vacuum thereto, exposing the dry evacuated material at a heat of from 110° F. to 240° F. in a chamber to substantially undiluted ethylene oxide gas at a concentration of at least ¾ of a pound to 35 cu. ft. of chamber volume for at least two and one-half hours.

22,285
DETONATOR

Sylvester B. Large, Tamaqua, and Guy F. Rolland, McKeansburg, Pa., assignors to Atlas Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Original No. 2,195,032, dated March 26, 1940, Serial No. 202,437, April 16, 1938. Application for reissue March 29, 1941, Serial No. 385,799½

18 Claims. (Cl. 52—4)

16. In a detonator, an ignition charge consisting of at least .02 gram of a lightly compressed inflammable admixture comprising combustible, organic nitrate, binding ingredient which becomes coherent when subjected to pressure and at least 50% by weight of diazodinitrophenol, said binding ingredient being present in sufficient proportion to prevent rumbling out of the lightly compressed ignition charge and said ignition charge being present in a lesser amount than that capable of directly detonating a non-primary detonator charge of tetryl.

22,286
AZO DYES

Swanie S. Rossander, Wilmington, Del., Donovan E. Kvalnes, Penns Grove, N. J., and Chiles E. Sparks, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

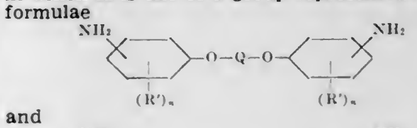
No Drawing. Original No. 2,249,045, dated July 15, 1941, Serial No. 294,430, September 12, 1939. Application for reissue July 7, 1942, Serial No. 450,000

17 Claims. (Cl. 260—145)

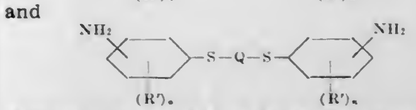
1. The azo compound represented by the formula

A←Y←X→Y→A

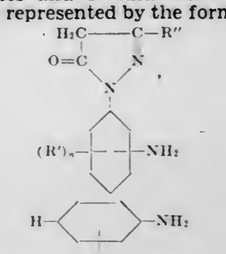
in which X is one of a group represented by the formulae



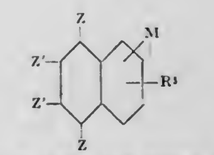
and



wherein Q is a radical of the group consisting of straight and branched chain alkylene radicals having 1 to 10 carbons, mono-hydroxy-alkylene radicals having 3 to 7 carbons wherein the hydroxy group is attached to a carbon other than that directly attached to —O— or —S— and alkylene ether radicals having 1 to 4 carbons in each alkylene group; R′ is at least one of the group consisting of hydrogen, alkyl having 1 to 6 carbons, the corresponding alkoxy groups, halogen, carboxy and sulfonic acid and *n* is 1 to 4; each Y is one of a group consisting of radicals of amino-phenyl pyrazolones, amino benzenes, naphthylamines and 1- and 2-amino-naphthol sulfonic acids represented by the formulae

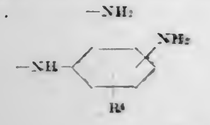


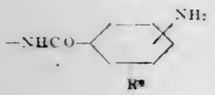
and



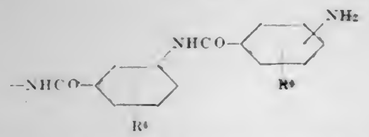
in which R″ is from the group consisting of

methyl and carboxyl; R''' is from the group consisting of hydrogen, alkyl and alkoxy; *n* is 1 to 4; *m* is 1 to 2; R^5 is one of a group consisting of hydrogen, alkyl, alkoxy and sulfonic acid; one Z is hydroxy and the other is hydrogen; the Z' which is meta to hydroxy is sulfonic acid and the other is hydrogen; M is in the 1- or 2-position of the naphthalene nucleus and is one of a group consisting of

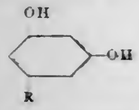




and



wherein R^6 is one of a group consisting of hydrogen, alkyl, alkoxy, halogen and sulfonic acid, and amino is in the meta or para position to —CO—; and each A is a radical of a metadihydroxy benzene represented by the formula



wherein R is one of a group consisting of hydrogen, alkyl having 1 to 6 carbons, the corresponding alkoxy groups, amino, halogen, CN, carboxyl and sulfonic acid.

22,287

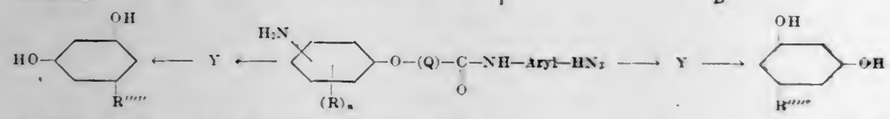
WATER-SOLUBLE AZO DYES FROM AMINO-ARYLOXY-ACYL-DIAMINES

Chiles E. Sparks, Wilmington, and James W. Libby, Jr., Claymont, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

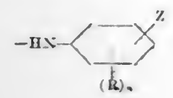
No Drawing. Original No. 2,266,823, dated December 23, 1941, Serial No. 345,171, July 12, 1940. Application for reissue July 7, 1942, Serial No. 450,001

17 Claims. (Cl. 260—145)

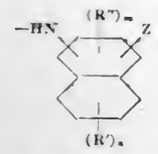
1. An azo compound of the group consisting of the acids and the alkali metal salts thereof which in the acid form are represented by the formula



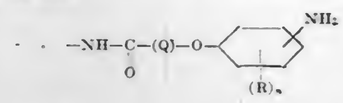
in which Q is one of a group consisting of branched and straight chain aliphatic hydrocarbon radicals having 1 to 6 carbons; each R is from the group consisting of hydrogen, alkyl having 1 to 6 carbons, the corresponding alkoxy groups, carboxy, sulfonic acid and halogen; R'''' is one of a group consisting of hydrogen, alkyl having 1 to 6 carbons, the corresponding alkoxy groups, hydroxy, sulfonic acid and carboxy; —HN—Aryl—NH_2 is one of a group consisting of radicals of the benzene and naphthalene series represented by the formulae



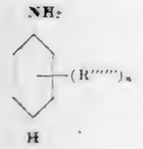
and

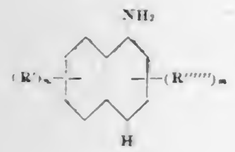


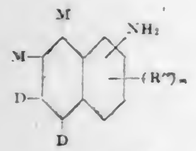
wherein R' is from the group consisting of hydrogen, halogen, carboxy and sulfonic acid; R'' is from the group consisting of hydrogen, halogen, alkyl having 1 to 6 carbons and the corresponding alkoxy groups; *n* is 1 to 2; *m* is 1 to 2; and Z is one of a group consisting of amino and the radical

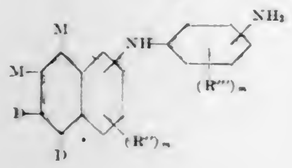


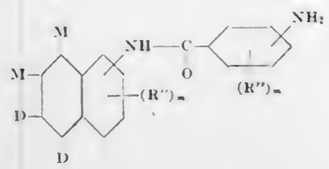
and each Y is one of a group represented by the following formulae

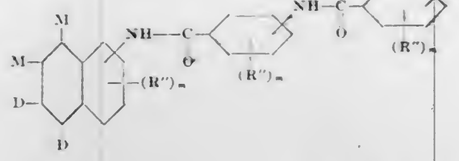




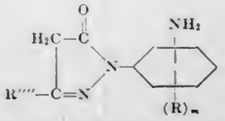








and



wherein —H represents the coupling position; one D is hydroxy and the other is hydrogen; the M which is meta to hydroxy is sulfonic acid and the other M is hydrogen; R''' is from the group consisting of hydrogen, carboxy, and sulfonic acid; R'''' is one of a group consisting of methyl and carboxy; and R'''''' is one of a group consisting of hydrogen, alkyl and alkoxy; said compound containing at least one solubilizing group.

PLANT PATENTS

GRANTED MARCH 9, 1943

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

571

BLACKBERRY PLANT

Morley B. Crane, Merton Park, London, England, assignor to Armstrong Nurseries, Inc., Ontario, Calif., a corporation of California

Application October 20, 1942, Serial No. 462,738

1 Claim. (Cl. 47—62)

A new and distinct variety of blackberry plant, characterized as to novelty by complete absence of prickles or thorns; distinctive flavor, large size and round shape of the fruit; its midseason ripening and continuity over a long period of time; the large size of the drupelets; the vigorous habit of growth of the plant; production of satisfactory fruit from laterals on both two and one year old canes; and its tetraploid chromosome arrangement, substantially as shown and described.

572

FREESTONE PEACH

Glen O. Dillon, Corona, Calif.

Application January 26, 1942, Serial No. 428,237

1 Claim. (Cl. 47—62)

The freestone peach variety herein described characterized by its late date of ripening normally falling between November 20 to December 15; unequal halves in the plane of suture of the pit, its yellow-green coloring usually having a slight redness at the blossom end shading over a portion of one of the halves when ripe, the fine grain and deep yellow of its flesh when ripe.

PATENTS

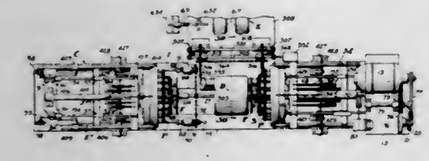
GRANTED MARCH 9, 1943

2,313,035

METHOD OF AND APPARATUS FOR BUILDING TIRES

Walter J. Breth, Akron, Ohio, assignor to The General Tire & Rubber Company, Akron, Ohio, a corporation of Ohio

Application September 22, 1939, Serial No. 296,110
59 Claims. (Cl. 154—14)



1. In the method of building a pneumatic tire which comprises forming a first annular band of ply material, supporting the band in approximately cylindrical shape, forming an annular inextensible bead, folding a circumferential marginal edge of the band around the bead, forming a second annular band of ply material around the first band in overlying relation thereto and with a circumferential marginal edge projecting beyond the fold in the first band, the improvement which comprises simultaneously folding all portions of the projecting edge of the second band in a radial direction around and under the bead and as last named folding progresses resiliently pressing the folded portions of the second band radially outward substantially simultaneously around the entire circumference of the band to compact the same against the bead.

2,313,036

LAMP SOCKET

Guy H. Burt, Edgewood, R. I., assignor of one-half to Harry M. Burt, Narragansett, R. I.

Application July 20, 1942, Serial No. 451,523
3 Claims. (Cl. 173—328)



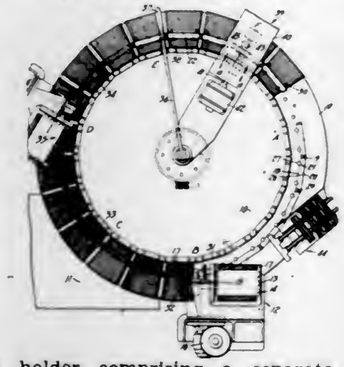
3. A socket for the reception of a lamp having two contact pins comprising a body of insulating material having recesses therein with a separating wall between said recesses and an opening through said wall, contact arms in said recesses, a bridging element extending through said opening and in electrical connection with one of said arms and spaced from the other of said contact arms, the said other of the contact arms being movable, said body having slots therein communicating with said contacts for the reception of the contact pins of a lamp, said movable contact arm being moved by the insertion of the lamp into the socket to cause engagement of the movable contact arm with the bridging element to establish electrical connection between said contact arms.

2,313,037

APPARATUS FOR MAKING BROOMS

Henry Cave, Hartford, Conn., assignor to The Fuller Brush Company, Hartford, Conn., a corporation of Connecticut

Application August 5, 1940, Serial No. 351,448
4 Claims. (Cl. 300—12)



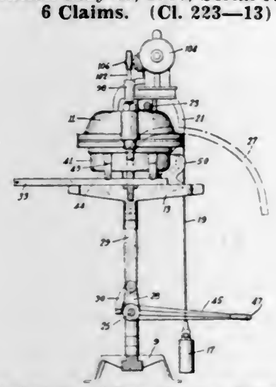
1. A holder comprising a separate article adapted for expeditious and ready handling in a process for making brooms, said holder comprising a base in the form of a narrow, single piece of material having upstanding ends of substantially equal lengths with a clear space for the full length of said base between said ends, a clamping bar of a length substantially that of the space between said ends adapted to be placed between said ends and removably attached to said base, and means for unobstructed interlocking engagement of the opposite ends of said bar with said upstanding ends upon presentation of said bar ends into locking relationship with said upstanding ends.

2,313,038

HAT MACHINE

Frank Forrest Dow, Jamaica, N. Y., assignor to M. A. Cuming & Company, Inc., New York, N. Y., a corporation of New York

Application May 25, 1940, Serial No. 337,137
6 Claims. (Cl. 223—13)



1. In a hat machine, the combination with a frame and a fixed head carried therewith, of an

elevator reciprocable with respect to the head, a bottom block movable on the elevator between a position in register with the head and a position permitting the insertion and removal of a hat from the bottom block and guide means carried by the carriage and an arm movable coincidentally with the elevator to coact with the guide means to move the bottom block with respect to the elevator.

2,313,039

ADHESIVE COMPOSITION AND METHOD OF MAKING THE SAME

Roland D. Earle, Cohasset, Mass., assignor to Union-Baystate Co. Inc., Cambridge, Mass., a corporation of Massachusetts

No Drawing. Application June 13, 1940, Serial No. 340,367
2 Claims. (Cl. 260—32)

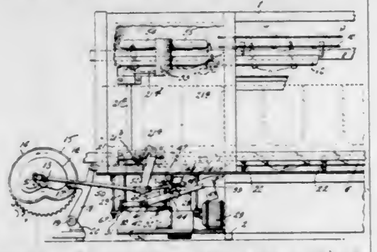
1. The method of preparing a liquid adhesive which comprises dissolving unplasticized neoprene in toluol to which has been added a small quantity of morpholine.

2,313,040

DRYING OF HOLLOW CONTAINERS

E. Roy Alling, Kenmore, and Carl F. Ulrich, Buffalo, N. Y.; said Ulrich assignor to Rice & Adams Corporation, Buffalo, N. Y.

Application February 26, 1941, Serial No. 380,682
17 Claims. (Cl. 34—105)



9. Improved apparatus for drying the interior of a hollow container having an opening therein, which comprises means for advancing a container through a drying station, a source of drying gas under pressure, a conduit connected to said source and having a discharge outlet adjacent said station for delivery of a stream of drying gas therethrough into said container, means operable in timed relation to said advancing means for yieldingly inserting said outlet of said conduit through the opening in said container and a substantial distance into the interior thereof while said container is in said station and for forcibly removing said outlet from said container before it leaves said station, whereby drying gas passing through said outlet will flow in intimate contact with the inner walls of said container.

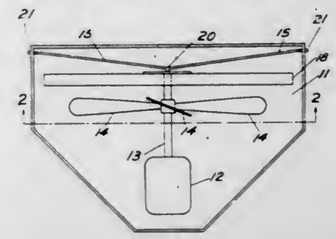
2,313,041

HUMIDIFYING MEANS

Willard E. Baier, Ontario, Calif.

Application April 22, 1940, Serial No. 331,043
2 Claims. (Cl. 261—30)

1. A humidifying means comprising a base, a motor mounted above and supported by said base, a fan mounted upon the shaft of said motor and driven thereby, a circular moistening element comprising a spiral coil lying substantially in one plane, a spindle pivotally mounted upon said base, said moistening element being rotatably and removably mounted upon said spindle and being eccentrically, rotatably, and removably supported upon said shaft and in front of said fan by said spindle and being directly driven by said shaft, said base being formed to comprise a container for liquid below said spiral coil and surrounding the lower portion thereof.

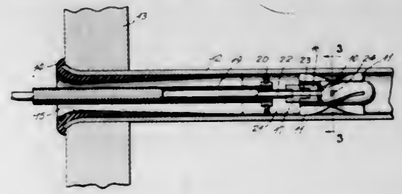


2,313,042

CONDENSER TUBE CLEANER

Thomas J. Bay, United States Navy

Application August 26, 1942, Serial No. 456,215
3 Claims. (Cl. 15—104.10)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A tube cleaner comprising a rotatable shaft, a body portion secured to the end of said shaft for passage through a tube to be cleaned, a plurality of blades of compressible material carried by said body portion for contact with the wall of said tube with a squeegee action to remove deposits of foreign matter therefrom, a flexible tubular member surrounding said shaft, a flexible diaphragm fixed to the end of said tubular member at the rear of and in spaced relation to said cleaner and defining a fluid distributing chamber, said chamber being in fluid communication with a source of fluid under pressure for passage between said blades to augment the cleaning action thereof and for carrying away foreign matter dislodged from the wall of said tube by said blades.

2,313,043

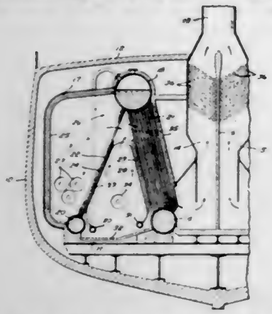
STEAM GENERATOR

John Blizard, Garden City, N. Y., assignor to Foster Wheeler Corporation, New York, N. Y., a corporation of New York

Application May 20, 1938, Serial No. 208,971
13 Claims. (Cl. 122—473)

1. A steam generator comprising a setting, a main bank of steam generating tubes in the setting, a boiler furnace in the setting separated from the main bank of tubes by other steam generating tubes, means for firing the boiler furnace, a superheater furnace disposed between the main bank of tubes and said other tubes, a superheater in the superheater furnace, and means for firing the superheater furnace, the arrangement

being such that gases produced in the superheater furnace, pass in heat exchange relation-

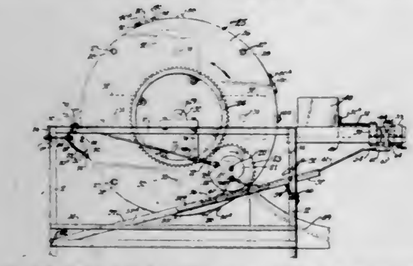


ship with said main bank of tubes after flowing out of the superheater furnace.

2,313,044
REDUCTION OF ORES TO METAL
Herman A. Brassert, Rye, N. Y., assignor to Minerals and Metals Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application October 29, 1941, Serial No. 416,990
7 Claims. (Cl. 75—21)

6. The method of producing titanium free steel and a highly concentrated titanium slag from ores and sands containing ilmenite, which consists in reducing the magnetic iron oxides contained in these materials to sponge iron at temperatures and under conditions which do not permit the reduction of titanium compounds, melting the iron and the unreduced portion of the material in a melting furnace with the addition of lime, to form a slag with the unreduced titanium compound and the gangue of the ores, adding carbon to the bath to reduce sufficient iron oxide of the ilmenite to iron to effect a substantial concentration of the titanium compound in the slag.

2,313,045
MIXER
Edward A. Brown, Dodge City, Kans.
Application November 25, 1941, Serial No. 420,385
14 Claims. (Cl. 259—54)



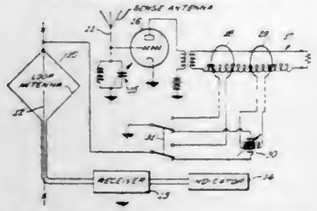
1. Mixing apparatus comprising a stationary structure, an intermittently rotatable structure supported on said stationary structure, a plurality of intermittently rotatable receptacles carried by said rotatable structure and each adapted to support a container for the material to be mixed, means for rotating said receptacles during the rotation of said rotatable structure, a gate for each receptacle adapted to retain the container therein during the mixing operation, means for automatically successively opening the gates to permit the discharge of the containers from the receptacles, means for automatically successively closing the gates after each receptacle is charged with a container containing the material to be mixed, a motor, and mechanism driven by said motor for intermittently rotating said rotatable structure during the uninterrupted operation of said motor.

2,313,046
RADIO ANTENNA SYSTEM
Malcolm Bruce, Plymouth, Mass.
Application March 26, 1942, Serial No. 436,270
9 Claims. (Cl. 250—33)



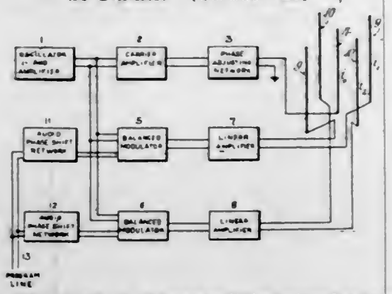
1. An antenna system comprising a main section, a capacitive member at one end thereof and insulated therefrom, a reactance adjacent the other end of the main section, and a transmission line connecting the reactance between the capacitive member and the end of the main section adjacent said member, said transmission line being shielded at least in part by the main section of the antenna.

2,313,047
DIRECTION FINDING SYSTEM
Henri G. Busignies, Forest Hills, N. Y., and Avery G. Richardson, Boonton, N. J., assignors to Federal Telephone & Radio Corporation, Newark, N. J., a corporation of Delaware
Application August 1, 1941, Serial No. 404,998
4 Claims. (Cl. 250—11)



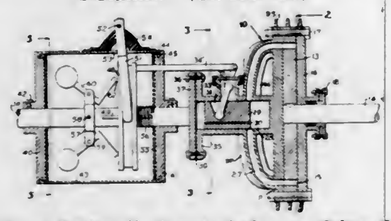
1. In a radio direction finder system comprising directionally discriminating receiving antenna means coupled to a receiver and non-directional responsive receiving antenna means, means feeding energy received by said non-directional antenna means to said receiver, said feeding means comprising an artificial transmission line having phase displacement characteristics progressing longitudinally thereof, a first coil inductively coupled to said artificial line and longitudinally displaceable therealong, a second coil inductively coupled to said artificial line and longitudinally displaceable therealong, means for feeding energy from said first coil to said receiver 90° out of phase with energy received by said directional antenna means, and means for feeding energy from said second coil to said receiver in phase with energy received by said directional antenna means.

2,313,048
BROADCASTING SYSTEM
John F. Byrne, Cedar Rapids, Iowa, assignor to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa
Application June 23, 1938, Serial No. 215,465
26 Claims. (Cl. 250—17)



26. The method of transmitting simultaneously a wide range of modulation frequencies which includes radiating an unmodulated carrier wave, establishing a rotating field, and varying the rate of rotation of said field as a function of said modulation frequencies.

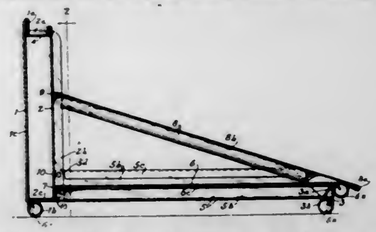
2,313,049
HYDRAULIC TRANSMISSION
Charles B. Cook, Los Angeles, Calif.
Application August 25, 1941, Serial No. 408,202
4 Claims. (Cl. 192—58)



1. In a hydraulic transmission, a drive shaft, a body mounted on said drive shaft and rotatable therewith, said body having a closed chamber therein, a conduit communicating with opposed portions of said chamber, a driven member rotatable in said chamber and including outwardly extending portions engaging opposed walls of said chamber to thereby force liquid through said chamber and said conduit when said body rotates about said driven member, a valve chamber intermediate the length of said conduit, a valve member slidable in said valve chamber and adapted to control passage of liquid through said conduit whereby hydraulic pressure causes the driven member to rotate, one side of said valve having a tapered recess, a crank, one end of said crank being fitted in said recess, a recess in said valve chamber, said crank being pivoted in and extending through said last mentioned recess, and means to operate said crank.

2,313,050
TABLE-TOP DESK
Sherman M. Cooledge, Tacoma, Wash.
Application June 5, 1940, Serial No. 338,831
7 Claims. (Cl. 45—69)

1. In a table-top-desk, the combination of a rigid unit which is substantially L-shaped from a left-side view-point and includes a floor and front and rear and intermediate walls, the intermediate and rear walls being at the rear end-portion of said floor and defining therebetween a walled receptacle for storage of one or more note-books or the like, a plate which is both a floor and a cover hinged on the intermediate wall and supported normally in spaced parallel relation to the first said floor and combined therewith to form a normally covered receptacle



for containing writing paper or carbon paper and the like for ready and convenient access by a user who raises the front end of said plate, and a desk-top or plate hinged on said intermediate wall and forwardly and downwardly inclined and disposed normally with its front end portion on the first said plate and thus being properly combined with the latter to form a compartment for holding stationery such as envelopes and letter-heads for ready access by the user.

2,313,051
FRUIT HANDLING EQUIPMENT
Frank W. Cutler, Winslow, Wash., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application July 22, 1940, Serial No. 346,724
3 Claims. (Cl. 209—121)



1. In a sizer for sizing fruit by weight, the combination of: a flexible endless conveyor; pocket forming scale frames provided on said feed conveyor, each of said frames having a pocket for receiving a piece of fruit and being adapted to size said piece of fruit in accordance with its weight as said scale frames travel with said conveyor along a horizontal flight thereof; rotary screw feed means disposed above and parallel with said upper flight of said conveyor; means for operating said screw feed means in timed relation with said conveyor to cause one space between threads of said screw feed means to arrive at the end of said screw feed means each time a fruit receiving conveyor pocket comes up into position at the adjacent end of said upper flight; a star wheel mounted over said adjacent end of said upper flight and between said flight and the discharge end of said screw feed means, the latter being aligned with said star wheel and said pockets in a given vertical plane, means for rotating said star wheel in timed relation with said screw feed means and said conveyor; means for delivering fruit to said screw feed means at a rate substantially in excess of the rate at which said conveyor can handle the fruit

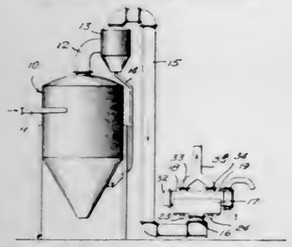
thereby causing the fruit to overflow laterally from said fruit feed means but assuring the delivery of a piece of fruit from said screw feed means to said star wheel and from said star wheel to each conveyor pocket, when the latter arrives in position for receiving this; and means for receiving the fruit overflowing laterally from said screw feed means and returning said overflow to said fruit delivering means.

2,313,052

CONDENSING METHOD

Dion K. Dean, Rahway, N. J., assignor to Foster Wheeler Corporation, New York, N. Y., a corporation of New York

Application October 25, 1938, Serial No. 236,861
1 Claim. (Cl. 257—51)



In the method of recovering heat from the vapor of pulp digester blowdown, the steps of introducing the vapor and entrained pulp into the lower portion of a condensing zone, flowing the vapor and entrained pulp upwardly over a condensing surface, and withdrawing condensate from said zone, the operation being such that condensate of the vapor flows downwardly over said condensing surface and prevents the accumulation thereon of the pulp entrained in the vapor flowing over said surface.

2,313,053

CATALYST AND PREPARATION THEREOF

Martin de Simó, Piedmont, and Frank Matthew McMillan and Harry Ashley Cheney, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application August 15, 1939, Serial No. 290,256
10 Claims. (Cl. 252—205)

1. The process for the preparation of improved aluminum chloride catalysts especially suited for catalyzing hydrocarbon reactions which comprises mixing a finely divided partially hydrated solid carrier material with a sufficient amount of anhydrous aluminum chloride to form a solid cake upon fusing and solidifying, fusing the aluminum chloride in said mixture at a temperature of at least 190° C. under a pressure of at least 40 pounds per square inch, solidifying the mixture by cooling, and crushing the resulting catalyst mass into irregular fragments.

2,313,054

CATALYTIC ISOMERIZATION OF SATURATED HYDROCARBONS

Martin de Simó, Piedmont, and Frank Matthew McMillan and Harry Ashley Cheney, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application October 31, 1940, Serial No. 363,670
6 Claims. (Cl. 260—676)

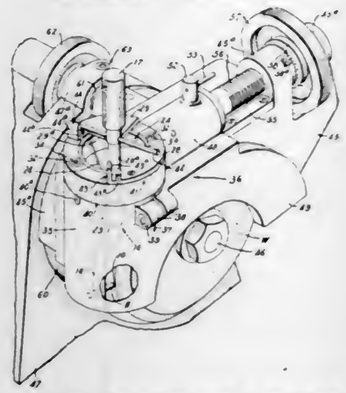
1. A process for the isomerization of saturated hydrocarbons comprising the step of contacting a saturated hydrocarbon fraction consisting essentially of saturated hydrocarbons containing from four to nine carbon atoms in the presence of a hydrogen halide at a temperature between 20° C. and 300° C. under isomerization conditions with a bed of a foraminous promoted aluminum chloride catalyst prepared by fusing together a finely divided mineral promoter selected from the group consisting of partially dehydrated siliceous and aluminous materials normally containing firmly bound water with sufficient anhydrous aluminum chloride to form a solid cake upon cooling, at a temperature of at least 190° C. under a pressure of at least 40 pounds per square inch, causing the fused mass to swell or foam by decreasing the pressure just prior to solidification, cooling the swollen mass to produce a foraminous cake, and breaking said foraminous cake into irregular fragments.

2,313,055

GRINDING TOOL DRESSER

Gerard A. De Vlieg, Rockford, Ill.

Application August 2, 1940, Serial No. 349,815
19 Claims. (Cl. 125—11)



1. In a machine for dressing a grinding wheel, the combination of a frame, means supporting said frame and a rotary grinding wheel for adjustment longitudinally and transversely of wheel axis, a bore in said frame extending generally tangentially of said wheel, a sleeve adjustably journaled in said bore, a ring journaled in said sleeve for adjustment about the sleeve axis, templates respectively carried by said sleeve and ring and having guide surfaces coacting to define a V-notch, a bar extending through said notch and sleeve and rotatably supported with its longitudinal axis coincident with said sleeve axis when the bar is seated in the root of said notch, said bar also being fulcrumed intermediate its ends for universal swiveling about a point lying on said axis, one end of said bar being engageable with and guided by said surfaces and the other end being offset laterally from said axis, a dressing point supported by said offset end for adjustment transversely of said axis and engageable with the periphery of said wheel.

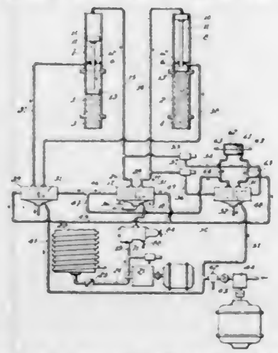
2,313,056

FEEDING APPARATUS FOR PLASTIC MATERIAL

Walter H. Emerson, East Liverpool, and William C. Denison, Jr., Columbus, Ohio

Application March 9, 1940, Serial No. 323,166
17 Claims. (Cl. 25—22)

1. Continuously operating clay feeding apparatus comprising a pair of pistons each adapted to be connected to the back of a plunger, a hydraulic cylinder housing each piston, a pump for pumping liquid into said cylinders behind the pistons to force them ahead, a valve for connecting the pump alternately with each cylinder,



means for maintaining the pump operating at a constant pressure in order to deliver said liquid to the cylinders at a uniform rate, and means actuated by the increase in hydraulic pressure behind a piston that has reached the forward limit of its stroke for tripping said valve to connect the pump with the other cylinder.

2,313,057

SEED PLANTING, SEED INOCULATION, AND FERTILIZER

Albert C. Fischer, Chicago, Ill.

Original application March 21, 1935, Serial No. 12,245. Divided and this application August 4, 1939, Serial No. 288,428
3 Claims. (Cl. 47—1)



1. The combination of a self-sustaining shell of colloidal material, a seed embedded therein and a plurality of different substances for facilitating the growth of the seed when planted carried by said shell, each in one of a plurality of shells enclosing the seed and separated therefrom.

2,313,058

TEXTILE PRODUCT AND METHOD OF MAKING THE SAME

Carleton S. Francis, Jr., Chestnut Hill, Pa., assignor to Sylvania Industrial Corporation, Fredericksburg, Va., a corporation of Virginia

Application July 17, 1941, Serial No. 402,812
23 Claims. (Cl. 57—140)



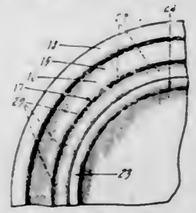
1. In a process of making a composite multiply yarn, the steps comprising associating a potentially thermoplastic strand with a non-thermoplastic strand by twisting one of said strands about the other, and treating said potentially thermoplastic strand to render said strand adhesive and bond said strands together.

2,313,059

CONTAINER

Richard D. Freeman, Westfield, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey

Application February 15, 1941, Serial No. 379,125
1 Claim. (Cl. 220—90)



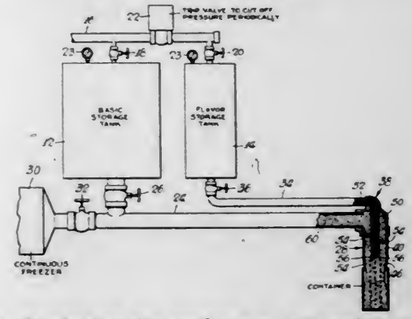
A friction top container for paint and the like, comprising a container body, a friction ring seamed to the upper end of said body including spaced inner and outer friction walls connected by an annular inwardly curved arcuate wall section to define a channel of substantial width throughout, a plurality of imperforate removable areas set off by score lines in said curved connecting wall section, and a friction plug cover insertable into said friction ring channel and having an annular groove defined by inner and outer spaced friction walls, said cover walls respectively engaging the walls of said friction ring as a reenforced double friction tight closure to seal the container contents in a double friction seal and to protect said removable areas, said areas being adapted to be punched out of said arcuate section following the initial opening of the container to provide drainage openings of material size in said channel for returning by gravity to the container interior residual paint lodged in said channel.

2,313,060

APPARATUS FOR MAKING VARIEGATED ICE CREAMS OR SIMILAR SUBSTANCES

Aaron Friedman, New York, N. Y., assignor to Joe Lowe Corporation, New York, N. Y., a corporation of Delaware

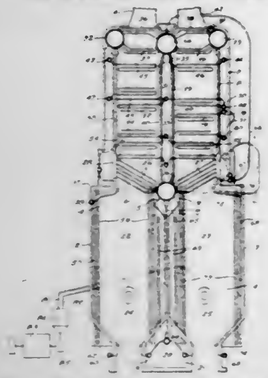
Original application April 16, 1940, Serial No. 329,914. Divided and this application November 20, 1940, Serial No. 366,387
11 Claims. (Cl. 107—1)



1. Apparatus for making a variegated composite edible product consisting of a source of pressure for delivering intermittently a con-

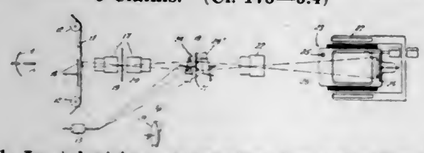
trasting flavoring material from a supply tank to an elongated extrusion head through which is passing under constant pressure a continuous stream of semi-plastic substance, said extrusion head containing an elongated nozzle concentrically mounted therein for delivering a plurality of spaced streams of spaced portions of flavoring material throughout said continuous stream of basic substance, said extrusion head having a constriction adjacent its delivery end for compressing said combined substances as the same is discharged therefrom.

2,313,061
STEAM GENERATOR
Martin Frisch, New York, N. Y., assignor to Foster Wheeler Corporation, New York, N. Y., a corporation of New York
Application November 4, 1938, Serial No. 238,732
13 Claims. (Cl. 122—473)



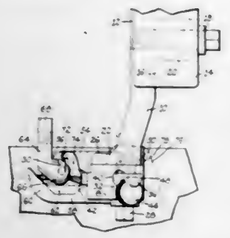
10. The method of generating and superheating steam which comprises producing separate streams of gases, flowing each of said streams of gases unmixed with gases of another stream in heat exchange relationship with steam generating surface, superheating the steam so generated by passing it through separate zones in heat exchange relationship with one of said streams of gases, one zone being outside the main portion of the path of said one stream of gases and another zone being substantially within the path of said one stream of gases, and controlling the streams of gases to regulate the heat content thereof to thereby control the rate of steam generation and to maintain the superheated steam substantially at a predetermined temperature at different rates of steam generation.

2,313,062
TELEVISION
Peter C. Goldmark, New Canaan, Conn., assignor to Columbia Broadcasting System, Inc., New York, N. Y., a corporation of New York
Application July 26, 1941, Serial No. 404,168
6 Claims. (Cl. 178—5.4)



1. In television, apparatus for scanning an object field which comprises an optical system for focusing an image of said object field at a selected plane, a pair of rotatable disks each having a plurality of transparent segments spaced therearound, said disks being positioned near said selected plane and mounted so that as the disks rotate cooperating pairs of segments are successively interposed in the path of the image rays, said plurality of segments having plane parallel faces substantially parallel to the planes of rotation of the respective disks and the planes of rotation being inclined in opposed directions so that segments of respective disks displace the image rays in opposite low-frequency directions, a scanning device positioned to receive the image rays after said displacing and adapted to scan the image in two dimensions at field-scanning frequency, means for rotating the disks in substantial synchronism with the field scanning at a speed such that each cooperating pair of segments operates substantially throughout at least one field-scanning period, the combined effective thicknesses of each cooperating pair of segments being selected to yield substantially equal optical lengths of path and the relative thicknesses of different cooperating pairs being different so as to produce a plurality of different shifts of the image rays in the low-frequency direction.

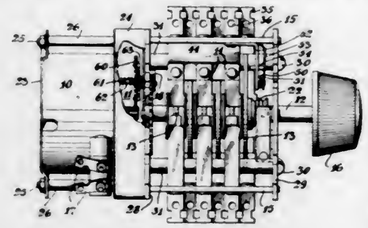
2,313,063
SHOE SEWING MACHINE
Otto R. Haas, North Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application November 23, 1940, Serial No. 366,896
8 Claims. (Cl. 112—45)



1. A presser foot and grooving attachment for shoe sewing machines comprising a presser foot, a supporting arm therefor adapted to be secured to the machine for mounting the attachment thereon, a guideway in the presser foot, and a grooving knife adjustable in said guideway to vary the depth of the groove, the presser foot and grooving knife being bodily adjustable relative to the supporting arm in a direction corresponding, when the attachment is mounted on the machine, to the direction of the seam line.

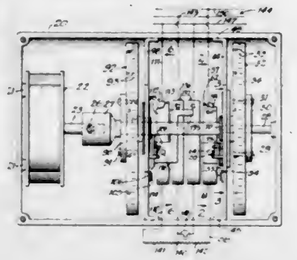
2,313,064
TIME SWITCH
Harry C. Hall, Indianapolis, Ind., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware
Application November 2, 1940, Serial No. 363,967
11 Claims. (Cl. 200—33)

1. A time switch comprising a drive motor, a gear train driven thereby, and a cam shaft carrying the last gear of said train, cams on said shaft and electric contacts controlled thereby, manual control means for said shaft, said shaft being slidable longitudinally to bring about disengagement of the last gear of said train from the preceding gear thereof and thereby enable manual control of said cams, and a two position



index mechanism for indexing said shaft in or out of gear.

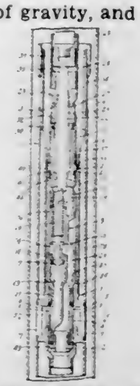
2,313,065
TIMING MECHANISM
William D. Halloran, River Forest, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application August 27, 1938, Serial No. 227,048
6 Claims. (Cl. 200—35)



1. In a device of the class described, a switch, a clock having a spring, a shaft rotatable by said spring, said shaft being rotatable in a reverse direction to energize said spring, means operative upon the turning of said shaft in the reverse direction to close said switch and maintain said switch closed until the shaft has been rotated by said spring to a pre-determined position, means cooperating with said switch and the switch-closing means for providing a quick-break for said switch when the said shaft reaches said position, and means independent of said switch for preventing movement of said shaft beyond said position in the direction of its rotation by said spring.

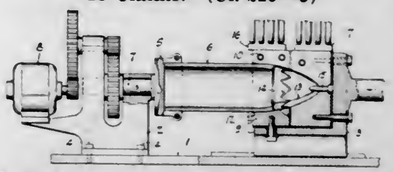
2,313,066
GAS LIFT DEVICE FOR WELLS
George A. Hatfield, Los Angeles, Calif., assignor to The National Supply Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application January 8, 1940, Serial No. 312,833
13 Claims. (Cl. 103—240)

1. In combination with a device for raising liquid from a well, including a tubing, a lateral opening in said tubing near the lower end thereof in communication with a source of gas under pressure, of a valve structure in said tubing having a valve adapted to control the flow of gas through said opening, releasable lock means adapted to secure said valve structure in operative position, a wire line having a weight suspended therefrom and positioned within the tubing, means at the top of the well associated with the wire line for controlling downward movement of the weight under influence of gravity, and cooperating parts



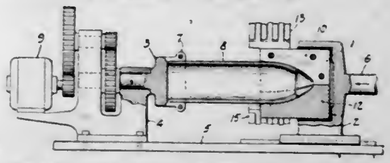
associated with the weight whereby downward movement of said weight acts sequentially to actuate said lock means and to open the valve.

2,313,067
ELECTRIC FORMING APPARATUS
William C. Heath, Shorewood, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application May 4, 1942, Serial No. 441,623
13 Claims. (Cl. 219—3)



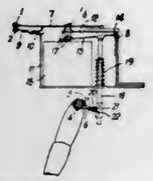
12. In an electric forming apparatus, a plurality of die segments defining a die cavity for receiving and forming an article, means to pass a heating current through the portion of the article contacting with said segments as the article and die are rotated relative to one another, and means to control the application of heating current to the article independently in different longitudinal regions of the die.

2,313,068
ELECTRIC FORGING APPARATUS
Warren F. Heineman, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application May 1, 1941, Serial No. 391,234
10 Claims. (Cl. 219—3)



10. In an apparatus of the class described a plurality of opposed electrodes disposed to make recurrent contact with portions of an article being heated for a substantial distance longitudinally of the electrodes, and electrical connections supplying current to said electrodes and providing therewith current paths of different electrical impedance to effect a predetermined differential distribution of the heating current to the article in different longitudinal regions of contact of said electrodes.

2,313,069
TOY DOLL
Anna Charlotta Helena Henkelmann, Husum, Sweden
Application February 26, 1942, Serial No. 432,508
In Sweden March 21, 1941
5 Claims. (Cl. 46—118)

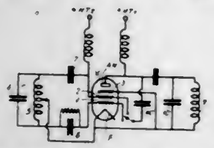


1. In a doll a mechanism for moving the mouth on moving the arm of the doll, comprising a member carrying one lip and another member carrying the other lip, a displaceable spring-actuated bar for moving one of said members to move the lip carried thereby, a movable pawl on said bar and projections on the arm of the doll for cooperation with said pawl to displace said bar by way of the pawl on swinging the arm in one direction.

2,313,070
METAL COMPOSITION
Franz R. Hensel, Earl I. Larsen, and Earl F. Swazy, Indianapolis, Ind., assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware
No Drawing. Application June 22, 1940, Serial No. 341,960
4 Claims. (Cl. 75—136)

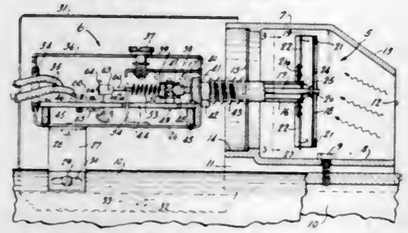
1. An electric contacting element formed of a metal composition composed of 35 to 70% of refractory metal carbide selected from the group consisting of the carbides of titanium, zirconium, vanadium, columbium, tantalum, molybdenum and tungsten, .25 to 15% cobalt and 25 to 64% silver.

2,313,071
OSCILLATION GENERATOR AND MODULATOR
Alan D'Arcy Hodgson, Bedford, England, assignor to Radio Corporation of America, a corporation of Delaware
Application October 10, 1931, Serial No. 568,058
In Great Britain October 20, 1930
16 Claims. (Cl. 250—36)



5. In a wave generator, an electron discharge device having an electron emission element, an outer anode, an inner anode, a cathode and a grid-like electrode, a frequency determining circuit including a reactance connecting said cathode, said inner anode and said grid-like electrode in an oscillation generating circuit, an output circuit connected between the anode and cathode of said device, and means for neutralizing the capacity existing between said outer anode and said grid electrode including a capacity element connected between said outer anode and inner anode.

2,313,072
THERMAL RESPONSIVE DEVICE
Clifford Hotchkiss, Milwaukee, Wis., assignor to Perfex Corporation, Milwaukee, Wis., a corporation of Wisconsin
Application October 30, 1940, Serial No. 363,521
18 Claims. (Cl. 200—137)



1. In a thermostatic mechanism, the combination of a control device having a movable element, first thermal responsive means comprising two portions subjected to a variable temperature and arranged to change in temperature therewith at different rates, said thermal responsive means actuating said movable element, and a second thermal responsive means also subjected to said variable temperature and varying the movement of said movable element caused by said first mentioned thermal responsive means.

2,313,073
WRIST WATCH BAND
George B. Hovey, Cincinnati, Ohio
Application March 16, 1942, Serial No. 434,984
2 Claims. (Cl. 224—4)

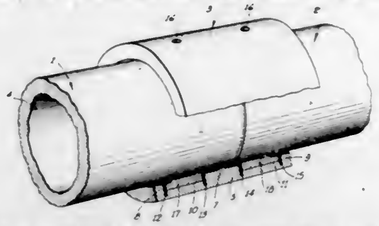


1. In a wrist band, a portable object, curved yokes assembled with said object, each yoke including side arms, the side arms of one yoke being connected terminally by a cross piece, the side arms of the other yoke terminating in outstanding fingers, a connector comprising a box-like, open-topped body having notches in its ends for the reception of the side arms of the respective yokes, the cross piece being located within the body, the side walls of the body having longitudinally spaced seats, receiving the fingers adjustably, to vary the length of the band, and lids having their ends hingedly connected to the body, the lids having depending skirts, which combine to enclose the body, the end portions of the skirts having notches registering with those of the body, one lid exposing the fingers and the other lid exposing the cross piece, when the respective lids are opened.

2,313,074
PIPE JOINT AND COLLAR THEREFOR
Howard W. Jewell, Los Angeles, Calif.
Application July 31, 1940, Serial No. 348,640
16 Claims. (Cl. 285—114)

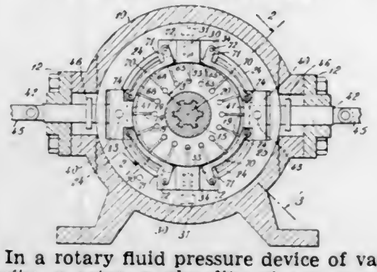
1. In a pipe joint collar, the combination of: a cylindrical body adapted to receive the end of a pipe; a flexible annular flange member carried within and attached to said body, the inwardly extending edge portion of said flange member being free to conform to and encircle the surface

of a pipe inserted into said cylindrical body, and a layer of thermoplastic material on the inner



surface of said body, said thermoplastic material being compatible with sealing material used in sealing the joint between said body and a pipe.

2,313,075
FLUID PRESSURE DEVICE
Charles M. Kendrick and Ivan A. Kazine, New York, N. Y., assignors to Manly Corporation, New York, N. Y., a corporation of Delaware
Application March 23, 1939, Serial No. 263,649
27 Claims. (Cl. 103—120)

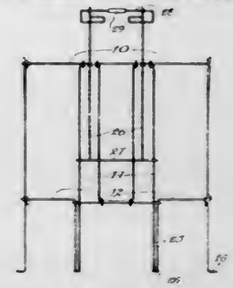


1. In a rotary fluid pressure device of variable capacity, a rotor, a plurality of vanes movable inwardly and outwardly of the rotor, and a trackway for the vanes comprising a stationary track element, a track element movable to vary simultaneously the capacity of the device and the length of the trackway, and a link member pivoted nearer one of said track elements than the other and having an extensible connection with the other of said track elements, the entire vane-contacting surface of said link being of fixed curvature.

2,313,076
COLOR CONCENTRATE
Gustave Klinkenstein, Maplewood, Frederic Dannerth, East Orange, and Conrad Frey, Nutley, N. J., assignors to Maas & Waldstein Company, Newark, N. J., a corporation of New Jersey
No Drawing. Application December 3, 1938, Serial No. 243,768
2 Claims. (Cl. 8—3)

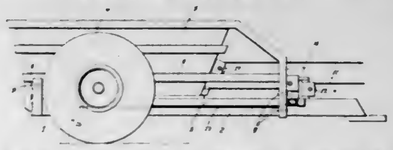
1. In coloring a cellulose derivative selected from the group consisting of water-insoluble esters and ethers of cellulose, the method which comprises suspending the cellulose derivative in the form of permeable particles in water, treating the suspended particles with a water-soluble leuco color base in alkali solution, so that the color base is adsorbed upon and within the particles, and then adding a developing agent including an acid that is soluble in water which neutralizes the alkali and that converts the adsorbed color base to insoluble material of desired color upon and within the particles of cellulose derivative as the acid developing agent penetrates the said cellulosic particles.

2,313,077
BAG HOLDER
Charles Larson, Chicago, Ill.
Application July 21, 1941, Serial No. 403,446
7 Claims. (Cl. 248—101)



7. A bag holder comprising a stand adapted to receive a bag within it, means to clamp the top of the bag in open position, and other means to adjust the height of the bag to different positions relative to the stand, said second means comprising brackets alongside the stand and formed with slidable pivots at their bottoms relative to the stand, and a vertical series of hook-shaped undulations formed in the brackets and selectively applicable when the brackets are raised and swung outwardly on their pivots to permit the brackets to be adjusted to any desired height and have their corresponding undulations engage the stand to lock the brackets at such height.

2,313,078
DUMP WAGON
Robert Gilmore Le Tourneau, Peoria, Ill., assignor to R. G. Le Tourneau, Inc., a corporation of California
Application August 1, 1941, Serial No. 405,037
9 Claims. (Cl. 298—27)

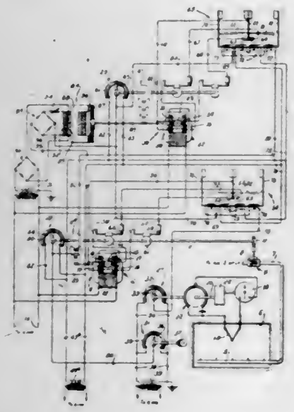


1. In a dump wagon which includes a bed frame having a floor thereon and a bottomless body mounted on the frame over the floor for longitudinal movement relative thereto; a pull cable extending forwardly from the frame, another cable having laterally separated ends, elements rigid with the body on which said cable ends are anchored, and cooperating connections between the cables arranged to cause a pull on the first named cable in a forward direction to impart simultaneous rearward movement to the ends of the other cable.

2,313,079
CONDITION CONTROL
Edgar D. Lilja, Rockford, Ill., assignor to Barber-Colman Company, Rockford, Ill., a corporation of Illinois
Application June 28, 1940, Serial No. 342,954
20 Claims. (Cl. 236—78)

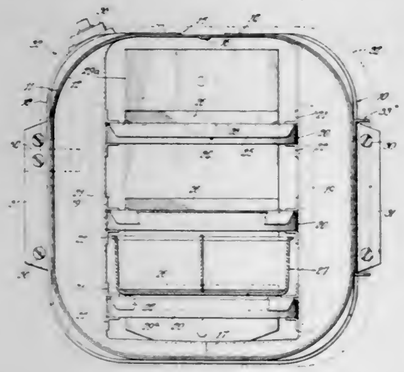
17. A control system having, in combination, a reversible electric motor operator having a driven member, means for detecting deviations of a controlled condition from a desired value,

mechanism controlled by said means and controlling said operator to actuate said member first with a primary movement proportional and in a direction corresponding to the condition deviations and then with a slower secondary resetting movement, said mechanism including a



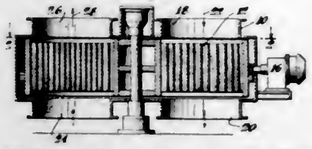
second operator driven by reversible electric motor driving means adapted when energized to exert a constant torque for causing said secondary movement, and automatically controlled means operating to vary the speed of said driving means while maintaining said motor torque constant.

2,313,080
BRINE TANK
John Lithgow and Leslie K. Jackson, Cleveland, Ohio, assignors to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application August 15, 1939, Serial No. 290,316
16 Claims. (Cl. 62—95)



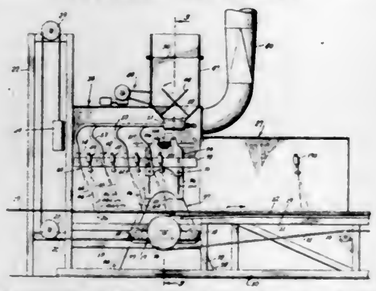
1. In a refrigeration unit, a brine tank, means to support the brine tank including an ice tray support, and a refrigeration conduit supporting the ice tray support, and relatively thin means extending from and carried by the brine tank and cooperating with said conduit and support to maintain the brine tank in firm heat exchange relation with said conduit and said support.

2,313,081
HEAT EXCHANGE
Fredrik Ljungström, Brevik, Lidingo, Sweden, assignor, by mesne assignments, to Jarvis C. Marble, Leslie M. Merrill, and Percy H. Batten, trustees
Application February 1, 1938, Serial No. 188,027
In Sweden February 2, 1937
1 Claim. (Cl. 257—6)



Heat exchange apparatus including plate structure providing the walls of a multiplicity of passages for flow of fluid media therethrough, said plate structure being shaped and arranged to provide parallel passages immediately adjacent to each other and separated only by a common wall plate therebetween, said passages being of uniform cross-sectional area from end to end thereof and being curved to provide a path of flow which is generally sinuously curved with respect to each of two intersecting planes approximately at right angles to each other and in which the curvature in one plane is out of phase with the curvature in the other plane.

2,313,082
PROCESS FOR MAKING COHERENT MATERIALS
James A. MacDonald, Glendale, Calif., assignor to John U. Birnie, Los Angeles, Calif.
Application May 16, 1941, Serial No. 393,793
8 Claims. (Cl. 117—27)

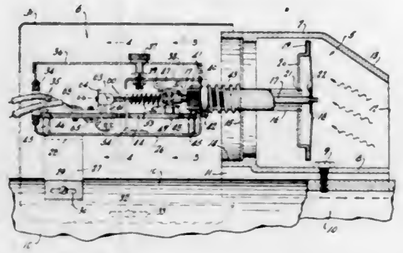


5. A process of the character described, including providing a sheet of material and placing the same in motion in a continuous direction, simultaneously spraying towards said material a divergent stream of a mass of granulated cork and a divergent stream of liquid latex, said streams being angled in the direction of motion of said sheet and converging for intersection adjacent the surface of said material to effect uniform comingling of said granules and latex prior to their deposition on said surface, vulcanizing the latex, and then compacting the mass deposited on said sheet to a desired thickness.

2,313,083
SWITCHING MECHANISM
Homer E. Malone, Milwaukee, Wis., assignor to Perfex Corporation, Milwaukee, Wis., a corporation of Wisconsin
Application October 30, 1940, Serial No. 363,431
14 Claims. (Cl. 200—137)

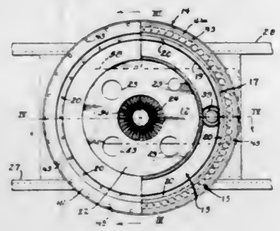
1. In a switching mechanism, in combination,

a condition responsive element, a supporting base, a lever arm on said base actuated to one position by said condition responsive element, spring means on said base for restoring said lever arm after having been actuated, a friction blade pivoted to said base independently of said lever



arm and having a limited movement on said base, slip friction means connecting said friction blade and said lever arm, and control means on the base operated by the movement of said friction blade.

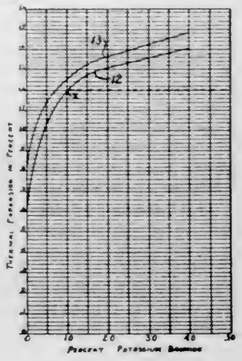
2,313,084
TURNTABLE AND MOUNTING THEREFOR
Fred G. Manly, Chicago, Ill.
Application January 16, 1941, Serial No. 374,606
7 Claims. (Cl. 212—68)



1. A turntable construction comprising a rotatable member having a raceway in the outer periphery thereof, a stationary supporting member of U-shaped section surrounding the peripheral marginal edges of said rotatable member in concentric spaced relation thereto and having a raceway in the inner periphery thereof adapted to register with the raceway in the rotatable member, anti-friction bearing elements in said raceways for maintaining the members in said spaced relation, and means between the marginal edges of said rotatable member and the adjacent portions of the U-shaped section of the stationary member for sealing the space between the members.

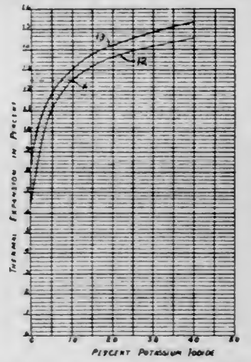
2,313,085
INVESTMENT COMPOSITION
Robert Neiman, Robert C. Ernst and Edmund A. Steinbock, Louisville, Ky.; said Neiman and said Ernst assignors to University of Louisville, Louisville, Ky., a corporation of Kentucky
Application September 5, 1939, Serial No. 293,448
12 Claims. (Cl. 22—188)

1. An investment composition for casting metals and their alloys, consisting principally of a refractory filler and a binder, in such proportions as to give an investment composition, and containing a soluble inorganic bromide, with such bromide being present in a quantity sufficient to



improve the expansion property of the composition, but not in excess of 3%.

2,313,086
INVESTMENT COMPOSITION
Robert Neiman, Robert C. Ernst, and Edmund A. Steinbock, Louisville, Ky.; said Neiman and said Ernst assignors to University of Louisville, Louisville, Ky., a corporation of Kentucky
Application September 5, 1939, Serial No. 293,449
12 Claims. (Cl. 22—188)

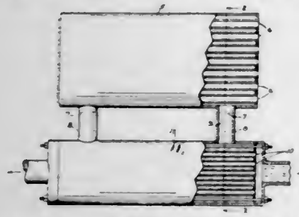


1. An investment composition for casting metals and their alloys, consisting principally of a refractory filler and a binder in such proportions as to give an investment composition and containing a soluble inorganic iodide, with such iodide being present in a quantity sufficient to improve the expansion properties of the composition, but not in excess of 4.5%.

2,313,087
LIQUID COOLING DEVICE
Warren S. Parr, United States Navy, and Melville F. Peters, Beltsville, Md.
Application September 11, 1940, Serial No. 356,328
8 Claims. (Cl. 257—1)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

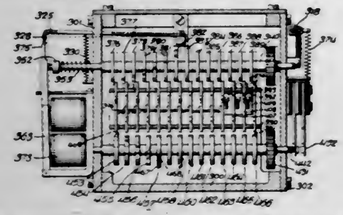
7. Means for cooling a fluid comprising a container, a cooling liquid partially filling said container, a quantity of gas in said container, the quantity of said gas being so selected as to exert a pressure on said liquid equal to the vapor pressure of said liquid when said liquid is subjected

to a predetermined temperature, means for passing said fluid into heat transferring relationship



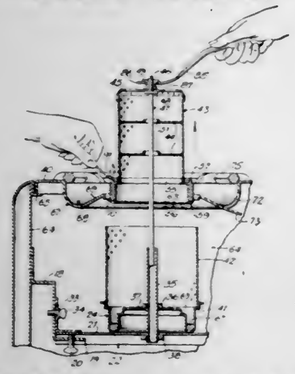
to said liquid, and means for cooling the vapors of said liquid.

2,313,088
METER RECORDING SYSTEM
Louis M. Potts, Evanston, Ill.
Application January 7, 1938, Serial No. 183,861
33 Claims. (Cl. 234—58)



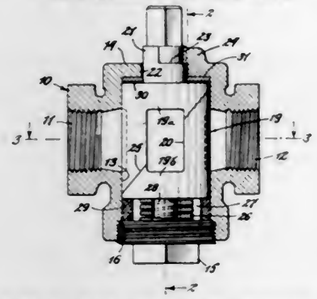
5. In a storage apparatus, a plurality of groups of storage elements, each group corresponding to the numerical digits 0 to 9, a plurality of magnets each corresponding to one of said elements in a group but common to corresponding digits in all the groups, means to energize the magnets in succession according to a multi-digit number to be recorded, means to condition an element in each group successively according to the sequence of the magnets operated, and locking means to hold the conditioned elements in operated position after the corresponding conditioning magnet has been deenergized.

2,313,089
OIL RANGE
Herbert M. Reeves, Kankakee, Ill., assignor to Florence Stove Company, Gardner, Mass., a corporation of Massachusetts
Application September 6, 1938, Serial No. 228,551
13 Claims. (Cl. 126—45)



1. A liquid fuel stove comprising a support, a burner bowl mounted on said support, means supplying said bowl with liquid fuel, a sleeve extending axially through said bowl, an inner combustion tube adapted to seat on said bowl and provided with a centering disc having a central hole for guidingly receiving said sleeve, a rod connected to said tube and extending downward in said sleeve, a lighting ring carrier connected to said tube and adapted to project into said bowl when said tube is seated on said bowl and having an opening to admit fuel from said bowl, a lighting ring in said carrier and adapted to be immersed in the fuel, said stove affording a top opening through which said tube and associated carrier may be raised to render said ring accessible for ignition by a match or other suitable flame, and means for facilitating the raising and lowering of said tube, said rod being telescoped with said sleeve when said ring is in igniting position so as to maintain said tube in substantially coaxial relation to said bowl.

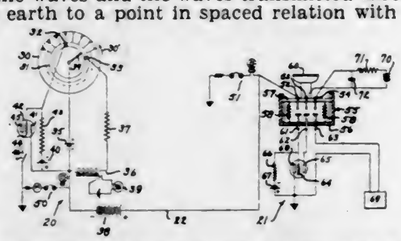
2,313,090
PLUG VALVE
Alfred A. Reiser, Buffalo, N. Y.
Application September 29, 1939, Serial No. 297,149
12 Claims. (Cl. 251—93)



1. A straightway plug valve, comprising a valve body having inlet and outlet ports leading to a cylindrical bore extending inwardly from one end thereof, a removable end head enclosing said one end of said bore, a cylindrical valve plug of shorter length than said bore and fitted in said bore and having a through port cooperating with said inlet and outlet ports, said valve plug being divided into two parts on a plane extending at an angle to the major axis of the valve plug and parallel with the axis of its through port, a valve stem connected to one of said valve plug parts for turning said valve plug, an axial stem on the other of said valve plug parts and extending toward said removable end head and a coaxial helical compression spring held in centered relation by said axial stem and interposed between said removable end head and said other valve plug part to urge said other valve plug part into planar engagement with said one valve plug part and also to form an oil reservoir chamber between said other valve plug part and said removable end head and a washer of absorbent material in said chamber surrounding said spring and held under compression against said bore to supply lubricant to the contacting faces of said valve plug and bore.

2,313,091
SEISMIC RECORDING
Darwin S. Renner, Dallas, Tex., assignor to Geophysical Service Incorporated, a corporation of Delaware
Application December 26, 1939, Serial No. 310,978
8 Claims. (Cl. 181—0.5)

1. In the art of seismic prospecting the method comprising the steps of, creating elastic waves in the earth, recording the instant of creation of the waves and the waves transmitted through the earth to a point in spaced relation with the



wave source, and simultaneously recording a numerical chart of time of the seismic event such chart having a predetermined relation with a definite phase of the event.

2,313,092
METHOD FOR DECOMPOSING ORGANIC MATERIALS
Francis Owen Rice, Baltimore, Md., assignor, by mesne assignments, to Process Management Company, Inc., Wilmington, Del., a corporation of Delaware
No Drawing. Application July 28, 1938, Serial No. 221,717
10 Claims. (Cl. 196—50)

6. A process for the conversion of hydrocarbons higher boiling than gasoline to hydrocarbons boiling within the gasoline range which comprises admixing said higher boiling hydrocarbons with an alkylene oxide in proportions such that the resulting mixture contains only a minor amount of alkylene oxide and maintaining the mixture at a relatively low reaction temperature such that at said temperature a small degree of conversion would take place in the absence of the alkylene oxide but substantial conversion of said hydrocarbons is effected by reason of the presence of said alkylene oxide in the mixture.

2,313,093
DIELECTRIC FOR ELECTROSTATIC CONDENSERS
Samuel Ruben, New Rochelle, N. Y.
No Drawing. Application February 11, 1939, Serial No. 255,819
1 Claim. (Cl. 260—80)

In an electric condenser, a solid dielectric comprising mixed solid and liquid polymers of dihydronaphthalene.

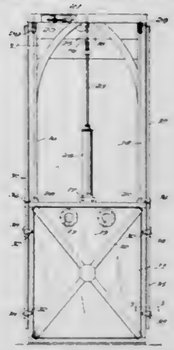
2,313,094
ELECTROSTATIC CONDENSER
Samuel Ruben, New Rochelle, N. Y.
Application July 22, 1939, Serial No. 285,891
5 Claims. (Cl. 175—41)



1. An electrostatic condenser comprising cooperating electrodes and a dielectric layer therebetween and adhering thereto, said layer comprising the product of a thermoplastic, thermoadhesive, liquefiable, hydrogenated hydrocarbon polymer resin and solid chlorinated naphthalene as a plasticizer therefor, said resin being thermoplastic, thermoadhesive and heat liquefiable.

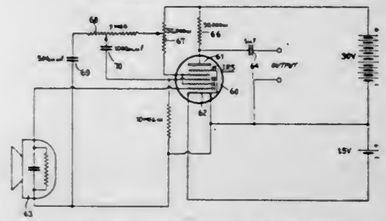
5. A dielectric spacer element for an electrostatic condenser comprising a sheet of porous dielectric material and a dielectric resin composition impregnating said sheet, said composition being composed of the solid tetramer of di-hydronaphthalene and 20 to 50% solid chlorinated naphthalene as a plasticizer therefor, said resin being thermoadhesive and heat liquefiable.

2,313,095
DOOR CONTROL MECHANISM
Raymond U. Schneider, Chicago, Ill., assignor to The Guardite Corporation, a corporation of Illinois
Application May 31, 1940, Serial No. 338,210
8 Claims. (Cl. 268—58)



1. In combination with a door adapted to be moved vertically between open and closed positions, and horizontally between sealed and unsealed positions, control means, including: a pneumatic device adapted to open or close the door; a pneumatic device adapted to seal or unseal the door; a manually controlled valve for actuating said door opening and closing device, said valve when in door opening position adapted to actuate the door sealing device to move the door to unsealed position; and an automatic valve for operating said door sealing and unsealing device, said automatic valve adapted to be moved to door sealing position by the door when in its lowermost position.

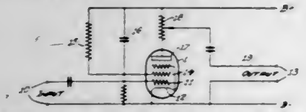
2,313,096
REPRODUCTION OF SOUND FREQUENCIES
Francis H. Shepard, Jr., Merchantville, N. J.
Application April 17, 1940, Serial No. 330,056
21 Claims. (Cl. 250—20)



1. A system for conveying waves representing sound frequency vibrations to a responsive indicator in sound compensatory distorted form,

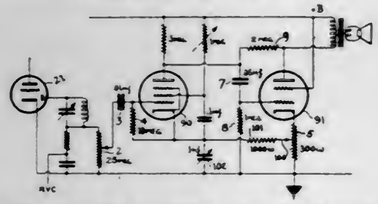
comprising a means for transferring said waves and means for distorting the amplitude of said waves in said transferring means to give them an instantaneous output amplitude equal to an effective power function of the wave level at the input, said distorting means being adjusted to give a distortion approximating that imparted by the normal human ear.

2,313,097
SYSTEM FOR COMPENSATING ANODE SUPPLY POTENTIAL VARIATIONS
Francis H. Shepard, Jr., Merchantville, N. J.
Application October 5, 1940, Serial No. 359,856
9 Claims. (Cl. 179—171)



1. Means for neutralizing the effect of anode supply potential variations in a vacuum tube amplifier stage having anode, cathode, and grid electrodes, wherein anode supply variations normally produce distortion in the output of said amplifier, characterized by means for introducing substantially all anode supply variation potentials on said grid whereby amplified variation potentials of opposite phase from those normally producing said distortion are applied to the anode of said tube to substantially neutralize the distortion which would normally be produced.

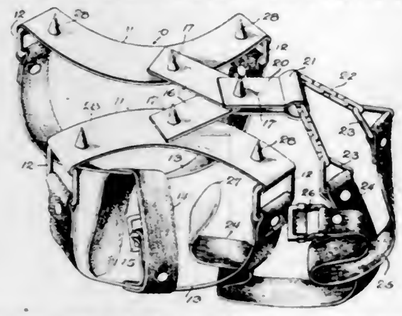
2,313,098
METHOD AND MEANS FOR REPRODUCTION OF SOUND FREQUENCY VIBRATIONS
Francis H. Shepard, Jr., Merchantville, N. J.
Application April 28, 1942, Serial No. 440,786
12 Claims. (Cl. 179—171)



12. In an audio amplifier circuit, a symmetrically distorting amplifier, a network which discriminates against waves of low frequency coupled to said amplifier, a feedback network which discriminates against waves of high frequency coupled to said amplifier, said networks having least discrimination against waves of a low audio frequency, whereby said audio amplifier circuit will simultaneously amplify a high frequency wave only slightly more in proportion if of a low signal level than if of a high signal level, will enormously amplify a low frequency wave of low signal level, will amplify a low frequency wave of high signal level no more than a high frequency wave, and low frequency waves will be sufficiently distorted to produce odd harmonics.

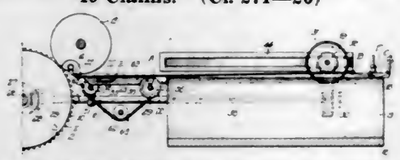
2,313,099
ICE CREEPER
Harvey N. Smith, Washington, D. C.
Application August 19, 1942, Serial No. 455,291
3 Claims. (Cl. 36—62)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. An ice creeper of the class described, comprising a plurality of curved spike carrying members, the medial point of said curved members being pivotally connected by means of a plurality of plates, the end portions of said plates being pivotally connected by a pivot and a spring plate



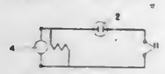
member, means attached to said curved member for adapting said ice creeper to conform to the sole of the boot or shoe, and a chain connected to said spring plate member adapted to be connected to means for retaining said ice creeper in a fixed position on said boot or shoe sole.

2,313,100
SHEET FEEDING MECHANISM
Burt D. Stevens, Barrington, Ill., assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application August 26, 1940, Serial No. 354,159
49 Claims. (Cl. 271—26)



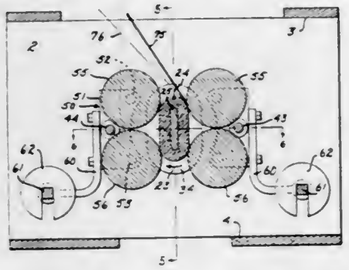
1. In a sheet feeder for conveying sheets to a sheet handling machine, a pile support, means for separating sheets, conveying means arranged to engage separated sheets and feed them forward, sheet registering mechanism, and means cooperating with said conveying means to tauten a sheet in order to thereby provide a support for a preceding sheet that is in the course of being registered.

2,313,101
BLASTING MACHINE
Joseph Stuart, II, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
Application January 10, 1940, Serial No. 313,264
7 Claims. (Cl. 171—76)



1. In a blasting machine the combination of a manually operable dynamo, contact terminals adapted to receive a plurality of blasting caps in electrical contact therewith, conductor elements forming a fixed circuit between said dynamo and said terminals whereby energy from said dynamo may be conducted instantaneously from said dynamo directly to said terminals, and a voltage control tube in said circuit adapted to permit the flow of said energy under a predetermined electrical potential.

2,313,102
HIGH DENSITY PRESS
Samuel Y. Taylor, Houston, Tex., assignor of fifty per cent to F. J. Herbelin, Galveston, Tex.
Application April 24, 1939, Serial No. 269,554
3 Claims. (Cl. 100—1)



1. A bale press for compressing a bat of fibrous material delivered thereto, said press comprising a frame, opposed driving heads in said frame, means for driving said heads, a core, drive members releasably secured in each of the heads and engaging an end of the core, a retaining end plate on and rotatable with each of said members, idling pressure rollers extending longitudinally of the core member and entering between the end plates to engage and compress the bat spirally wound on the core, said rollers being arranged in pairs, a mounting for each of said pairs, each of said mountings being rockably mounted about a shiftable axis parallel to and spaced from the core so that the rollers of each pair follow the contour of the forming roll and apply equal pressures over spaced areas which extend axially and peripherally of the roll, and means urging each of said pairs of rolls into engagement with the material on the core.

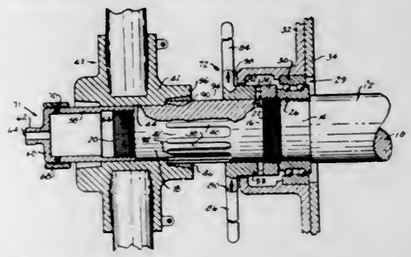
2,313,103
ALKYLATION OF PARAFFIN HYDROCARBONS
Charles L. Thomas, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application March 25, 1939, Serial No. 264,117
8 Claims. (Cl. 196—10)

1. A process for synthesizing hydrocarbons which comprises alkylating an isoparaffin with an olefin in the presence of fluorosulfonic acid.

2,313,104
PLIED YARN AND CORDS AND PROCESS OF PRODUCING THE SAME
Roger N. Wallach, Briarcliff Manor, N. Y., assignor to Sylvania Industrial Corporation, Fredericksburg, Va., a corporation of Virginia
No Drawing. Application August 18, 1941, Serial No. 407,359
10 Claims. (Cl. 57—140)

1. In a process for producing a multiply cord, the steps comprising twisting together two or more yarns at least one of which is a singles yarn formed from a mixture of a major proportion of textile fibers and a minor proportion of potentially adhesive fibers, and compacting said plied yarn while the potentially adhesive fibres are in an adhesive condition to produce a flexible plied yarn which is more heat resistant and smaller in gauge than the yarn before said activating and compacting treatments.

2,313,105
APPARATUS FOR TIGHTENING AIRPLANE PROPELLER SHAFT THRUST BEARING NUTS
Herbert L. Walls, Salt Lake City, Utah
Application July 25, 1941, Serial No. 404,029
4 Claims. (Cl. 29—84)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. Apparatus for use in the operation of inspecting and tightening airplane propeller thrust bearings, wherein the propeller shaft has threads provided with a nut near the back end for clamping said thrust bearing, has threads provided with a nut at the front end for holding said propeller against forward movement and has external splines on said shaft intermediate said threads for driving said propeller, and wherein said propeller has internal splines fitting between said external splines, said apparatus comprising, in combination, an internally threaded cylindrical adapter for screwing over the said front end thread when the nut is removed therefrom, said cylindrical adapter having an outside diameter enough smaller than the inside diameter of said propeller splines that said propeller may be slid axially upon said adapter, and a collar so constructed and located on the outside of said adapter that when it arrests forward axial movement of said propeller the back ends of said propeller splines will have slightly passed the front ends of the shaft splines, whereby the propeller may be rotated to misalign the two sets of splines to prevent the propeller moving rearwardly, during an inspecting and tightening operation.

2,313,106
SLIDING DOOR STRUCTURE
Axel Wasberg, Chicago, Ill., assignor to Chicago Railway Equipment Company, Chicago, Ill., a corporation of Illinois
Application June 28, 1941, Serial No. 400,234
14 Claims. (Cl. 20—26)

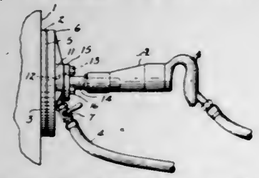


1. In combination, a car sliding door having a body panel and an auxiliary post with an exterior face secured to one of the upright marginal portions of said panel, said post having elements forming a pocket positioned inwardly of the car from the exterior face of the post and having a closed inner end and an open end facing towards the exterior of the door opening, and another door having an upright marginal portion movable into cooperative relation with said post to close the door opening and provided with a member overlying said pocket open end when the doors are in closed position.

2,313,107
COMPOSITION FOR DENSIFYING POROUS MASSES AND STRUCTURES
Louis S. Wertz, Shaker Heights, Ohio
No Drawing. Application June 20, 1939, Serial No. 280,141
11 Claims. (Cl. 106—91)

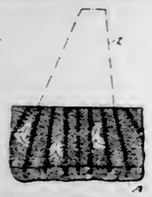
1. A slurry for filling the fine voids and interstices of porous masses of earth, rock masonry, concrete and the like, comprising Portland cement and a filler having sufficient acidic colloidal silica to retard the gelling of the cement, a relatively small amount of a lubricating and plasticizing agent, and a relatively small amount of a protective colloid, said slurry being relatively fluid and stable, whereby it may be forced through voids and interstices of a masonry or concrete structure.

2,313,108
METHOD FOR TREATING SURFACES
Louis S. Wertz, Cleveland, Ohio
Application December 18, 1939, Serial No. 309,799
6 Claims. (Cl. 72—127)



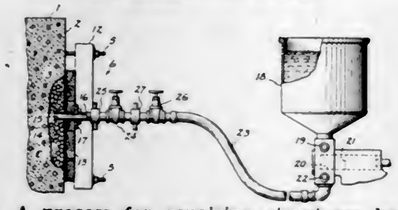
1. The method of weatherproofing concrete and other structures, which comprises presenting a member having a depressible contact face to a surface of such structure, feeding a highly flowable and pumpable weatherproofing material through a central portion of said face to the surface of the structure, imparting a multiplicity of forcible impacts to the member substantially normal to said surface to cause penetration of the material into the pores of the structure, and continuing said impacting and feeding until the surface and adjacent regions are rendered substantially impervious, said material having solid particles in suspension and being pumpable through hose lines and fine passageways without separation of the solids.

2,313,109
PROCESS OF TREATING POROUS MASSES
Louis S. Wertz, Cleveland, Ohio
Application December 18, 1939, Serial No. 309,800
7 Claims. (Cl. 61—36)



1. The process of solidifying and densifying masses of earth, rock, concrete, and the like, which masses have a relatively low structural strength, which comprises forming a hole in said mass to a relatively short depth, anchoring a nozzle in said hole, forcing repair material through the nozzle and into the region surrounding said hole at a relatively low pressure to fill the natural voids in communication with said hole, allowing said repair material to set, forming said hole to a further depth, anchoring the nozzle in said hole, forcing repair material through the nozzle and into the region surrounding said hole at an increased pressure to cause permeation through a greater region of the mass being solidified, and repeating said operations of forming the hole, anchoring the nozzle, and forcing repair material at successive depth levels of said mass while progressively increasing the pressure at which repair material is introduced.

2,313,110
PROCESS FOR FILLING CAVITIES
Louis S. Wertz, Cleveland, Ohio
Application February 28, 1940, Serial No. 321,222
13 Claims. (Cl. 72—106)



1. A process for repairing structures having disintegrated portions in communication with the surface, which comprises removing material from the structure to form a recess having solid walls in the surface of the structure, securing a form over the recess, substantially filling the cavity thus formed with loose aggregate, and forcing readily flowable, hardenable repair material under pressure into the cavity to fill voids between pieces of aggregate and voids of the structure adjacent to or communicating with the cavity.

2,313,111
VENETIAN BLIND SLAT AND METHOD OF AND APPARATUS FOR FORMING THE SAME
Allen B. Wilson, Evanston, Ill., assignor to Acme Steel Company, Chicago, Ill., a corporation of Illinois
Application July 26, 1940, Serial No. 347,592
8 Claims. (Cl. 153—54)

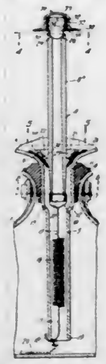


1. A Venetian blind slat comprising a strip of thin flexible resilient steel having its central portion stretched longitudinally with the portions on opposite sides of its longitudinal center line being subsequently stretched longitudinally and bent in oppositely directed curves to provide an S-shaped cross section, the portions on opposite sides of said center line being stretched longitudinally in sufficient amounts to maintain the slats straight with parallel edges.

2,313,112
BEVERAGE MAKING DEVICE
Frank E. Wolcott, West Hartford, Conn., assignor to The Silex Company, a corporation of Connecticut
Application December 12, 1939, Serial No. 308,841
11 Claims. (Cl. 53—3)

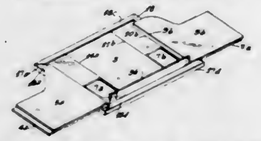
1. For a vacuum type beverage brewer comprising an upper and a lower bowl having a seal therebetween and a stem in the upper bowl extending through said seal into the lower bowl, a

combined strainer and spraying device including a spray tube adapted to be positioned in said upper bowl and to extend into said stem, valve controlled spray means at the upper end of said tube, a strainer disc, and substantially closed



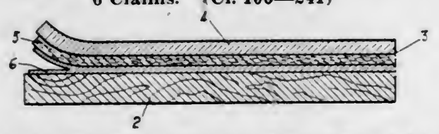
means on said tube adapted to press said disc against said mouth around the latter, said means having elongated recesses in the surface thereof and extending angularly in two directions and open only in the direction of said disc for permitting a limited flow between said bowls.

2,313,113
DRAWER
Philip Zalkind, New York, N. Y.
Original application October 19, 1935, Serial No. 45,711. Divided and this application November 17, 1938, Serial No. 240,901
3 Claims. (Cl. 229—49)



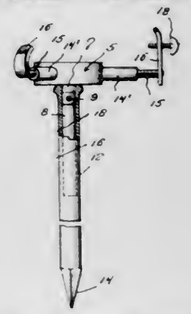
1. A wall member of substantially fibrous material, comprising a central wall portion and laterally extending hingedly connected wall portions; a metallic facing member for said central portion; a metallic extension integral with said metallic facing member, and extending beyond a free edge of said central portion; said laterally extending wall portions being adapted to connect said wall member to a pair of corresponding walls of a container.

2,313,114
ADHESIVE
Benjamin F. Adams, Lancaster, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania
Original application November 8, 1937, Serial No. 173,407, now Patent No. 2,274,916, dated March 3, 1942. Divided and this application June 11, 1938, Serial No. 213,232
6 Claims. (Cl. 106—241)



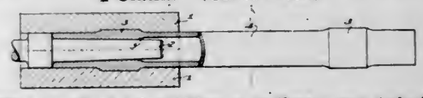
1. An adhesive composition for bonding a hard surface covering including a stratum of partible fibrous material to a base so that the same may be removed therefrom by rupture of said adhesive without rupturing of the partible fibrous material comprising a mixture of a solution of resin and a filler in such relative proportions that the composition when dried and solidified is rupturable within the range of from 6 to 30 pounds as determined by the "Scott test."

2,313,115
ADJUSTABLE SUPPORT
George E. Allen, Lawrence A. Metz, and Francis C. Sharpe, Buffalo, N. Y.
Application August 29, 1941, Serial No. 408,900
1 Claim. (Cl. 248—310)



In combination with a vertically arranged supporting post having one end pointed for insertion in the ground and provided with a socket in its upper end portion, a circular base block normally arranged horizontally above the upper end of the post to have a base of a lantern resting thereon, a plurality of clamping arms threaded in the periphery of the base block and coacting with each other in gripping the base of the lantern and each including telescopic sections with one section threading into the other section whereby the arms may be lengthened and shortened for accommodating lantern bases of different sizes, a stem secured to the base block centrally thereof and normally extending into the socket of the post, said stem including sections and a pivot connecting the latter-named sections and lying in the socket of the post to prevent said sections of the stem from pivoting relative to each other until the stem is removed from the post whereby one of said sections of the stem may be pivoted to parallel the under face of the base block to permit the latter to be rested on a horizontal support while the lantern attached thereto is refueled and cleaned.

2,313,116
METHOD OF MAKING TUBULAR AXLES
Donald E. Babcock, Pittsburgh, Pa., assignor to Pittsburgh Steel Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application September 12, 1940, Serial No. 356,416
1 Claim. (Cl. 29—165)



The method of making a railway car tubular axle, comprising heating substantially uniformly the bearing and wheel seat forming portions only of a thin walled tube of uniform size, the central portion of the tube remaining cool and being connected to the heated wheel seat portions by short portions increasing in temperature axially

outwardly, upsetting axially on a tapered mandrel the heated portions only to increase their wall thickness, holding the outer diameter of only said central and bearing portions substantially constant during the upsetting whereby the inner surfaces of said end portions are contracted and joined to the inner surface of said central portion by diverging surfaces and whereby raised wheel seats are formed which are connected by a central tubular portion of uniform size, and controlling the outer and inner diameters of said wheel seats during said upsetting so that their mean diameter is greater than the mean diameter of said central portion.

2,313,117

CHEMICAL PRODUCT AND PROCESS OF PRODUCING SAME

Arman E. Becker, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application August 12, 1939, Serial No. 289,785
2 Claims. (Cl. 196—50)

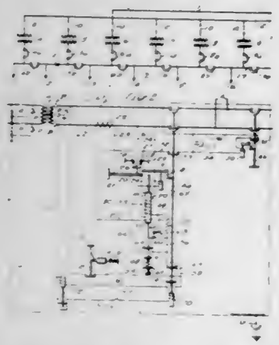
1. The method of improving the road octane rating of a given body of gasoline which comprises separating from said body fractions boiling between about 192° F. and 325° F., catalytically reforming said fractions by the aid of heat and pressure and then blending said fractions with the untreated fractions of said body.

2,313,118

ELECTRICAL PROTECTIVE DISTRIBUTION SYSTEM

Royal C. Bergvall, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application August 9, 1941, Serial No. 406,136
17 Claims. (Cl. 175—294)



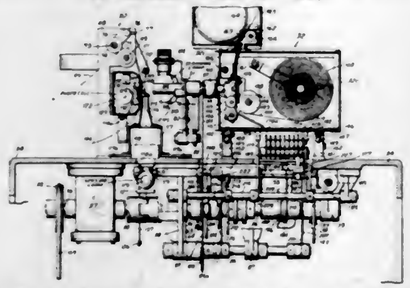
1. In an electrical distribution system, a distribution circuit, a plurality of energizing sources for said distribution circuit, said energizing sources being connected to said distribution circuit at spaced points, means responsive to an abnormal condition of a quantity supplied by one of said energizing sources for segregating said distribution circuit between said one energizing source and other of said energizing sources, and means effective only after said segregation of said distribution circuit and responsive to said abnormal condition for disconnecting said one of said energizing sources from said distribution circuit.

2,313,119

LINE JUSTIFYING DEVICE

Samuel Brand, Binghamton, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application September 30, 1941, Serial No. 412,946
31 Claims. (Cl. 95—4.5)



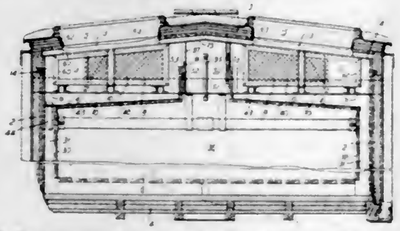
1. In a device of the character described, a copy bearing non-justified lines, means to support a light sensitive material, means to scan said copy and project the image of the line thereof upon said material, means to produce a relative movement between said support means and said copy and comprising a plurality of cam surfaces, and means to select any one cam surface in accordance with the amount of justification required.

2,313,120

REFRIGERATOR CAR

Charles D. Bonsall, Chicago, Ill., assignor to Standard Railway Devices Company, Chicago, Ill., a corporation of Delaware

Application December 11, 1941, Serial No. 422,498
14 Claims. (Cl. 62—17)



1. In combination with the walls, roof and floor of a refrigerator car, a hatch in said roof, a refrigerant container below said hatch and a substantially vertical partition in said container below said hatch, whereby wet ice and dry ice may be loaded through said hatch into said container, the dry ice on one side and the wet ice on the other side of said partition, means to direct a flow of circulating air adjacent the bottom of said container, and means, interposed between said air and said dry ice, to collect liquid by meltage of said wet ice.

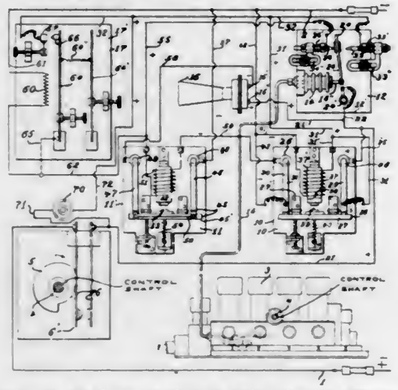
2,313,121

PROTECTIVE DEVICE FOR OIL LUBRICATING SYSTEMS

Hector H. Brown, Baltimore County, Md.

Application January 26, 1942, Serial No. 428,263
13 Claims. (Cl. 177—311)

1. A protective circuit for the oil pressure lubricating system of a machine comprising a high-low pressure switch, a delay relay having connections whereby its switch is closed when said high-low pressure switch is closed at its high pressure contact, means thereafter holding the delay relay closed when the circuit is broken at the high pressure contact, a second relay having its coil connected for energization through the delay relay switch and the low pressure contact of the high-low pressure switch whereby the



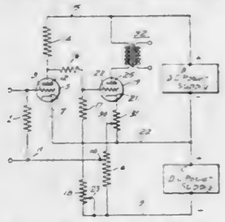
switch of said second relay is closed when the circuit is closed through said low pressure contact after the circuit through the high pressure contact has been closed and opened at said control, and a protective unit adapted to be electrically operated and having connections whereby it is energized when said second relay is closed.

2,313,122

AMPLIFIER

Wilson M. Brubaker, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application May 31, 1940, Serial No. 338,111
1 Claim. (Cl. 179—171)



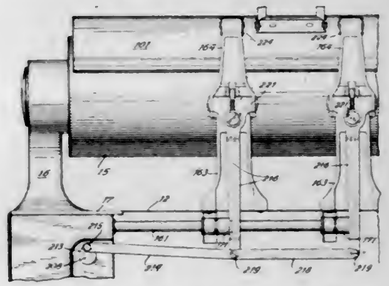
An amplifier comprising a first tube containing an anode, a cathode and a control electrode, a voltage source having one of its terminals connected to said anode through a first impedance, a connection between the cathode of said first tube and an intermediate voltage-point on said voltage source, an impedance shunted between the anode of said first tube and the opposite terminal of said voltage source, a second tube comprising an anode, a cathode and a control electrode, a connection between the last-mentioned control electrode and an intermediate point on the last-mentioned impedance, a load connected between the anode of said second tube and the first-mentioned terminal of said voltage source, an impedance connected between the cathode of said second tube and the first-mentioned intermediate voltage-point, an impedance connected between an intermediate point of the last-mentioned impedance and said other terminal of said voltage source, and a connection between an intermediate point of the last-mentioned impedance and the control electrode of said first tube.

2,313,123

IRONING MACHINE CONTROL

John A. Castricone, Peoria, Ill., assignor to Altorfer Bros. Company, Peoria, Ill., a corporation of Illinois

Application September 8, 1939, Serial No. 293,987
5 Claims. (Cl. 38—47)



4. An ironing machine including an ironing roll, a heated ironing shoe, power operated engaging means adapted to move said ironing roll and heated ironing shoe into cooperating pressing engagement with each other, power-operated roll-driving means for imparting rotary movement to said ironing roll, automatic control mechanisms including a clutch responsive to knee-control actuation by the operator adapted to simultaneously operate said engaging means and said roll driving means, power-operated shoe reciprocating means including a motor, a reduction gear train, and a clutch and an eccentric for imparting relative reciprocating movement in a direction longitudinal of the axis of said roll between said ironing roll and shoe, roll drive interrupting means including a foot pedal operable independently of aforesaid automatic control mechanisms, and means responsive to the operation of said roll drive interrupting means for causing said shoe-reciprocating means to operate.

2,313,124

HIGHLY RESISTANT HECTOGRAPH BLANKET

William J. Champion, Chicago, Ill., assignor to Ditto, Incorporated, Chicago, Ill., a corporation of West Virginia

No Drawing. Application August 19, 1941, Serial No. 407,441
5 Claims. (Cl. 41—31.6)

1. A hectograph blanket comprising a copy mass of a tanned gelatin gel having a softening point of at least 70° C., and including glycerine and from 5 to 15% of a glycol solvent homogeneously dispersed throughout the entire mass of the gel.

2,313,125

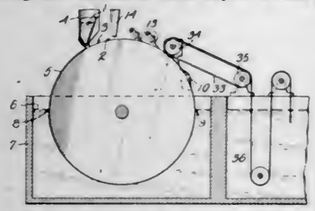
MACHINE FOR PRODUCING CELLULOSE SHEETS AND THE LIKE

Emil Czapek, New York, N. Y.

Original application August 12, 1937, Serial No. 158,747. Divided and this application August 3, 1940, Serial No. 350,290
13 Claims. (Cl. 18—15)

1. The combination of a supporting base, a feed having its discharge end disposed adjacent to the base for pouring in the form of a layer of

viscose and the like cellulose solutions directly onto the base without passing through any unsupported intervening free space, a coagulating bath, means for actuating said base through said coagulating bath until the coagulating fluid of the bath has started penetrating to the supporting base thereby to moisten the same, a device for freeing the formed film layer from the sup-



porting base, continuing to support the film layer during the freeing action, and returning the layer to said base after completing the freeing action, said device including a supporting surface for the film during the freeing action and guides at both ends of said surface associated with said device for detaching and returning the film layer to the base after completing the freeing action.

2,313,126

TONE ARM

Roy Dally, Racine, Wis., assignor to Webster Electric Company, Racine, Wis., a corporation of Delaware

Application January 18, 1941, Serial No. 374,964
7 Claims. (Cl. 179—100.41)



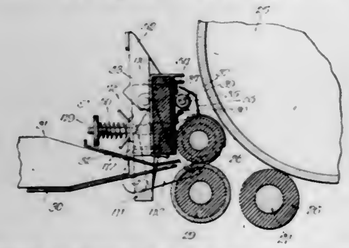
1. In a crystal reproducing member, the combination of a tone arm having a recess formed in its free end and having a half-housing formed in said recess for enclosing a crystal unit and a chunk, a second half-housing member adapted to engage the housing formed in said tone arm, means for securing said housing members together, a crystal unit carried by said housing members, and a needle chuck movably mounted between said housing members and engaging said crystal unit, said tone arm being constructed of molded insulating material and said other half-housing member being a stamped sheet metal member.

2,313,127

MOISTENING MECHANISM

William E. Denison, Chicago, Ill., assignor to Ditto, Incorporated, Chicago, Ill., a corporation of West Virginia

Application September 25, 1939, Serial No. 296,464
8 Claims. (Cl. 91—48)



1. In a moistening mechanism, the combination of a roller, means for rotating said roller, and means for applying a quantity of liquid to said roller and distributing such liquid in the form of a thin film on the face of the roller, comprising a member in the form of a sheet of rubber-like material having a great number of minute perforations therethrough, and means for holding said member in engagement with the roller with the perforations open to the face of the roller for distributing the liquid along the face of the roller as the roller rotates.

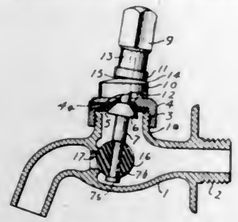
2,313,128

FLUID CONTROL VALVE

Ulysses G. Densten, Haddon Heights, N. J., assignor to Strong Manufacturing Company, Portland, Oreg., a corporation of Oregon

Application November 18, 1940, Serial No. 366,096
5 Claims. (Cl. 251—10)

1. A fluid control valve having a tubular body defining a transverse annular seat about its bore, a movable closure element adapted to be moved into and out of engagement with said seat, said closure element comprising a stem, the inner end of which extends into said body, and the outer end of which lies exteriorly thereof, a spherical



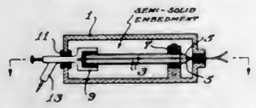
valve element mounted upon the inner end of said stem, a spring-pressed retaining member carried by the outer end of said stem and a semispherical pivot element arranged intermediate the ends of said stem, a removable bonnet for said body defining an aperture leading laterally from the bore of said body, through which aperture said stem passes, a rounded seat surrounding the inner face of said aperture for accommodating said pivot element and an elastic sealing element secured across said rounded seat, pierced to pass said stem but to retain said pivot element, said sealing element lying between said pivot element and said rounded seat, said sealing element being secured between said bonnet and said body.

2,313,129

ART OF MOUNTING PIEZOELECTRIC CRYSTALS

William R. Dohan, Wynnewood, Pa., assignor to Radio Corporation of America, a corporation of Delaware

Application January 31, 1941, Serial No. 376,874
5 Claims. (Cl. 171—327)



1. A piezoelectric unit comprising a casing containing a piezoelectric crystal element and a semisolid mass of insulating material in which said crystal is embedded, and means extending from said crystal through said insulating material to the exterior of said casing for applying an operating force to said crystal.

2,313,130

FLOATING MOTION CUSHION FOR VEHICLES, FURNITURE, AND THE LIKE

John M. Dorton, Bonner Springs, Kans.

Application August 19, 1940, Serial No. 353,256
2 Claims. (Cl. 155—179)



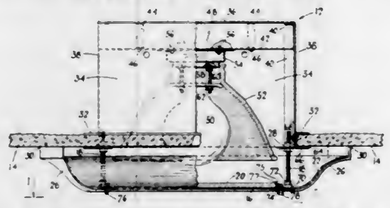
2. In a cushion, seat and back units provided with a plurality of coil springs arranged in rows, a pair of longitudinal cables extending over each row of coil springs and flexibly connecting the units so that the back unit may be swung forward or backward independently of the seat unit, said cables being bent at their rear ends and secured to the back frame and bent downward and rearward in front of the foremost seat springs, means connecting the cables to the upper ends of the seat springs and the forward ends of back springs, a transverse member fixed to the foremost seat springs, and means hingedly connecting the front ends of the cables to said transverse member.

2,313,131

LIGHTING FIXTURE

Percy I. Elias, Long Beach, N. Y., assignor of one-half to Michael Angelo Elias, 2nd, Long Beach, N. Y.

Application February 26, 1941, Serial No. 380,613
16 Claims. (Cl. 240—78)



5. A ceiling fixture comprising a box to be recessed into a ceiling, said box being open at the bottom, relatively long hanger bolts depending from the corners of said box, a lens frame and outwardly and upwardly projecting corner pieces supported below the ceiling by said hanger bolts, said corner pieces being secured solely at their lower ends, said lens frame having a shape and size comparable to that of the open bottom of the box, said hanger bolts extending down to said lens frame, outwardly and upwardly sloping side glass pieces supported by said corner pieces, said side glass pieces being unframed and unsupported along their upper edges, and one or more bottom lenses carried by said lens frame.

2,313,132

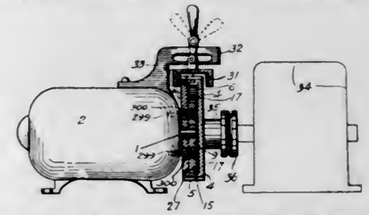
SPEED AND DIRECTIONAL CHANGER

Morris Aubrey Elliott, Baltimore, Md.

Application September 9, 1940, Serial No. 356,089
4 Claims. (Cl. 74—189.5)

1. In a device of the class described, a casing,

a shaft supporting the said casing but allowing same to rotate freely thereon, clutch plate sets within the casing, one set of the clutch plates being fastened to the casing and the remaining set fastened to said shaft facing each other in direction but with the plates of each spaced apart from each other, adhesive material in the casing for providing an adhesive clutching action between the plates of the sets aforesaid at predetermined positions thereof in relation to each



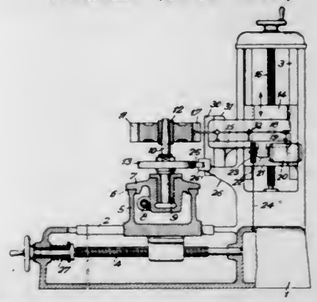
other, means for reciprocating the shaft operating from the casing structure to vary the relations of the plates of each set to the other and the adhesive reactions of the adhesive material on the same, gear means attached to the exterior of the casing and adapted to rotate therewith, a system of gearing engaging with said gear means for coacting with same, and extended shaft for rotating the said system of gearing and supporting same and arranged for connection to a source of power.

2,313,133

EXAMINING OF GEARS, PARTICULARLY HELICAL GEARS

Daniel Ernst, Zurich, Switzerland, assignor to Maag Zahnräder &-Maschinen Aktiengesellschaft, Zurich, Switzerland

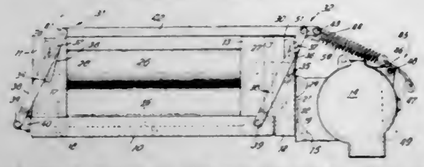
Application July 17, 1941, Serial No. 402,879
In Switzerland and Germany September 19, 1940
6 Claims. (Cl. 33—179.5)



1. In a device for examining gears, particularly helical gears, in regard to correctness of form of helical and straight tooth flanks as well as tooth contours, a rolling cylinder, a gear to be examined, a centering member common to said cylinder and the gear to be examined, said cylinder and gear being mounted for rotation together with said centering member, a rectilinear track, said cylinder engaging and rolling on said track by relative movement of said two parts, a feeler member for contacting with the tooth flanks of said gear, recording means cooperating with said feeler member for recording the aberrations of said feeler member from the true form required for said tooth flanks and said tooth contours, means for moving said feeler member parallel to said centering member while said centering member is kept from rotation and said track moves tangentially to said cylinder, for ex-

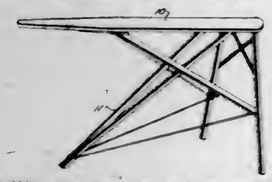
amining the respective kind of said forms of tooth flank, and means for moving said centering member parallel to said track while said feeler member and said track are arrested, for examining said tooth contours.

2,313,134
DIMINISHING PRESSURE WRINGER
Nicholas L. Etten, Waterloo, Iowa
Application March 25, 1940, Serial No. 325,757
10 Claims. (Cl. 68—262)



10. In a wringer, the combination of a plurality of pressure rolls including a movable roll mounted in bearings for movement in a direction lateral to the roll axis, spring means associated with said movable roll, and pressure control mechanisms interconnecting said spring means and said roll, said spring means and pressure control mechanisms being characterized by means to maintain predetermined initial operating pressure between said pressure rolls when said rolls are in contact, means responsive to a normal lateral displacement of said movable roll to exert undiminished pressure between said rolls, and means responsive to abnormal lateral displacement of said movable roll to gradually and progressively diminish the effective pressure between said rolls.

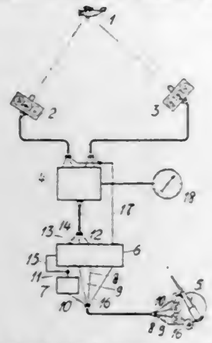
2,313,135
IRONING BOARD
Horace B. Fay, Willoughby, Ohio, assignor to The Gridiron Steel Company, Cleveland, Ohio, a corporation of Ohio
Application January 24, 1940, Serial No. 315,403
1 Claim. (Cl. 38—137)



A metallic ironing board comprising spaced metallic sheets, one of which is relatively flat and the other of which is longitudinally corrugated to provide enclosed channels extending longitudinally of the board, said corrugations having buttons protruding therefrom and in contact with the other sheet, the space between said buttons forming passages communicating with said channels, certain of said buttons being rigidly united to said upper sheet, and an electric heating element mounted within the channels formed by said corrugations and passing through certain of said communicating passages.

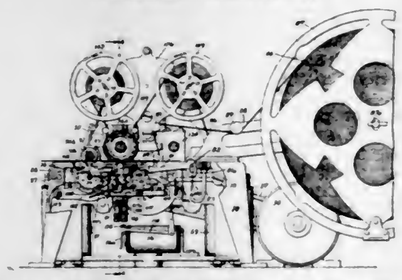
2,313,136
APPARATUS FOR ASCERTAINING SIGHTING AND FIRING ERRORS IN GUNNERY PRACTICE
Friedrich Ernst Fischer, Erlenbach, Switzerland
Application November 26, 1938, Serial No. 242,511
In Switzerland January 14, 1937
15 Claims. (Cl. 35—25)

14. Apparatus for surveying and registering sighting errors in shooting practice against moving targets, such as airships, comprising the combination of a central apparatus including a computing device for determining the distance between two points, an electrical sender for converting the adjustments at a gun station into electrical impulses, a delay-producing mechanism for registering the movements of the electrical sender and transmitting the impulses after a predetermined period of delay, two sighting devices, and electrical conductors between the central apparatus on the one hand and the gun and its timing mechanism and the two sighting devices on the other, said conductors



transmitting both the settings of the gun and timing mechanism as well as the settings of the two sighting devices continuously to the central apparatus, said delay mechanism being interposed in the conductors between the central apparatus and the gun and its timing mechanism, whereby the duration of the transmission of the movement of the gun and timing mechanism to the central apparatus is brought into relationship with the time of flight of the projectile at any time by the said delay mechanism by being artificially increased in correspondence with such time of flight by the said predetermined period of delay.

2,313,137
TELEGRAPH PRINTER
Clyde J. Fitch, Endwell and Kurt R. Schneider, Endicott, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application August 24, 1940, Serial No. 354,035
17 Claims. (Cl. 178—40)

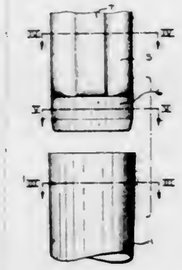


1. In a telegraph receiver of the type wherein the selection of characters is controlled by a permutation code selector, a selecting mechanism comprising a pair of shafts, driving means for said shafts, clutch means for individually and independently connecting said shafts and driving means, means controlled by certain elements of a received code signal for rendering one of said clutches operative and for selectively stopping the same at different portions of a revolution to rotatively position one of said shafts, means controlled by others of said signal elements for rendering another of said clutches operative and for selectively stopping the same at different portions of a revolution to rotatively position the other of said shafts, a typewheel mounted for axial and rotative movement, means controlled by one of said shafts for rotatively positioning said typewheel, and means controlled by the other of said shafts for axially positioning said typewheel.

2,313,138
PRODUCTION OF COLOR PHOTOGRAPHIC IMAGES
Alfred Fröhlich and Wilhelm Schneider, Dessau, Germany, assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application November 18, 1941, Serial No. 419,569. In Germany July 31, 1940
10 Claims. (Cl. 95—6)

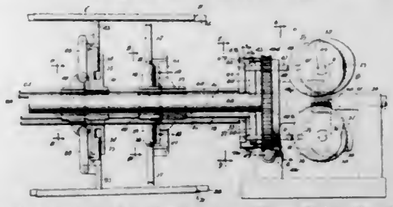
4. In a process of producing color photographic images by color forming development, the improvement which comprises developing an exposed silver halide gelatine emulsion with an aromatic primary amino developer in the presence of a hydroxy-aza-phenanthrene as a dyestuff former.

2,313,139
METHOD OF MAKING LAWN MOWER HANDLES
Truman B. Funk, Jackson, Mich., assignor to Yard-Man, Inc., Jackson, Mich., a corporation of Michigan
Application May 2, 1940, Serial No. 332,902
3 Claims. (Cl. 153—79)



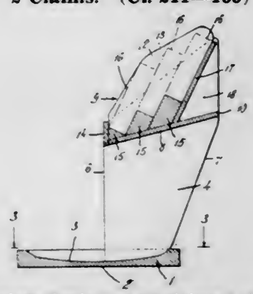
1. The method of expanding an end portion of a tapered sheet metal tube to a portion of substantially rectangular cross-sectional configuration, and of substantially uniform width and depth throughout its length, which comprises providing a punch of similar cross-section and of substantially uniform width and depth throughout its length, except for a tapered entering nose portion, said punch having at least two opposite sides thereof outwardly bulged, forcing said punch into said end portion whereby the resulting expanded portion has at least two opposite sides outwardly bulged, and forcing into said expanded portion a second punch having substantially straight sides and being of substantially rectangular cross-section to form said expanded portion into a portion having unbulged sides.

2,313,140
APPARATUS FOR THE MANUFACTURE OF RAYON
William H. Furness, Haddonfield, N. J., assignor to American Rayon Company, Inc., Riverton, N. J., a corporation of New Jersey
Application May 1, 1940, Serial No. 332,693
8 Claims. (Cl. 242—53)



1. Apparatus for laying up thread in the form of a continuously advancing helix, comprising a rotating cage-like thread carrying cylinder; said cylinder comprising two concentric sets of circumferentially spaced longitudinally extending bars, the bars of one set being in interspersed relation to the bars of the other set; means connecting the bars of each set into a plurality of units each comprising a plurality of bars, radially disposed members carried by said connecting means; actuating mechanism for imparting back and forth longitudinal movement and in and out radial movement to the bar units of each set independently; and means connecting said actuating mechanism to said radially disposed members.

2,313,141
DISPLAY DEVICE
Alan C. Garratt, Upper Montclair, N. J., assignor to American Cigarette and Cigar Company, New York, N. Y., a corporation of New Jersey
Application June 3, 1942, Serial No. 445,556
2 Claims. (Cl. 211—133)

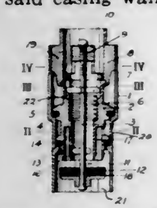


1. A display device comprising a base of substantial area, the upper surface of the base being dished to form a change tray, a support extending upwardly from the base, and having an inclined upper edge, and a receptacle portion mounted on the upper edge of the support, the receptacle portion being provided with stepped shelves to receive merchandise to be displayed, the receptacle portion being spaced from the base to provide ready access to the change tray.

2,313,142
AUTOMATIC MULTIPLE OUTLET VALVE
Aimé Genest and Adrien Genest, Montreal, Quebec, Canada
Application April 4, 1941, Serial No. 386,768
1 Claim. (Cl. 251—144)

A multiple outlet valve comprising a hollow,

open ended cylindrical casing having a plurality of inwardly extending shoulders, a valve assembly mounted within the casing, said assembly comprising an open ended tubular seat member having a plurality of washers thereon for sealing engagement with said shoulders, the tubular member being spaced from the portion of the inner wall of the casing between the shoulders to provide an annular chamber, an outlet opening through the said casing wall portion, a sec-



ond annular chamber in one end of said tubular member concentrically arranged within said first chamber and having one end open, a port in a wall of the second chamber providing communication between the two chambers, the inner wall of said second annular chamber defining an outlet for the passage through the tubular seat member, a spring pressed valve member normally closing the said open end of the second annular chamber and the outlet of the tubular seat member.

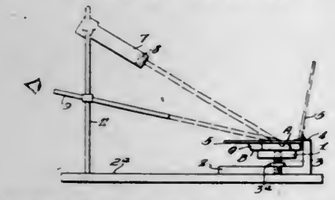
2,313,143

APPARATUS FOR EXAMINING QUARTZ

Paul D. Gerber, Woodlynne, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Original application May 31, 1939, Serial No. 276,666. Divided and this application July 31, 1940, Serial No. 348,908

7 Claims. (Cl. 88—14)



1. Apparatus for inspecting crystals comprising a base, a turntable for a crystal specimen mounted on said base, a projector including a collimating lens supported above said base and offset from said turntable, and a paralleloscope mounted on the same offset side of said turntable as said projector for observing the light from said projector which is reflected from said specimen.

2,313,144

PRODUCTION OF AQUEOUS DISPERSIONS OF ETHYLENE POLYMER

Albert Stanley Gomm, Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application June 5, 1939, Serial No. 277,567. In Great Britain June 7, 1938

1 Claim. (Cl. 260—32)

A process for preparing stable, organic solvent free aqueous dispersions of a polymer of ethylene which is a solid at normal temperature and which by X-ray diffraction analysis shows a crystalline structure, which comprises preparing a mixture comprising a dispersing agent and a solution of said polymer in a hot substantially water-immiscible volatile organic solvent, adding hot water to said mixture during continuous agitation at elevated temperature, and then removing the organic solvent from the emulsion by volatilization.

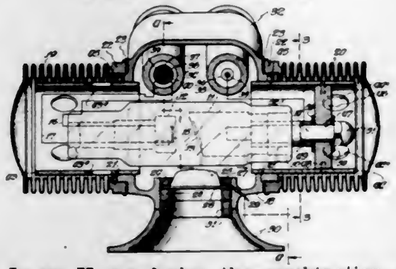
2,313,145

X-RAY APPARATUS

Joseph J. Heger, Chicago, Ill., assignor to Universal X-Ray Products, Inc., Chicago, Ill., a corporation of Illinois

Application July 31, 1940, Serial No. 348,673

10 Claims. (Cl. 250—90)



1. In an X-ray device, the combination of a housing, a heat conducting fluid in said housing, an X-ray tube in said housing and in said fluid, said housing itself being in part formed of a corrugated tube-like portion of sheet material surrounding one of the ends of said X-ray tube, said corrugated housing portion being expansible and contractible with changes in volume of said fluid, an electric conductor extending from said tube at its said end, and stop means for limiting the contractive movement of said corrugated housing portion toward said electric conductor.

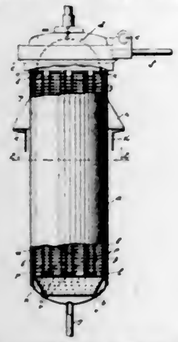
2,313,146

METHOD FOR RECLAIMING OR REGENERATING RUBBER FROM RUBBER WASTE PRODUCTS

Jakob Hirschberger, New York, N. Y.

Application November 20, 1940, Serial No. 366,408

1 Claim. (Cl. 260—720)



A method for reclaiming waste rubber comprising charging the unground rubber pieces in an autoclave, introducing high pressure steam at a pressure of approximately 700 lbs./sq. inches and at a temperature of approximately 490° C. into said autoclave through a plurality of substantially vertical evenly distributed unobstructed main flows, dividing-off from said vertical main flows substantially horizontal uniformly

distributed secondary steam flows, introducing the steam only through the said secondary steam flows into the charge, subjecting the same hereby to the uniform action of the high pressure steam substantially on their entire surface, removing the treated charge from the autoclave and allowing the same to cool at room temperature.

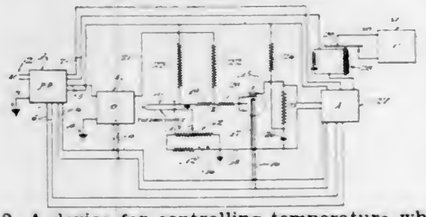
2,313,147

TEMPERATURE CONTROLLING DEVICE

James Hoekstra, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application July 14, 1941, Serial No. 402,391

5 Claims. (Cl. 236—78)



2. A device for controlling temperature which comprises a thermocouple, a source of direct current electromotive force of predetermined magnitude connected in opposition to electromotive force of substantially equal magnitude generated by said thermocouple when the latter is heated to a predetermined temperature, an electron tube having at least three electrodes, the opposite side of said source of direct current electromotive force being connected to the cathode of said tube, means connected with the opposite side of said thermocouple for superimposing an alternating current electromotive force upon the direct current electromotive force of said thermocouple, means connecting said last mentioned side of said thermocouple to the control grid of the tube to supply a pulsating potential to said grid, means interposed in said last mentioned connecting means for controlling the magnitude of the grid potential in inverse proportion to the current flowing in the grid-thermocouple circuit, means for amplifying the pulsating plate-cathode potential of said tube, and means connected in the output of said amplifying means for actuating a temperature changing mechanism to change the temperature of said thermocouple.

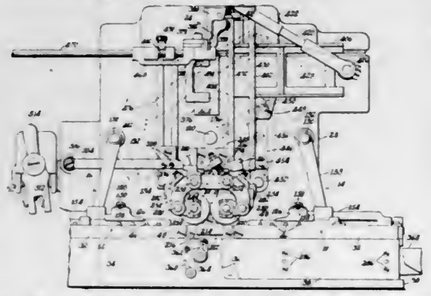
2,313,148

ASSEMBLING MACHINE

Joseph R. Ioannilli, Hamilton, and Paul H. Dixon, Wenham, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application April 11, 1941, Serial No. 388,026

46 Claims. (Cl. 12—52)



1. In a machine for assembling a tongue and lining, means for adhesively uniting said tongue and lining, work tables at opposite sides of said uniting means, gages above said tables for positioning the tongue and lining, means for moving the tongue and lining along said tables toward the uniting means, and means for withdrawing said gages from the tables prior to the movement of said last-named means.

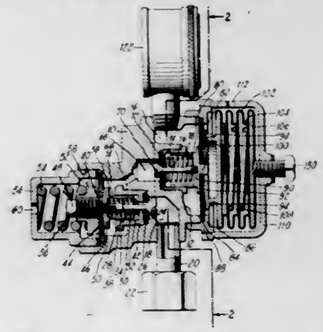
2,313,149

ALTITUDE CONTROLLED PRESSURE REGULATOR

Wilgot J. Jacobsson, Plainfield, N. J., assignor to Union Carbide and Carbon Corporation, a corporation of New York

Application July 20, 1940, Serial No. 346,473

4 Claims. (Cl. 137—153)



1. A fluid pressure regulator comprising, in combination, a body formed with a fluid chamber; a flexible diaphragm forming one wall of said chamber; a valve secured to said diaphragm and controlling the flow of fluid into said chamber; a clamping ring threadedly secured to said body and having a radially inwardly projecting flange overlying the rim of said diaphragm and holding the latter in sealing engagement with said body to seal said chamber; a backing plate secured to said diaphragm and formed with an annular flange; a resilient bellows having two rigid end walls, one end wall being formed with an annular flange interfitting the annular flange on said backing plate, said bellows being responsive to changes in atmospheric pressure; a spring in said bellows engaging said end walls; a hollow cap enclosing said bellows and threadedly secured to said clamping ring, the interior of said cap being exposed to atmospheric pressure; and a screw threaded through the end wall of said cap and engaging the other end wall of said bellows and operable to adjust the compression of both said spring and said bellows.

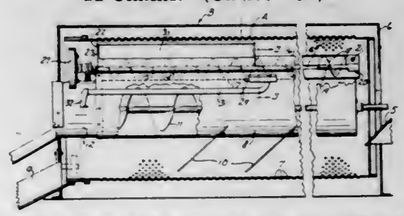
2,313,150

GRAIN SEPARATOR CATCH AND RETURN DEVICE

Harry L. Johnson, Minneapolis, Minn.

Application January 2, 1941, Serial No. 372,875

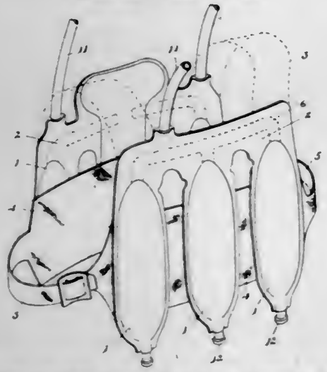
11 Claims. (Cl. 209—95)



11. In a separating mechanism including a ro-

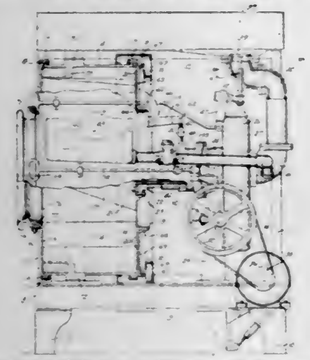
tatable cylinder adapted to receive unseparated material through one end and discharge a part of the material at its other end, a delivery trough supported lengthwise inside the cylinder to receive material elevated thereby, catch means operatively arranged to separately collect a part of the material elevated by the cylinder, means for conveying said separately collected material in the catch means toward the receiving end of the cylinder, and the said catch means having a discharge end disposed immediately over the point at which material enters the cylinder whereby said separately collected material will fall directly into the mass of unseparated material entering the cylinder.

2,313,151
LIFE JACKET
John H. Johnson, Delaware, Ohio
Application June 10, 1942, Serial No. 446,497
In Canada May 7, 1942
7 Claims. (Cl. 9—20)



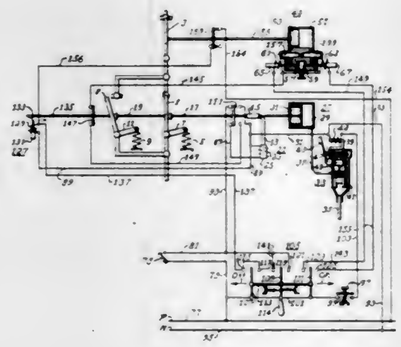
1. A life jacket formed of two sheets of rubber material secured together face to face with portions unsecured forming inflatable chambers and other portions unsecured forming an open channel connecting several chambers, and automatically closing valves arranged in said channel at the point of entrance to each of said chambers.

2,313,152
WASHING MACHINE
John Pultz Jorgenson, Evanston, Ill., assignor to Ayr-Mor Laundry Machinery Co., Chicago, Ill., a corporation of Illinois
Application February 24, 1941, Serial No. 380,085
8 Claims. (Cl. 68—208)



1. In a washing machine, a drum rotatable on a horizontal axis and having end walls and a peripheral wall, said drum being adapted to confine a quantity of washing liquid, means for conducting liquid axially into one of said end walls, said end wall having liquid discharge openings therein positioned radially outwardly from the liquid conducting means, and a valve rotatable with said drum and having a central opening through which said liquid conducting means extends and normally closing said liquid discharge openings.

2,313,153
AUTOMATIC RECLOSING CIRCUIT BREAKER SYSTEM
Werner Kaufmann, Berlin-Siemensstadt, Germany, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 15, 1940, Serial No. 365,825
In Germany October 6, 1939
19 Claims. (Cl. 175—294)



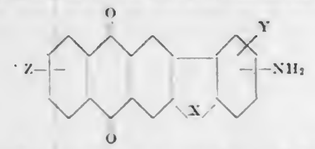
1. A circuit breaker comprising a circuit interrupting switch biased open, a circuit reclosing switch biased closed and connected in the circuit of the breaker in parallel with said interrupting switch, means for releasably holding the interrupting switch closed and for holding the reclosing switch open, a disconnecting switch connected in the circuit in series with the interrupting switch and the reclosing switch, operating means for opening and closing the disconnecting switch, and control means operable to cause said operating means to open or to close the disconnecting switch and to cause the interrupting switch and the reclosing switch to be open during operation of the disconnecting switch.

2,313,154
PREPARATION OF RUBBER COMPOSITIONS
John H. Kelly, Jr., and Milton M. Stern, Chicago, Ill., assignors to Dryden Rubber Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application October 6, 1939, Serial No. 298,244
15 Claims. (Cl. 260—722)

1. The method of preparing a rubber composition which comprises milling rubber with a cation active material and water.

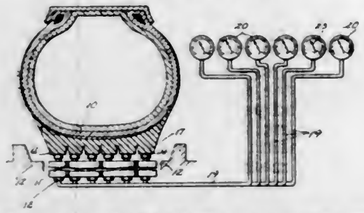
2,313,155
CHLORANTHRAQUINONES AND A PROCESS OF MAKING THEM
Paul Kränzlein, Leverkusen-I. G.-Werk, Germany, assignor to General Aniline & Film Corporation, a corporation of Delaware
No Drawing. Original application February 25, 1938, Serial No. 192,564. Divided and this application November 28, 1940, Serial No. 367,593. In Germany February 27, 1937
8 Claims. (Cl. 260—365)

1. The compounds of the general formula



wherein X represents a member of the group of bivalent radicals consisting of $—CH_2$ and —CH=CH—, Y represents a member of the group consisting of hydrogen and methyl, Z represents a member of the group consisting of hydrogen and chlorine, and their sulfonation products.

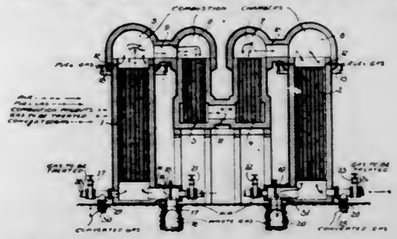
2,313,156
METHOD OF INFLATING PNEUMATIC TIRES TO PROPER INTERNAL AIR PRESSURE UNDER LOAD
George C. Kratt, Jr., Nisswa, Minn.
Application February 12, 1941, Serial No. 378,546
2 Claims. (Cl. 73—51)



2. The method of inflating pneumatic tires to proper internal air pressure under definite road-engaging load pressure, which consists in supporting the thus loaded tire on a plurality of pressure indicators spaced transversely of the tire, and in varying the air pressure in the tire until the several indicators indicate substantially the same pressures, at which time the proper internal air pressure of the tire for the predetermined load will be indicated.

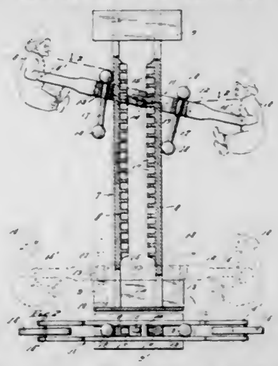
2,313,157
PROCESS FOR CARRYING OUT ENDOTHERMIC GAS REACTIONS AT HIGH TEMPERATURES
Willy Linder, Essen, Germany, assignor, by mesne assignments, to Koppers Company, Pittsburgh, Pa., a corporation of Delaware
Application July 24, 1939, Serial No. 286,178
In Germany July 28, 1938
4 Claims. (Cl. 252—373)

1. A cycle for use in a process of carrying out endothermic gas reactions at high temperature to produce endothermic reaction products involving a preheating step preceding an endothermic reaction step and a cooling step following the endothermic reaction step, which cycle comprises: passing gaseous combustion media for the cycle first through non-combustible refractory material in an end regenerator, preheating the media for combustion and cooling the refractory material in the regenerator for the cooling step, and passing it thence into a combustion chamber; effecting combustion therein of the preheated gaseous media and flowing the products of combustion first through non-combustible refractory material in an intermediate regenerator and thereby heating the refractory material therein to the reaction temperature for the endothermic reaction step, passing the combustion products thence out through non-combustible refractory material in another end regenerator and thereby heating the same for the preheating step and cooling the waste gas to below 300° C.; then leading the gases to be reacted



through the non-combustible refractory material of the three regenerators of the set in series, first of all countercurrent to the direction the preceding heating-up gases took, and concluding with a run in the same direction as the preceding heating-up gases took, and thereby producing the endothermic reaction products and cooling the end regenerator through which the gaseous heating media of the cycle entered to a temperature at which the waste gases of the heating-up step of the next cycle will leave at below 300° C., the direction of flow through the set of gaseous heating media for the cycle being countercurrent to the direction of flow of the concluding run of the gas for reaction of the previous cycle.

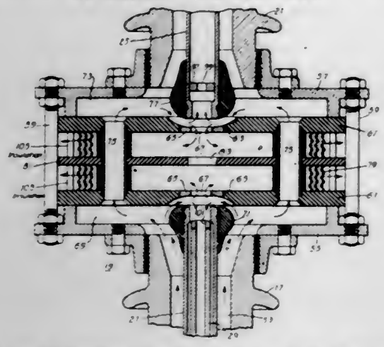
2,313,158
TOY
Sidney L. Long, Minneapolis, Minn.
Application November 11, 1942, Serial No. 465,281
20 Claims. (Cl. 46—130)



1. A toy, comprising a frame having two series of parallel fulcrum bearings in opposing relation, the bearings in the two series being staggered, a see-saw device operated by the force of gravity to travel relative to the frame and having a fulcrum for alternate engagement with the bearings of the two series, and automatic means for moving the see-saw device during its travel to

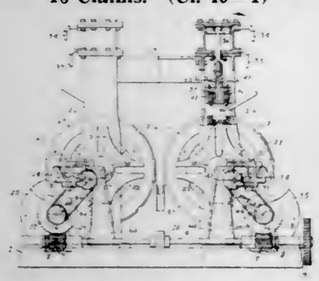
withdraw its fulcrum from an engaged bearing of one series and project the same onto a lower bearing of the other series.

2,313,159
CIRCUIT INTERRUPTER
Leon R. Ludwig, Wilkinsburg, and Benjamin P. Baker, Turtle Creek, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 9, 1941, Serial No. 373,856
19 Claims. (Cl. 200—148)



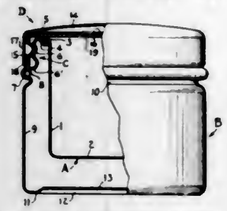
1. In a circuit interrupter of the fluid-blast type, a stationary contact having a fluid discharge passage therethrough, a barrier member of insulating material disposed in fixed spaced relation from the end of said stationary contact, said barrier member having an orifice therethrough in alignment with said contact, means for establishing an arc from said stationary contact through said orifice in said barrier member, and means for projecting a fluid blast radially inwardly towards said arc, said fluid blast discharging along the arc through both said discharge passage and said orifice, the cross sectional area of said fluid discharge passage in said stationary contact being smaller than the cross sectional area of said orifice in said barrier member to produce an unsymmetrical flow of fluid through said discharge passage and said orifice with a greater quantity of fluid discharged through said orifice than said discharge passage.

2,313,160
MACHINE AND METHOD FOR FORMING AND WELDING HOLLOW GLASS BLOCKS
Wilbur S. Mayers, Toledo, Ohio
Application September 3, 1937, Serial No. 162,237
16 Claims. (Cl. 49—1)



6. Apparatus for forming hollow blocks comprising two mold carriers mounted upon parallel horizontal axes, a multiplicity of molds mounted on each carrier and facing outward on the periphery thereof, means for moving the two carriers intermittently and synchronously, means for stopping each movement of the carriers with the molds on the adjacent sides of the carriers in alignment therewith, means for molding a half block from plastic glass in each mold before it reaches said position of alignment with the mold on the other carrier, means to move the two molds rectilinearly in said position of alignment towards each other until the half blocks therein are brought in contact, whereby said half blocks are welded to complete a block, and means for ejecting the finished blocks from the molds and for depositing the blocks upon a conveyor.

2,313,161
SHEET METAL CONTAINER
Augustus L. Merolle, Brooklyn, N. Y., assignor to Empire Metal Cap Co. Inc., Brooklyn, N. Y., a corporation of New York
Application November 19, 1938, Serial No. 241,346
3 Claims. (Cl. 220—10)



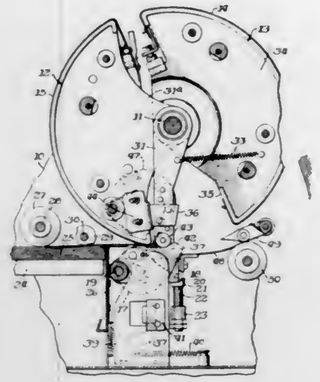
1. A container made from sheet metal comprising in combination an inner receptacle surrounded by a neck-piece which is secured thereto and spaced therefrom and has a portion adapted to engage a cap for closing the opening of said receptacle, and a separate casing fast to the spaced end part of said neck-piece, for completely encasing the outside of said inner receptacle, said casing having an inturned wire edge at its upper marginal portion and an inwardly extending groove below said wire edge, the lower marginal portion of the neck-piece passing outside of the said wire edge and entering said groove.

2,313,162
TREATMENT OF HYDROCARBONS
Jacque C. Morrell and Aristid V. Grosse, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application March 25, 1939, Serial No. 264,207
14 Claims. (Cl. 260—683)

11. A process for dehydrogenating aliphatic hydrocarbons which comprises contacting the same under dehydrogenating conditions with an oxide of an element from the left-hand column of group 5 of the periodic table, supported on an activated alumina comprising a calcined aluminum hydrate of high adsorptive capacity.

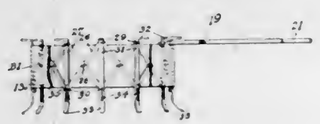
2,313,163
FRONT MARGIN STOP MEANS FOR DUPLICATING MACHINES
Morris P. Neal, Quincy, Ill., assignor to Ditto, Incorporated, Chicago, Ill., a corporation of West Virginia
Original application April 7, 1939, Serial No. 266,518. Divided and this application October 25, 1941, Serial No. 416,540
9 Claims. (Cl. 101—132)

1. In a duplicating machine, the combination of a frame, a drum rotatably mounted on said frame, means for driving said drum, a platen rotatably mounted on said frame in position to engage said drum so as to rotate at the same surface speed therewith, means for securing a form removably in position on said drum, stop means adapted normally to travel around with the drum a short distance in advance of said form and movable circumferentially of the drum toward said form against the action of a spring, means adapted upon each revolution of the drum to have releasable engagement with said stop



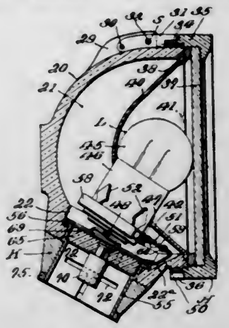
means for holding the stop means stationary slightly in advance of said platen while the drum continues to rotate, means for feeding a copy sheet into engagement with said stop means so as to align said copy sheet into normal operative position above said platen, and means adapted when the form on the drum reaches approximately normal printing position with respect to the held copy sheet to release said stop means from said holding means for freeing the copy sheet so as to be forwarded by the cooperative action of the drum and platen in printing relation to the form.

2,313,164
SELF-RETAINING SURGICAL RETRACTOR
Walfred A. Nelson, Salt Lake City, Utah
Application November 13, 1939, Serial No. 304,183
5 Claims. (Cl. 128—20)



4. A surgical retractor comprising, a plurality of blades connected in lazy-tong arrangement to form a circular frame; an elastic band surrounding the frame, each of said blades being curved outwardly at one end and projecting beyond the adjacent edge of the band and a pivoted tool engageable with the opposite ends of certain of said blades for expanding the frame; and means for securing the frame in its expanded position, said means comprising a flexible member securing the blades against contracting movement.

2,313,165
MINE LAMP
George C. Nelms, Pittsburgh, Earl J. Coggeshall, Turtle Creek, and Earl A. Berry, McDonald, Pa., and William K. Wilbur, Bluefield, W. Va., assignors to Portable Lamp & Equipment Co., Pittsburgh, Pa., a corporation of Pennsylvania
Application March 9, 1940, Serial No. 323,224
27 Claims. (Cl. 240—11.3)



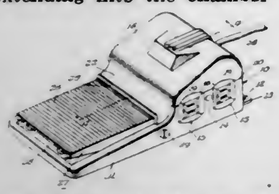
4. A connector and switch structure for mine lamps and like devices where the current-carrying contact must be de-energized in a disconnected condition of the parts, comprising separable members connected to the source of current supply and to the load, said members including a plug and a socket constructed and arranged for interengagement, first switch means including contacts on the plug and socket which are brought into conductive relation upon relative rotation of the members; second switch means located on one of said members; a key part and a mating hollow part, one said part being located on the plug and the other part on the socket so that the parts are interengaged during the entry of the plug into the socket, said second switch means including a rotatable switch plate connected to one said part so that said second switch means is closed upon said relative rotation of the members, and interengaging means on said members for preventing separation thereof while said switch means are closed.

23. A lamp bulb holder for a mine lamp, comprising a headpiece having a cavity, a sleeve in the wall of the headpiece, a conductive spring member of U-shape having one of its ends secured to the inner end of said sleeve, the other end of the spring member having an aperture for receiving the base sleeve of a lamp bulb, said base sleeve having a sleeve lug and a base contact, spaced lugs integral with said spring member extending along the lamp base sleeve for holding the bulb against rocking relative to the spring member, a resilient blade-spring member for engaging the sleeve lug of the lamp bulb and pressing it against said spring member, an insulating member supported by said sleeve, and a contact member carried by said insulating member and positioned opposite the base of the lamp bulb for engagement with the base contact.

2,313,166
SWITCH
Harold I. Nicholas, Chicago, Ill., assignor to Burke & James, Inc., Chicago, Ill., a corporation of Illinois
Application February 9, 1942, Serial No. 430,044
1 Claim. (Cl. 200—153)

A switch embodying a casing provided with a

chamber open at its top, socket plugs within the chamber and electrically connected in parallel, a switch device for controlling said sockets, said switch device embodying an oscillatable insulated support, a mercury element carried by said support, means normally biasing said switch device open, a pivotally mounted treadle disposed outside of said chamber, an extension on said treadle extending into the chamber through a



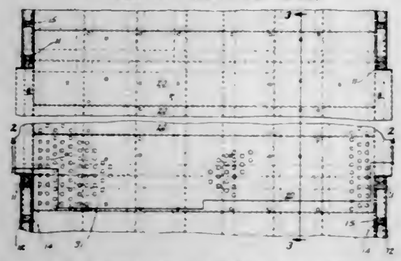
wall thereof for operating the switch device against the stress of said biasing means upon operation of the treadle, an anti-friction roller carried by said switch device and engaged by said extension to rotate said switch device when the treadle is moved in one direction, and to move the treadle in another direction under the influence of said biasing means, and a closure for said chamber.

2,313,167

FLOOR PROTECTION FOR RAILWAY CARS

Karl F. Nystrom, Milwaukee, Wis.

Application December 4, 1941, Serial No. 421,546
3 Claims. (Cl. 105—422)



1. In a railway car; a floor stringer forming part of the underframe of the car, a floor supported by said stringer and comprising a plurality of wooden boards crossing said stringer, a perforated metallic floor protecting plate having one margin thereof formed with a depending flange extending between two of said boards, said flange formed with an outwardly projecting reflange projecting into a groove in the edge of one of the last mentioned boards, and bolts positioned adjacent said flange which pass through some of said perforations, said floor and said stringer to hold down both of said last mentioned boards.

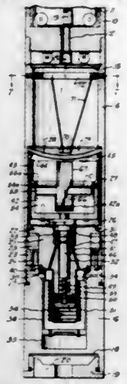
2,313,168

INCLINATION AND DIRECTIONAL DEVICE FOR BOREHOLES

Willard J. Opocensky, Long Beach, Calif., assignor to Eastman Oil Well Survey Company, Dallas, Tex., a corporation of Delaware, and Eastman Oil Well Survey Corporation, Long Beach, Calif., a corporation of California, jointly

Application April 25, 1940, Serial No. 331,518
16 Claims. (Cl. 33—205.5)

1. An inclination and directional indicating device including, a housing, an element mounted within the housing and arranged so as to maintain a fixed position relative to the longitudinal axis of the housing whereby said element assumes the same inclination from the vertical as said housing, an indicating means carried by said element, an arcuate member pivotally mounted within the element, means for maintaining said member in the same plane regardless of the inclination of the housing and element, whereby, when said element is inclined from the vertical,



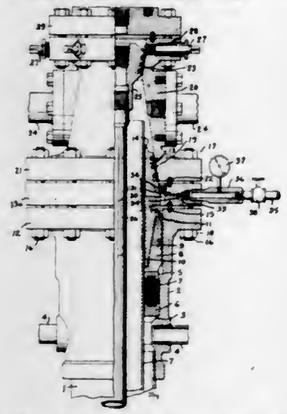
the position of the indicating means carried by said element is moved relative to the arcuate member to indicate the angle of such inclination from the vertical, and photographic means within the housing above the element for photographing the relative positions of the indicating means and element.

2,313,169

WELL HEAD ASSEMBLY

Arthur J. Penick and Kirby T. Penick, Houston, Tex.

Application May 9, 1940, Serial No. 334,137
1 Claim. (Cl. 166—14)



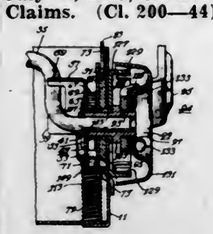
A well head assembly comprising upper and lower tubular heads, an adapter on the lower head shaped to surround an inner pipe and to space the inner pipe from the lower head, seals between the adapter and the upper and lower heads said adapter having an external, upwardly converging seat and forming a seal with said inner pipe, said upper head fitting over, and forming a fluid tight seal with, said seat, sealing means within the lower head around said inner pipe and enclosing the space between the inner pipe and the lower head, said space being provided to contain a substantially non-compressible medium effective to test said seals when subjected to pressure.

2,313,170

ENCLOSED CIRCUIT INTERRUPTER

Lawrence Pierce, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application July 20, 1940, Serial No. 346,530
20 Claims. (Cl. 200—44)



1. An enclosed circuit interrupter comprising an enclosing casing, circuit interrupter mechanism mounted in said casing, a movable operating handle on said casing for operating said interrupter, and handle locking means comprising a fixed locking element on said casing and a cooperating locking element movable with said handle having provision for receiving one or more locks to lock said interrupter in "off" position and disposed so that a lock cannot be inserted in either locking element except when the interrupter is in full "off" position.

2,313,171

RESILIENT SUPPORT

James Piliero, Astoria, N. Y., assignor to Dickson Wire & Cable Corp., Long Island City, N. Y., a corporation of New York

Application February 10, 1941, Serial No. 378,181
11 Claims. (Cl. 5—247)



3. A spring bottom comprising an upper frame and a lower frame, cross members for strengthening said lower frame and affording supports for springs, elliptical springs mounted on said members, said elliptical springs having an upper half having outwardly directed apertured heads and a lower half having corresponding outwardly directed apertured heads, means connecting the apertured heads of said upper half ellipticals in face to face registered contact with the corresponding heads of said lower half elliptical, said means comprising helical springs hooked through the apertures of said heads, flexible strips mounted on said elliptical springs, said strips being arranged in rows and interconnected with each other and resiliently connected to said upper frame and forming a resilient supporting surface, and yieldable resilient means connected to said upper and lower frames acting as a stabilizer to prevent play between said upper and lower frames relative to each other.

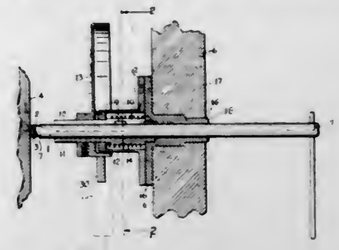
2,313,172

SAFETY DEVICE

Fred G. Rechberger, Rego Park, Long Island N. Y.

Application March 19, 1940, Serial No. 324,773
13 Claims. (Cl. 187—61)

1. In an elevator shaftway door and key for permitting its operation, means secured to the door to receive the key and a revolvable sleeve having a keyway, said sleeve mounted in said means, said sleeve having door unlocking means secured thereto, said key having a movable operator engaging said keyway when extended and



movable independent of said sleeve when retracted.

2,313,173

FABRIC TREATMENT

George Schneider, Montclair, N. J., and Joseph E. Bludworth and Cyril M. Croft, Cumberland, Md., assignors to Celanese Corporation of America, a corporation of Delaware

No Drawing. Application May 25, 1940, Serial No. 337,198
4 Claims. (Cl. 26—68)

1. Process for the removal of creases from fabrics containing yarns of a thermoplastic material without the application thereto of pressure with a heated surface, which comprises subjecting the tautened fabric to a temperature of from 250–900° F. for a period of from 0.1–15 seconds, the maximum moisture content of the fabric before the heat treatment being its normal moisture regain.

2,313,174

WRENCH

Fred C. Shock, Baltimore, Md., assignor of one-half to Cecil E. Potts, Baltimore, Md.

Application July 3, 1941, Serial No. 401,012
1 Claim. (Cl. 7—1)



A tool of the class described comprising an elongated handle, a jaw on one end of the handle, said handle having a longitudinally elongated chamber therein communicating with the jaw, said handle further having longitudinal slots therein communicating with the chamber, a pin operable in the slots, a plurality of feeler gauges journaled on the pin and slidable in the chamber, said chamber being open on opposite sides for swinging the gauges laterally from the handle for making a selection of said gauges, the gauges being adapted for selective projection into the jaw, and an operating handle secured on one end of the pin and operable on the first-named handle, the second-named handle including a finger loop on one end.

2,313,175

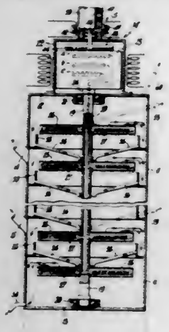
VACUUM DISTILLATION PROCESS AND APPARATUS

Robert F. Scott, St. Albans, and Argyle C. Plewes, South Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation, a corporation of New York

Application March 20, 1941, Serial No. 384,320
12 Claims. (Cl. 202—52)

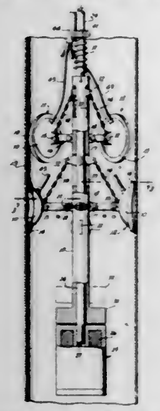
1. The process of distilling liquids under high

vacuum conditions, which comprises maintaining in a highly vacuumized zone at least one heated, rotating vaporizing surface positioned to discharge unvaporized liquid from its outer margin by centrifugal action, introducing a stream of a liquid to be distilled upon a midportion of said surface while heating such surface to a temperature sufficient to volatilize at least a portion of said liquid, and while rotating the surface at a speed subjecting the liquid to sufficient centrifu-



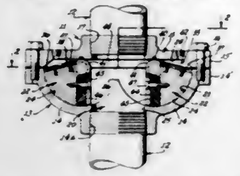
gal force to distribute it upon said surface and to discharge unvolatilized liquid from the outer margin thereof, withdrawing volatilized portions of the liquid from said vacuumized zone, separately withdrawing unvolatilized residue from said zone, and effecting the heating of said rotating surfaces and the rotation of such surfaces by energy generated magnetically within said vacuumized zone and regulated from without such zone.

2,313,176
WELL TESTER
Peter P. Shelby, Hermosa Beach, Calif.
Application July 19, 1940, Serial No. 346,416
5 Claims. (Cl. 73—51)



1. In a well tester: a rod adapted to be suspended in the well casing; a sleeve slidably mounted on said rod; a series of arms pivotally connected to said sleeve; a cup pivotally mounted on the outer end of each of said arms, the rim of each cup having a contour to conform to the interior surface of a well casing and carrying means to make a fluid tight seal with the casing; yieldable means connecting each cup to said rod; means for yieldingly holding said sleeve in an elevated position; means for moving said sleeve downwardly to take up the slack in said yieldable means and move said cups into engagement with the inner face of said casing; and fluid pressure conduits communicating with the interior of the cups for transmitting the pressures inside the cups to a measuring device.

2,313,177
BLOWOUT PREVENTER AND VALVE
Robert B. Sprague, Wilmington, Calif., assignor to Regan Forge and Engineering Company, a corporation of California
Application December 3, 1940, Serial No. 368,353
5 Claims. (Cl. 137—139)



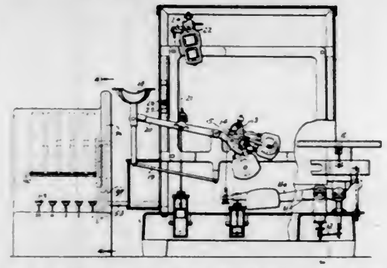
1. In a device of the class described, a housing having a passage therethrough; a pair of elements pivotally mounted in said housing on opposite sides of said passage and movable into said passage to a position of engagement to close said passage; said elements cooperating with said housing to form a fluid pressure chamber behind each element isolated from the passage through the housing, the rear side of each element forming a pivotally movable wall of each chamber having the major portion of its surface disposed to one side of the pivotal axis of the element whereby fluid pressure in the chamber will tend to pivot the element; and means for introducing fluid under pressure into said chambers to move said elements partially out of said recesses into the passage to a position of engagement.

2,313,178
PLUG FOR OIL AND GAS WELLS
Ferdinand J. Spang, Butler, Pa.
Application July 27, 1940, Serial No. 347,975
9 Claims. (Cl. 166—13)



1. In a plug for a well bore hole, a tubular resilient packing element; a packing element expander having an upwardly tapered part located within the lower end of the packing element, a part located below said tapered part and forming a plunger head, and a stem which extends through the packing element and is provided with buttress threads; a connecting sub and a frangible element connecting said sub to the expander stem; a slip carrier loosely surrounding said stem and connected to the upper end of the packing element; a tubular member connected to the lower end of the packing element, having its lower end closed and having a bleeder opening extending through its side wall; a segmented snubbing ring carried within the slip carrier for cooperating with the buttress threads of said stem; slips carried by said slip carrier, and a cage for said slips, carrying a series of wiper springs and functioning as an actuator for said slips.

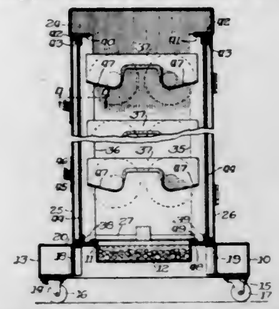
2,313,179
COMPUTING SCALE
Alfred Le Roy Sprecker, Freeport, and Le Roy S. Smithers, Kew Gardens, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application April 1, 1942, Serial No. 437,138
19 Claims. (Cl. 265—5)



1. In a computing scale in which two weighing mechanisms independently weight a pair of applied loads, means to compute a result dependent on both loads and comprising separate followers for the weighing mechanisms, each assuming a position dependent on the load applied to the associated weighing mechanism, means to coordinate the assumed positions of the followers including a device having a singly differential travel in a certain direction to a position determined by the separate positions of the followers and indicative of the result dependent on the pair of applied loads, and recording mechanism, including an element differentially positioned under control of said device, to record the said result.

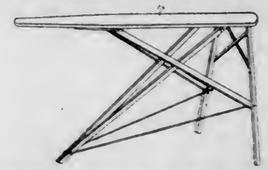
2,313,180
HECTOGRAPH ROLL CABINET
Joseph H. Tathwell, Charlotte, N. C., assignor to Ditto, Incorporated, Chicago, Ill., a corporation of West Virginia
Application May 19, 1941, Serial No. 394,238
2 Claims. (Cl. 312—98)

1. A hectograph roll container for storing a number of such rolls, comprising a base, a shell on said base comprising two opposed wall members, a top, and two opposed hinged doors closing the side openings defined by the base, the top and said members, and vertically spaced brackets on said wall members and having inwardly directed flanges thereon extending downwardly from the ends of the bracket toward the center and then upwardly to provide two oppositely disposed roll seats, said wall members comprising duplicate sheets each having vertical flanges extending toward the other wall member and offset inwardly at their free edges to provide a door recess and bracket support in spaced relation to the wall it-



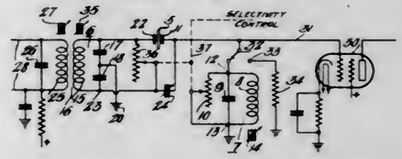
self, said brackets being fixed to the offset bracket supporting portions of said flanges.

2,313,181
IRONING BOARD
David W. Thomas, Youngstown, Ohio, assignor to Youngstown Metal Products Company, Youngstown, Ohio, a corporation of Ohio
Application February 16, 1940, Serial No. 319,300
6 Claims. (Cl. 38—137)



4. A metallic ironing board comprising an upper and a lower sheet, said upper sheet being transversely crowned, and said lower sheet having transversely spaced corrugations, each of which has a multiplicity of longitudinally spaced buttons protruding upwardly therefrom, said buttons contacting said upper sheet, and the buttons in successive corrugations from the center of the board to the sides thereof being of gradually decreasing depth.

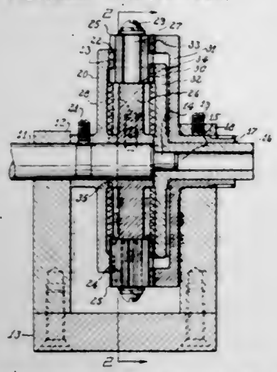
2,313,182
VARIABLE SELECTIVITY CONTROL SYSTEM
Leland E. Thompson, Merchantville, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application April 30, 1941, Serial No. 391,166
1 Claim. (Cl. 178—44)



An intermediate frequency amplifier circuit comprising, in combination, a coupling transformer having a tuned secondary responsive to a predetermined intermediate frequency, a balanced crystal bridge circuit including a crystal resonant at said frequency connected to the secondary, means providing a variable shunt resistance connection across the secondary on the input side of the crystal effectively in series with the series resonance of said crystal, an output circuit for said crystal, a tuned high impedance output circuit for said crystal responsive to the intermediate frequency comprising a variable inductance and a shunt capacitor, and

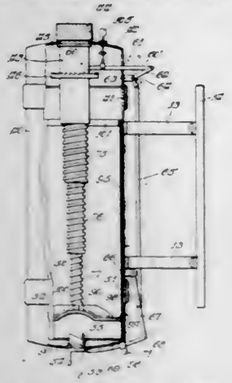
means providing a variable shunt resistance connection across said last-named circuit effectively in series with the series resonance of said crystal and conjointly variable with said first-named resistance means to increase the selectivity of said network as the resistance of said means is reduced in value.

2,313,183
TRANSMISSION AND GEAR TEETH
Nikola Trbojevich, Toledo, Ohio
Application November 4, 1941, Serial No. 417,792
7 Claims. (Cl. 74—303)



1. In a transmission the combination of a rotatable cylindrical pinion simultaneously in mesh with two coplanar and coaxial side gears in contact therewith in a tangent plane and nesting in each other, in which the formation of the meshing teeth in the pinion and gears is such that the pinion teeth are longitudinally curved along a helix, have constant cross contours throughout their lengths and are asymmetrically formed at the opposite sides of each tooth, and the gear teeth are longitudinally curved along two sets of Archimedean spirals developed from two different polar subnormals, one set for each gear and have variable and asymmetrical cross contours throughout their lengths for the purpose of improving the nature and duration of contact.

2,313,184
COMBINATION TOILET PREPARATIONS DISPENSER
Gordon Wadsworth, Chicago, Ill.
Application September 25, 1940, Serial No. 358,307
4 Claims. (Cl. 221—79)



1. A preparations dispenser comprising a container receiving member, caps closing the ends of said member, one of said caps being removable to permit insertion of a container, said removable cap having an outlet aperture and a cutter adapted to perforate the container in line with said outlet as said cap is being secured to said container receiving member, an extensible device within said member adapted to bear on the inserted container, and means for actuating said extensible device, said means including a portion covering said outlet aperture except when said means are actuated.

2,313,185
CIRCUIT INTERRUPTER
James M. Wallace, North Braddock, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 9, 1939, Serial No. 294,872
17 Claims. (Cl. 200—114)



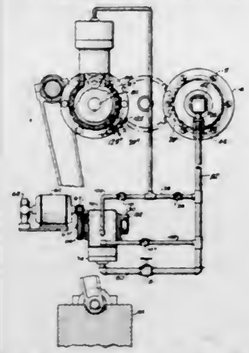
16. In a high-voltage fuse, a tubular casing of insulating material having terminals adjacent opposite ends thereof, said casing having an open end for the insertion of a refill unit, said unit including an insulating tube having a laterally extending locking flange at one end thereof, cooperating stop means on said tube and casing for limiting inserting movement of said unit into said casing with said flange positioned adjacent the open end of said casing in a position to lock a fuse support therebetween, fusible means in said refill tube and having one terminal thereof connected to said refill tube, means connecting the other terminal of said fusible means under tension to the terminal adjacent the other end of said casing to maintain said refill in operative position in said holder with said stop means in engagement and said flange adjacent to but spaced from the open end of said casing, annular fuse supporting means adapted to be slidably mounted on said casing adjacent the open end thereof and having portions normally received in the space between said locking flange and open end of said casing for preventing relative sliding movement of said supporting means and casing, whereby upon fusion of said fusible means said refill is released for movement outwardly of said casing to thereby release said supporting means for relative sliding movement on said casing.

2,313,186
PHONOGRAPH RECORD
David R. Wiggam, West Greve, Pa., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 15, 1939, Serial No. 284,702
7 Claims. (Cl. 106—37)

1. A phonograph record having a reproducing

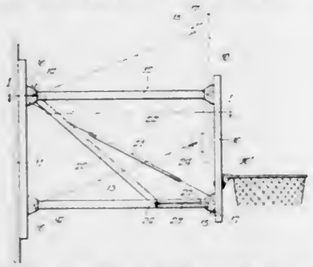
surface consisting of a molded composition comprising a tough, smooth, homogeneous plastic mixture of 10 parts of ethyl cellulose and from about 3 parts to about 10 parts of substantially petroleum-hydrocarbon insoluble pine wood resin as essential constituents.

2,313,187
CLUTCH AND BRAKE SYSTEM
Larkin R. Williamson, Brooklyn, N. Y., assignor to E. W. Bliss Company, Brooklyn, N. Y., a corporation of Delaware
Application April 1, 1939, Serial No. 265,474
11 Claims. (Cl. 192—18)



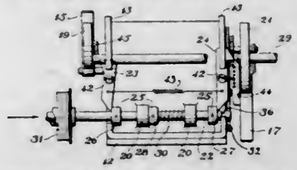
1. In a clutch apparatus of the class described for coupling a machine to a source of power, a clutch device interposed between the machine and the source of power, fluid pressure means to actuate said clutch, a device to apply pressure to said pressure means, an electric motor to operate said device and to stall at a predetermined point in the application of pressure, and means automatically operable to hold said electric motor against movement when the motor is acting to hold said clutch engaged.

2,313,188
ADJUSTABLE GOAL FOR BASKETBALL COURTS
Chester C. Woodburn, Des Moines, Iowa
Application August 26, 1940, Serial No. 354,158
8 Claims. (Cl. 273—1.5)



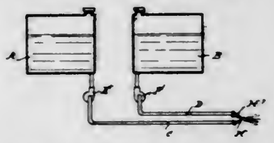
4. A game back board comprising upper and lower pairs of parallel arms pivotally mounted for swinging movement in a vertical plane on a support, a back board mounted vertically on the free ends of said arms, coil springs connected to the lower portion of the back board for assisting in raising and lowering same, and means on the support adjustably connected to certain of the arms for releasably locking the back board in raised or lowered position.

2,313,189
PREDETERMINING COUNTER
Nathaniel C. Wyeth, Paterson, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application October 30, 1940, Serial No. 363,429
3 Claims. (Cl. 235—132)



1. A counter of the predetermined type for counting to a designated number related to a predetermined number and automatically resetting the counter to the designated predetermined number, comprising in combination a set of counting wheels, a set of predetermining wheels adjustable with respect to said counting wheels, a counting shaft, a reset shaft and means for actuating the counting shaft and mechanically disengaging the reset shaft until the designated predetermined number has been counted off on the counting wheels and thereafter actuating the reset shaft and mechanically disengaging the counting shaft until the designated predetermined number has been replaced on the predetermined wheels.

2,313,190
PROCESS FOR THE PREPARATION AND USE OF ANTI-CRYPTOGAMIC COLLOIDAL SOLUTIONS, BACTERICIDES, AND INSECTICIDES
Paul Bary, Paris, France; vested in the Alien Property Custodian
Application June 18, 1938, Serial No. 214,496
In Luxemburg December 17, 1937
3 Claims. (Cl. 167—16)

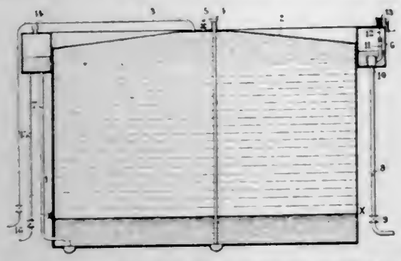


1. A process for the preparation of colloidal solutions employable for agricultural purposes which consists in feeding two solutions of compositions providing a colloidal suspension upon mutual reaction thereof to separate spraying nozzles, and bringing together said solutions at the free ends of the separate nozzles.

2,313,191
PROCESS AND DEVICE FOR STORING LIQUIDS SHELTERED FROM AIR
Georges Servan Cantacuzene, Paris, France; vested in the Alien Property Custodian
Application May 25, 1938, Serial No. 209,869
In France January 29, 1938
8 Claims. (Cl. 220—85)

1. A process for storing a liquid on a mass of denser liquid in a completely closed tank having at its highest point inlet means and outlet means for the liquid to be stored and the bottom of which communicates with a compensating receiver open to the atmosphere, which consists in maintaining in said compensating receiver the level of the denser liquid at a height below the

roof of the tank sufficient to hold the liquid to be stored in contact with the roof of the tank and



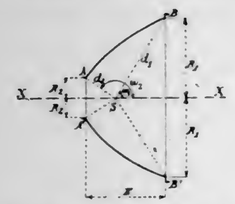
cause the same to exert on the latter a very slight upward thrust, substantially equal to the downward thrust to which said roof is subjected.

2,313,192

HIGH EFFICIENCY REFLECTOR OR SEARCHLIGHT

Maurice Décalion, Paris, France; vested in the Alien Property Custodian

Application July 29, 1939, Serial No. 287,396
In Luxemburg April 20, 1939
1 Claim. (Cl. 240—103)



A device of the type described, which comprises, in combination, a restricted source of light, and a concave reflecting surface having an axis passing through said source and the concavity of which is toward said axis, said surface being limited by two parallel planes perpendicular to said axis and being so shaped as to reflect the light rays from said source in the form of a convergent beam the caustic curve of which is ahead of the front edge of said surface, said source of light being located at a point of said axis such that the cube of the ratio of the distances from said point to the edges of said surface, in an axial plane, is equal to the square of the ratio of the distances from said edges to said axis in the same plane.

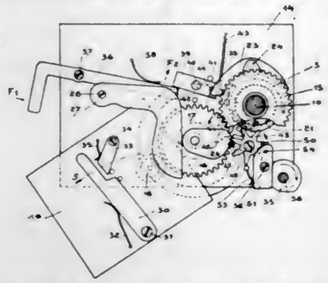
2,313,193

AUTOMATIC PHONOGRAPH

Georges Delchef, Brussels, Belgium; vested in the Alien Property Custodian

Application March 13, 1940, Serial No. 323,719
In Belgium March 23, 1939
1 Claim. (Cl. 274—10)

In a driving arrangement for a record changing device having a shaft to be rotated through a predetermined angle for each record changing operation, the combination of a continuously rotated element, a first coupling member forming part of said element, a second coupling member secured to said shaft, a spring urging said second coupling member into engagement with said first coupling member, means to disengage said second coupling member from said first coupling member when said shaft is in a first predetermined angular position, means to render said disengaging means inoperative at the end of each rendition of a record, a member adjustable to an operative position and to an inoperative position for disengaging said second coupling member from said first coupling member in an angular



position of said shaft other than said first angular position, manual control means for said disengaging member, means to render said member, after its adjustment to operative position, temporarily inoperative, and a speed reducing gear between said element and said last mentioned means for rendering said member inoperative.

2,313,194

PROCESS FOR THE REMOVAL OF SILICA FROM WATER

Sebastien Otto Alfred Fiedler and Géza Victor Austerweil, Paris, France; vested in the Alien Property Custodian

No Drawing. Application March 10, 1939, Serial No. 261,068. In France March 15, 1938
3 Claims. (Cl. 210—23)

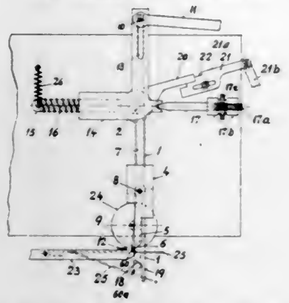
1. A process for removing silica from water, comprising contacting the water to be purified with a substance containing as active ingredient aluminate of calcium and being substantially free of silicates.

2,313,195

THREAD ISOLATING DEVICE

Svend Sigurd Christie Fleischer, Charlottenlund, and Jörgen Jensen Hansen, Ordrup, Denmark; vested in the Alien Property Custodian

Application April 3, 1941, Serial No. 386,708
In Denmark May 23, 1940
16 Claims. (Cl. 28—43)



1. In a thread isolating device for isolating single threads from a sheet of threads, the combination of an edge feeler, means for pivotally connecting the edge feeler to the frame of a conventional machine for handling the warp threads in a loom, spring means for holding the edge feeler to yielding abutment on the edge

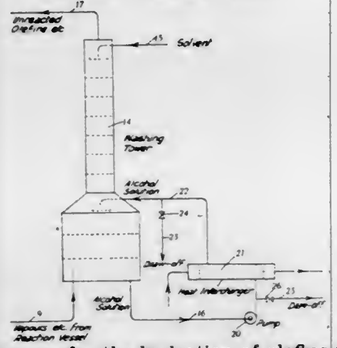
thread of the sheet of threads, selector members, means connected to the driving mechanism of the said machine for operating the selector members to movement for isolating the said edge thread, and means attached to the edge feeler for guiding the movement of the said selector members while isolating the edge thread.

2,313,196

RECOVERY OF ALCOHOLS FROM OLEFIN HYDRATION PRODUCTS

Henri Martin Guinot, Niort, France; vested in the Alien Property Custodian

Application August 15, 1939, Serial No. 290,317
In France September 7, 1938
1 Claim. (Cl. 260—643)



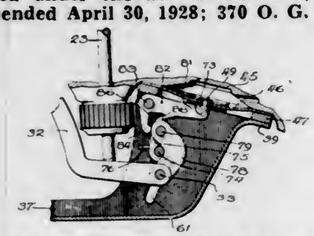
In a process for the hydration of olefins which consists essentially in passing a stream of olefin-containing gases through an acid hydrating bath, the steps of passing the mixture of vapours and gases leaving the bath through a tower in which it passes in counter-current to a solvent selected from the group consisting of water, cresols and their homologues, higher alcohols and mixtures thereof, withdrawing the solution of alcohol in the solvent used at the base of said tower, cooling said solution in a heat interchanger, returning said cooled solution to a point in the tower intermediate the mixture and solvent inlets to assist in the condensation and dissolving of the alcohol and withdrawing a proportion of the solution from the tower through the circuit in which the heat interchanger is located.

2,313,197

TOGGLE JOINT

Lowell F. Hammand, Washington, D. C.

Original application November 18, 1941, Serial No. 419,524. Divided and this application March 23, 1942, Serial No. 435,859
10 Claims. (Cl. 74—2)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A latching structure adapted to release a relatively great force in response to a force of far less magnitude comprising a toggle joint arranged to assume a critical position, said toggle including a pair of links and a connecting pivot interconnecting said links to each other, means for moving said toggle joint toward critical position, a latch mechanism to engage the toggle joint to maintain the toggle links in critical position, a toggle actuating element arranged to exert force against the toggle joint and urge the toggle joint toward released position, and means for concurrently releasing the latch and operating the toggle actuating element to unlatch the toggle joint and urge it toward released position.

2,313,198

KEY-OPENING CAN

Niels Johannes Haustrup, Tolderlundsvej, Odense, Denmark; vested in the Alien Property Custodian

Application June 20, 1939, Serial No. 280,189
In Denmark July 4, 1938
2 Claims. (Cl. 220—54)



1. A generally rectangular can having curved corners and having a top provided with a continuous weakened tear-line adjacent and following the margin of the can throughout substantially its entire length, a portion of said line which is adjacent one corner of the can being of the outline of a curved Z to form two tongues, one of which extends in one direction and the other of which extends in the opposite direction, the directions in which the tongues extend being diagonally across said corner, one tongue being permanently attached to the can and the other being an integral part of that part of the cover which is to be torn loose.

2,313,199

ROAD SURFACE, ROAD FOUNDATION, AND SIMILAR LAYERS

Geldolph A. Heyning, Velsen, Netherlands; vested in the Alien Property Custodian

No Drawing. Application June 28, 1939, Serial No. 281,603. In the Netherlands June 3, 1937
2 Claims. (Cl. 106—286)

1. A composition for road construction consisting of a mixture of blast furnace slag and of blast furnace sludge the latter being a product which is recovered by washing the furnace gases subsequent to their treatment in dry dust separators.

2,313,200

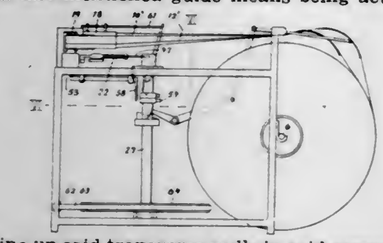
PROCESS AND APPARATUS FOR THE MANUFACTURE OF CARDBOARD BOXES FOR PACKING OF EGGS, FRUIT, AND THE LIKE

Peter Emil Vilhelm Jacobsen, Copenhagen, Denmark; vested in the Alien Property Custodian

Application April 23, 1940, Serial No. 331,131
In Denmark April 18, 1939
1 Claim. (Cl. 93—37)

In an apparatus for folding cardboard boxes and the like made of a V-bent cardboard strip in which the longitudinal side walls and transverse walls are stamped out without severing the same therefrom, an assembling box, means for introducing said V-bent strip into said assembling box, said means comprising a pair of guide rails

for holding said longitudinal walls, and separate guide means for holding said transverse walls, said last-mentioned guide means being actuated



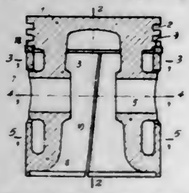
to line up said transverse walls in said assembling box, and said first-mentioned guide means being actuated to fold said longitudinal walls against the edges of said transverse walls.

2,313,201
WINDSHIELD CLEANER MECHANISM FOR VEHICLES OR VESSELS
Poul Henning Klein, Copenhagen, Denmark; vested in the Alien Property Custodian
Application March 22, 1939, Serial No. 263,484
In Denmark March 22, 1938
2 Claims. (Cl. 15—256)



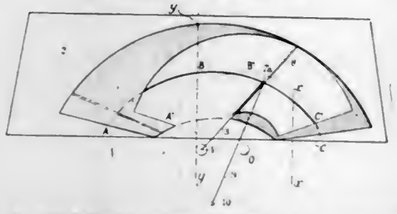
1. A wind shield wiper comprising a driven oscillatable shaft, a pair of wiper arms having wiper means for engaging opposite sides of the wind shield journaled on opposite ends of said oscillatable shaft for free rotation thereabout, and manually controllable clutch means slidable axially on said oscillatable shaft for selectively engaging one or both of said wiper arms.

2,313,202
PISTON
Charles Emile Stanislas Korytko, Paris, France; vested in the Alien Property Custodian
Application January 13, 1939, Serial No. 250,826
In France January 17, 1938
6 Claims. (Cl. 309—11)



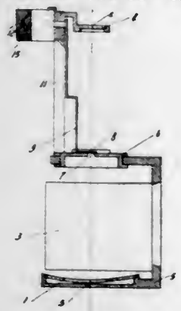
1. In a piston comprising a rigid head and a deformable skirt spaced from said head and connected thereto, said skirt being slotted, and two struts having aligned wrist-pin bores therein extending from peripheral portions of said head, each of said struts having a cross section at one end elongated circumferentially of said skirt, and being connected at its circumferentially elongated end with said skirt on the edge thereof which is remote from said head.

2,313,203
WINDSCREEN WIPER HAVING A WIDE SWEEPING ACTION
René Marais, Paris, France; vested in the Alien Property Custodian
Application December 28, 1939, Serial No. 311,434
In France December 31, 1938
3 Claims. (Cl. 15—255)



2. A windshield wiper for vehicles comprising, a rotatable driving shaft, an arm having a longitudinal slide-way therein connected to said shaft for moving in an arcuate path over the windshield, a block mounted for sliding movement only in said slide-way, a wiper-blade connected to said block and arranged in the direction of the longitudinal axis of said arm, a trunnion on said block, a stationary trunnion arranged at a point located beyond said driving shaft with respect to said arm and laterally separated from a substantially vertical plane passing through the axis of said shaft, and a rod pivotable at one end on the trunnion of said block and pivotable at the other end on said stationary trunnion.

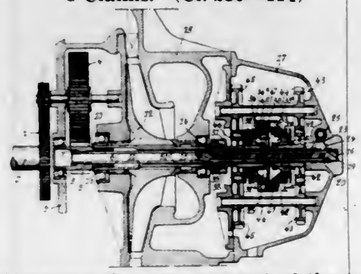
2,313,204
COLLIMATOR
Jules Morelle, Paris, France; vested in the Alien Property Custodian
Application September 12, 1939, Serial No. 294,523
In France December 12, 1938
1 Claim. (Cl. 88—2.3)



A collimator adapted to determine exactly not only a principal direction but also auxiliary directions forming substantial angles with said principal direction, comprising: a spherical concave mirror, an opaque plate able to rotate round said mirror axis, said plate being shaped as a revolution cylinder the radius of which is equal to the half of the radius of said mirror, and said cylindrical plate being disposed so that its axis passes through the center of the mirror and is perpendicular to the axis thereof, said plate being also provided with a slit the plane of which is perpendicular to its axis: a screen adapted to hide a part of said slit: a light source disposed at the center of the spherical mirror and adapted to illuminate said slit: a semitransparent glass plate so disposed between the slit and the spherical mirror that it reflects in the observer's eye the infiinitely removed luminous image of the slit partially hidden by the screen formed by the spherical concave mirror: means for displacing said screen before said slit so that its image, after reflection in the spherical mirror is seen by the observer in the desired auxiliary direction

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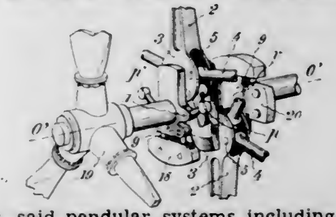
2,313,205
TWO-SPEED DRIVING MECHANISM FOR CENTRIFUGAL COMPRESSORS
Henry Charles Alexandre Potez, Meaulte, Somme, France; vested in the Alien Property Custodian
Application May 11, 1939, Serial No. 273,151
In France June 10, 1938
3 Claims. (Cl. 230—114)



1. A compression arrangement of the type described comprising a centrifugal compressor including a casing **18** and a rotor **12**, a tubular shaft **11** rotatably supported in said casing, said rotor **12** being secured to said tubular shaft **11**, a driving mechanism located on one side of said compressor and including a driving shaft **1**, a driving member **5** coaxially and rotatably mounted with relation to said tubular shaft, a speed increasing gear **2—4** connecting said driving shaft and said driving member **5** and having such a transmission ratio as to rotate said driving member **5** at one speed desired for said rotor, and separate dismountable torque transmitting means located on the opposite free end of said compressor, including an auxiliary shaft **6** or **52** coaxially and rotatably mounted within said tubular shaft, splined connecting means **7** adapted to connect as to rotation said driving member **5** with the adjacent end of said auxiliary shaft **6** or **52** and detachable coupling means **52** or **30** to **39** between said auxiliary shaft **6** or **52** and said tubular shaft adapted to connect said auxiliary shaft and said tubular shaft as to rotation.

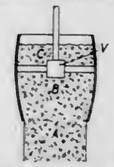
2,313,206
IMPULSE NEUTRALIZER
Raoul Roland Raymond Sarazin, Saint-Prix, France; vested in the Alien Property Custodian
Application July 17, 1939, Serial No. 284,945
In Luxemburg July 25, 1938
11 Claims. (Cl. 74—604)

1. In connection with an assembly including a rotary structure, said assembly being submitted to periodical impulses corresponding to a pulsatory force of order n directed along a radius of said rotary structure, a balancing device which comprises, in combination, two pendular systems eccentrically pivoted to said rotary structure so as to rotate therewith at the mean speed thereof and so as to be able to oscillate about axes parallel to the axis of said structure and situated on either side of the radial plane containing said



radius, said pendular systems including each a pendular mass and pendular connecting means between said mass and said rotary structure, said means being the sole force transmitting instrumentality between said mass and said structure, and the natural frequency of said pendular systems when the angular velocity of the rotary structure is Ω being substantially equal to the product of n by Ω.

2,313,207
PROCESS OF MOLDING CONCRETE STRUCTURES
Niels Rasmus Steensen, Copenhagen, Denmark; vested in the Alien Property Custodian
Application June 3, 1939, Serial No. 277,299
In Denmark June 4, 1938
2 Claims. (Cl. 25—155)

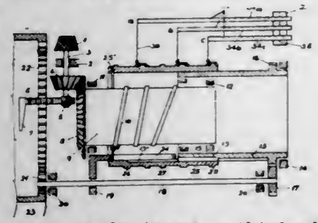


1. In the casting of vertical columnar structures formed of concrete or other castable material employing a closed vertically movable mold, the process of rapidly forming cast columnar structures which comprises the successive steps of pouring a substantial thickness of settable plastic mix into said vertical mold, applying rapid intense mechanical vibrations to said thickness of mix immediately after pouring and continuing said application of vibrations until the lower transverse layer of said thickness of said mix has been so highly compressed as to be self-supportable without lateral support by said mold but not long enough to permit setting of the binding agent of said mix, then raising said mold to expose said compressed self-supportable layer, pouring fresh plastic mix in the empty top part of the raised mold, and then repeating said vibration and process, said vibrations being applied at a point within the material constituting said thickness.

2,313,208
RANGE FINDER
Jan Steklík, Prerov, Moravia; vested in the Alien Property Custodian
Application January 26, 1940, Serial No. 315,773
In Czechoslovakia January 5, 1939
7 Claims. (Cl. 235—61.5)

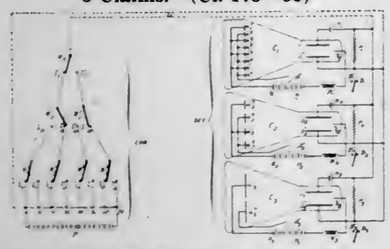
1. Range finder comprising in combination, a

plurality of individually shiftable scales for reading off the rectangular coordinates and the direct distance of the target, a device for adjusting the direct distance of the target, a member positively connected with this device, a second member adapted to be adjusted in dependency on the



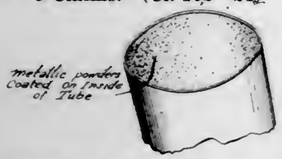
position angle of the target, a third adjustable member the adjustment of which is controlled by said other two members simultaneously, a plurality of curved controlling cam members on said third member and means for controlling the shift of said scales each in dependency on one of said curved controlling cam members.

2,313,209
COMMUNICATION SYSTEM
Georges Valensi, Paris, France; vested in the Alien Property Custodian
Application November 17, 1939, Serial No. 304,884
In France November 8, 1938
3 Claims. (Cl. 178—50)



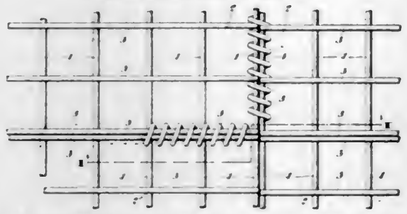
1. In a two-way two-channel telephone channel, for each channel a hybrid coil, a balancing network and a coding system for replacing the original voice-frequency wave by a series of finite amplitude levels according to the amplitude of the wave, and a decoding system for separating incoming superposed amplitude levels, and means for connecting said coding and decoding devices to the multiplex transmission line comprising a hybrid coil and the balancing network.

2,313,210
EXPLOSIVE LOAD FOR MINES
Guillaume Weber, Mondorf-les-Bains, Luxembourg; vested in the Alien Property Custodian
Application February 17, 1939, Serial No. 257,008
In Luxembourg February 18, 1938
5 Claims. (Cl. 102—24)



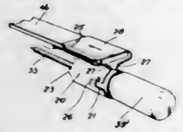
1. An explosive cartridge comprising an inner core of explosive material and an outer fibrous wrapper surrounding said core and being impregnated with at least one finely-divided, combustible metallic powder.

2,313,211
PORTABLE MAT
Wilfred Orin Aldrich, Mount Lebanon, Pa., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application November 20, 1940, Serial No. 366,481
6 Claims. (Cl. 94—4)



2. A portable mat of the class described consisting of a plurality of substantially flat open mesh sections which are adapted to be laid in the desired position with their side edges substantially abutting the side edges of the mesh sections laid to either side thereof and with their end edges substantially abutting the end edges of the mesh sections laid to either end thereof, and a preformed relatively rigid spiral fastening member arranged through the openings at both the opposed abutting side and end edges of each of the mesh sections for connecting the same together so as to provide a continuous unitary mat, each of said spiral fastening members extending along several openings in said sections so as to attach them securely together with the convolutions of each of said spiral members spaced closer together than the size of the mesh openings in said sections whereby the spiral members can be rotated into position.

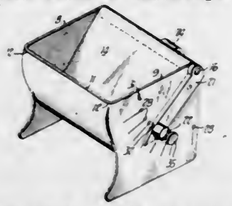
2,313,212
ELECTRICAL SOCKET
Milton Alden, Brockton, Mass.
Application November 8, 1938, Serial No. 239,424
7 Claims. (Cl. 173—328)



3. A lamp socket formed of a single strip of metal and having a resilient cylindrical lamp base receiving portion and a mounting portion, the latter portion comprising the two ends of the strip partially overlapping each other and together with parts adjacent the cylindrical portion forming a channel for receiving a supporting member, the cylindrical portion having a bayonet slot at one end for receiving the locking pin of a lamp mounted in the cylindrical portion and at the other end inwardly turned lugs, a sliding-contact-carrying disc mounted in the cylindrical portion, and a spring interposed between said lugs and said disc.

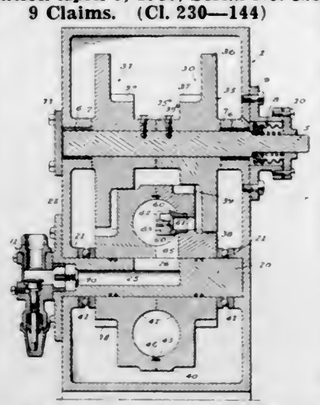
2,313,213
MEASURING DEVICE
Harry C. Atherley, San Francisco, Calif.
Application December 13, 1939, Serial No. 309,045
4 Claims. (Cl. 73—165)

1. A measuring device comprising means defining a commodity receptacle, including a substantially flat vane member fitting in said receptacle in a commodity retaining relationship during rotational movement of said vane member in said receptacle into a plurality of selected positions in which said vane member provides one side of said receptacle, shaft means positioned at one end of said vane member for supporting said vane member for said rotational movement in said receptacle from a discharge position in



which said flat vane member is substantially coplanar with the lip of said receptacle, a lever on said shaft means for rotating said vane member selectively, said lever being positioned on the outside of said receptacle, and cooperating latching means carried by said lever and said receptacle for retaining said lever in a selected position.

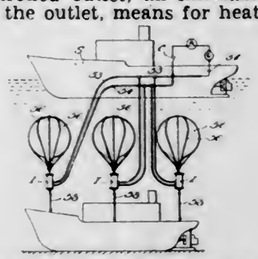
2,313,214
REFRIGERATOR COMPRESSOR
Leonhardt W. Benz, Mobile, Ala.
Application April 5, 1940, Serial No. 328,117
9 Claims. (Cl. 230—144)



1. In a rotary pump, a pair of identical relatively movable cylinder members formed and arranged completely to provide an annular cylinder chamber; a piston fixed to each movable member and operatively disposed within said cylinder chamber; means for synchronously rotating the cylinder members in the same direction at different angular speeds during one part of a revolution, at an inverse ratio of speeds still in the same direction during another part of the revolution, and at the same speed in the same direction for the balance of the revolution; and inlet and outlet means arranged to admit fluid to the cylinder chamber and to exhaust fluid inwardly therefrom in a radial direction after it has been acted upon by the pistons.

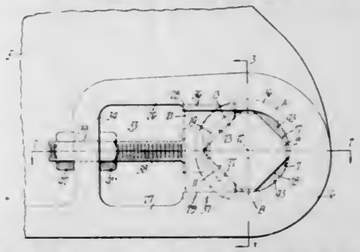
2,313,215
INFLATION APPARATUS
Frederik F. Bierlee, Depasar, Bali, Netherland India; vested in the Alien Property Custodian
Application October 20, 1941, Serial No. 415,835
7 Claims. (Cl. 114—54)

1. In apparatus for inflating buoyant bodies, an inflation fluid containing chamber having a valve controlled outlet, an inflatable body connected to the outlet, means for heating the said



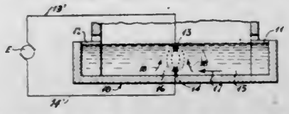
chamber and outlet, and means for successively opening the valve and rendering the heating means operative.

2,313,216
PIN LOCK
Floyd Martin Blanchard, San Francisco, Calif., assignor to Yuba Manufacturing Company, San Francisco, Calif., a corporation of California
Application December 12, 1941, Serial No. 422,667
1 Claim. (Cl. 37—191)



A pin lock for a dredge bucket having a transverse circular eye and an abutment wall comprising a pin disposed within said eye and having a chordal end portion, a threaded stem member engaging said bucket and having a central axis, and a block coacting with said stem member and having faces thereon symmetrical about said axis and adapted to abut cooperating symmetrical faces on said end portion and on said bucket.

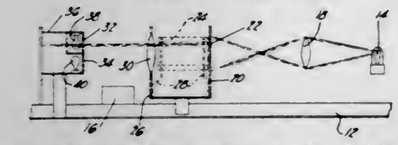
2,313,217
ELECTRIC FURNACE FOR MELTING GLASS
Edouard Virgile Borel, Romont, Switzerland, assignor to Societe Anonyme des Manufactures des Glaces & Produits Chimiques de Saint-Gobain, Chauny & Cirey, Paris, France
Original application August 10, 1937, Serial No. 158,347. Divided and this application May 22, 1940, Serial No. 336,547. In Germany August 14, 1936
10 Claims. (Cl. 13—6)



1. In a tank furnace for treating glass, wherein the materials to be treated are introduced at one end of the tank and glass in the finished state is removed from the opposite end of the tank, the combination therewith of electrodes to supply electric current to the glass mass, a combined mechanical and thermal barrier extending within the glass mass and across the direction of its flow, said barrier comprising at least one

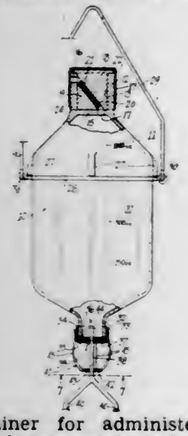
electrode completely immersed in the glass mass and extending substantially across the entire width of said flow between the points of insertion of the materials to be treated and of removal of the glass and near the bottom of the tank to obstruct a horizontal convection current flowing along the length of the furnace in the glass mass, said electrode having a surface of contact with the glass such as to set up a relatively small hot zone in the glass mass close to the electrode, said zone being substantially hotter than the glass outside of said zone to produce rising currents within the glass mass close to the barrier.

2,313,218
INSPECTION OF SURFACES
Kemper P. Brace, South Bend, and Herbert C. Waterman, Elkhart, Ind.
Application June 24, 1939, Serial No. 280,942
8 Claims. (Cl. 88—14)



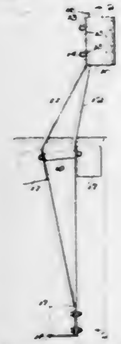
1. Apparatus for inspecting the finish of a cylindrical bore in a manufactured article, comprising means for supporting the article to permit rotation thereof about the axis of said bore, a light source placed in the prolongation of the axis of said bore, a condensing lens interposed between the article and the light source, for forming a beam consisting of diverging rays, a transverse partition placed intermediate the lens and the article, and having an opening therein for allowing a part of the light to strike a longitudinal section of the bore at an angle, and light responsive means intercepting the directly reflected light and substantially all of the diffusely reflected light.

2,313,219
FLUID DISPENSING CONTAINER
Herman E. Bulling, Brooklyn, N. Y.
Application July 16, 1940, Serial No. 345,713
3 Claims. (Cl. 128—214)



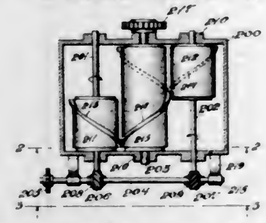
1. A container for administering medicinal fluids comprising a receptacle having upper and lower neck portions, means associated with the lower neck portion for dispensing the fluid, said upper neck portion being provided with a wall extending across the bottom thereof and having a pair of ducts, one of which communicates at one end with the atmosphere and at the opposite end with the interior of the neck portion and the other of which communicates at one end with the interior of the receptacle and at the opposite end with the interior of the neck portion, and a closure rotatably mounted in the neck portion and having a bore extending therethrough and having filtering material disposed in the bore, said closure being shiftable between closed position with the bore out of registry with the ducts and open position with the ends of the bore communicating with the ends of the ducts, whereby air can be admitted to the interior of the receptacle through the ducts and bore and will be filtered by the material in the bore.

2,313,220
HIGHWAY GUARD RAIL
Eugene V. Camp, Atlanta, Ga.
Application November 2, 1938, Serial No. 238,330
14 Claims. (Cl. 256—13.1)



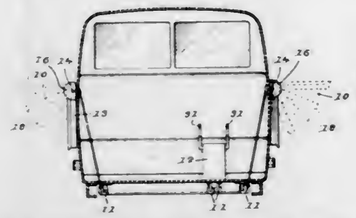
1. A traffic guard comprising a series of spaced resilient spring posts, a flexible impact member extending longitudinally of said series of posts, means for securing said impact member to each post including a spring connector secured to the post having a reentrant front face, and means for drawing said impact member into the reentrant face of said connector.

2,313,221
REVERSING MECHANISM
Nelson S. Campbell, Brookline, Mass.
Application April 9, 1941, Serial No. 387,637
In Canada September 7, 1940
5 Claims. (Cl. 74—70)



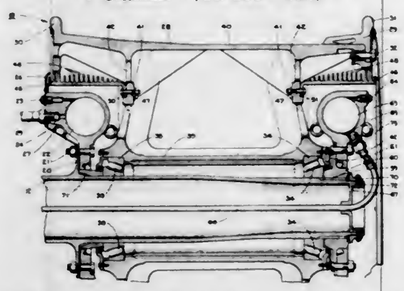
1. A mechanism for delivering rotation in opposite directions comprising a cylindrical driven member rotatably mounted on its axis and having a tooth helically disposed about its surface for substantially one revolution thereof, a pair of driving members located with one on either side of said driven member and each having a tooth helically disposed substantially one-half revolution and extending substantially half the length of the axial extent of the tooth of the driven member, said driving members being so positioned as to have their teeth alternately engage the tooth of the driven member, and means for oppositely rotating said driving members whereby the driven member will be alternately oppositely rotated.

2,313,222
AUTOMOBILE SIGNAL
Harry G. Clifton, Miami, Fla.
Application August 11, 1941, Serial No. 406,378
3 Claims. (Cl. 116—53)



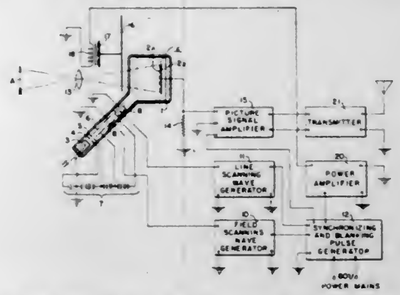
1. In a signaling device, a pair of semaphores mounted in signaling positions on a vehicle, a pair of pivotally supported levers mounted in parallel positions, means connecting the semaphores with the respective levers for operative movement of the former by the latter, means between and connecting the levers for limiting movement thereof, a pair of operating members pivotally connected to the respective levers for positioning in elevated operative arrangement and lowered inoperative arrangement, and means operative to yieldingly hold the said operating members in adjusted position.)

2,313,223
BRAKE
Frederick C. Frank, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application March 8, 1940, Serial No. 322,881
7 Claims. (Cl. 188—152)



1. In an airplane brake assembly, a stub axle, a wheel rotatably mounted on the axle, a removable brake carrier splined to the axle on its projecting end, a hydraulic brake applying motor supported by the brake carrier, a hydraulic pressure producing device, a conduit connecting the pressure producing device to the motor, said conduit passing from one side of the wheel to the other through the axle, and a valve interposed in the conduit to automatically close the conduit whenever the connection between the pressure producing device and the motor is cut off to allow removal of the brake carrier.

2,313,224
COLOR TELEVISION SYSTEM
Madison Cawein, Marion, Ind., assignor to Farnsworth Television and Radio Corporation, a corporation of Delaware
Application August 15, 1941, Serial No. 406,953
8 Claims. (Cl. 178—5.4)

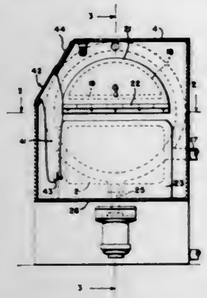


1. A system for transmitting and receiving television pictures in natural colors comprising a photosensitive member, means for projecting an optical image of the object to be transmitted on said member, means cooperating with said photosensitive member for developing picture signals representative of the light characteristics of successive elemental areas of said image in accordance with cyclically recurring scanning field patterns, first color filtering means comprising a plurality of transparent color filters disposed in the optical path between said projecting means and said photosensitive member for successively selecting different color components from the light emanating from predetermined areas of said object, thereby correspondingly to change the color of the image light incident upon said photosensitive member, means for transmitting said picture signals, means for receiving said picture signals, means for reproducing the television picture in substantially white light in accordance with the received picture signals, second color filtering means disposed between said picture of white light and an observer, said second color filtering means comprising a plurality of transparent color filters and being adapted successively to select from said image of white light predetermined color components differing from those selected by said first color filtering means in such manner that the light of elemental areas of the reproduced image apparent to said observer is of substantially the same color as the color of corresponding elemental areas of the object under transmission.

2,313,225
DRY CLEANING MACHINE
Ernest Davis, Syracuse, N. Y., assignor to The Prosperity Company, Inc., Syracuse, N. Y., a corporation of New York
Application November 8, 1940. Serial No. 364,915
3 Claims. (Cl. 68—3)

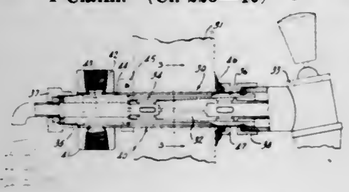
1. In an apparatus for cleansing articles with a volatile fluid comprising machines in which the articles are subjected to different treatments, a gas tight cabinet enclosing the machines, a partition therein dividing the cabinet into compartments in which the machines are respectively located, one of such machines comprising a container movable about an axis and having a door opening, and a door therefor, on the side thereof adjacent the partition, and the partition having a door opening and a door therefor, the door of the container being openable through the door

opening of the partition into a position to bridge the gap between the container and the partition and the door in the partition being openable into a position to bridge the space between the partition and the machine in the next compartment, whereby the two doors form a chute over which the articles may be passed between the machines.



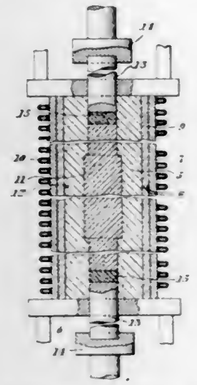
3. In an apparatus for treating articles with a volatile fluid comprising a washing machine, an extractor, and a defuming and drying machine, a gas tight cabinet enclosing the machines, and means by which the articles may be transferred by hand from one machine to another, while the cabinet is completely closed to the outlet of fumes and gases therefrom and the inlet of outer air, said means comprising a pair of flexible sleeves, each for receiving the operator's arm located in the cabinet, the sleeves being spaced apart and located between the washing machine and the extractor and between the extractor and the defuming machine, each sleeve being closed at its inner end and opening at its outer end through a wall of the cabinet and being secured and sealed at its outer end to said wall around the opening, and a transparent window located between the sleeves through which the operations and manipulations of the articles are visible to the operator.

2,313,226
DISPENSER FOR CARBONATED BEVERAGES
Carl L. Daun, Milwaukee, Wis.
Application November 22, 1940, Serial No. 366,587
1 Claim. (Cl. 225—40)



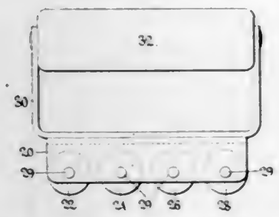
A beverage dispenser comprising a beverage tube, enlarged end portions on said tube, external threads on said end portions providing means for coupling said tube to a faucet and a tap rod, one end of said tube being interiorly enlarged to form a portion of a flow restrictor, an annular jacket surrounding said tube and having its ends overlapping and hermetically sealed to said enlarged end portions, said jacket coacting with said tube to define a passage-way through which a cooling medium may be circulated, inlet and outlet fittings angularly spaced and provided on the jacket adjacent one end thereof, and angularly spaced baffle partitions extending longitudinally of said tube and jacket and extending between the outer periphery of the tube and the inner periphery of the jacket, said partitions being located intermediate said inlet and outlet fittings and extending from one enlarged end portion to a point adjacent to but spaced from the other enlarged end portion.

2,313,227
ROLL FOR METAL-ROLLING MILLS
Jean Hubert Louis De Bats, East Orange, N. J., assignor, by mesne assignments, to Metal Carbides Corporation, Youngstown, Ohio, a corporation of Ohio
Application August 4, 1938, Serial No. 223,056
12 Claims. (Cl. 80—58)



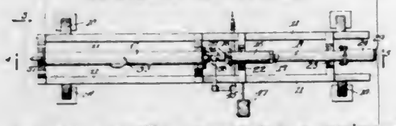
1. A roll for a metal rolling mill, said roll made of a cemented composition containing a substantial amount of hard metal carbide.

2,313,228
SHEET MATERIAL FASTENING TOOL
Julius J. Domonkos, Kenmore, N. Y., assignor to Bell Aircraft Corporation, Buffalo, N. Y.
Application October 7, 1940, Serial No. 360,002
3 Claims. (Cl. 81—15)



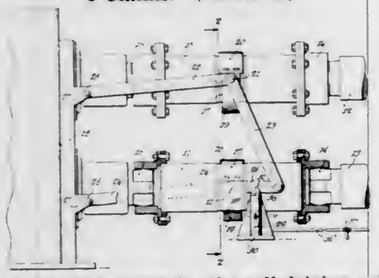
3. A hand tool comprising an elongate channeled holder, handle means secured to the web thereof, and a plurality of aligned rollers rotatably supported between the flanges of said channel and having peripheral portions projecting therefrom, the periphery of the roller at one end of said holder being of relatively concave cross sectional contour and the periphery of the roller at the other end of said holder being of relatively flat cross sectional contour, the intermediate rollers being of peripheral cross sectional contours grading progressively between said concave periphery and said flat periphery.

2,313,229
METHOD AND APPARATUS FOR STUFFING MEATS INTO CASINGS
John E. Dyrek, Chicago, Ill., assignor to Armour and Company, Chicago, Ill., a corporation of Illinois
Application July 12, 1940, Serial No. 345,039
13 Claims. (Cl. 17—35)



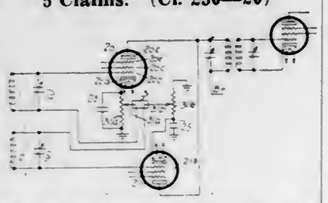
1. In casing stuffing apparatus, a casing support, means for stuffing the casing, means for subjecting the interior of said casing to suction during said stuffing operation, and guard means for preventing the removal of meat from said casing by said suction.

2,313,230
ROLLING MILL SPINDLE SUPPORT
Louis W. Falk, Milwaukee, Wis., assignor to The Falk Corporation, Milwaukee, Wis., a corporation of Wisconsin
Application March 18, 1940, Serial No. 324,555
5 Claims. (Cl. 64—6)



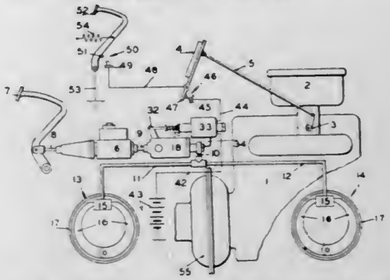
1. A steady support for the roll driving spindles of a rolling mill, comprising the combination of a separate supporting element for each spindle, and unitary supporting means for said elements, including a floating member for sustaining the loads on said elements while permitting free relative movement therebetween in accordance with spindle movements.

2,313,231
DIRECTIONAL RADIO RECEIVER
Henry C. Forbes, Eggertsville, N. Y., assignor to Colonial Radio Corporation, Buffalo, N. Y.
Original application August 28, 1940, Serial No. 354,539. Divided and this application September 24, 1941, Serial No. 412,141
5 Claims. (Cl. 250—20)



1. A radio receiver comprising, in combination, a housing, a pair of vacuum tubes within said housing, each of said tubes having a cathode and a control electrode, said tubes having a common output circuit, a pair of loops mounted fixedly within said housing at angles to each other, a pair of impedances connected between said cathodes and a common terminal respectively, a connection from the free terminal of one of said loops to the control electrode of one of said tubes, a connection from the free terminal of the other of said loops to the control electrode of the other tube, and means for connecting the grid return side of said loops to said impedances respectively, said means serving to vary the said impedances between loops and said common terminal in an inverse manner.

2,313,232
BRAKE CONTROL MECHANISM
Walter R. Freeman, Clayton, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware
Application August 4, 1940, Serial No. 351,419
3 Claims. (Cl. 192—3)



1. In a motor vehicle provided with a control member having a released "off" position employable coincidental with bringing the vehicle to a stop and an "on" position employable in moving the vehicle and with a fluid pressure-actuated braking system, a valve associated with the braking system for preventing release of the brakes from applied position, means including a solenoid for causing said valve to be closed when said solenoid is energized, an electrical circuit for said solenoid including two switches connected in series in the circuit, one of said switches being associated with the vehicle control member so as to be closed when the control member is in "off" position and automatically opened when said control member is operated to the "on" position, means for normally biasing the other switch open, and manual means independent of the braking system for closing the other switch at will, the closing and opening of said other switch having no effect on the operation of the prime mover of the vehicle.

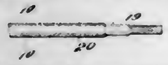
2,313,233
PREPARATION OF BUTADIENE COPOLYMERS
Charles F. Fryling, Silver Lake, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application June 26, 1941, Serial No. 399,940
16 Claims. (Cl. 260—84)

1. In a process of polymerizing a monomeric mixture containing a butadiene compound and at least one other unsaturated compound which contains a



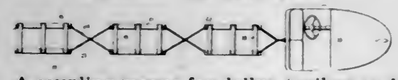
group and is copolymerizable therewith, the step which comprises adding a diazo amino aryl compound to the monomeric mixture before polymerization.

2,313,234
TINSEL CORD
Lester E. Gavitt, Brookfield, Mass., assignor to Gavitt Manufacturing Company, a corporation of Massachusetts
Application September 14, 1940, Serial No. 356,762
3 Claims. (Cl. 174—120)



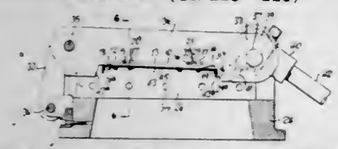
1. A hearing aid cord comprising a plurality of twisted tinsel strands embedded in an over all covering of polymerized chloroprene with a covering of fabricated strands of a polyamide obtained by condensation polymerization from diamine and dibasic carboxylic acid, said covering being coated with a wax film.

2,313,235
COUPLING MEANS FOR DOLLYS, TRAILERS, AND THE LIKE
Collins Denny Grove, Joliette, Quebec, Canada
Application May 6, 1940, Serial No. 333,468
2 Claims. (Cl. 280—33.2)



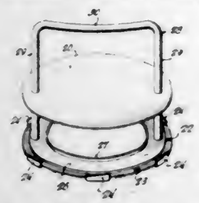
1. A coupling means for dollys, trailers and the like, comprising a plurality of dollys having running gear, a pair of criss-crossing members having elongated slots therein and a common fastening member engaging with the elongated slots of said coupling members and adapted to form a floating pivot during the movements of said coupling members in the steering and pulling of the adjacent dollys.

2,313,236
PROCESS OF MANUFACTURING SHIELDS
Fred Himmel and Isidore Himmel, New Haven, Conn., assignors to The Himmel Brothers Company, Hamden, Conn., a corporation of Connecticut
Application June 25, 1941, Serial No. 399,744
2 Claims. (Cl. 113—116)



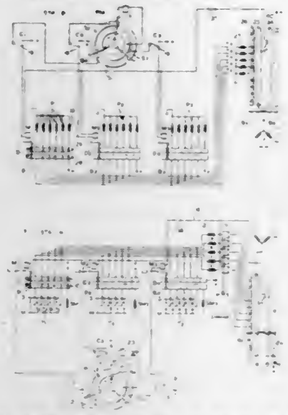
1. The process of manufacturing shields from strip-sheet material having a main face-portion and one or more longitudinal channels each having a back-portion spaced back from the general plane of said main face-portion and having its opposite longitudinal edge-portions extending transversely of said main face-portion, comprising: supporting said main face-portion and said longitudinal edge-portions of said strip against a support which has cutting-edge means transversely spanning said channels; moving an elongated cutter having a cutting-edge adapted to cooperate with said cutting-edge means in the general plane of said cutter in a direction toward said support and thereby crushing down portions of said back-portions adjacent said cutter and closing the ends of said channels and cutting said main face-portion; moving said cutter in its general plane in a direction transverse to said first-mentioned direction of movement and thereby cutting one of said longitudinal edge-portions; and moving said cutter in its general plane in a direction generally opposite to said second-mentioned direction of movement and thereby cutting the other of said longitudinal edge-portions; thus severing a shield from said strip.

2,313,237
FILTERING STRAINER
Louis J. Hois, Milwaukee, Wis., assignor to Geuder, Paeschke & Frey Co., Milwaukee, Wis., a corporation of Wisconsin
Application March 29, 1941, Serial No. 385,821
7 Claims. (Cl. 210—159)



1. A filtering strainer of the character described comprising a bowl having a reduced cylindrical extension at its lower end, a perforated plate extending across the outlet end of said extension, a filtering pad on said plate, a combined clamping and imperforate splash ring fittable in the extension and holding the filtering pad against said perforated plate, interengageable locking means on the extension and ring for releasably securing the ring in clamping engagement with the pad, an imperforate baffle plate of circular form disposed at the juncture of the bowl and said extension and having an outside diameter just slightly less than the inside diameter of the extension to define a drainage groove between its outer peripheral edge and the inner peripheral wall of the extension, said combined clamping and splash ring underlying said drainage groove, and means connecting said ring and said baffle plate in spaced relation and also facilitating the handling of the ring and baffle plate as a unit.

2,313,238
MULTICHANNEL TELEGRAPH SYSTEM
Philo Holcomb, Jr., New York, N. Y., assignor to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application April 13, 1933, Serial No. 666,004
107 Claims. (Cl. 178—52)



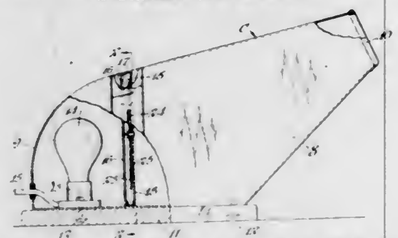
78. In a telegraph system, a lane of traffic capable of transmitting only a single signal at a time, a plurality of transmitters associated therewith, means including a sequencing device for operating a variable number of said transmitters at different times and dividing the entire lane time between the operating transmitters and means at the receiving end of the lane of traffic for separating and separately recording the signals from the respective transmitters.

2,313,239
PUMP
Erwin C. Horton, Hamburg, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.
Application January 16, 1939, Serial No. 251,159
12 Claims. (Cl. 103—4)



1. A pump having a compartment with opposed contact surfaces in its sides between opposed end chambers, a rotary piston having its periphery constantly bearing on the surfaces to seal the two chambers one from the other, means eccentrically mounting the piston for movement of its periphery to ensmall and enlarge the two chambers in succession for fluid displacing action therein, means for rotating the piston, inlet and outlet means for the chambers, a transfer passage through the piston from the chamber ensmalling side to the chamber enlarging side thereof for by-passing excessive displacement from both chambers in succession, said transfer passage having greater capacity than the outlet means and acting to transfer fluid back and forth between the two chambers, and valve means for regulating the transfer of fluid through said passage to determine a maximum pressure on the pump output.

2,313,240
OPHTHALMIC APPARATUS
Alfred William Hubbard, Stillwater, Minn., assignor of one-half to Joseph C. N. Rowell, and one-half to Theodore H. Rowell, Bandette, Minn.
Application July 3, 1940, Serial No. 343,769
2 Claims. (Cl. 88—20)



1. In an ophthalmic device, a casing, a light source positioned within said casing, an eye piece in a portion of said casing spaced from said light source, a removable partition across the interior of said casing between said light source and said eye piece, said partition having a pair of closely spaced apertures therethrough, an element having a portion of graduated opacity movable relative to one of said partition apertures between said aperture and said light source, said element having another portion of substantially constant translucency movable past the other aperture in said partition, said last mentioned aperture being relatively small and defining, with said portion of constant translucency exposed thereby, an eye fixation point.

2,313,241
PROCESS FOR THE CRACKING OF OILS
Alfred Claude Jessup, Clamart, France, assignor to Charles Weizmann, London, England
No Drawing. Application November 16, 1939, Serial No. 304,860. In France December 5, 1938
2 Claims. (Cl. 196—52)

1. A process of cracking an oil material which comprises subjecting such oil material to the action of hydrogen gas introduced as such, under a pressure of several atmospheres, while in the presence of freshly reduced iron while in a copper apparatus, at a temperature of about 380° C., until the sulfur content of the oil is substantially lowered, and until a substantial amount of low boiling hydrocarbons have been produced.

2,313,242
SHOCK STRUT
Carl V. Johnson, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application October 30, 1940, Serial No. 363,468
11 Claims. (Cl. 267—64)



1. In a shock strut having a hydraulic jack, a shock absorbing unit comprising two telescoping members, said members having a filler tube by which liquid is supplied and a hollow metering pin in association therewith by which displaced gas may escape.

2,313,243
ELEVATOR LINK
Glenn D. Johnson, Compton, Calif., assignor to Baash-Ross Tool Company, Los Angeles, Calif., a corporation of California
Application October 9, 1940, Serial No. 360,416
13 Claims. (Cl. 214—1)

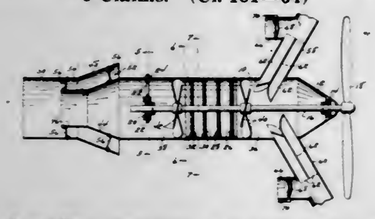
1. In apparatus for handling pipe or casing which is racked in a well derrick, the combination of, hoist means operable in the derrick, an

elevator for engaging and suspending the pipe or casing, and connectors for suspending the elevator from the hoist means, each connector including an upper section carried by the hoist means, a lower section for carrying the elevator, means for connecting the lower section with the upper section to swing about a generally hori-



zontal axis, and counterbalance means for swinging the lower section out of alignment with the upper section, the counterbalance means of the two connectors being operable to swing the elevator out of line with the hoist means and upper sections to a position where it is readily engaged with the racked pipe or casing.

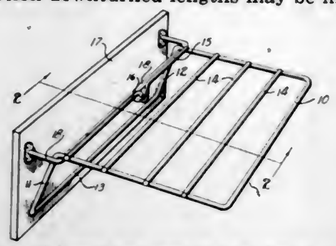
2,313,244
MUFFLER
William C. Jones, El Paso, Tex.
Application December 16, 1941, Serial No. 423,246
8 Claims. (Cl. 181—64)



1. A muffler comprising a housing open at one end and provided with an exhaust inlet at its other end, baffle means inside said housing dividing the latter into an exhaust receiving chamber and an exhaust outlet chamber at the open end of the housing, a drive shaft, a fan secured to said shaft inside said exhaust receiving chamber to blow the exhaust gases through said baffle means, and a fan secured to said shaft inside said delivery chamber to blow exhaust gases from the housing.

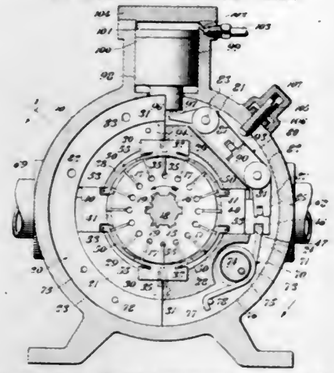
2,313,245
TOWEL BAR EXTENSIONS
Frank T. Kent, Hope, Ind.
Application April 21, 1941, Serial No. 389,481
9 Claims. (Cl. 211—104)

5. For mounting on a towel rack bar fixed to and extending in parallel relation from a wall, a removable drying rack comprising a continuous frame wire formed to have a front portion, from the ends of which extend rearwardly, substantially parallel side portions, rear lengths of which side portions are respectively downturned at an angle thereto at the forward side exceeding ninety degrees, and having, from the lower rear ends of these downturned portions, an interconnecting wire portion substantially parallel to said front portion; and spaced apart cross wires fixed to said side portions; whereby said side portion downturned lengths may be inserted



between said towel bar and the wall to have said interconnecting wire portion bear against the wall and have the side portions fulcrum over the bar at their junctures with the downturned lengths to have the major part of the drying rack extend substantially horizontally from over the top side of the towel bar.

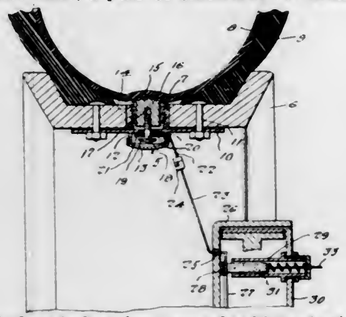
2,313,246
FLUID PRESSURE DEVICE
Charles M. Kendrick and Ivan A. Kazine, New York, N. Y., assignors to Manly Corporation, Washington, D. C., a corporation of Delaware
Application May 31, 1941, Serial No. 395,950
31 Claims. (Cl. 103—120)



1. In a rotary fluid pressure device of variable capacity, a rotor, a plurality of vanes movable inwardly and outwardly of the rotor, a trackway for the vanes comprising a stationary track element, a track element movable to vary simultaneously the capacity of the device and the length of the trackway and a link member arranged to connect said track elements in all positions of said movable track element, said link member having a pivotal mounting disposed near the end thereof adjacent the movable track element and having an extensible connection with said stationary track element, the entire vane-contacting surface of said link member being of fixed contour, and means for moving said movable track element.

2,313,247
TIRE PRESSURE INDICATING MEANS
Cecil J. Krow, Ralston, Okla.
Application May 21, 1941, Serial No. 394,479
8 Claims. (Cl. 200—58)

1. A pressure responsive switch for rim mounted tires having inner tubes, said switch including a resilient expansible bellows, a supporting member secured to one end of said bellows and closing the same, a closure for the other end of the bellows whereby said bellows, said member and said closure define an entirely closed chamber, said supporting member being adapted to be secured to a tire rim with the bellows projecting through the rim and with said closure engaging the inner tube, a pair of electrical contacts with-

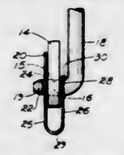


in said closed chamber, one of said contacts being carried by said supporting member and the other by said other end of the bellows, one of said contacts being insulated from the rim and the other being electrically connected thereto, said contacts being adapted to engage on increase in length of said bellows, and means projecting from said closed space and adapted on manipulation to adjust one of said contacts with respect to its support.

2,313,248
SULPHUR CONTAINING LUBRICANT
Bert H. Lincoln, Waldo L. Steiner, and Gordon D. Byrkit, Ponca City, Okla., assignors, by mesne assignments, to The Lubri-Zol Development Corporation, Cleveland, Ohio, a corporation of Delaware
No Drawing. Application January 12, 1940, Serial No. 313,604
5 Claims. (Cl. 252—48)

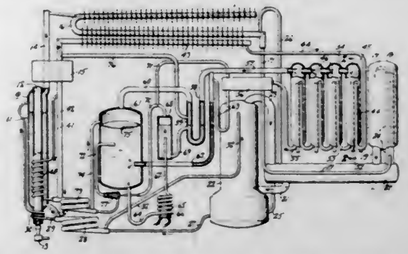
1. A lubricant comprising a major proportion of an oil of lubricating viscosity and a minor proportion of a chlorine bearing relatively pure, sulphurized olefin having a sulphur content between 5 per cent and 18 per cent.

2,313,249
LOCKING CLIP
George P. Lum, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application October 4, 1940, Serial No. 359,647
9 Claims. (Cl. 287—93)



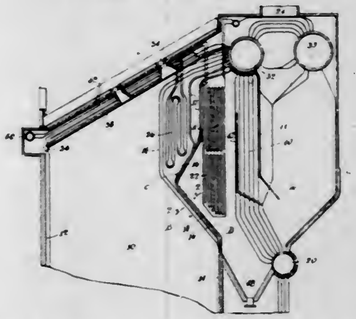
7. In combination, an annularly grooved rod, a lever pivoted on the annularly grooved rod, and a U-shaped fastening device formed of a length of wire of relatively small cross-section and straddling the lever, at least a portion of one arm of the U-shaped device being formed into a hairpin-like clip adapted to engage the groove and secure the fastener on the rod.

2,313,250
REFRIGERATION
Erik Sigfrid Lynger, Stockholm, Sweden, assignor, by mesne assignments, to Servel, Inc., New York, N. Y., a corporation of Delaware
Application November 15, 1939, Serial No. 304,507
15 Claims. (Cl. 62—118)



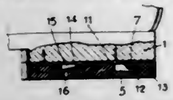
5. An intermittent absorption refrigerating system including an absorber, an evaporator, a conduit connecting the vapor space of said evaporator and said absorber below the liquid level therein, a conduit connecting the vapor space of said evaporator and the vapor space of said absorber, the last mentioned conduit being arranged to have a trap, and means for introducing liquid into and withdrawing liquid from said last mentioned conduit to seal and unseal said trap.

2,313,251
ASH DEFLECTING BAFFLE
Leonard J. Marshall, Tenafly, N. J., assignor to Combustion Engineering Company, Inc., New York, N. Y.
Application May 8, 1941, Serial No. 392,425
6 Claims. (Cl. 122—336)



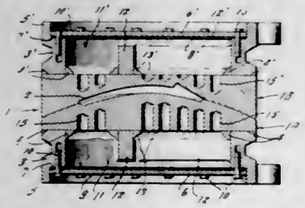
5. In a steam generator having a furnace wherein a slag forming fuel is burned; a furnace wall lined with water cooled tubes; means connecting said tubes into the circulation of the steam generator; means forming a furnace outlet gas pass above said wall; means forming a second downflow gas pass beyond said outlet with respect to the gas flow from the furnace; a superheater in two sections subject to the gas flow from said furnace, one section being located in said outlet pass and the other in said second pass, at least some of said wall tubes extending upwardly and inclined first toward the furnace below said superheater section in said second pass and then inclined away from the furnace below the superheater section in said outlet pass; baffle means associated with said wall tube extensions to form the bottoms of the respective gas passes; and means at the bottom of the second pass for receiving ash.

2,313,252
DETACHABLE FOOTWEAR PAD
Carl Mayer and Edith Mayer, Hampstead, London, England
Application September 7, 1940, Serial No. 355,844
In Great Britain December 7, 1939
1 Claim. (Cl. 36—36)



Means for mounting detachable resilient heel and sole pads on footwear having a non-recessed attaching face, comprising a plate of less dimensions than the contour of the portion of the shoe to which it is attached, said plate having a pair of rearwardly extending offset hooks at one end and a single rearwardly extending hook at the other end and disposed in a longitudinal plane extending between said pair of hooks, and also having an integral spring locking tongue struck out from the body, said tongue presenting a relatively wide free locking edge of the same vertical depth as the thickness of the metal plate from which it is formed, a pad having undercut pockets for receiving said hooks and also having a recess for receiving said tongue, one wall of said recess forming an abutment for the wide free locking edge of the said tongue, and said pad having a slot at the location of the tongue recess to render said tongue accessible to a tool inserted therein from the outer face of the pad to enable the said free edge of the tongue to be moved out of locking engagement with the wall of the recess and into the space in the plate caused by its formation so that the tongue in fully unlocked position will lie flush between the opposite faces of the plate and permit ready disengagement of the hooks from the undercut recesses, said pad having the inner marginal portion of the pad flushly engaging the portion of the said attaching face to conceal the edges of the plate.

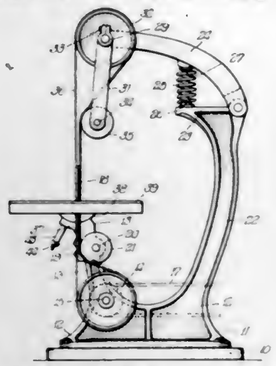
2,313,253
METALLIC MOLD
Henry E. McWane, Lynchburg, Va.
Application October 1, 1941, Serial No. 413,214
6 Claims. (Cl. 22—136)



1. A permanent metal mold comprising a ductile mold face, a peripheral backing member attached thereto, transverse ribs connected to the sides of said peripheral backing member, said backing member and ribs preventing warpage of the mold face during the casting operation and a cover plate attached to the peripheral member for forming a water jacket for the mold.

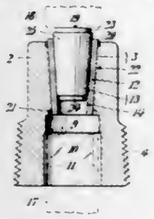
2,313,254
SANDING DEVICE
Theodore E. Mead, Chicago, Ill.
Application April 2, 1941, Serial No. 386,419
8 Claims. (Cl. 51—135)

6. In apparatus of the class set forth, a base, a bracket carried thereby, a standard on said base, aligned pulleys carried by said bracket and said standard, a work-effecting belt on said pulleys, a work-holder supported adjacent said belt and provided with a slot receiving the same,



means for adjusting the position of said work-holder, and means for engaging the belt on opposite sides of the work-holder and between the pulleys to bring parallel portions of said belt into closely adjacent back-to-back relation with each other.

2,313,255
DROP PLUG
Robert N. Miller, Rosemont, Pa., assignor to The Pennsylvania Railroad Company, Philadelphia, Pa., a corporation of Pennsylvania
Original application March 1, 1941, Serial No. 381,272. Divided and this application October 12, 1942, Serial No. 461,693
2 Claims. (Cl. 122—504.3)

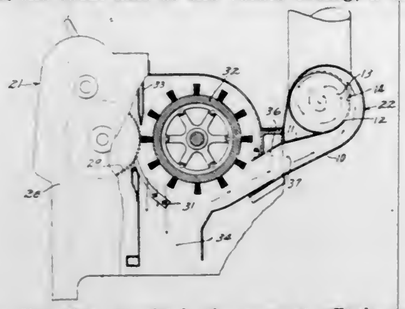


1. In a drop plug, a body component including a cylindrical portion having an inwardly converging bore intermediate spaced annular recesses; a releasable closure member having end reductions defining surrounding recesses for confronting disposition relative to the annular recesses in the cylindrical portion bore; and a fusible material plain bushing intermediate the cylindrical portion bore and the closure member with its ends laterally expanded into the intervals jointly defined by the annular recesses in the body and closure.

2,313,256
FLUID DISTRIBUTION AND COLLECTION SYSTEM
George C. Morgan, Birmingham, Ala., assignor to Continental Gin Company, a corporation of Delaware
Application August 11, 1941, Serial No. 406,427
5 Claims. (Cl. 19—72)

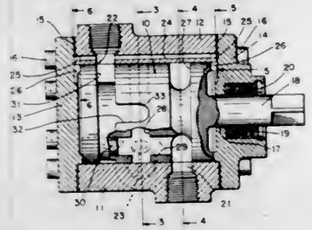
1. In a pneumatic lint collecting system, a plurality of gins, a volute lint collecting casing to receive the lint-laden air from each gin, said

casing having a tangential opening extending across and connected to the rear of the gin, an offtake conduit connected to one end of each volute casing and having its long axis coincident with the focal axis of the volute casing, a com-



mon lint flue to which the several offtake conduits are connected, means to effect a flow of the lint bearing air from the offtake conduits into the lint flue, and a common means for separating the lint and air from all the gins.

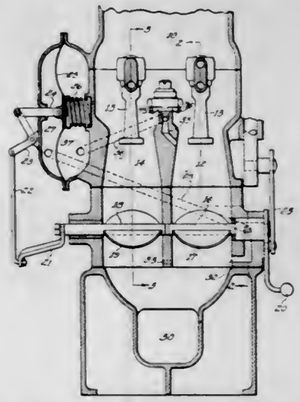
2,313,257
VALVE
Karl O. Nelson, Milwaukee, Wis., assignor of one-half to Henry J. Nunnemacher, Milwaukee, Wis.
Application May 5, 1941, Serial No. 391,915
1 Claim. (Cl. 251—98)



In a valve, the combination of a casing provided with a straight cylindrical bore, a cylindrical valve closely fitting said bore and having rotary movement only relative thereto, said casing having an inlet port, a port for the work to be controlled and an exhaust port, said ports in said casing being spaced lengthwise along the casing, said valve having an annular port in registry with said inlet port in any position of the valve and acting to hydraulically balance the valve against any tendency of the pressure fluid to move the valve lengthwise and having a diametrically extending port connected to said annular port and alineable with said port for the work to be controlled and acting to hydraulically balance the valve against any tendency of the pressure fluid to move the valve laterally, said ports in said valve serving to connect said inlet port with the port for the work to be controlled on the rotation of said valve to a selected position, said valve also having a port in its outer surface extending axially and lengthwise thereof to connect the port for the work to be controlled with said exhaust port.

2,313,258
TWO-STAGE CARBURETOR
Elmer Olson, Detroit, Mich., assignor to George M. Holley and Earl Holley
Application April 27, 1942, Serial No. 440,674
3 Claims. (Cl. 261—23)

1. In a carburetor having a primary stage and a secondary stage, each having a Venturi mixing chamber, a fuel nozzle in each venturi, a mixture outlet for each mixing chamber, a throttle in each mixture outlet, each controlling the flow through one of said venturis, manual means for opening and closing the throttle of the first stage, automatically controlled means for opening and closing the throttle of the second stage, said automatic means comprising a chamber, a moving wall therein dividing said chamber into two parts, a passage connecting one part with the suction in the throat of the venturi of the first stage so as to reduce the volume of said part by the moving of said wall, yieldable means opposing said movement, a valve controlled by said manual throttle, a suction passage connecting said valve with the other part of the chamber, a passage in said valve, a valve seat, a part therein, said port communicating with the mixture outlet on the engine side of the throttle,

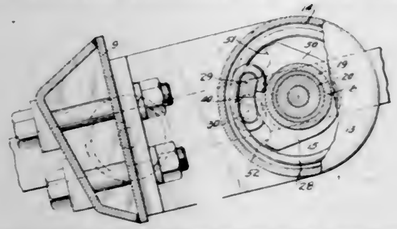


the passage in said valve being adapted to place the mixture outlet in communication with said suction passage to supplement said yieldable means in opposing said movement of said wall, a second port in said valve seat, said port and valve being adapted to admit atmospheric pressure through said suction passage to said chamber when said manually operated throttle approaches the wide open position, said atmospheric pressure cooperating with the suction in the throat of the first stage venturi, linkage connecting said moving wall with said throttle of said second stage whereby the secondary throttle is held shut by the suction in the mixture outlet, when the manually controlled throttle is shut and is automatically opened by the suction in the venturi of the first stage when the manually operated throttle approaches the wide open position and when the engine runs above the speed required to create a predetermined suction in the venturi of the primary stage.

2,313,259
FLIGHT ATTACHMENT
Carl C. Ottoson, West Brighton, Staten Island, N. Y.
Application January 17, 1942, Serial No. 427,107
6 Claims. (Cl. 198—175)

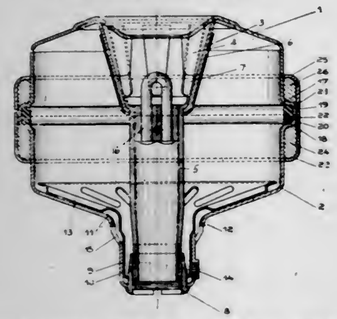
1. In a flight mounting, a pair of relatively rotatable members rotatably secured together, spring means for urging said relatively rotatable members in one direction relatively to each other, abutment means on each of said members, and a limit stop member independent of said abutments

and having spaced abutments engageable by said first mentioned abutments for limiting relative



movement of said relatively rotatable members in the opposite direction.

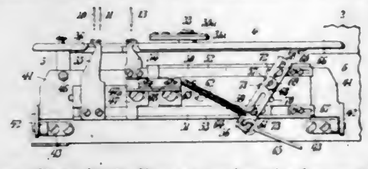
2,313,260
CREAM SEPARATOR
Jules Persoons and Alphonse Persoons, Thildonck, Belguim; vested in the Alien Property Custodian
Application July 29, 1939, Serial No. 287,300
In Belgium August 5, 1938
2 Claims. (Cl. 233—27)



1. In a cream separator, a sheet metal drum, comprising a body part having an outwardly flared upper rim portion terminating in a substantially cylindrical rim portion, and a cover part resting on and being secured to said body part, said cover part having an outwardly flared lower rim portion terminating in a substantially cylindrical rim portion, the free edges of said cylindrical rim portions fitting against one another to form with said flared rim portions an inwardly open annular groove of substantially trough-shaped cross-section, the substantially horizontal wall portions of said groove joining the vertical walls of said body portion and cover portion, respectively, along rounded peripheral edges, said groove having an axial height exceeding its radial depth and being provided with a split along its circumference, and an annular gasket of elastic material disposed in said groove and having a flat surface to be pressed against said cylindrical rim portions and said split by the centrifugal force when the separator is running.

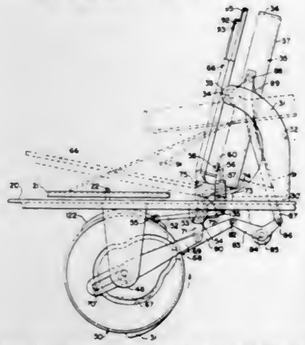
2,313,261
OVERALL BANDING MACHINE
John Podgorny, Harvey, Ill., assignor to Union Special Machine Company, Chicago, Ill., a corporation of Illinois
Application November 24, 1939, Serial No. 305,831
12 Claims. (Cl. 112—152)

1. In a sewing machine, a base having a work support at its top; a pair of laterally spaced needles movable up and down relative to the work support; a guide to direct strip material with folds along its side edges to the region of stitch formation for penetration of the folds by the needles respectively; and strip control mechanism for contracting the strip laterally, when desirable, to prevent penetration of its folds by



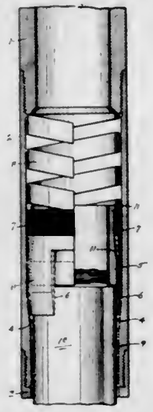
the needles, including a pair of elements configured to envelop and thereby definitely maintain the edge folds of the strip, means confining said elements to straight line movement at right angles to the direction of feeding, and means for moving said elements toward each other to contract the strip.

2,313,262
AUTOMATIC RECORD-CHANGING APPARATUS
Jackson II. Pressley, Marion, Ind., assignor to Farnsworth Television and Radio Corporation, a corporation of Delaware
Application January 22, 1941, Serial No. 375,389
9 Claims. (Cl. 274—10)



7. In an automatic phonograph having a turntable, the combination comprising a driving means for carrying out a record-changing cycle and a record-reversing cycle; first and second guiding means on said driving means; a movable magazine for supporting a plurality of records, said magazine being movable a first distance during said record-changing cycle and a second distance during said record-reversing cycle; connecting means operatively associated with said magazine; a member connected to said connecting means for engaging said first guiding means to move said magazine said first distance and for engaging said second guiding means to move said magazine said second distance, said member being movable between each of said movements of said magazine for changing its engagement with said first and second guiding means; a switching element on said driving means and associated with said first and second guiding means for moving said member during each cycle of operation of said driving means for changing the engagement of said member with said first and second guiding means; record-releasing means movable by said driving means for releasing a record from said magazine, said record-releasing means being adapted to be moved out of operative position with said driving means; an oscillatory member movable by said driving means for guiding a record during said record-changing cycle and said record-reversing cycle; record-reversing means movable into an operative position for cooperating with said magazine and said oscillatory member for reversing a record on said turntable; resilient means associated with said driving means for moving said record-reversing means into its operative position and for moving said record-releasing means out of operative position with said driving means; and locking means normally in locking engagement with said resilient means, said locking means being adapted to be moved out of said locking engagement by said member as it is moved out of engagement with said first guiding means and into engagement with said second guiding means.

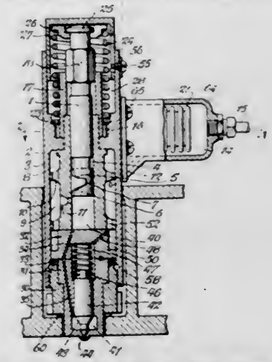
2,313,263
OVERSHOT FISHING TOOL
Philip M. Rea, Oklahoma City, Okla.
Application May 24, 1941, Serial No. 395,049
4 Claims. (Cl. 294—102)



1. In an overshot fishing tool, the combination with a rigidly constructed hollow housing or bowl having a tapered slip seat formed therein, segmental pipe slips within the bowl and seated upon said slip seat, and with a resilient annular packing element in said bowl and resting upon said slips, of: a tubular non-compressible sleeve having both ends fully open, said sleeve normally retained slidably within the slips and within said packing element and normally acting to hold the two outwardly against the wall of the bowl, said sleeve being adapted to be moved upward in the bowl out of said slips and out of the packing element by the contact of a fish which is entering the lower end of the bowl.

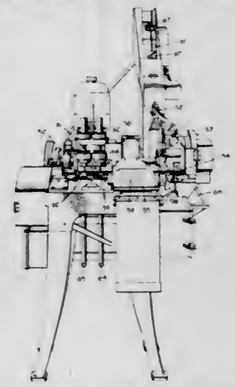
2,313,264
FUEL SUPPLY SYSTEM
Ferdinando Carlo Reggio, Buffalo, N. Y.
Application October 21, 1938, Serial No. 236,249
22 Claims. (Cl. 123—139)

1. In combination, a fuel pump to intermittently deliver fuel to an internal combustion engine, said pump including a cylinder having port means and a plunger having a reciprocating motion of constant stroke in said cylinder and adapted to cover and uncover said port means, a fuel conduit connected with said pump, a mechanism whereby the mean axial position of said plunger relative to said cylinder and thereby the timing of the intermittent fuel delivery of said pump may be varied, means responsive to the fuel pressure in said conduit and operatively con-



nected with said mechanism, and means for adjusting the fuel pressure in said conduit to control the timing of said intermittent fuel delivery.

2,313,265
RECEPTACLE CHARGING MACHINE
Warren S. Reynolds, Stratford, Conn., assignor to Remington Arms Company, Inc., a corporation of Delaware
Application July 22, 1939, Serial No. 285,847
39 Claims. (Cl. 86—32)



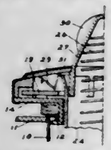
1. In the priming of shells, the method comprising the steps of positively engaging and continuously advancing the shells to be primed, advancing a serrated element into a pasty priming mixture and moving the pasty priming mixture into the serrations, moving the pasty priming mixture from the serrations into the shells, and then moving the priming mixture into final position in the shell.

20. In apparatus for feeding shells having a rim: a sloping guide having a slot the width of the shell body and narrower than the rim, the top surface of the guide also sloping inwardly and downwardly toward the slot; means to feed empty shells onto the guide, the inwardly sloping surface assisting the entrance of the shell body into the guide slot, the inwardly sloping surface changing to an outward and downwardly sloping surface at a point remote from the impingement of the empty shells on the guide to assist in the removal of the extraneous shells from the track.

36. In a machine for placing loose priming mixture into permanent position in shells: ad-

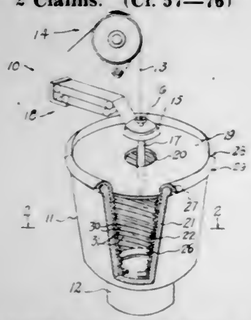
vancing means having shell engaging means to advance the shells in rows; a plurality of reciprocating rotating means for moving the loose priming mixture into place in the shells; means to move the shells from the advancing means into position under the rotating means, the surface of the first transfer means while it is moving a shell into position serving as a guide for the succeeding shells as the advancing means moves said succeeding shells toward the other rotating means.

2,313,266
THEFTPROOF CLOSURE
John A. Roberts, New York, N. Y.
Application December 11, 1940, Serial No. 369,587
7 Claims. (Cl. 220—86)



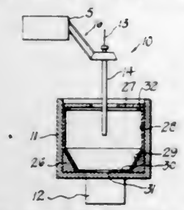
1. As an article of manufacture adapted for use with liquid fuel storage tanks having a fuel receiving opening provided with an interrupted screw, a hollow cylindrical member having a perforate body portion adapted to prevent the passage therethrough of bodies for the removal of fuel from the tank, a disc encircling the upper portion of said cylindrical member, said disc and cylindrical member being capable of independent rotary movement, means carried by said disc adapted when said disc is rotated in one direction to engage the interrupted screw to lock said disc on the fuel receiving opening, a cap member having a central hole therethrough for the introduction of fuel into said cylindrical member, said cap member enclosing the upper end of said cylindrical member and the top surface, the outer periphery and a substantial portion of the bottom surface of said disc, said disc and cap being capable of independent rotary movement, and ratchet means carried by said cap and said disc adapted to engage to rotate said cap and said disc as a unit when the cap is rotated in said one direction and to permit independent rotation of said cap in the opposite direction.

2,313,267
APPARATUS FOR MAKING RAYON CAKES
Harry Rubinstein, Brooklyn, N. Y.
Application July 1, 1942, Serial No. 449,338
2 Claims. (Cl. 57—76)



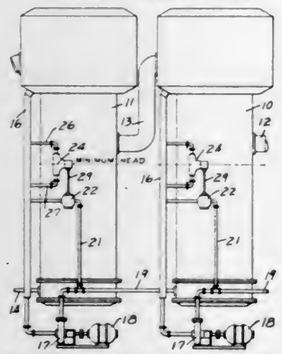
1. In an apparatus for making a cake of a hardened rayon strand for subsequent washing and drying and unwinding of the cake, a whirling bucket, and a removable, expansible liner therein, said liner having means for frictionally gripping the cake to prevent rotary slippage thereof and deterioration of the outer portion of the cake, said liner being engaged and whirled by the bucket and being expansible after removal from the bucket for removal from the cake.

2,313,268
MAKING AND TREATING RAYON CAKES
Harry Rubinstein, Brooklyn, N. Y.
Application July 14, 1942, Serial No. 450,933
6 Claims. (Cl. 57—76)



1. The herein described method including engaging with a bucket a tubular liner having a side wall and a bottom wall portion, whirling the bucket with its liner while axially feeding rayon strand for centrifugally winding the same to produce a ring shaped rayon cake in the liner, disposing a second liner in fitted relation in the opening of the cake, and removing the cake and liner assembly from the bucket for subsequent treatment.

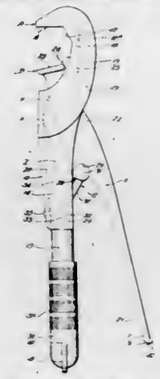
2,313,269
PUMP FOR EVAPORATING SYSTEMS
Philip B. Sadtler, Birmingham, Ala., assignor to Goslin-Birmingham Manufacturing Company, Inc., a corporation of Alabama
Application September 3, 1940, Serial No. 355,125
1 Claim. (Cl. 103—41)



In an evaporating system, a transfer pump, intake and discharge conduits connected to the pump, a bypass connecting the discharge conduit to the intake conduit, a valve in the bypass, and float control means in the intake conduit in advance of the bypass for operating the valve to vary the rate of flow through the bypass responsive to the head in said conduit.

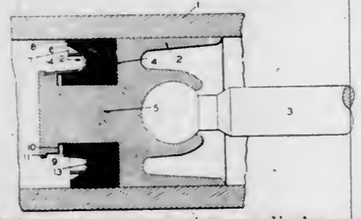
2,313,270
WRENCH
Floyd B. Sapp, Sherman Oaks, Calif.
Application October 23, 1940, Serial No. 362,321
2 Claims. (Cl. 81—84)

1. A wrench comprising a body including a handle at one end and an inwardly facing gripping jaw at the other end rigid with the handle, the body having a transverse opening between the handle and jaw and a groove extending from the opening toward the jaw, a lever element extending through the opening having a handle at its inner end and a gripping jaw at its outer end opposing the first named gripping jaw, a fulcrum part on the element shiftably and pivotally bear-



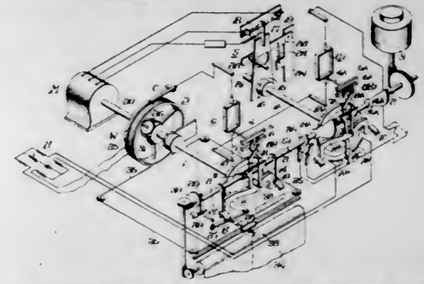
ing in the groove, an inwardly facing abutment on the inner side of the element, an adjusting screw on the inner side of the body handle, an abutment on the screw opposing the first named abutment, and a toggle link pivotally connected with the abutments operable to bodily shift the element outwardly to move its jaw toward said first named jaw when the handles are swung toward one another.

2,313,271
PACKING CUP RETAINER
Steve Schnell, Overland, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware
Application December 16, 1939, Serial No. 309,571
1 Claim. (Cl. 309—34)



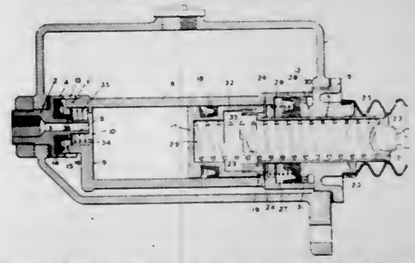
In fluid pressure apparatus, a cylinder, a piston provided with a projection having a shoulder spaced from the piston face, an annular sealing cup of yieldable material positioned on the projection and having an annular groove in its forward face forming inner and outer lips for engagement with the cylinder wall and the surface of the projection, respectively, and a retainer for preventing the cup from having relative movement with respect to the piston and the projection, said retainer comprising a member constructed of a single piece of thin metal and having an annular portion of U-shaped radial cross-section for engaging the base of the groove by its outer curved surface and integral axially extending fingers overlying and engaging the surface of the inner lip to firmly hold it in contact with the surface of the projection and having their ends engaging the shoulder, said fingers being laterally flexible with respect to the annular portion to permit their being passed over the shoulder and to a position behind the shoulder when the retainer is placed in operative position and to facilitate their disengagement from the shoulder when the retainer is to be removed and said fingers also being of such length that when positioned behind the shoulder they will cause the annular portion to apply an axial pressure to the cup by means of the annular portion of U-shaped radial cross-section to thereby force the cup into pressure engagement with the piston face, the projection and the cylinder wall without cutting the material thereof.

2,313,272
SELF-BALANCING SYSTEM
John F. Schock, Philadelphia, and George L. Broomell, Jr., Springfield Township, Montgomery County, Pa., assignors to Leeds & Northrup Company, Philadelphia, Pa., a corporation of Pennsylvania
Application September 23, 1941, Serial No. 412,000
8 Claims. (Cl. 171—95)



1. A self-balancing system comprising means for producing an effect representative of unbalance of said system, structure adjustable to rebalance said system, and means for adjusting said structure comprising devices responsive to said effect and operative intermittently and alternately to check said system for unbalance thereof, one of said devices having relatively low sensitivity for effecting in response to unbalance of said system rapid coarse adjustment of said structure and the other of said devices having relatively higher sensitivity to said effect for effecting a slower precise adjustment of said structure.

2,313,273
COMPOUND MASTER CYLINDER
Steve Schnell, Kirkwood, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware
Application October 3, 1941, Serial No. 413,461
6 Claims. (Cl. 60—54.6)



1. In fluid pressure producing apparatus, a reservoir, a cylinder mounted for limited reciprocable movement, an outlet for the cylinder, valve means controlled by the reciprocable move-

ment of the cylinder for controlling communication between the reservoir and the cylinder, a piston within the cylinder for developing a low fluid pressure, means forming a chamber at the rear of the piston, a second piston having a smaller pressure producing area than the first piston and capable of acting on the fluid in the chamber, means for actuating the second piston, a spring of predetermined strength interposed between the pistons and causing the pistons to move as a unit until the pressure developed by the large piston offers such a resistance to the movement of the first piston that the spring will be compressed and the smaller area piston permitted to move relatively to the larger piston, means for permitting fluid to flow from the reservoir to the chamber when the fluid pressure therein is less than atmospheric pressure but not permitting fluid to flow in the reverse direction, and means for moving the cylinder to close the valve means when the larger piston is initially moved to develop pressure.

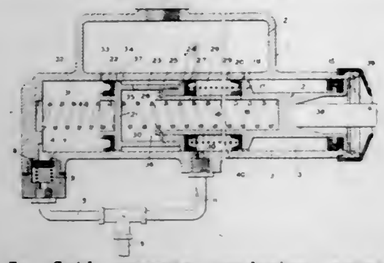
2,313,274

COMPOUND MASTER CYLINDER

Steve Schnell, Kirkwood, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware

Application October 8, 1941, Serial No. 414,087

8 Claims. (Cl. 60—54.6)



1. In fluid pressure producing apparatus, aligned pistons having different pressure developing areas, a fluid chamber having fluid therein acted upon by the piston of larger area, a second chamber between the pistons and having fluid therein capable of being acted upon by the other piston, a spring of predetermined strength interposed between the pistons and permitting the piston of larger area to be moved as a unit with the piston of smaller area only until a predetermined pressure is produced by the piston of larger area, means for moving the piston of smaller area, outlets for placing said chambers in communication with a device to be actuated, and a check valve for preventing the fluid pressure developed by the piston of smaller area from being effective in the first chamber when said piston of smaller area is moved relatively to the piston of larger area, said check valve being held closed by the fluid pressure developed by the piston of smaller area to thereby prevent escape of fluid from the first chamber and maintain the piston of larger area stationary.

2,313,275

FEED

Herman H. Schopmeyer, Hammond, Ind., assignor to American Maize-Products Company, a corporation of Maine

No Drawing. Application December 3, 1940, Serial No. 368,319

7 Claims. (Cl. 99—9)

1. A feed compounding ingredient of high nutritional value comprising yeast, water soluble grain protein, and a phosphorus containing derivative of inosite-phosphoric acid, the yeast and grain protein serving to increase the nutritional value of each other and the proportion of the yeast being at approximately 100 to 400 parts for 100 parts of the grain protein.

2,313,276

METHOD OF MAKING IRON PHYTATE

Herman H. Schopmeyer, Hammond, Ind., and Gordon V. Sharps, Chicago, Ill., assignors to American Maize-Products Company, a corporation of Maine

No Drawing. Application June 26, 1941, Serial No. 399,958

4 Claims. (Cl. 260—439)

1. In making iron phytate, the method which comprises extracting corn with water to produce steep water containing a water-soluble phytin derivative, adding an alkaline earth metal compound serving to convert the said derivative to insoluble phytate, separating the precipitated phytate from remaining liquid, dissolving the separated phytate in dilute acid forming a water soluble salt with the metal of the alkaline earth metal compound, establishing the pH at about 2.2 to 3.3, and adding a water-soluble ferric salt, so that iron phytate is precipitated readily and in form containing insoluble iron substantially exclusively in the form of an iron organic compound, the ferric salt added being one the non-metallic part of which forms a water soluble salt with the metal of the said alkaline earth metal compound.

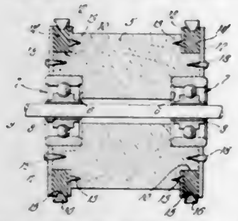
2,313,277

WHEEL

Sam R. Smith, South Bend, Ind.

Application February 7, 1941, Serial No. 377,769

6 Claims. (Cl. 301—5)



1. A wheel structure comprising a body member having axially directed end recesses, antifriction bearing means disposed in said recesses, an axle extending through said bearing means, peripheral recesses in the sides of said body member, resilient means disposed in said recesses and projecting radially beyond the outer annular periphery of said body member, means axially compressing said resilient means, and metallic tire members carried in axially spaced relation on the external surfaces of said resilient means.

2,313,278

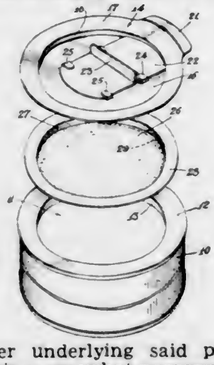
DISPENSING CONTAINER CONSTRUCTION

Walter F. Straub, Chicago, Ill., assignor to W. F. Straub & Company, Chicago, Ill., a corporation of Illinois

Application April 19, 1940, Serial No. 330,574

7 Claims. (Cl. 221—21)

1. In combination in a container construction of the character described, a container having a top rim defining an opening, a dished cap to fit within said opening and having a laterally extending peripheral flange, a preformed dished liner member interfitting with said cap and engaging frictionally between the cap and said rim, a laterally extending peripheral flange on said



liner member underlying said peripheral cap flange but being somewhat narrower, and a reenforcing bead formed around the outer edge of said peripheral cap flange and protectively closing the gap resulting from interposition of the liner flange between the cap flange and said rim.

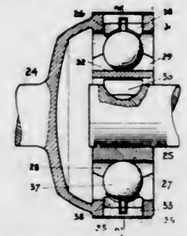
2,313,279

UNIVERSAL JOINT

Robert Suczek, Grosse Pointe, Mich.

Application August 1, 1938, Serial No. 222,409

11 Claims. (Cl. 64—21)



1. The combination with a pair of shafts, a universal joint connection therefor comprising an outer ball race member, an inner ball race member removably receivable within the outer ball race member said ball race members provided with corresponding grooves, balls in said grooves coupling said members together for rotation, means to lock the outer ball race member to one of said shafts and means to lock the inner ball race member to the other shaft, recessions in said grooves in one of said members, a cage mounted at least about one of said members, and means carried by the cage for retaining the balls in their grooves, said last means reaching through said recessions to opposite sides of the balls.

2,313,280

BEAM CONNECTING UNIT

Steven D. Szego, New York, N. Y., assignor to American Diagrid Corporation, New York, N. Y.

Application April 21, 1941, Serial No. 389,554

13 Claims. (Cl. 189—36)

1. Beam grid consisting of relatively short beams and connecting units connecting the end portions of said beams at the grid nodes to each other, each of said connecting units comprising two pairs of holding members and each of said holding members being shaped in such a manner as to embrace one of said beams at least at two points of the same spaced apart from each other



in longitudinal direction, thus transmitting bending moments from each of said beams to at least one of the other beams.

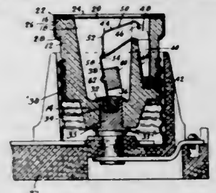
2,313,281

THERMAL CIRCUIT INTERRUPTER

Elmer H. Taylor, Newburyport, Mass., assignor to The Chase-Shawmut Company, Newburyport, Mass., a corporation of Massachusetts

Application June 9, 1938, Serial No. 212,735

15 Claims. (Cl. 200—123)



1. A thermal circuit interrupter including terminals, a fusible link having a most readily fusible portion extended between and electrically connecting said terminals, a readily fusible metal connecting said fuse link electrically to one of said terminals, said most readily fusible portion of said link being adapted to become heated by the current traversing it and to heat and soften said fusible metal, means responsive to the softening of said fusible metal to effect separation of said fuse link and said one terminal, and means to delay the fusing of said fusible metal including a heat absorbent mass supported by and in thermal relation with said fuse link between said most readily fusible portion and said fusible metal.

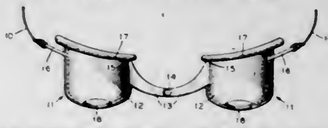
2,313,282

THERAPEUTIC DEVICE

Paul F. Tunke, Ridgewood, N. Y.

Application December 3, 1941, Serial No. 421,494

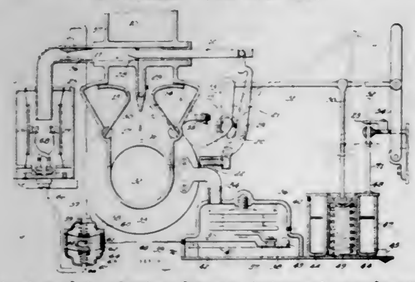
2 Claims. (Cl. 128—254)



2. A therapeutic device of the type described comprising a pair of substantially flat circular soft, porous and absorbent pads adapted to be applied to and substantially cover a patient's eyes, hollow fixed and cylindrically shaped containers attached at the rims of one end thereof to one side of said pads for holding cracked or crushed ice in contact with one side of said pads, openings in said containers for inserting said ice therein, removable covers for said openings, means including said covers for closing the opposite ends of said cylindrically shaped containers for preventing the escape of water or ice from said containers through said openings, arms extending from said containers pivotally

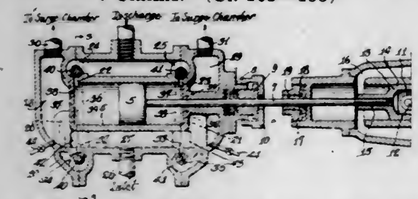
connected together whereby said containers and pads are spaced apart and pivotally movable relative to each other, means including said pivotal connection whereby said containers are pivotable on an axis substantially perpendicular to the central axis thereof and means including said pads and water from melted ice in said containers to convey heat from the areas to which said pads are applied.

2,313,283
POWER CONTROL
Stanley M. Udale, Detroit, Mich., assignor to George M. Holley and Earl Holley
Application January 31, 1942, Serial No. 429,065
5 Claims. (Cl. 123—98)



1. A safety device for an internal combustion engine having an inlet manifold, a throttle valve, a manually controlled lever, a broken link throttle control connected to said lever and to said throttle valve, means for holding said broken link in alignment, means for releasing said holding means responsive to an increase in manifold pressure, means responsive to the movement of said lever to the position of complete closure of said throttle for re-setting the holding means for said broken link to permit the reopening of said throttle by said manually controlled means.

2,313,284
PUMP VALVE
Warren P. Valentine, Yeadon, Pa.
Application May 21, 1940, Serial No. 336,349
7 Claims. (Cl. 103—153)



1. A pump including a cylinder block and a cylinder head therefor, both having cooperating circumferential grooves, the grooves being of one smaller size in two circumferentially opposite clamping parts of the groove and relatively enlarged at two opposite but intermediate parts, and having inlet and outlet ports at the enlarged parts, and elastic port closures of diameter larger than that of the smaller grooves clamped at the smaller size clamping parts of the groove between the block and head.

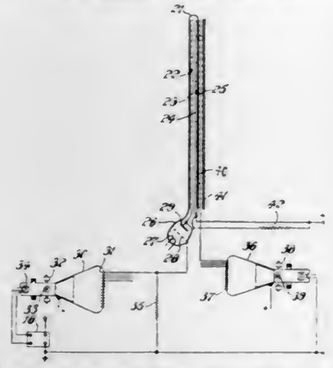
2,313,285
SORTABLE MULTIPLE FORM
Joseph Zalkind, New York, N. Y.
Application May 31, 1941, Serial No. 396,058
9 Claims. (Cl. 282—20)

1. A continuous form comprising an elongated strip of paper, said elongated strip being subdivided into a plurality of separate sheets, perforations located upon the subdivisions aforesaid, and a number of slots and apertures located ad-



jacent and on either side of said perforations, the slots and apertures of the one side of perforations being in line with the slots and apertures upon the other side of the perforations aforesaid.

2,313,286
TELEVISION RECEIVER
Ferenc Okolicsanyi, Kensington, London, England, assignor to Scophony Corporation of America, New York, N. Y., a corporation of Delaware
Application April 28, 1939, Serial No. 270,672
In Great Britain April 29, 1938
18 Claims. (Cl. 178—7.5)



1. A television receiver comprising a plurality of long evacuated tubes, said tubes being arranged vertically in one plane in close proximity to one another, a set of elongated electrodes for each tube arranged parallel to the axis thereof, said electrodes comprising a source of electrons, a control electrode and an anode, an elongated fluorescent layer for each tube adapted to receive such electrons from said source that pass said control electrode and anode, a plurality of magnetic controlling members arranged horizontally and externally of said tubes, a line frequency commutator in operative connection with the control electrodes of said tubes, a frame frequency commutator in operative connection with said magnetic controlling members, a picture signal receiver in electrical connection with the armature of said line frequency commutator and a source of electrical current in electrical connection with the armature of said frame frequency commutator.

2,313,287
DRIVE FOR THE SPINDLES OF MACHINE TOOLS
André Albert Bailly, Chatillon sous Bagneux, France; vested in the Alien Property Custodian
Application January 11, 1940, Serial No. 313,441
In France January 11, 1939
2 Claims. (Cl. 51—34)



2. In a grinding machine tool, including a support formed to accurately receive and guide a tool spindle, a tool spindle mounted in said support formation for rotary and reciprocating movement, means in the support for rotating the spindle, a cylinder formed in the support independently of the spindle mounting, a piston fitting and movable in the cylinder, and a piston rod connected to the piston and extending through and in both directions beyond the support in parallelism with the spindle, and means connecting the piston, rod and spindle at points beyond the respective ends of the support.

2,313,288
PROCESS WHICH ENABLES THE REPRODUCTION OF IMAGES BY MEANS OF DIAZOIC COMPOUNDS TO BE OBTAINED
Emilien Barde, Paris, France; vested in the Alien Property Custodian
No Drawing. Application November 17, 1939, Serial No. 305,040. In France November 19, 1938
2 Claims. (Cl. 95—6)

1. The method of directly obtaining positive images of a positive drawing on a translucent sheet comprising preparing a sheet having a sensitive film containing the diazonium compound produced from C. methyl amino-4-naphthimidazole which is capable of coupling with products of its photolysis to give a colored compound, exposing the film to highly actinic light while under a translucent positive, removing the positive from said film, and exposing the film to a lightly actinic source of light.

2,313,289
PROCESS FOR THE PRODUCTION OF ARTIFICIAL SKINS FOR SAUSAGES, IN PARTICULAR, SALAMI
Čeněk Bednář, Neu-Rausnitz, Moravia; vested in the Alien Property Custodian
No Drawing. Application August 24, 1940, Serial No. 354,090. In Czechoslovakia August 17, 1938
5 Claims. (Cl. 99—176)

1. A process for the manufacture of paper casings for sausages comprising removing grease and gelatine from a fibrous mass derived from animal hide substances, mixing said fibrous mass with tragacanth, impregnating a paper tube with the mixture, and hardening the thus impregnated paper tube.

2,313,290
APPARATUS FOR TRANSFORMING OSCILLATIONS
Joseph Bethenod and Yves Rocard, Paris, France; vested in the Alien Property Custodian
Application April 3, 1939, Serial No. 265,786
In Great Britain June 2, 1938
6 Claims. (Cl. 177—386)



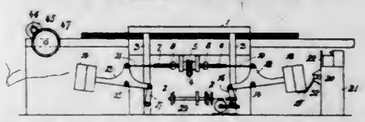
1. Apparatus for converting oscillations of supersonic frequency comprising an elongated member progressively varying in cross-section from one end to the other and a coil connected to one end of said elongated member, means including said coil to induce torsional oscillation of said member about its longitudinal axis, and means at the other end of said member, adapted to be positioned in contact with a medium, to transfer said oscillations to said medium.

2,313,291
CIRCUIT CONTROLLER
Newton C. Schellenger, El Paso, Tex., assignor to Chicago Telephone Supply Company, Elkhart, Ind., a corporation of Indiana
Original application March 30, 1932, Serial No. 602,006, now Patent No. 2,198,277, dated April 23, 1940. Divided and this application March 22, 1940, Serial No. 325,455
7 Claims. (Cl. 200—67)



1. In a snap switch, the combination of: a housing; a stationary contact secured in the housing; a movable contactor pivoted in the housing for engagement with the stationary contact; projections on the side walls of the housing engageable with the contactor for defining its limits of motion; an actuating member pivoted in the housing; and spring operating means connected between the actuating member and the contactor including a coil spring supported on a pitman, said supported spring being engageable medially of its ends with said projections and rockable thereon by the actuating member to force the contactor positively away from its limits of motion.

2,313,292
FELT SHEET MACHINE
Artur Feldmann, Brunn, Czechoslovakia; vested in the Alien Property Custodian
Application March 1, 1939, Serial No. 259,169
In Czechoslovakia May 24, 1938
3 Claims. (Cl. 28—14)



1. In a machine for the manufacture of felt

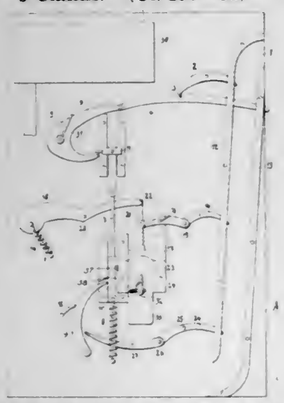
sheets of the type having an oscillating plate, means for causing the lifting of said plate and winding up of felted sheets comprising a lead screw provided with a right hand and left hand thread and rotated by a suitable power means, a nut on each thread of said screw, a lever operated by each nut upon rotation of said lead screw, rods operably connected to each of said levers and to said operating plate whereby movement of said screw causes vertical movement of said plate, a plurality of switch means operably connected to control the oscillation and winding parts of said machine, each having operating noses spaced horizontally, and means for operating said noses comprising a vertical frame, spaced vertical screws mounted therein, dogs on said screws adapted to be adjusted vertically and positioned to contact said noses upon movement of said frame, and means connecting said frame and one of said levers whereby said frame will be moved simultaneously with said table.

2,313,293

COIN-OPERATED INK VENDING APPARATUS FOR FOUNTAIN PENS

Adolf Fudem, Bardejov, Czechoslovakia; vested in the Alien Property Custodian

Application February 24, 1939, Serial No. 258,276
In Czechoslovakia March 5, 1938
9 Claims. (Cl. 194—51)



5. In apparatus for vending ink for filling fountain pens, a casing, an ink well within said casing, said casing having an opening therein through which a fountain pen may be introduced into the ink well, a movable door, means biasing said door to a position obstructing said opening, means for rendering said biasing means momentarily inoperative, means operable upon actuation of the last mentioned means for moving the door to a position unobstructing said opening, means released by the introduction of a fountain pen into said ink well for maintaining the door in said unobstructing position whereby the door will be moved by said biasing means to obstruct said opening when the fountain pen is withdrawn from the casing.

2,313,294

MANUFACTURE OF STOCKINGS

Jean Garric, Troyes, France; vested in the Alien Property Custodian

Application April 28, 1939, Serial No. 270,679
In Luxemburg May 11, 1938
1 Claim. (Cl. 66—96)

The method of producing a flat non-raveling selvedge for parts of the sole of stockings on flat knitting frames, comprising completely forming a predetermined number of rows of plain loops, then transferring by means of the usual narrowing machine each second loop of at



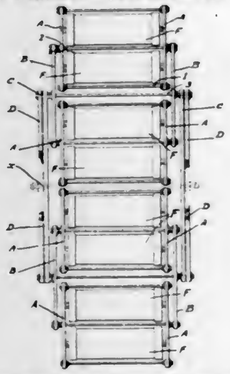
least a part of a succeeding row to the following second needle, and raveling the first formed rows to expose the row of transferred loops.

2,313,295

BUOYANCY SYSTEM

Jean Hérail and Raymond Gauthier, Paris, France; vested in the Alien Property Custodian

Application February 24, 1940, Serial No. 320,728
In France February 25, 1939
7 Claims. (Cl. 114—122)



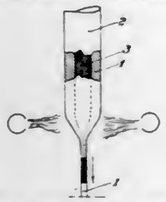
1. In a buoyancy system, a buoyant element comprising a frame composed of two horizontal side beams and two transverse rods connecting the ends of said beams with each other, two additional frames each pivotally mounted on one of said transverse rods and provided with two tie rods extending parallel to said rods, a plurality of third frames, one for each said tie rods and pivotally mounted on the same, and buoyant rollers mounted in said last named frames and rotatable about axes which are parallel to said tie rods.

2,313,296

FIBER OR FILAMENT OF GLASS

Armand Lamesch, Herzogenrath, near Aachen, Germany; vested in the Alien Property Custodian

Application September 23, 1937, Serial No. 165,369
In Germany September 30, 1936
6 Claims. (Cl. 49—92)



1. A flexible filament of glass comprising concentrically disposed inter-fused glass layers of different compositions.

5. A flexible glass filament comprising two inter-fused concentric tubular glass elements having different coefficients of expansion.

2,313,297

COCONUT RETTING METHOD

Bernard Maisant, Paris, France; vested in the Alien Property Custodian

No Drawing. Application April 10, 1939, Serial No. 267,203. In France July 21, 1938
4 Claims. (Cl. 195—8)

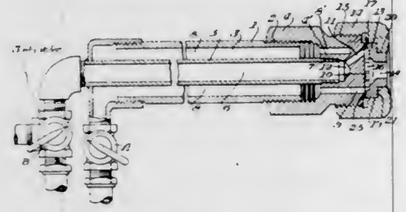
2. A process for retting coconut fibres consisting in immersing said fibres in an aqueous bath substantially at the surrounding temperature and having a pH value greater than 7, said bath containing ethyl alcohol in a quanttiy suitable for lowering to the extent of a few hundredths the unit of superficial tension of the water.

2,313,298

ATOMIZER

Kingsley L. Martin, Montclair, N. J., and Edward A. Holden, Jamaica, N. Y.

Application March 3, 1939, Serial No. 259,558
15 Claims. (Cl. 299—120)



1. In an atomizer, a whirling chamber, two sets of tangential channels leading thereto in the same circumferential direction; dual means for supplying, respectively, to the respective sets of tangential channels, fuel to be atomized thereby in said whirling chamber; and regulatable means for converting one of said supply means into means for withdrawing from said whirling chamber, through the corresponding set of tangential channels, a controllable portion of the fuel supplied to said chamber by the other of said supply means through its corresponding set of tangential channels.

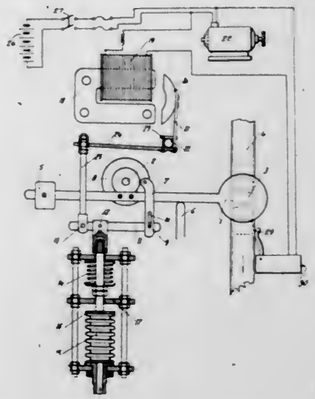
2,313,299

SAFETY DEVICE AGAINST FIRE FOR CINEMATOGRAPHIC PROJECTORS

Frédéric Mathieu, Paris, France; vested in the Alien Property Custodian

Application April 9, 1940, Serial No. 328,683
In France May 13, 1939
2 Claims. (Cl. 88—17)

1. A safety shutter system for preventing film fires in a cinematographic projector having a movable shutter capable of moving to and from an effective obscuring position in the path of a light beam illuminating a film being fed through said projector, a lever connected at one end with a portion upon said shutter, lever means pivotally connected at one end to the other end of said first mentioned lever and having a magnet armature secured to the other end, a pivotal mounting for said lever means, an electromagnet disposed adjacent to said armature, an electric driving motor for said projector, a switch means having a circuit including said electromagnet, a finger normally resting on the film when normally in tensed position in the projector and capable of closing the circuit when the film slacks, breaks or is absent from the vicinity of said finger, a hydraulic device operated by the cooling oil of the projector mechanism and being responsive to loss of speed or stoppage of said mechanism, and a movable operating member pivotally connected to a portion of said first



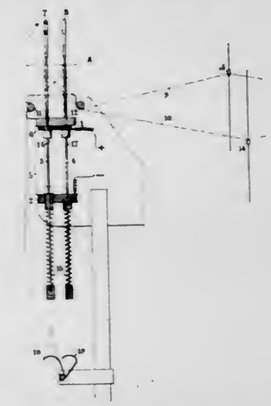
mentioned lever between the ends or other two pivotal connections thereon, said movable operating member being actuated by and forming part of said hydraulic device.

2,313,300

CIRCULAR WEAVING LOOM

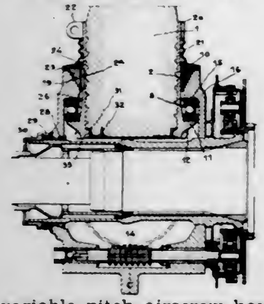
Henri Pelcé, Flixecourt, France; vested in the Alien Property Custodian

Application June 20, 1940, Serial No. 341,578
In France July 19, 1939
7 Claims. (Cl. 139—13)



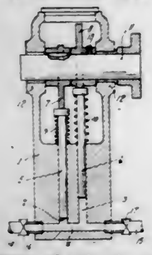
1. In a weaving loom, a device for stretching the warp threads rearwardly of the shed, comprising in combination two deviating elements for each warp thread and on which said warp thread successively passes, an eye between said two deviating elements and through which passes said warp thread, resilient means for pushing said eye for spacing away said deviating elements and for causing said warp thread to deviate between said deviating elements, means for guiding said eye relatively to said deviating elements and locking means for holding said eye close to said deviating elements in antagonism to the action of said resilient means.

2,313,301
ASSEMBLY FOR THE BLADES OF VARIABLE PITCH AIRSCREWS
Pierre Paul Ratié and René Jean Ratié, Montrouge, France; vested in the Alien Property Custodian
Application February 14, 1940, Serial No. 318,888
In France February 28, 1939
2 Claims. (Cl. 170—162)



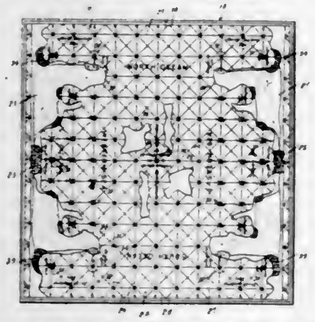
1. In a variable pitch airscrew having a plurality of drums or fixed sockets extending radially from a hub mounted on a drive shaft, means for retaining the root of each blade of the airscrew in assembled association with its respective drum on said hub, said means including a socket member secured to the root of each blade and mounted for rotation in one of said drums, a bearing disposed on each drum or fixed socket and a ring which is preferably of conical form engaging against each drum bearing and serving to retain the respectively associated socket member, a disengageable locking member which serves to lock the respective root of a blade in each socket member, a resiliently deformable annular member interposed between said locking member and the conical ring and a ball bearing surrounding each socket member so as to facilitate rotation and cooperate in retaining the same assembled with its respective drum, said annular member exerting a certain amount of pressure on said ring and said ball bearing.

2,313,302
DIFFERENTIAL PUMP
André Sobek, Paris, France; vested in the Alien Property Custodian
Application May 9, 1939, Serial No. 272,665
In Luxembourg February 22, 1939
12 Claims. (Cl. 103—37)



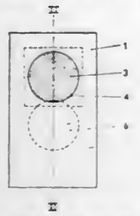
1. A liquid pump of minute output comprising two cylinders in communication with each other, at least one of said cylinders being mounted to rotate about an axis parallel with its own axis, means for securing said last named cylinder in any desired position, inlet and outlet means to and from said cylinders, two pistons respectively movable within said cylinders, spring means urging said pistons in one direction and rotary eccentric or cam means for actuating said pistons against said springs whereby to impart to said pistons reciprocal motions of the same period but having a lag relatively to each other.

2,313,303
GAME
Mikolaj Szatrow, Manila, P. I.; vested in the Alien Property Custodian
Application September 12, 1940, Serial No. 356,529
1 Claim. (Cl. 273—131)



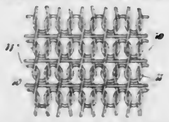
A game apparatus for use with sets of distinctively marked playing pieces simulating warships of different classes including submarines, comprising a game board having a playing area provided with intersecting horizontal, vertical and diagonal lines forming the paths along which said playing pieces are movable over the playing area, the intersections of the horizontal, vertical and diagonal lines being distinctively marked to form stopping and turning points of the playing pieces, said lines defining the turning movement of the playing pieces and definitely indicating the position in which the playing pieces are facing on said points for indicating the direction in which they can "fire" and from which they can be successfully "fired" upon, the distance between adjacent points constituting the "effective firing range" of the playing pieces; and recorders forming "logs" to be used in conjunction with said game apparatus to record simulated submerged movements of said "submarines" to provide a permanent record of the simulated submerged positions of the "submarines" to be kept secretly by each player as a record for the benefit of his opponent.

2,313,304
FILTER CARD
Willem Nicolaas van Dranen, De Bilt, Netherlands; vested in the Alien Property Custodian
Application March 29, 1940, Serial No. 326,773
In the Netherlands April 5, 1939
3 Claims. (Cl. 73—51)



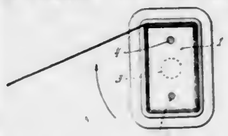
1. A filter card particularly for testing and determining the condition of milk comprising a strip of paper having an opening therein and a filter material securely mounted on the strip and over the opening therein, and a lip which can be folded down in such a way that the lip when folded down completely covers the layer of filter material and forms a background for the milk undergoing test.

2,313,305
METHOD FOR PRODUCING FABRICS HAVING WEFT THREADS
Otto Wahle, Prague, Czechoslovakia; vested in the Alien Property Custodian
Application April 8, 1939, Serial No. 266,716
In Czechoslovakia February 24, 1939
1 Claim. (Cl. 66—1)



A method of producing hand knitted fabrics with incorporated weft threads which consists in hand knitting the stitches by means of two cooperating hand knitting needles only, while having weft attachable longitudinally on the needles so that each single stitch is formed around the weft thread fixed on the needle and so that after completion of a row of stitches and after manually detaching the weft thread from the needle, the weft thread is embedded in each stitch of the completed row.

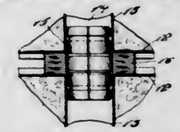
2,313,306
METHOD OF MAKING TRANSFORMERS
David E. Wiegand, Zanesville, Ohio, assignor to Line Material Company, South Milwaukee, Wis., a corporation of Delaware
Application June 13, 1940, Serial No. 340,256
2 Claims. (Cl. 175—356)



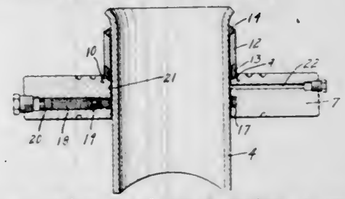
1. The method of making a transformer or the like comprising winding a closed core of magnetic ribbon around a shaping form having at least one straight side with the magnetic core surrounding the shaping form in successively closely compacted convolutions, holding the wound core on the form so that it does not change its shape and annealing the wound core while it is held against change of shape to cause the core to take a permanent finished shape and to insure that successive convolutions of the core remain closely compacted during and after annealing, removing the form and winding a circular coil structure around the straight side of the core by causing relative rotation between the coil and the core while the coil is being wound, the core being free from any working or machining after annealing.

2,313,307
CONNECTOR FOR SECTIONS OF FILTER CARTRIDGES
James W. Wilkinson, Providence, R. I., assignor to Fram Corporation, a corporation of Rhode Island
Application November 25, 1939, Serial No. 306,121
6 Claims. (Cl. 210—62)

1. In combination with a pair of filter cartridges arranged in axial alignment substantially end-to-end for use in a single filter casing, each comprising a cylindrical can having inner and outer perforate cylindrical walls between which is disposed suitable filtering material, end walls provided with central openings and closing the space between said inner and outer walls, of a connection tube forming a common fluid conduit between said cartridges and having its opposite tubular end portions extending through the central openings in the opposed end walls of said cartridges into the axial space inside of the cartridges adjacent said central openings and enclosed by said inner cylindrical walls, and means carried by each cartridge extending inwardly into the central axial space thereof from its central opening and arranged about the respective tubular end portion of said connection tube to coact therewith and lock the connection tube in position.

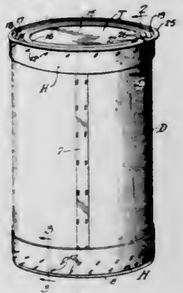


2,313,308
CASING HEAD
Herbert Allen, Houston, Tex., assignor to Cameron Iron Works, Houston, Tex., a corporation of Texas
Application January 6, 1941, Serial No. 373,277
8 Claims. (Cl. 285—30)



1. In a casing head construction, a casing, a flange having an opening through which the casing extends, a bead of weld metal surrounding and joined to said casing, and another bead of weld metal surrounding the first mentioned bead and joining said first mentioned bead to the flange.

2,313,309
PLYWOOD BARREL
Charles B. Arnold, Chicago, Ill., assignor to The Greif Bros. Cooperage Corporation, Cleveland, Ohio, a corporation of Delaware
Application August 2, 1940, Serial No. 349,586
6 Claims. (Cl. 217—72)



1. In a container, the combination of a cylin-

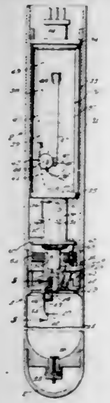
drical plywood drum, a sheet metal collar fitted exteriorly around the drum adjacent one end thereof, one edge of the collar being protruded beyond the proximate drum end and rolled in the form of a bead, a hoop fitted around and in engagement with both the drum and collar and so positioned relative thereto as to remain slightly spaced from the bead on the collar, means interconnecting the drum, collar and hoop extending circumferentially of the drum, a substantially flat circular sheet metal top head adapted to form a closure for the upper end of the drum, the head in its peripheral region being extended upwardly, then outwardly, and then downwardly to provide an upstanding wall having an outside diameter of such size as to fit closely within the drum to engage frictionally with the inner cylindrical surface thereof and to provide an outwardly extending rounded rim defining on its under side an open channel wherein the collar bead is partly receivable, a split circular clamping ring bent to form an inwardly facing channel whose opposed edges are spaced apart a distance requisite for embracing portions of both the rounded rim of the head and the beaded edge of the collar, and means for drawing together the two ends of the clamping ring to secure the head to the collar.

2,313,310

WELL-BORE RADIATION LOGGING APPARATUS

James C. Arnold, Los Angeles, Calif., assignor to Lane-Wells Company, Los Angeles, Calif., a corporation of Delaware

Application August 4, 1940, Serial No. 351,283
19 Claims. (Cl. 250—83.6)



1. A well logging apparatus comprising: a device sensitive to sub-atomic bombardment from the formation confronting the wellbore, said device including an element adapted to move in response to such bombardment; a recording camera having a predetermined exposure time interval and located in close proximity to said device and element for photographing the movement of said element; and means for correlating the record of said camera in terms of well depth.

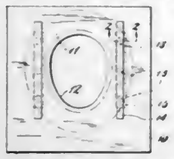
2,313,311

TOILET SEAT COVER

Charles K. Arter, Jr., Shaker Heights, and Samuel Peskind, Cleveland, Ohio

Application September 12, 1941, Serial No. 410,572
2 Claims. Cl. (4—243)

1. In a toilet seat cover, a sheet of paper for covering the top of the seat, said sheet having openings therethrough in positions to meet the upper surface of the seat when the cover is laid thereupon, and gummed tape adherently at-



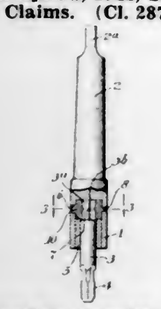
tached to the upper side of the sheet overlying the said openings and exposed to the upper surface of the seat through said openings when the cover is laid thereupon.

2,313,312

TOOLHOLDER

Harding F. Bakewell, San Marino, Calif.

Application April 2, 1941, Serial No. 386,485
6 Claims. (Cl. 287—119)



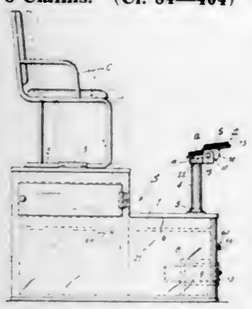
2. In combination, a socket having supporting means, a bushing closely fitting the bore of the socket in spaced relation from the base of the same, and a tool having a shank terminating in an anchoring end and in snug sliding engagement with the bore of the bushing with its anchoring end projecting into the bore of the socket beyond the inner end of the bushing; the socket having a passageway for supplying molten metal to that portion of the bore of the socket which surrounds the anchoring end of the tool shank so that upon solidification the metal fills said portion of the bore of the socket and surrounds and engages the anchoring end of the tool shank.

2,313,313

AMUSEMENT DEVICE

Henry Bascom, St. Louis, Mo.

Application January 9, 1942, Serial No. 426,188
8 Claims. (Cl. 84—404)



1. In a shoeshine stand embodying a cabinet having a seat and a foot-rest, a rotatable support-

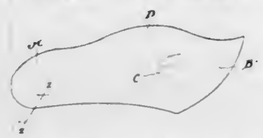
ing pedestal on which the foot-rest is movably mounted, a sounding board and a pair of percussion members in the cabinet, connections between the pedestal and one percussion member and connections between the foot-rest and the other percussion member for effecting impingement of a percussion member on the sounding board with movement of the foot-rest in either a horizontal or a vertical plane.

2,313,314

METHOD OF MAKING ARCH SUPPORTS

Wellington E. Blackburn, Gallup, N. Mex.

Application June 21, 1941, Serial No. 399,177
1 Claim. (Cl. 12—146)



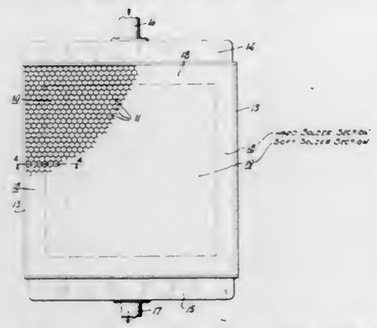
The method of producing an arch supporter including the step of selecting a last to meet the requirements of the user of the supporter, shaping a mold for cooperation with the last, shaping separate thicknesses of sheet cork, applying rubber cement to both sides of each sheet and permitting it to dry, applying rubber cement to the last and mold, thereafter softening one of said layers and its cement with heat and shaping it between last and mold coated with rubber cement, thereafter applying the other thickness to the shaped thickness and subjecting both thicknesses to pressure between the last and mold, removing the shaped thicknesses from between the last and mold and trimming the margin to a feather edge, applying to the bottom surface of the formed thicknesses a layer of moisture-resisting material, inturning the edge portion of said bottom layer to overlie portions of the joined layers, thereafter applying a top layer of moisture-resisting material, thereby to overlie the inturned edge portion, trimming the edge of said top layer, and finally subjecting all of the layers to pressure between the last and mold.

2,313,315

COMPOSITE SOLDERED HEAT EXCHANGER

Emilien Blais, commonly known as Emile Blair, New Haven, Conn., assignor to Western Cartridge Company, New Haven, Conn., a corporation of Delaware

Application May 3, 1941, Serial No. 391,698
3 Claims. (Cl. 257—128)



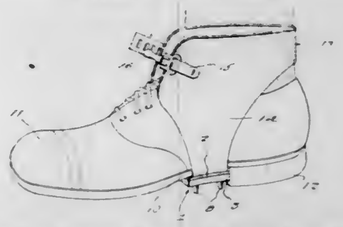
1. In a heat exchanger of the cartridge type, a core having its main heat transfer portion made up exclusively of a plurality of similar tubes having enlarged ends spacing the body portions apart, fusible bonding material connecting said enlarged ends to form built-up headers, said headers being divided into a straight sided marginal portion and an interior portion, the bonding material in said marginal portion being hard solder, the bonding material in said interior portion being soft solder, said marginal portion extending continuously around the core and providing a strengthening frame or shell.

2,313,316

ANTISLIPPING DEVICE

Emil F. Block, Milwaukee, Wis.

Application March 4, 1942, Serial No. 433,374
1 Claim. (Cl. 36—62)



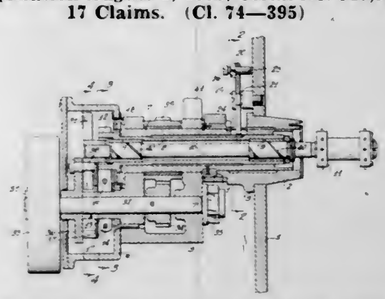
An anti-slipping device of the character described comprising a tread engageable beneath the instep of a shoe and adapted to abut the heel of said shoe, said tread including top and bottom laminations secured together, tubes mounted in the lower lamination, removable calks threadedly mounted in said tubes, and means for securing the tread in position beneath the shoe, said means comprising a strap adapted to extend around the back of the foot and including a pair of substantially triangular members having one end secured together and their other ends secured to the tread, and coacting fasteners for detachably connecting the front portions of said members.

2,313,317

INTERMITTENT MOVEMENT ASSEMBLY

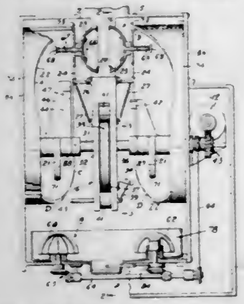
Karl Brenkert, Detroit, Mich., assignor to Brenkert Light Projection Company, Detroit, Mich., a corporation of Michigan

Application August 1, 1940, Serial No. 349,136
17 Claims. (Cl. 74—395)



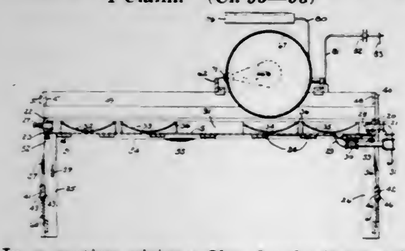
1. In an intermittent unit, a tubular member, a framing case having a swivel mounting thereon, a sprocket shaft accurately journalled in said member, said member having an arcuate slot, and a fork adapted for attachment to the frame structure of a motion picture machine and to engage the ends of said slot, whereby to hold said member against rotation.

2,313,318
FRUIT JUICE EXTRACTOR
Gustave O. Brown and Alexander Vinogradoff, San Francisco, Calif.
Application August 2, 1940, Serial No. 349,560
14 Claims. (Cl. 146—3)



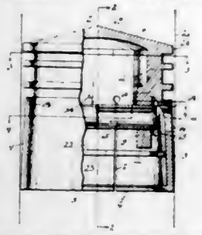
1. In a fruit juice extractor a pair of separable holders for holding a fruit therebetween, means to carry the holders together on the same circular path, a knife held in the circular path, said pair of holders being parallel to the axis of said circular path and being so spaced from each other outwardly axially of the circular path and on each side thereof that the space therebetween passes past said knife so as to carry the fruit over said knife for cutting the same, a pair of spaced reamers held substantially parallel with a radius of said circular path at a point past said knife in the direction of the circular movement of said holders, means to turn said holders away from each other and to positions substantially at right angles to said axis and spaced positions corresponding to the spacing of the reamers from each other and toward said reamers, means to reciprocate the separated pair of holders and the halves of cut fruit therein substantially at right angles to said axis of said circular path toward said reamers and to hold said holders and fruit against the respective reamers for a predetermined period, means to eject the reamed fruit parts from the separated holders past said reamers on said circular path, and means to turn said holders to opposed position for gripping a whole fruit for the next cycle of operation.

2,313,319
APPARATUS FOR THE HANDLING AND DEVELOPING OF MOTION PICTURE FILMS
Cuno Bryant, Multnomah County, Oreg.
Application July 10, 1940, Serial No. 344,745
1 Claim. (Cl. 95—93)



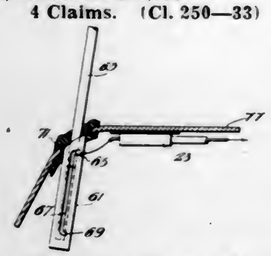
In a motion picture film developing machine, a water tank containing a plurality of chemical trays so arranged as to permit the water in said tank to contact a large portion of the outer surface of said chemical trays, a drumlike film holder adapted to rotate with a portion of its film bearing surface submerged in a solution in any selected chemical tray, a movable carriage support for said drumlike film holder, a track for said carriage, and means for raising and lowering said track to permit the moving of the film holder from one tray to another.

2,313,320
PISTON
David Bushby, Regina, Saskatchewan, Canada, assignor to The Vacuum Air Pressure Company Limited, Regina, Saskatchewan, Canada
Application June 14, 1940, Serial No. 340,605
6 Claims. (Cl. 309—11)



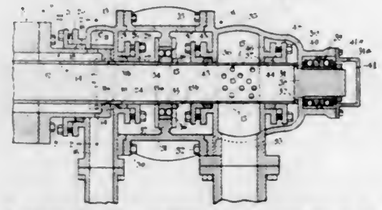
1. A piston body characterized by the provision of a skirt circumferentially tapering outwardly from a transverse plane inedially of the length thereof, a pair of aligned, spaced diametrically disposed, annular, downwardly depending, piston pin bearings within the hollow interior of said skirt and spaced therefrom, said bearings being secured to said body at the upper parts only.

2,313,321
ANTENNA
Wendell L. Carlson and William H. Conron, Haddonfield, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Original application June 13, 1936, Serial No. 85,022. Divided and this application October 14, 1940, Serial No. 361,136
4 Claims. (Cl. 250—33)



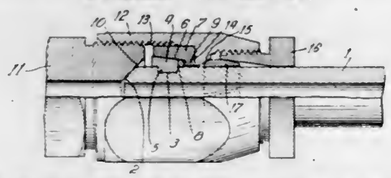
1. In combination with a vehicle having a compartment defined at least in part by a windshield and a roof portion having an opening therein, a member fixed in the compartment adjacent said windshield, means providing a main antenna member slidably associated with said fixed member in telescopic relation therewith for projection through the roof portion into signal receiving position, electrical insulating and waterproof sealing means disposed in said roof opening for supporting said antenna members in alignment with said opening, and means normally connected to said main antenna member and operable from within said compartment for projecting said main antenna member into signal receiving position above the roof at an acute angle to and rearwardly of said roof portion and for retracting the same into a position within said compartment.

2,313,322
STEAM JOINT
Russell Carpenter, Three Rivers, Quebec, Canada
Application January 8, 1942, Serial No. 426,061
In Canada December 13, 1941
3 Claims. (Cl. 285—10)



3. A steam joint assembly comprising a pair of stationary casings fastened to opposite sides of an interposed bearing casting, a steam supply pipe passing through both of said casings and through said bearing casting, pipe supporting bearing means interposed between said bearing casing and the portion of the pipe passing therethrough, one end of said pipe being closed and journalled in a bearing housing supported by one of said casings, a portion of the pipe passing through one of said casings being provided with apertures whereby the interior of said pipe is placed in communication with the interior of said casing to receive steam therethrough.

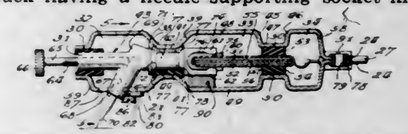
2,313,323
INJECTOR TUBE COUPLING MEANS
Irving Cowles, Detroit, Mich.
Application January 27, 1941, Serial No. 376,190
8 Claims. (Cl. 285—87)



1. An all metal conduit including a seat member, a length of pipe seated at one end thereon and equipped adjacent said end with an annular groove, a multi-piece collar having a longitudinal gap therein and equipped between its ends with a rib engaged in said groove for engagement with portions of the pipe adjacent the respective ends of said groove, a sleeve nut having threaded engagement with said seat member, and means on said collar and within said sleeve nut co-operating with each other to maintain said collar clamped in firm engaging relation to the pipe and effecting and maintaining seating of said pipe end as said nut attains one limit of its movement with respect to the seat member without effecting complete closure of the gap in said collar.

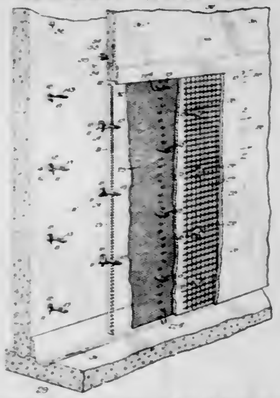
2,313,324
CRYSTAL PICKUP UNIT
Roy Dally, Racine, Wis., assignor to Webster Electric Company, Racine, Wis., a corporation of Delaware
Original application June 3, 1940, Serial No. 338,519, now Patent No. 2,261,616, dated November 4, 1941. Divided and this application October 3, 1941, Serial No. 413,389
4 Claims. (Cl. 179—100.41)

1. In a crystal cartridge unit the combination of a housing of rigid material with a crystal secured in said housing and having one end clamped by live resilient non-metallic cushions interposed between both sides of the crystal and the housing, a chuck connected to said crystal and movably supported in said housing, said chuck having a needle-supporting socket mem-



ber depending therefrom and extending through an aperture in said housing, and rigid adjustable stop means located at said aperture, said stop means being adjustable after the unit has been completed for the purpose of limiting lateral displacement of the chuck beyond a predetermined point.

2,313,325
FLOATING WALL CONSTRUCTION
Byron W. Dalton, Chicago, Ill.
Application September 14, 1940, Serial No. 356,742
14 Claims. (Cl. 72—118)

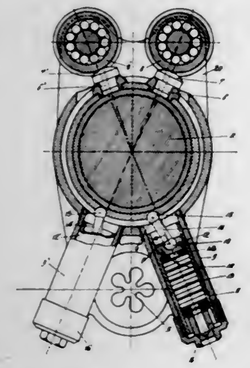


1. In combination with a backing wall or other structural element, a row of resilient hangers each having a head of U-shaped formation, the outer leg of the head being secured to the backing wall, a hanger strip secured to the row of hangers and provided along its edge with tongues, certain of the tongues being bent laterally to afford a backing support, a mesh fitted to the hangers at a distance outwardly from the backing wall and bearing against the laterally projecting backing tongues and having the intervening tongues projecting through the mesh and bent to overlap the outer surface of the mesh, and a plastic coating applied to the mesh to afford a separated inner wall structure.

2,313,326
PROPELLER HAVING AN AUTOMATICALLY VARIABLE PITCH
Dimitri Sensaud de Lavaud, Paris, France
Application January 31, 1939, Serial No. 253,719
In France November 8, 1938
5 Claims. (Cl. 170—164)

1. In a variable pitch propeller, a plurality of blades, a torsion rod for each blade, a hub including means for mounting each torsion rod, the axes of said rods being in spaced relation and oblique relative to the axis of rotation of the hub, means for exerting a torque upon each of said blades, each of the last named means being

operable after the blade to which it is operatively connected has angularly moved about the axis of its respective torsion rod from a predetermined position, said torque being in response to a lateral displacement of each blade upon the hub, one or more intermediate members for each one of said blades, and resilient means for urging each inter-



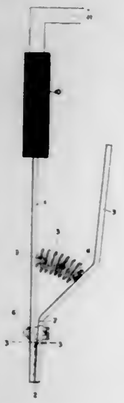
mediate member towards the blade to which it is operatively connected, said intermediate members extending radially to the cross section of their respective blade when the latter is in an initial position and extending obliquely to a radius of said cross section when the respective blade has moved angularly from said initial position.

2,313,327

HOLDER FOR WELDING RODS

Aaron Henry Erickson, West Lancaster, Pa., assignor to Lancaster Iron Works, Inc., Lancaster, Pa.

Application January 18, 1941, Serial No. 374,965
6 Claims. (Cl. 219—8)



1. In a holder comprising a stationary lower bar, a relatively movable upper bar, a pivot strap fixedly secured to said lower bar and movably supporting said upper bar, spring means tending to keep the forward ends of said bars together and an integral rounded projection on said upper bar contacting said pivot strap so that said upper bar may move in all directions and thereby exert a large clamping area.

2,313,328

PRINTING INK

Donald Robert Erickson and Paul J. Thoma, Kalamazoo, Mich., assignors to Michigan Research Laboratories, Inc., Kalamazoo, Mich.

No Drawing. Application June 4, 1942, Serial No. 445,802
4 Claims. (Cl. 260—31)

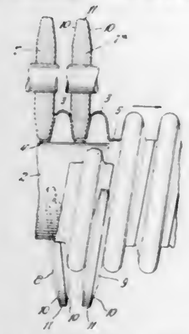
4. A printing ink comprising a varnish stable against separation of the binder at high atmospheric humidity conditions comprising a liquid polyglycol as a solvent and a binder comprising resin selected from the group consisting of rosin modified by an alpha beta unsaturated organic polybasic acid and a terpene hydrocarbon of the formula $C_{10}H_{16}$ modified by an alpha beta unsaturated organic polybasic acid, mixed with an alkyd resin soluble in ethyl alcohol and said polyglycol, comprising the condensation product of a polybasic acid and a polyhydric alcohol modified with a non-drying ethyl alcohol liquid polyglycol soluble oil, and a pigment.

2,313,329

METHOD OF PRODUCING FLEXIBLE METAL HOSE

Karl H. Evert, Elmhurst, Ill.

Application June 16, 1941, Serial No. 398,272
3 Claims. (Cl. 219—10)



1. The method of making flexible tubing from a strip of bendable weldable material having an undulated transverse profile and a lateraly directed flange extending along each edge of the profiled strip, comprising the steps of guiding said profiled strip into a helical path around a smooth faced cylindrical mandrel with the flanges of the strip proximately encircling said smooth faced mandrel and with a flange in each convolution of the guided strip in overlapping relation with the other flange in the next preceding convolution whereby a helical trough is provided radially outwardly of said overlapping flanges, said guiding of the strip acting to maintain said convolutions in given spaced relation axially for a given overlap of said flanges, pressing said flanges together and against said smooth faced mandrel at a locus through which said flanges are helically moved by applying a force radially outwardly of the tubing upon a portion of the inner of said overlapping flanges while applying a second force upon the outer side of said outer flange portion contiguous to said inner flange portion, said second force comprising a force component directed oppositely to the radially outwardly applied force for coacting therewith in pressing said flange portions together and a force component directed tangentially of the tubing for causing the same to rotate and thus advance the overlapping flanges

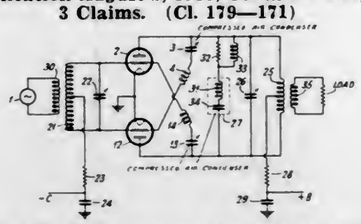
through the locus where said forces are applied, and welding said flanges at said locus while the flanges are pressed against said mandrel at said locus by passing an electric current through said flanges to said mandrel which acts as an electrode to effect a resistance weld of the flanges.

2,313,330

PARASITIC OSCILLATION SUPPRESSION WITH COMPRESSED AIR CONDENSERS IN THERMIONIC CIRCUITS

James L. Finch, Patchogue, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application August 2, 1939, Serial No. 287,934
3 Claims. (Cl. 179—171)



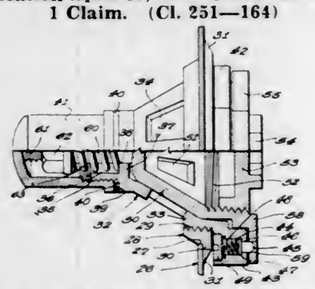
1. In a high frequency wave energy system a circuit including an electron discharge device coupled in said circuit, an anode circuit, said anode circuit having an inductance and a capacity in parallel tuned to resonance at the frequency of said wave energy, said capacity being of the compressed air dielectric type having high capacity per unit of space occupied and having inherent inductive reactance which with other circuit capacities produces a resonant circuit at frequencies other than the frequency of said wave energy, and a resistance and second inductance in parallel therewith in said parallel resonant circuit, the value of said resistance being higher than the value of the reactance of said second inductance, the reactance of said resistance and of said second inductance being less than the reactance of said first named capacity.

2,313,331

TURNCOCK

William B. Flynn, Galeta, Calif.

Application April 30, 1941. Serial No. 391,218
1 Claim. (Cl. 251—164)



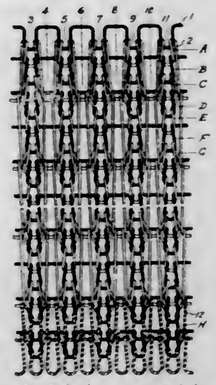
In a turn cock, a casing, means mounting the casing in the wall of a container, a plug mounted within the casing for circumferential sliding movement therein, means carried by the plug and engageable with the casing for limiting outward displacement of the plug from the casing, said casing having a depending lug formed with a bore, said bore having a reduced opening communicating with the outer surface of the lug, a latch member in the bore and having a portion thereof extending through the opening and past the outer surface of the lug, a spring normally urging the latch member outwardly, means retaining the spring and latch member in operative position within the bore and opening, a head carried by the plug, a lug carried by the plug and having an opening for receiving the latch member for releasably holding the plug in a set position, and means on the head of the plug for limiting movement of said head and plug to full open position.

2,313,332

KNITTED FABRIC

Oscar Fregeolle, Central Falls, R. I., assignor to Hemphill Company, Central Falls, R. I., a corporation of Massachusetts

Application June 4, 1941, Serial No. 396,500
8 Claims. (Cl. 66—172)



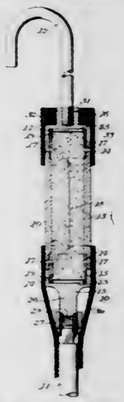
1. A knitted fabric comprising elastic and inelastic yarns, said elastic yarn being knitted under tension so as to contract and draw the fabric together laterally, inelastic yarn at and adjacent the edge of the fabric being lighter than continuing inelastic yarn whereby the fabric may be drawn together to a greater extent at the edge than in following courses.

2,313,333

FUSED FEEDER TAP

Albert H. Genter, Mount Lebanon Township, Allegheny County, Pa.

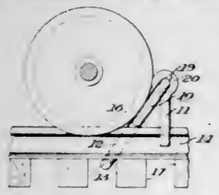
Application August 23, 1941, Serial No. 408,128
7 Claims. (Cl. 200—115.5)



1. In a feeder tap comprising insulated ter-

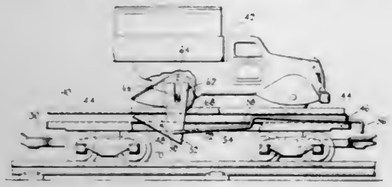
minals adapted to be connected to a feeder line, a unitary electrical protective device consisting of a relatively large diameter tube of insulating material forming a hand grip, nipples fixed to the ends of the tube and arranged to be connected by hand to the terminals, a fuse element extending lengthwise within the tube and having its ends directly connected to the nipples, granular material inserted around the surface of the fuse element and filling the tube, caps pressed in the outer ends of the nipples to completely enclose the fuse element and retain the granular material therein, the tube serving as a hand grip as well as the fuse enclosure of the feeder tap when an electric current is passing therethrough.

2,313,334
CAR STOP
Albert H. Genter, Mount Lebanon, Pa.
Application July 22, 1942, Serial No. 451,869
10 Claims. (Cl. 104—258)



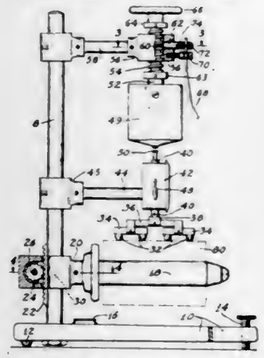
1. A car stop comprising a bar shaped to provide an open sided pocket which, when the stop is slid onto the rail from one side of the latter, embraces the rail, the upper portion of the bar being then positioned in the path of a car wheel, and a member carried by the upper portion of the bar and arranged to depend along the other side of the rail to prevent the accidental dislodgment of the stop from the rail.

2,313,335
TOY RAILWAY SYSTEM
Donald V. Godfrey, Girard, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y., a corporation of New York
Application May 3, 1941, Serial No. 391,672
8 Claims. (Cl. 214—44)



1. A toy railway car comprising a chassis, wheeled trucks carrying said chassis, a vehicle runway on top of said chassis, said runway being pivoted at one end, means for elevating the opposite end to incline the runway for discharge of a vehicle therefrom, and a slotted ejector for either holding or ejecting a vehicle from the runway, said ejector comprising an upwardly projecting member having a downwardly extending slot dimensioned to receive an axle of the toy vehicle and to thereby prevent longitudinal movement of the vehicle on the runway, said member being pivoted for downward and forward movement in such a manner as to force the vehicle along the runway and to then disengage the slot from the axle.

2,313,336
APPARATUS FOR TESTING THE DENSITY OF THREAD PACKAGES
Elliot B. Grover, Providence, R. I., assignor to Manville Jenckes Corporation, Manville, R. I., a corporation of Delaware
Application May 11, 1940, Serial No. 334,562
6 Claims. (Cl. 265—12)

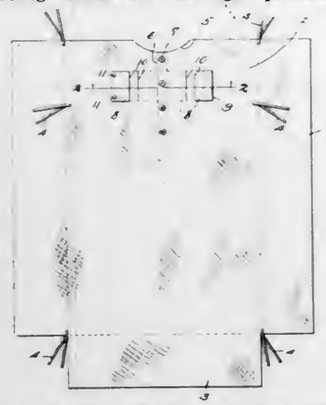


1. In a testing apparatus for testing the density of hollow thread packages for dyeing and similar operations, the combination of a support having a package engaging surface of substantial area for supporting the package wall, a presser foot engageable against an opposed face of the package wall comprising a plurality of contact members spaced from one another and each having a substantial package engaging surface area extending over a plurality of threads of the package wind, a stem on which said presser foot is movable toward and away from the support, means for supporting the contact members from the stem arranged to permit relative movement of said contact members and including means for transferring pressure from said stem in equal amounts to the several contact members, means for moving said stem to engage the presser foot against the package wall under an initial pressure, means acting on the stem to increase the engaging pressure of the presser foot against the package by a predetermined amount, and an indicator connected with the stem to indicate the distance of movement of the stem and presser foot thereon into the package wall caused by said predetermined increase of the engaging pressure.

2,313,337
CRIB COVER
John Gurke, Bethesda, Md.
Application March 29, 1941, Serial No. 385,934
1 Claim. (Cl. 5—336)

A device of the class described including an imperforate cover recessed in one end to embrace but not surround the neck of an infant when positioned under the cover, means for attaching the cover to the sides of a crib or the like, there being a fly opening extending into the cover from the end recess, said fly opening being of such length as to permit lowering of an infant therethrough when the fly is open, means for closing the fly opening, a band extending transversely beneath the fly opening for embracing a portion of the back of an infant positioned under the cover, and means for adjustably connecting the end portions of the band to the cover thereby to provide an infant-engaging loop adaptable to infants of different girths, said means including parallel slots in the

cover at opposite sides of the fly opening, the band being extended through predetermined

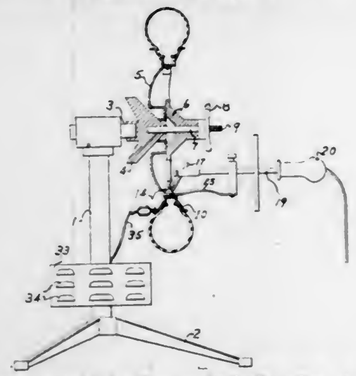


slots from the top of the cover, the connecting means at one end of the band being detachable.

2,313,338
ELECTROLYTIC ZINC DUST PROCESS
William Henry Hannay and Basil Joseph Walsh, Trail, British Columbia, Canada, assignors to The Consolidated Mining & Smelting Company of Canada Limited, Montreal, Quebec, Canada, a company of Canada
No Drawing. Application June 25, 1937, Serial No. 150,326
7 Claims. (Cl. 204—10)

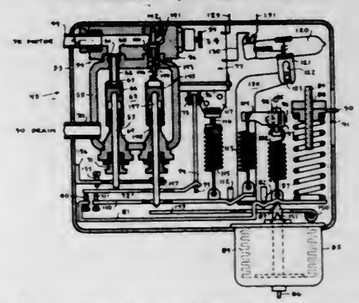
1. A process for the continuous electro-deposition of sponge zinc in a cell containing alternate insoluble positive electrodes and negative electrodes which comprises continuously electrolyzing a substantially neutral zinc sulphate solution containing from 10 to 15 grams of zinc per litre and from 20 to 30 grams of ammonium sulphate per litre and maintaining the neutrality and predetermined concentration of the electrolyte by the addition thereto of zinc oxide and ammonium sulphate.

2,313,339
METHOD OF WHEEL BALANCING
Terence G. Hare, Ypsilanti, Mich., assignor to The Amesbury Seat Manufacturing Co., Ypsilanti, Mich., a corporation of Michigan
Application September 17, 1941, Serial No. 411,252
5 Claims. (Cl. 301—5)



1. The method of counterbalancing a wheel having a rim, a tire and a tube on said rim which consists in locating and in measuring the amount which the assembly is out of static balance, in placing a steel weight having a small area projection on said wheel inwardly of said rim intermediate the bearings of said wheel whereby a correction for static balance will also correct for dynamic balance, in electrically insulating a portion of said weight from that part of the wheel to which it is to be welded whereby the small area projection contact remains, and in directing an electrical current through said small area and into the wheel thereby melting said weight at said small area onto said wheel to form a small brittle weld therebetween.

2,313,340
COMBUSTION CONTROL
John L. Harris, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application December 23, 1939, Serial No. 310,687
11 Claims. (Cl. 236—21)

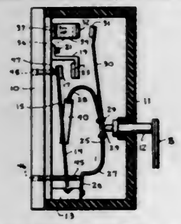


1. In a burner control system, in combination, a fuel burner, a main valve for controlling the flow of fuel to the burner, a pressure motor comprising a chamber having a movable wall for moving said valve in opening direction, biasing means for biasing said main valve towards closed position, a source of actuating fluid for the motor, means including pilot valve means communicating with said source and said pressure motor for varying the pressure applied to said motor, a first controller actuated in accordance with a condition indicative of the required output of the burner for actuating said pilot valve means, minimum flow stop means operating in response to the position of the main valve to limit control of said pilot valve means by said first controller for preventing said first controller from reducing the burner output beyond a predetermined minimum necessary for proper burner operation, and a second controller actuated in response to said condition for reducing the force applied to said pressure motor independently of said first controller for thereby causing complete closing of said main valve in the event that the value of said condition indicates that the minimum output of said burner is too great.

2,313,341
SNAP ACTION SWITCH
Gifford I. Holmes, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application February 9, 1940, Serial No. 318,109
7 Claims. (Cl. 74—100)

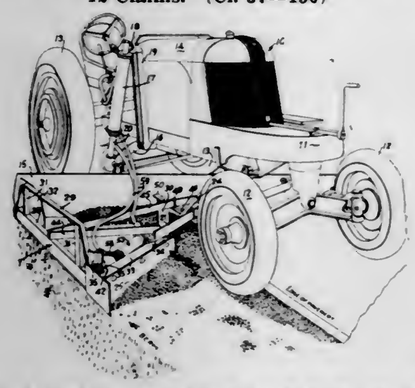
1. In combination, a movable actuating member operatively mounted at one end with the other end free to move for exerting a force, a

first movable control member resisting said force, said control member being movable between two stable positions and said actuating member having three operating positions, a second movable control member carried by said actuating member, and a connecting link between said first movable control member and the free end of said actuating member to obtain said force relationship between said two members, said link being disposed at an acute angle to said first movable control member and said actuating member, said angle determining the correlation of said force between said two members, said actuating member being capable of storing a force to cause said



link to move toward said first movable control member with a spring rate compensation snap action, said second movable control member being capable of stopping such movement before said link has passed beyond an overcenter position in relation to said first movable control member, said actuating member being capable of further moving said link to cause said link to pass overcenter in relation to said first movable control member to thereby cause said member to change its position with an over-center snap action, and means for causing movement of said actuating member by variations in a variable condition.

2,313,342
EARTH HANDLING MACHINE AND BERM FINISHER
Daniel S. Hoover, Mansfield, Ohio, assignor to The Huber Manufacturing Company, Marion, Ohio, a corporation of Ohio
Application October 9, 1941, Serial No. 414,362
12 Claims. (Cl. 37—150)



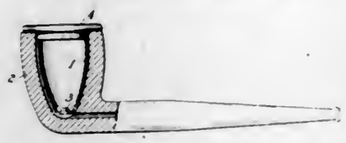
1. A materials handling apparatus for surfacing the berm of a paved road including means for loosening some of the earth from the berm and for directing the same toward the edge of the pavement, means preventing the loosened earth from being directed upon the pavement, means for regulating the quantity of earth loosened by said loosening means that is directed against said last mentioned means, and means for gathering the loosened earth for redistributing the same over the surface of the berm.

2,313,343
DEVICE FOR SMOKERS' PIPES
Ezekiel J. Jacob, New York, N. Y., assignor to Benjamin Liebowitz, New York, N. Y.
Application January 22, 1941, Serial No. 375,421
9 Claims. (Cl. 131—208)



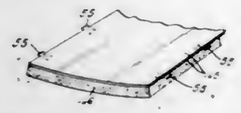
1. A sack-like device adapted to lie in the bowl of a smoker's pipe and to contain the tobacco while it is smoked, said sack-like device comprising a binder-free absorbent layer of absorbent yarns consisting each of a great number of fine glass filaments.

2,313,344
SMOKING DEVICE
Ezekiel J. Jacob, New York, N. Y., assignor to Benjamin Liebowitz, New York, N. Y.
Application May 23, 1941, Serial No. 394,895
4 Claims. (Cl. 131—208)



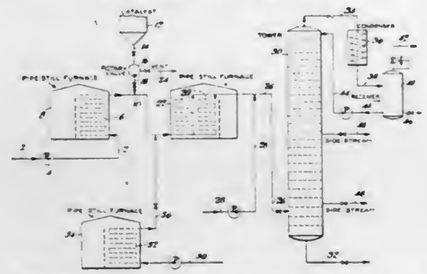
1. A sack-like device adapted to lie in the bowl of a smoker's pipe and to contain the tobacco while it is smoked, said sack-like device comprising a heat resistant absorbent layer lying during use of said device at least partly in the combustion zone of said pipe, said layer consisting of fine glass filaments and fine metallic wires.

2,313,345
THERMAL INSULATION
W Bartlett Jones, Chicago, Ill., assignor to Wood Conversion Company, Cloquet, Minn., a corporation of Delaware
Application December 14, 1939, Serial No. 309,165
8 Claims. (Cl. 20—4)



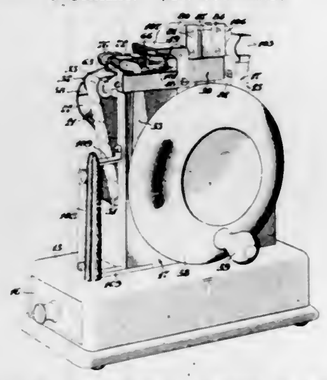
1. Insulation for insertion between spaced parallel supports comprising a strip of insulation material of width sufficient to extend from support to support, and a resilient bowable facing having a corrugated element thereon, said facing being secured at least to the area of the insulation intermediate the edges and having a width greater than the inter-support space, whereby the facing may be mounted in bowed position between the supports to aid in mounting the insulation between said supports.

2,313,346
CATALYTIC CONVERSION OF HYDROCARBON OILS
William Kaplan, Malverne, N. Y., assignor to Cities Service Oil Company, New York, N. Y., a corporation of Pennsylvania
Application October 2, 1939, Serial No. 297,452
6 Claims. (Cl. 196—52)



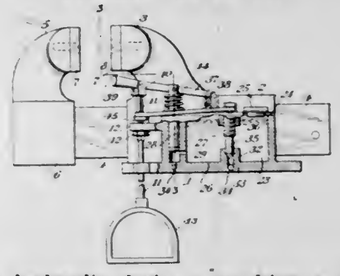
1. The process of manufacturing aromatic hydrocarbons from a mixture of highly heated cracked products produced by the steps of heating a hydrocarbon distillate in a heating zone under temperature, pressure and time conditions sufficient to effect partial conversion thereof into a mixture of cracked products low in aromatic hydrocarbons containing at least approximately 50% of unsaturated olefinic hydrocarbons, which comprises intimately mixing a finely divided activated carbon catalyst with said mixture of highly heated cracked products and passing the resulting mixture through a reaction zone in which it is maintained at a temperature of from 970° to 1050° F. for a considerable period of time adapted to convert said products into a final product containing a relatively high percentage of aromatic hydrocarbons, maintaining the active carbon catalyst in intimate dispersion in the mixture in the reaction zone, and separating the desired aromatic hydrocarbon fractions from the final product.

2,313,347
PRICE TAG MARKING MACHINE
Frederick Kohnle, Dayton, Ohio, assignor to The Monarch Marking System Company, Dayton, Ohio, a corporation of Ohio
Original application June 5, 1939, Serial No. 277,363. Divided and this application January 16, 1940, Serial No. 314,116
8 Claims. (Cl. 271—2.5)



1. In a price marking machine, a frame providing a guide channel adapted to receive a strip of tickets, said channel including an inner longitudinal guiding edge, each ticket including a laterally projecting clip, and a guide plate disposed along the outer side of the guideway adjacent the clips, the upper edge of said plate notched to provide rest portions for each clip disposed in the plane of the base of the guide channel, the balance of the edge portions of the guide plate being of sufficient height to constitute the outer guiding edge for the strip of tickets.

2,313,348
HYDRAULIC CLAMPING DEVICE AND PUNCH
Frank Henry Kvapil, Berwyn, Ill.
Application October 20, 1941, Serial No. 415,807
2 Claims. (Cl. 81—17)

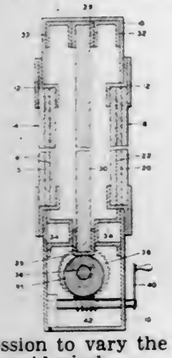


1. A hydraulic device comprising a base, a hollow body secured to the base, a stationary jaw secured to and rising from the body, a spring pressed movable jaw provided with a shank slidably mounted through the body, a cylinder extending longitudinally of and within the body, a piston mounted for reciprocation in the cylinder and connected to the shank, a fluid reservoir, a pump for forcing fluid from the reservoir into the cylinder in advance of the piston for closing the movable jaw relative to the stationary jaw, said pump including a plunger extending vertically through the reservoir, a lever pivotally connected intermediate its ends to the upper end of the plunger and having one end pivotally anchored, a rod pivotally connected to the lever adjacent to its opposite end and depending therefrom, guiding means for the rod, a foot stirrup secured to the lower end of the rod for actuating the pump through the medium of the lever, a valve for releasing said fluid from the cylinder to allow return of the movable jaw to open position, and means operated by a slight oscillation of the stirrup for opening the releasing valve.

2,313,349
VARIABLE DENSITY WINDOW
Edwin H. Land, Cambridge, Mass., assignor to Polaroid Corporation, Dover, Del., a corporation of Delaware
Application December 12, 1940, Serial No. 369,762
10 Claims. (Cl. 88—65)

1. A variable density window comprising, in combination, frame means providing a window aperture of substantial area, means providing a plurality of light-polarizing elements at least substantially of the area of said aperture, a sheet of light-transmitting, resilient material at least substantially of the area of said aperture and adapted when subjected to a predetermined compression in the plane thereof to function as a half wave retardation device, means for mounting said elements within said frame in substantially parallel relation, said sheet being positioned between and substantially overlying said

polarizing elements, and releasable means for subjecting at least said sheet to said predeter-



mined compression to vary the amount of light transmitted by said window.

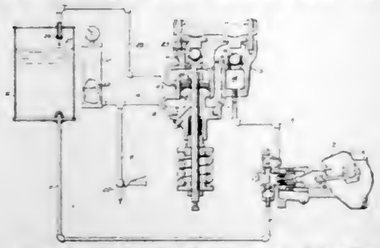
2,313,350
SAFETY WASH TANK
William A. Lebus, Chicago, Ill., assignor to Protectoseal Company of America, Inc., Chicago, Ill., a corporation of Illinois
Application May 24, 1940, Serial No. 336,990
5 Claims. (Cl. 220—89)



1. In a device of the class described and in combination, a tank, a cover hingedly connected thereto, a stop for said cover when in open position, a bracket having a stud thereon secured to said cover, an elongated member slidably mounted on said bracket, said member having a laterally bent portion adjacent one end thereof and a head adjacent its opposite end portion, a stud on said head, a substantially arcuate shaped compressively stressed spring pivotally connected at one of its ends to the laterally bent portion of said member and at its opposite end pivotally connected to said tank, and a fusible link connecting said studs for releasably securing said elongated member in retracted position and to retain the stress in said spring, for all positions of the cover with said link intact.

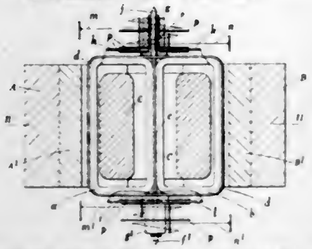
2,313,351
PRESSURE REGULATING MEANS
Roy M. Magnuson, Campbell, Calif., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application May 6, 1940, Serial No. 333,521
20 Claims. (Cl. 105—42)

1. A pressure regulator, having a supply passage to receive fluid from a pump, a discharge passage for receiving fluid from said supply passage and for connecting with a service outlet, a by-pass, a by-pass valve controlling communication between said by-pass and said supply passage, means responsive to the fluid pressure in said discharge passage for opening said by-pass valve when flow of fluid from said service outlet is restricted to thereby divert flow of fluid from said supply passage to said by-pass, and back pressure producing means for reducing the pressure differential between the by-pass and discharge passages when said by-pass valve is



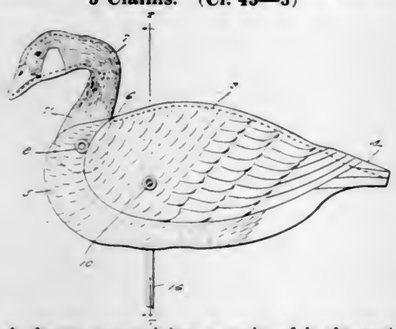
open, whereby to facilitate closure of the by-pass valve when normal flow at the service outlet is resumed and to facilitate rapid resumption of normal pressure and volume at said outlet.

2,313,352
ELECTRICAL MEASURING INSTRUMENT
Cyril Midworth, Chiswick, London, England, assignor to Evershed & Vignoles Limited, Chiswick, London, England, a British company
Application January 5, 1940, Serial No. 312,598
In Great Britain November 18, 1939
6 Claims. (Cl. 171—95)



1. A moving element for an electrical measuring instrument of the moving coil type, comprising a pair of coils disposed back-to-back in a common plane, and a continuous metallic shroud surrounding said pair of coils in said common plane, said shroud forming only one closed path for damping currents and serving to hold said coils rigidly together.

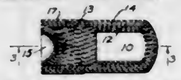
2,313,353
DECOY
John Howard Mills, Rockport, Tex.
Application May 9, 1942, Serial No. 442,363
3 Claims. (Cl. 43—3)



1. A decoy comprising a pair of body sections opposed side by side and having top edges stitched together from a point spaced from front

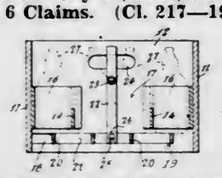
ends of the sections to the rear ends thereof and providing a shoulder between said top edges at said point, said sections being detached around the remainder of the edges thereof whereby the sections are adapted to be spread apart from said stitches, a combined head and neck forming panel pivoted between said front ends for swinging inwardly of said front ends in between said sections in an out-of-the-way hidden position and for swinging outwardly of said ends against said shoulder into upright position, and means mounted between said sections in the rear of said pivot and manipulative to spread said sections apart, said means comprising a wedge-shaped panel having one edge hinged to one section and its opposite edge swingable into engagement with the other section.

2,313,354
LOOM PICKER
John Edgar Moe, Denver, Colo., assignor to The Gates Rubber Company, Denver, Colo., a corporation of Colorado
Application October 2, 1941, Serial No. 413,252
2 Claims. (Cl. 139—159)



1. A loom picker comprising a body of resilient rubber containing material and of normally rectangular cross section in a plane perpendicular to its longitudinal axis, the body having an opening near one end for the reception of a picker stick, the other end having a recess for the reception of a shuttle end, the end having the recess being changed in shape by compression from one of rectangular to a substantially circular cross section in planes at right angle to the axis of the picker, and means for maintaining the cylindrical end of constant cross sectional area during operation, comprising a substantially inextensible band surrounding the cylindrical portion in close engagement therewith.

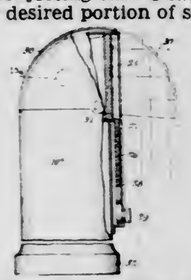
2,313,355
BOTTLE CASE
George Mordy, Pasadena, Calif.
Application February 17, 1941, Serial No. 379,243
6 Claims. (Cl. 217—19)



1. In a bottle case of the type having a web portion dividing said case into a plurality of compartments, a bottom structure adapted to slide in grooves in the walls of said case, said bottom structure including lateral ribs spaced substantially equidistant to the lateral ribs of said web portion, and means for shifting said bottom structure from position where said lateral ribs of said bottom structure underlie said lateral ribs of said web portion to position where said lateral ribs of said bottom structure lie across said compartments.

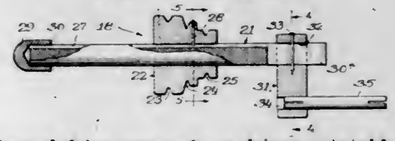
2,313,356
FLASHLIGHT ATTACHMENT
Fred M. New, New York, N. Y.
Application December 20, 1941, Serial No. 423,775
2 Claims. (Cl. 240—45)

1. An attachment for the light projecting end of a lamp housing containing a light source comprising shield means disposed to swing about an axis transverse to said housing for positioning the shield means either in front of said light projecting end or of any portion thereof, filter means adjacent said shield means, and means for moving said filter means toward and away from said light projecting end of said lamp housing to cover any desired portion of said light pro-



jecting end, said shield means and said filter means being supported and arranged in relation to each other and to the light projecting end of the lamp housing, so that the filter means may cover any desired portion of the light projecting end and the shield means may cover said light projecting end with the filter means in any adjusted position in front of the light projecting end or entirely away from it.

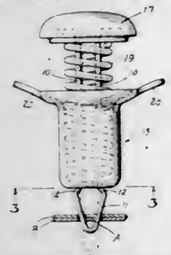
2,313,357
TOY CONSTRUCTION BLOCK
Charles Hamilton Pajeau, Evanston, Ill., assignor to The Toy Tinkers, Inc., a corporation of Illinois
Application December 22, 1941, Serial No. 423,905
1 Claim. (Cl. 46—26)



Manual drive means for a driven rotatable element fixed to a pulley wheel on a shaft in a toy construction block model in one part thereof, comprising a plurality of bearings in another part of said model, a driving shaft rotatably mounted in said bearings, said driving shaft having a longitudinal slot along one side thereof, a pulley wheel on said driving shaft, a pin extending through a portion of said pulley wheel and into said slot, the last mentioned pulley wheel and pin being slidable as a unit longitudinally of the driving shaft and rotatable therewith, a disk having a plurality of off-center openings therein, said disk being positioned adjacent the exterior end of one of said bearings, the end portion of the driving shaft extending through one of said off-center openings, a pin extending through a portion of said disk and into an opening in said driving shaft to lock the disk and driving shaft together for rotative movement, said disk acting as a stop member to substantially prevent longitudinal movement of the driving shaft in its bearings in one direction, a rod extending into another of said off-center openings in the disk and being frictionally held therein, said disk and rod providing a crank and handle for turning said driving shaft, a belt operatively connecting said pulley wheels, said pulley wheels being longitudinally slidable on their respective shafts to permit alignment of one pulley wheel with

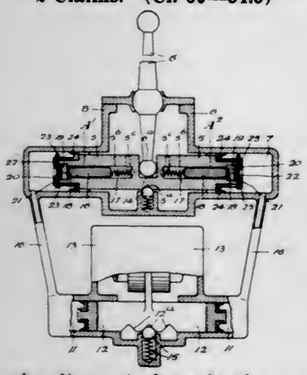
the other, a stop member on the other end of the driving shaft to prevent excess movement of the driving shaft in the other direction, said crank and handle being applicable to and removable from the driving shaft as a unit.

2,313,358
SKIN CLAMP
Glenn W. Periman, Los Angeles, Calif., assignor to Aircraft Tools Inc., Los Angeles, Calif., a corporation of California
Application December 31, 1941, Serial No. 425,089
1 Claim. (Cl. 85—5)



A skin clamp including a tubular clamping body having outstanding finger pieces at one end and a clamping base at its other end provided with spaced openings, a plunger including a stem portion through the body, having a pressure head beyond the first mentioned end of the body and a shouldered clamping head beyond the clamping base of substantially spear shape, said stem portion and said clamping head consisting of a single piece of U-shaped spring wire the extensions of which are offset adjacent to the lower bight end thereof below the clamping base, and which extensions project upwardly through the openings of the clamping base and have their upper terminals fixed to said pressure head, and a controlling spring around said stem between the pressure head of the plunger and the base of the body.

2,313,359
HYDRAULIC CONTROL MECHANISM
James Henry Pratt, Birmingham, Gilbert Edgar Manley, Earlswood, and Albert Henry Godfrey Girling, Edgbaston, Birmingham, England
Application June 19, 1941, Serial No. 398,806
In Great Britain July 26, 1940
2 Claims. (Cl. 60—54.5)

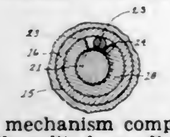


2. A hydraulic control mechanism comprising a liquid reservoir, a hydraulic system comprising a controlling member, and a controlled member hydraulically actuated thereby, a leakage passage extending between the reservoir and a point in the hydraulic system between said members, and a body inserted in and substantially obstructing the leakage passage, for accurately restricting the leakage capacity of the passage, said body being longitudinally reciprocable in the passage with variations in pressure, to prevent clogging of the portion of the passage that is restricted by said body.

2,313,360
PROCESS OF CONCENTRATING NON-METALLIFEROUS ORES
Anderson W. Ralston and Ervin W. Segebrecht, Chicago, Ill., assignors to Armour and Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application May 24, 1940, Serial No. 337,092
8 Claims. (Cl. 209—166)

5. In the separation of siliceous gangue from non-metalliferous ores the steps which comprise treating the ore with an alkali metal hydroxide solution, draining the solution from the treated ore, and then subjecting an aqueous slurry of the treated ore to a separation step for the removal of siliceous gangue in the presence of a primary aliphatic amine having at least twelve carbon atoms, the slurry having a pH in excess of 7.

2,313,361
CLUTCH MECHANISM
Ralph N. Richards, Kalamazoo, Mich., assignor to Wilma Rhodes Richards, Kalamazoo, Mich.
Application February 5, 1941, Serial No. 377,409
3 Claims. (Cl. 192—45)



1. A clutch mechanism comprising a cylinder, a longitudinally split sleeve disposed within said cylinder and cross sectionally thicker adjacent one wall of the split than adjacent the other wall thereof, a roller disposed between the opposite longitudinal walls of the split sleeve, and a shaft longitudinally slidably embraced within the split sleeve when rotated in one direction but in adjustable binding engagement with the cylinder when in oppositely rotated contacting engagement with the roller.

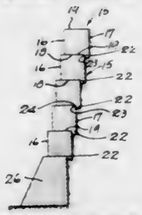
2,313,362
SHIPPING CARTON BLANK FOR CHAIRS
David Rous, New York, N. Y.
Application June 6, 1940, Serial No. 339,070
2 Claims. (Cl. 206—46)



1. A carton blank for chairs and the like comprising a sheet of cellulosic material such as corrugated paper board having two intermediate fold lines extending transversely thereof for part of its width, said fold lines bounding side margins of an intermediate or front panel and two

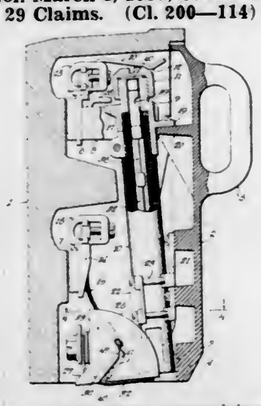
outer or side panels, each fold line merging into a transverse cut bounding the opposed margins of a foldable seat covering panel, each side panel being formed with a cut parallel with the first named cuts and bounding therewith the side margins of an additional seat covering panel the inner margin of an upwardly relatively narrow extension adapted to abut the side area of a chair back, and a back piece adapted for connection with said side panels.

2,313,363
RETAINING WALL AND BLOCK FOR THE SAME
George H. Schmitt, Oakland, Calif.
Application July 2, 1940, Serial No. 343,608
3 Claims. (Cl. 61—39)



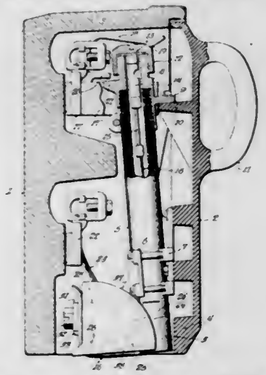
1. A retaining wall, comprising a plurality of separate blocks superimposed in rows so that each upper row is equally offset inwardly toward the bank of earth behind the wall, relatively to the next lower row, and a retaining member projecting from the bottom of each block adjacent the inside edge of said bottom so as to overlap the inner face of the next lower blocks adjacent said band of earth.

2,313,364
FUSE CONSTRUCTION
William O. Schultz, South Milwaukee, Wis., assignor to Line Material Company, South Milwaukee, Wis., a corporation of Delaware
Application March 4, 1939, Serial No. 259,809
29 Claims. (Cl. 200—114)



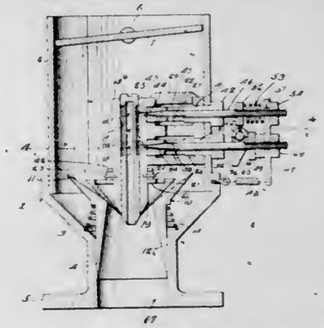
1. A fuse construction comprising a pair of contacts, a fuse tube, a switch movable independently of said fuse tube, a fuse link within said fuse tube connected in series with said switch between said contacts, means for moving said switch to open position upon rupture of said fuse link, and mechanism controlled by said fuse link for locking said switch in closed position without imposing strain on said fuse link from said switch, said mechanism releasing said switch upon rupture of said fuse link.

2,313,365
FUSE CONSTRUCTION
William O. Schultz, South Milwaukee, Wis., assignor to Line Material Company, South Milwaukee, Wis., a corporation of Delaware
Application March 4, 1939, Serial No. 259,810
34 Claims. (Cl. 200—114)



1. A fuse construction comprising a pair of contacts, a fuse tube, a fuse link within said fuse tube, a switch, said switch and fuse link being normally connected in series between said contacts, and fuse link extracting means distinct and separate from said switch and biased towards outward motion and having operative engagement with said switch to open said switch when said fuse link extracting means moves outwardly.

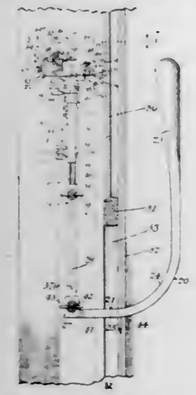
2,313,366
CARBURETOR
William Schwier, Milwaukee, Wis.
Application May 28, 1941, Serial No. 395,661
1 Claim. (Cl. 261—41)



A carburetor comprising a body, a nozzle carrier in the body, a fuel nozzle supported by the carrier, there being upper and lower chambers in the carrier, a source of fuel supply for the lower chamber, the carrier being provided with an opening connecting the chambers, upper and lower tubular guides extended across the respective chambers and in communication with the nozzle, the guides having openings communicating with the respective chambers, upper and lower needle valves slidable in the respective guides and controlling the flow of fuel through the guides to the nozzle, the upper valve being an idling valve, and the lower valve being a running valve, an air controlling valve in the body, above the nozzle, a cross head, means for connecting the lower needle valve fixedly but ad-

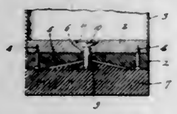
justably to the cross head, the upper needle valve passing through the cross head, for longitudinal sliding adjustment, spring means connected to the cross head for closing the valves, and mechanism operated in consonance with the air valve for opening the upper and lower needle valves.

2,313,367
WINDOW CLEANER
Eugene Simor, New York, N. Y.
Application October 1, 1941, Serial No. 413,101
2 Claims. (Cl. 15—220)



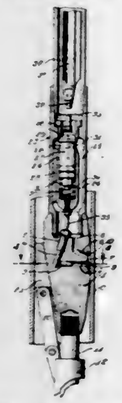
1. In a window cleaning device, a U-shaped frame adapted to saddle the window sash, a cleaning head at the end of the outer branch of said U-shaped frame, a plurality of cleaning and polishing elements on said head, a pin for said head in parallelism with said outer branch, said head being rotatable on said pin, a second pin at the end of said outer branch transversely thereto, said head also being rotatable on said second pin, whereby on pre-determined rotations of said head on both pins, a selected cleaning element will be placed into engagement with the window pane in a plane and in a position, as desired, a member between said head and said outer branch, said first pin being in said member to rotatably secure said head thereon, and said second pin being arranged transversely at the end of said outer branch, and said member being rotatable on said second pin, the end of said outer branch being forked, said second pin being secured in said fork, and said intermediate member depending from said head into said fork.

2,313,368
CIRCULAR SHOE HEEL
Alfred F. Smith, Sr., Scarsdale, N. Y.
Application August 14, 1942, Serial No. 454,844
2 Claims. (Cl. 36—39)



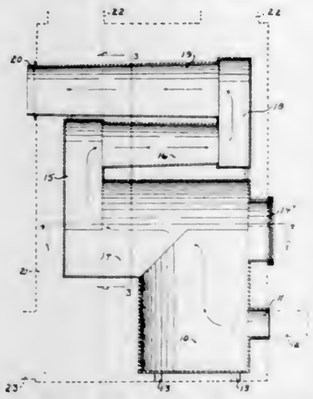
1. A shoe heel comprising a circular body secured beneath the heel portion of a shoe, said body having a substantially conical recess therein, a circular lift mounted beneath the body and including a substantially conical projection engaged in the recess, and means rotatably and adjustably securing the lift in position beneath the body, said means including a substantially conical nut embedded in the apex of the projection, and a screw passing downwardly through the heel portion of the shoe and the body and threadedly engaged with said nut.

2,313,369
FORMATION TESTER
Lloyd Spencer, Los Angeles, Calif., assignor to Lane-Wells Company, Los Angeles, Calif., a corporation of Delaware
Application February 28, 1940, Serial No. 321,298
20 Claims. (Cl. 166—1)



1. A gun perforator for well casing comprising: a gun body having a laterally directed gun bore, its muzzle end intersecting one side of the gun body; wedge means coacting with the opposite side of said gun body for wedging the muzzle end of said gun bore tightly against a surrounding casing; a tubing string for supporting said gun body; and means operable by manipulation of said tubing string for controlling said wedge means.

2,313,370
RADIATING FURNACE
Claude L. Spring, Des Moines, Iowa
Application December 18, 1940, Serial No. 370,584
1 Claim. (Cl. 126—99)



In a radiating furnace structure, a combustion chamber, a housing in communication with the upper end of said combustion chamber and having a smaller volume than said combustion chamber, a second housing having a smaller volume than said first mentioned housing, a plurality of tapered flue elements each having their larger ends in communication with said first mentioned housing and their smaller ends in communication with said second mentioned housing, and a tapered flue member having one of its ends in communication with said second mentioned housing being progressively reduced in area as it progresses away from said second mentioned housing and terminating in a stack flange; said first and said second mentioned housings together with said flue members presenting a continuous progressive reduction of capacity from said combustion chamber to said stack flange.

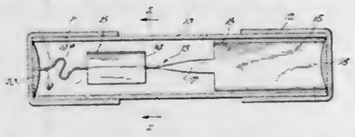
2,313,371
ELECTRODEPOSITION OF TIN AND ITS ALLOYS
James R. Stack, Pittsburgh, Pa.; Alvilda L. Stack, Montpelier, Vt., executrix of said James R. Stack, deceased, assignor, by mesne assignments, to Carnegie-Illinois Steel Corporation, Pittsburgh, Pa., a corporation of New Jersey
No Drawing. Application June 28, 1940, Serial No. 342,955
15 Claims. (Cl. 204—54)

1. An electrolyte for the deposition of a substance selected from the group consisting of tin, and tin-lead alloys, which comprises an acid solution of said substance and a sulphone of a substance selected from the group consisting of phenol, cresol, resorcinol and naphthol.

2,313,372
ELECTRODEPOSITION OF LEAD
James R. Stack, Pittsburgh, Pa.; Alvilda L. Stack, Montpelier, Vt., executrix of said James R. Stack, deceased, assignor, by mesne assignments, to Carnegie-Illinois Steel Corporation, Pittsburgh, Pa., a corporation of New Jersey
No Drawing. Application June 28, 1940, Serial No. 342,956
11 Claims. (Cl. 204—53)

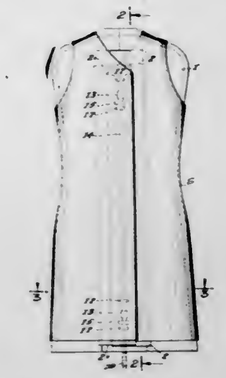
1. An electrolyte for the deposition of lead comprising lead in solution in benzene disulphonic acid and a sulphone of a substance selected from the group consisting of phenol, cresol, resorcinol and naphthol.

2,313,373
ELECTRIC FUSE
Edward V. Sundt, Arcadia, Calif.
Application July 25, 1942, Serial No. 452,267
6 Claims. (Cl. 200—131)



1. A fuse of the capsule type comprising a casing and a one-piece fuse element therein, said element comprising a fusible portion of minimum cross-sectional area and a portion of greater cross-sectional area having a greater current carrying capacity than said other area and provided with an integral formation rendering said latter portion sufficiently flexible to accommodate the longitudinal expansion and contraction of the element resulting from the heating and cooling thereof.

2,313,374
APPARATUS FOR RECONSTRUCTING FUR COATS
Richford A. Thomas, Aberdeen, S. Dak.
Application June 27, 1940, Serial No. 342,664
4 Claims. (Cl. 223—68)



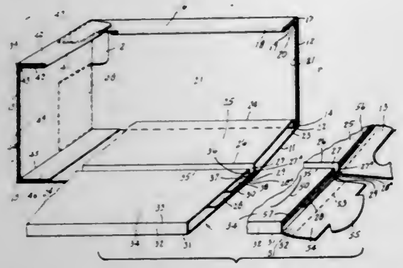
1. Apparatus for reconstructing fur coats comprising a hollow form open at its front, a pair of stretcher boards within the form and accessible from the open front thereof, the boards extending longitudinally of the form, each stretcher board being adapted for attachment to a margin of the cost body at a front longitudinal edge thereof, a plurality of sets of holding members for said stretcher boards, means common to said sets for simultaneously moving the boards of each set toward and from each other, and means for rigidly supporting the form during said movement of the stretcher boards.

2,313,375
CUT STRING BEAN GRADER
Albert R. Thompson, Los Gatos, Calif., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application October 6, 1939, Serial No. 298,226
1 Claim. (Cl. 209—95)



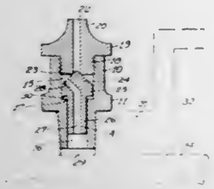
A grader for cut string beans and the like having a rotatable drum adapted to receive the pieces of cut string beans which are to be separated according to size, said drum being constructed of sheet metal and having cylindrical pockets, the cylindrical wall of each pocket projecting outwardly from the drum to provide a pocket having a depth greatly exceeding the thickness of the sheet metal of which the drum is constructed, the depth of said pocket being slightly greater than the thickness of a string bean, whereby a piece of cut string bean may lodge in said pocket and be entirely received therein provided the length of the piece is less than the diameter of said cylindrical pocket so that the piece can lie transversely of the pocket in size-gauging position.

2,313,376
COMBINATION SHIPPING AND DISPLAY CONTAINER FOR TOYS, ETC.
Martin Ullman, New York, N. Y., assignor to Auburn Rubber Corporation, Auburn, Ind., a corporation
Application July 3, 1940, Serial No. 343,738
15 Claims. (Cl. 206—44)



1. A paper board open top box structure adapted for telescopic inclusion within a sleeve-like shell for closure purposes, including a bottom forming body portion, a back wall and end walls, the end walls closing said shell, each wall being connected to the body portion, the back and end walls having additional inter-connection, and a front wall hingedly connected at its lower edge to the body portion and tiltable forwardly from box formation into platform position when the structure is separated from the shell for content display purposes, and inwardly directed rim means on the three first mentioned walls, each wall and rim means being of dual thickness from end to end and across the total width thereof, the three first mentioned walls and rim means thereon having wall interfitting connections and interfitting rim means connections for forming each of said connections of dual character at each corner.

2,313,377
SPRINGLESS GREASE FITTING
Samuel Weiss, Portland, Oreg.
Application April 27, 1942, Serial No. 440,593
6 Claims. (Cl. 184—105)



1. In a grease fitting of the character described for a bearing, a housing, a central opening extending through said housing, a closure on the outer end of said housing, a channel extending through said closure and connecting with said central opening of said housing, a valve slidable in said housing, said valve so arranged as to be spaced from the inner end of said channel of said closure when said valve reaches the extent of its travel inwardly, said valve adapted to bear against said closure when said valve reaches the extent of its travel outwardly, a grease passageway extending through said valve to permit grease to pass from the interior of said housing through said valve to the bearing, said passageway terminating on the outer end of said valve, at a point out of alinement with the inner end of said channel of said closure, thereby preventing communication from said passageway to said channel when said valve is in engagement with said closure but permitting passage of grease from said channel into said housing and thence through said valve passageway to the bearing when said valve is not in engagement with said closure.

2,313,378
ILLUMINATING DEVICE
Abraham Wolf, Brooklyn, N. Y., assignor to Noma Electric Corporation, New York, N. Y., a corporation of New York
Application May 21, 1941, Serial No. 394,481
8 Claims. (Cl. 240—10)

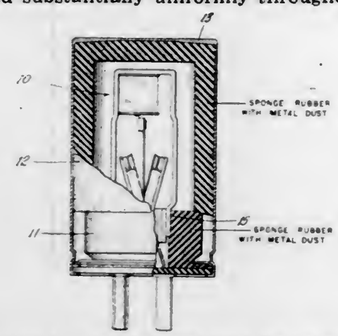


1. In an ornamental illuminating device of the character described, an electric light bulb, an ornamental mounting member attached in such position with respect to said bulb that an extreme portion of one side of said member will be disposed in predetermined relationship relative to an extreme portion of the bulb which is on the other side of said member, a pair of ornamental supporting members, said supporting members being spaced apart a distance slightly less than the space between the extreme portion of said mounting member and the extreme portion of said bulb, and resilient means to allow said supporting members to move apart whereby said supporting members will lightly frictionally and slidably grip between them said mounting member and said bulb at said extreme portions, one of said ornamental supporting members, said ornamental mounting member, and the other of said ornamental supporting members being successively disposed behind and having their side edges extending beyond the preceding member whereby to be visible at least in part from the front of said device.

2,313,379
MOUNTING MEANS FOR ELECTRICALLY OPERATED UNITS
Raymond E. Wood, Downers Grove, Ill., assignor, by mesne assignments, to Van Cleef Bros., Chicago, Ill., a firm consisting of Noah Van Cleef, Felix Van Cleef, and Paul Van Cleef
Application December 30, 1940, Serial No. 372,251
8 Claims. (Cl. 200—168)

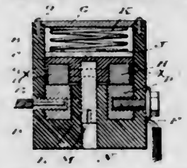
7. In combination with an electrically operated unit and a metallic casing in spaced relation around the unit, a mounting member surrounding a portion of the unit and in abutment with the casing and formed of sponge rubber and a filling or admixture of powdered metal having

comparatively high heat conductivity and distributed substantially uniformly throughout the



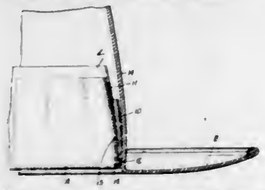
rubber and in such amount that the particles or grains are in contact with one another.

2,313,380
SAFETY SWITCH
Elmer H. Zimmer, Toronto, Ontario, Canada
Application May 2, 1941, Serial No. 391,472
1 Claim. (Cl. 200—42)



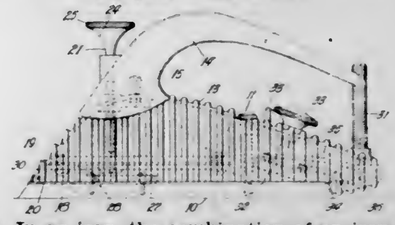
In a safety switch for motor vehicles and the like, comprising a casing having a chamber formed in one end thereof, a removable cover fitted over said chamber, a commutator fitted in rotatable relation in said chamber, a shaft extending from said commutator into a bore communicating into said chamber, contact members embedded in the said commutator, and contact members embedded in the base of said casing, a contact plate fitted in the periphery of said commutator, and a series of spring actuated terminal pins fitted in the periphery of said casing, a tension spring interposed between the said cover of said chamber and said commutator for maintaining an adjustable contact of the contact members of said commutator and contact members embedded in said casing, the said commutator adapted to be partially rotated for making and breaking contact with the respective contact members and means formed in said casing and commutator for limiting the rotation of said commutator therein.

2,313,381
HAT CONSTRUCTION
Ernest J. King, New York, N. Y.
Application January 25, 1941, Serial No. 375,876
6 Claims. (Cl. 2—181)



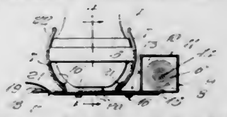
1. A method of securing a sweat-band to a hat which comprises stitching said sweat-band to a liner of a thermoplastic resin by thread of the same material as said liner, stitching said liner to the hat body with said type of thread, so that said liner is between said sweat-band and said hat body and applying a solvent of said stitched portions of said liner and thread over at least one of said stitched portions of said liner.

2,313,382
STEAM HAND IRON
Merrill M. Kistner, Chicago, Ill.
Application October 15, 1938, Serial No. 235,131
10 Claims. (Cl. 38—77)



8. In an iron, the combination of an iron body having a pointed nose and having a correspondingly shaped ironing base, means for supporting said base on one end thereof, a water reservoir in the nose portion of said body disposed immediately above said base when the iron is in its ironing position, heating means for said base, said base having an area of concentrated heat energy in its nose portion arranged directly opposite to said reservoir to receive and convert water into steam, and normally open adjustable valve means interposed directly beteween said reservoir and said area for controlling the flow of water from said reservoir to the point of steam generation, said valve means being so disposed in the nose portion of said reservoir as to locate the passageway therethrough above the water level in said reservoir when the base is supported on the end thereof to prevent a flow of water through the valve when the iron is upended.

2,313,383
TELEPHONE ATTACHMENT
Charles Kolodny, Baltimore, Md.
Application July 8, 1941, Serial No. 401,517
10 Claims. (Cl. 179—185)

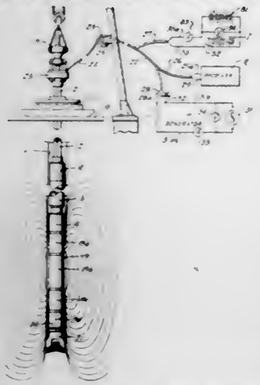


1. In a sanitary attachment for telephones, a supporting plate, a casing for a roll of paper at one end of said plate having a removable section constituting a closure therefor, means to guide the web of paper across said plate, raised means on said plate to prevent the paper from adhering to said plate, and a substantially hemispherical elastic member detachably mounted on the rear face of said plate and being of dimensions adapted to fit snugly about and frictionally grip the mouth-piece of a telephone.

2,313,384
MEANS FOR DETERMINING THE TECTONICS AND NATURE OF SUBSURFACE GEOLOGY
Robert E. Lee, Coleman, Tex., assignor, by mesne assignments, to Joseph H. Reynolds
Application April 28, 1939, Serial No. 270,503
5 Claims. (Cl. 175—182)

1. An apparatus for geophysical exploration.

including, a housing adapted to be connected in a drill stem, means carried by the housing for setting up an electrical field within the media surrounding said housing, a receiver at the sur-



face, and means mounted on the housing effected by the electrical field and connected with the receiver for indicating the physical distortion of the electrical field pattern as caused by the nature and characteristics of the formation.

2,313,385

PROCESS OF EXTRACTION OF OILS FROM HARDWOOD TAR AND PURIFICATION THEREOF

Jean Lévesque, Montreal, Quebec, Canada, assignor to The Province of Quebec, Department of Colonization, Quebec, Quebec, Canada

No Drawing. Application July 24, 1939, Serial No. 286,214

3 Claims. (Cl. 260—627)

1. The process of extracting oils from the fraction boiling at 80° C. to about 280° C. in the distillate from crude hardwood settled tar which comprises adding one to fifty parts of weight of calcium oxide to one hundred parts by weight of hardwood settled tar oils boiling between 80° C to about 280° C. under atmospheric pressure, heating and distilling the mixture under atmospheric pressure, and collecting the distillate, separating the layers from each other, adding to the oily layer sufficient alkali to dissolve the phenolic compounds, separating the two new layers obtained by the addition of alkali.

2,313,386

PROCESS FOR CONCENTRATION AND EXTRACTION OF ACETIC ACID IN AQUEOUS SOLUTIONS

Jean Lévesque, Montreal, Quebec, Canada

No Drawing. Application February 8, 1941, Serial No. 377,958

2 Claims. (Cl. 260—541)

1. A process for concentrating aqueous acetic acid comprising adding more than two parts by weight of tributylamine for each part of acetic acid, driving off the water from the solution by distillation under an absolute pressure of less than 780 mm. adding to the aqueous distillate an alkaline reacting compound capable of neutralizing acetic acid, in an amount sufficient to render the resulting solution alkaline, allowing the solution to settle, decanting and recovering the settled tributylamine from the solution, distilling the water-free tributylamine diacetate without decomposition under an absolute pressure of less than 760 mm. until the residue contains practically no acetic acid, recovering the residual tributylamine, distilling the tributylamine diacetate under atmospheric pressure in a fractionating column, recovering the acetic acid thus extracted and the tributylamine remaining in the fractionating still.

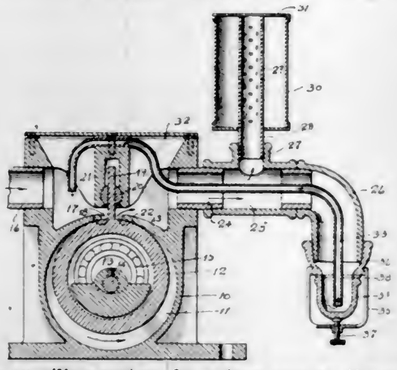
2,313,387

OILING SYSTEM FOR ROTARY PUMPS

Herbert A. McArthur, Mundelein, and John B. Decker, Evanston, Ill.

Application January 29, 1941, Serial No. 376,484

1 Claim. (Cl. 230—207)



In an oiling system for rotary pumps, the combination of a casing providing a rotor chamber and a rotor eccentrically mounted for progressive contact with the surrounding wall of the chamber to educt air therethrough, the rotor chamber being in communication with air inlet and air outlet chambers, the air outlet chamber having entered thereinto the inner end of an externally extending tubular passage provided with a port for the escape of air and being extended beyond said port and downturned to afford a passage for the separation by gravity of oil educted with the air from the rotor chamber, a cup below the end of the downturned passage, and a return oil duct having its end housed within the cup and extending backwardly therefrom through the tubular passage and through the casing to the air inlet side of the rotor casing and terminating at a point subjected to the suction occasioned by the current of air entering the rotor chamber.

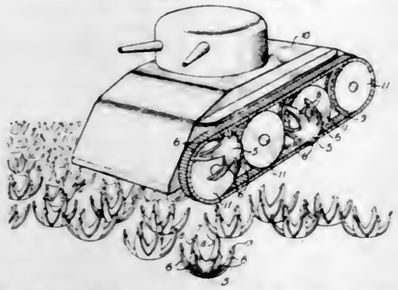
2,313,388

VEHICLE IMPEDING DEVICE

William J. McDonald, Kansas City, Mo.

Application May 9, 1941, Serial No. 392,759

11 Claims. (Cl. 256—1)



1. A vehicle impeding device, comprising a central body portion having a convexly curved side and having a plurality of arms thereon projecting away from said convexly curved side of said body portion, said body portion being adapted to be mounted rockably on a surface on said convexly curved side, said device having a normal tendency to assume a position with said arms projecting upwardly from said central body portion and being tiltable on said convexly curved side upon engagement of a vehicle with an arm on one side thereof to project arms on the other side thereof toward said vehicle.

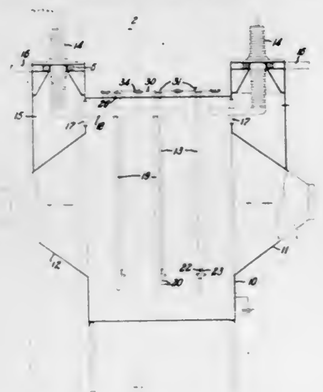
2,313,389

ELECTRICAL PRECIPITATOR

Archibald F. Meston, Bound Brook, N. J., assignor to Research Corporation, New York, N. Y., a corporation of New York

Application May 3, 1941, Serial No. 391,790

5 Claims. (Cl. 183—7)



1. An electrical precipitator comprising a shell defining a precipitating chamber, extended collecting electrode surfaces provided at least in part by the walls of said shell, openings in said shell adjacent said extended collecting electrode surfaces, an auxiliary collecting electrode assembly adapted to be inserted into the precipitating chamber through said openings and comprising an elongated electrode member, a support member extending along said electrode member and supporting said electrode member for rotation about its longitudinal axis, and cleaning means carried by said support in contact with said electrode member throughout the length thereof, and a discharge electrode member positioned in said precipitating chamber and spaced more closely to an auxiliary collecting electrode member than to said extended collecting electrode surface.

2,313,390

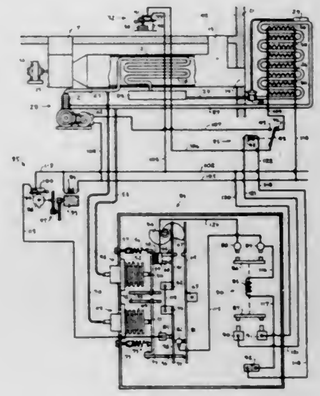
REVERSE CYCLE HEATING SYSTEM

Alwin B. Newton, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application August 14, 1939, Serial No. 289,939

13 Claims. (Cl. 62—4)

1. In a reverse cycle heating system for a space having an evaporator for absorbing heat, a condenser for dissipating heat for heating the space and a mechanism for controlling the circulation of refrigerant through the condenser and evaporator, the combination of, control means for normally controlling the mechanism to maintain desired temperature conditions in the space, means for periodically interrupting at regular timed intervals the control of the mechanism by



the control means for defrosting the evaporator, and means for returning the control of the mechanism to the control means as soon as the evaporator has been defrosted.

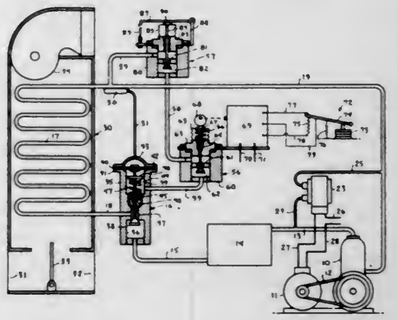
2,313,391

REFRIGERATING SYSTEM

Alwin B. Newton, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application September 28, 1940, Serial No. 358,781

12 Claims. (Cl. 62—8)



1. In a refrigerating system, in combination, an evaporator of a type having a pressure drop between its inlet and outlet, an expansion valve of the superheat control type having a pressure responsive element, means connecting said element and a portion of said evaporator wherein the pressure is lower than at the inlet so as to subject said element to said lower pressure, valve means in said connecting means, and an element responsive to evaporator pressure for maintaining said valve open for all normal evaporator pressures but closing said valve when said evaporator pressure reaches a value indicating that the cooling load is excessive so that the pressure responsive element of said expansion valve is less subject to said lower pressure as said valve means closes off the connecting means.

2,313,392

MALEIC ANHYDRIDE-TAR BASE CONDENSATION PRODUCT AND PROCESS FOR ITS PRODUCTION

Stuart P. Miller, Scarsdale, N. Y., assignor, by mesne assignments, to Allied Chemical & Dye Corporation, a corporation of New York

No Drawing. Application April 29, 1938, Serial No. 205,001
7 Claims. (Cl. 260—78)

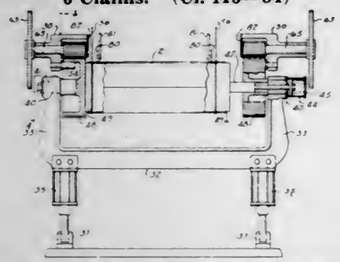
1. A solid condensation product obtained by bringing about reaction between components of a reaction mixture in which the reactants consist of maleic anhydride and tar base, in which tar base at least one position alpha to the nitrogen atom in a pyridine nucleus is unsubstituted, in the proportion of from 1 to 2 mols maleic anhydride per mol of tar base.

2,313,393

APPARATUS FOR WELDING

Harry W. Mitchell, Shaker Heights, Ohio, assignor to Mitchell Metal Products, Inc., Cleveland, Ohio, a corporation of Ohio

Application August 3, 1940, Serial No. 350,593
6 Claims. (Cl. 113—84)



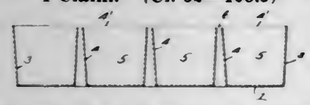
3. In a device for welding an irregularly shaped container and cover together, a base, stationary welding means for depositing welding material between said container and cover for welding them together, a frame supportingly mounted on said base for pivotal movement and for movement toward and away from the pivot, means on said frame for rotatably holding both ends of the irregularly shaped container and cover assembly, and means for rotating said assembly holding means on the movably supported frame and for maintaining the assembly at a fixed distance from said welding means during the rotation of the assembly.

2,313,394

ICE CUBE TRAY

George C. Norris, Swissvale, Pa.

Application February 28, 1941, Serial No. 381,111
1 Claim. (Cl. 62—108.5)



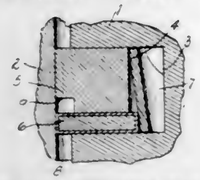
An ice cube tray including laterally spaced plates having deep transverse corrugations providing walls of separate rows of spaced cells, the ends of the plates being extended upwardly to form end walls of the tray, there being openings in the top portions of the corrugations, a channeled plate interposed between and connecting the corrugated plates to form the inner sides of the rows of cells, there being slots in the sides of the channeled plate opening beneath the apertured top portions of the corrugations, and continuous side plates secured to and extending along the outer sides of the corrugated plates to form the outer walls of the cells and to close the outer ends of the spaces between the cells.

2,313,395

PISTON RING

Harold P. Phillips, Hastings, Mich., assignor to Hastings Manufacturing Company, Hastings, Mich., a corporation of Michigan

Application August 4, 1941, Serial No. 405,297
4 Claims. (Cl. 309—44)



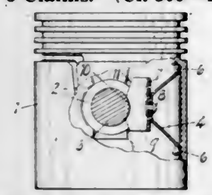
2. A piston ring assembly adapted for use in a piston ring groove other than the upper piston ring groove of an internal combustion engine, a piston ring assembly comprising a split expansible upper ring member, a thin split expansible lower ring member, and an expander acting on the lower ring member throughout the normal life thereof, said lower ring member having a peripheral and a side coating of non-corrodible lubricating metal whereby to deposit a coating of such metal on the cylinder wall from the peripheral surface during the initial stages of operation of the ring assembly, the side coating of the lower member being of the order of .0003 or over thereby providing a source of supply of non-corrodible lubricating metal which is deposited on the cylinder wall as the cylinder contacting surface of the lower ring member is worn away following the wearing away of the coating on the cylinder contacting surface of the ring member during its initial operation, the upper member being without such coating metal.

2,313,396

PISTON EXPANDER

Harold P. Phillips, Hastings, Mich., assignor to Hastings Manufacturing Company, Hastings, Mich.

Application March 2, 1942, Serial No. 432,987
3 Claims. (Cl. 309—12)



1. A piston expander comprising a U-shaped spring member having outwardly diverging and outwardly tapering arms terminating in curved piston wall engaging members of substantial curcumferentially arc concentric to the piston wall curvature and of transverse curvature at an angle to said arc, and a supporting yoke disposed back to back in 90-degree angular relation to said spring member and rigidly riveted in non-movable relation thereto, the inwardly facing edges of the arms of said supporting yoke having curved abutment engaging seats of substantial depth therein, the said inner edges being inclined from the upper edges of the seats

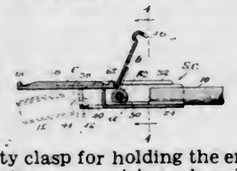
to the edges of the arms to facilitate the expander being driven into a piston to engage the seats thereof with supporting abutment members within the piston and the arms of the spring member in stress engagement with the wall of the piston at substantially vertically spaced points thereof.

2,313,397

SAFETY CORD CLASP

Emil Rodriguez, New York, N. Y., assignor to Jacoby-Bender, Inc., New York, N. Y., a corporation of New York

Application June 19, 1942, Serial No. 447,645
5 Claims. (Cl. 24—251)



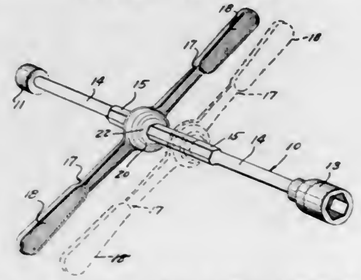
4. A safety clasp for holding the end of a bracelet cord or strap, comprising a housing having an open top and an open end adapted for receiving at its open end the cord or strap end, said housing having bottom and side walls and inturned flanges at the top of the side walls, a gripper member pivotally mounted in the housing at a point rearwardly spaced from said open end and movable through the open top thereof from an up to a down position for gripping the said cord or strap end, and a locking member slidably mounted in said housing and forming a cover for said open top thereof, a guideway for said slidable locking member consisting in the main of said flanges and said gripper member in its down position, lugs in said flanges coacting with parts in the locking member forming stops for the outward movement of the locking member, the said locking member being movable independently of said gripper member and being slidably movable inwardly over and in engagement with the gripper member to gradually force the said gripper member into final cord end gripping position and to hold the same locked in such gripping position.

2,313,398

WRENCH-ACTING TOOL

Jacob A. Ronning, Minneapolis, Minn.

Application June 29, 1939, Serial No. 281,887
1 Claim. (Cl. 81—53)



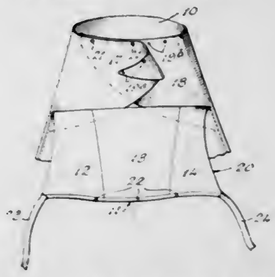
In a lost-motion socket wrench having a shaft member adapted for operation with its axis in a substantially horizontal position, said shaft having a socket at one end and a non-circular intermediate portion and a circular handle portion at the other end, an inner hub member slidable onto said shaft from one end thereof and having a non-circular opening adapted to coact with the correspondingly shaped portion of said shaft for rotating the one from the other, impact lug means projecting laterally outwardly from said inner hub member and having oppositely disposed impact surfaces, cylindrical bearing surfaces on said inner hub member on opposite sides of said impact lug means adjacent the base thereof, a cooperating outer hammer-acting hub member having on opposite sides thereof spaced wall-forming flanges projecting radially inwardly therefrom a distance greater than the height of said impact lug means for embracing same therebetween, said flanges having internally formed cylindrical bearing surfaces for rotatably engaging the corresponding cylindrical bearing surfaces of said inner hub, and striking lug means on said outer hub member projecting radially inwardly between the wall-forming flanges thereof and having oppositely disposed striking surfaces engageable with corresponding surfaces of said impact lug means on relative rotation of said inner and outer hub members.

2,313,399

MATERNITY GARMENT

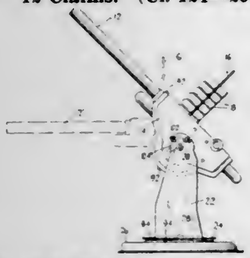
Berdie Smink, New York, N. Y.

Application September 8, 1939, Serial No. 293,993
3 Claims. (Cl. 2—211)



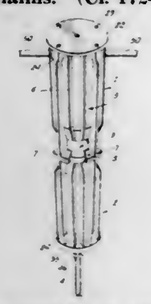
1. A maternity skirt having a rear panelled portion formed to provide a form-fit adjacent the rear of the garment and extending forwardly into communicating engagement with a front panelled portion at a portion substantially below the hip line and at substantially the lateral sides of the garment and having sections directed towards each other substantially above the hip line, separated and independently adjustable from the front panelled portion adjacent a point of the lateral sides of the garment and having extensions from said sections providing waist band members extended towards each other into overlapping positions in the direction of the waist line, the front panelled portion adjacent the hip line being connected to the forwardly directed sections of the rear panelled portion from points rearwardly from the terminal edges thereof at substantially the lateral sides of the garment and being separated and formed substantially above the hip line with sidewardly extending flaps which terminate in ties extended to encircle the waist line and provide a variable waist-line suspension for said front panelled portion, said waist band members each being provided with fastener members having complementary engaging connections on said respective band members whereby said band members may be positioned in adjustable relationship with each other and cooperating with the front panelled portion and the overlying flaps thereof above the hip line to maintain the sections suspended from the waist line at the frontal portions of the garment.

2,313,400
TOY GUN
Anthony N. Smith and John Bonnett, Girard, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y., a corporation of New York
Application November 8, 1941, Serial No. 418,351
12 Claims. (Cl. 124—29)



1. A toy rapid-firing gun comprising a guide tube or barrel, a magazine for feeding toy projectiles to the guide tube, a longitudinal slot in the guide tube at the breach portion for passage of an ejector spring, a shaft extending transversely of the gun, means to rotate said shaft, a spirally coiled ejector spring the inner end of which is secured to the shaft, and the outer end of which is dimensioned for movement through the aforesaid slot against the rear end of a projectile in the guide tube, the intermediate portion of the spring being coiled about the shaft for several convolutions, and a stop wall rearwardly of the projectile, said stop wall and ejector spring being so relatively proportioned and positioned that movement of the end of the ejector spring is arrested by the stop wall as the shaft is rotated to tension the spring, whereupon the spring escapes from the stop wall and ejects the projectile.

2,313,401
ELECTROMAGNETIC MOTOR
John A. Traylor, deceased, late of Denver, Colo., by Tessie S. Traylor, Edna T. Eisenhand, and John B. Traylor, executors, Denver, Colo., and John B. Traylor, Denver, Colo.
Application August 6, 1941, Serial No. 405,724
7 Claims. (Cl. 172—126)



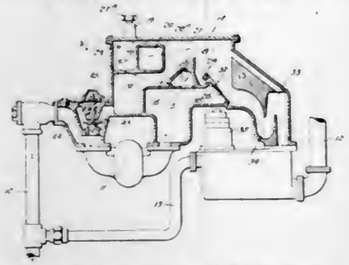
1. In an electromagnetic reciprocating motor, the combination of: a pair of opposed electromagnet structures having aligned plunger receiving bores; a plunger reciprocal in said bores, said plunger including end portions received in said bores and a central enlargement, said enlargement defining opposed conical surfaces; and a magnet housing for each of said electromagnet structure, said housings having their inwardly facing ends formed with a conical throat portion contoured to conform to and closely receive the conical portions of said central enlargement.

2,313,402
BULLET RETAINER MEANS FOR GUN PERFORATORS
George F. Turechek, Los Angeles, Calif., assignor to Lane-Wells Company, Los Angeles, Calif., a corporation of Delaware
Application August 28, 1939, Serial No. 292,212
1 Claim. (Cl. 102—93)



The combination with a gun perforator having a smooth gun bore and a conically pointed bullet, of: a retainer sleeve adapted to fit said bore and engage the conical end of said bullet, said sleeve being initially uniform in wall thickness and without bevel at its end engaging the bullet, but adapted to be deformed into conformity with the conical end of the bullet upon being crowded against the bullet, said sleeve when so crowded, forming a resilient element under compression tending, upon expanding, to urge the bullet further into the gun bore.

2,313,403
GAS SEPARATOR FOR LIQUID DISPENSING APPARATUS
Gustave A. Ungar, Pelham Manor, N. Y., assignor to Joseph F. Keller, New York, N. Y.
Application February 2, 1939, Serial No. 254,179
16 Claims. (Cl. 183—2.5)

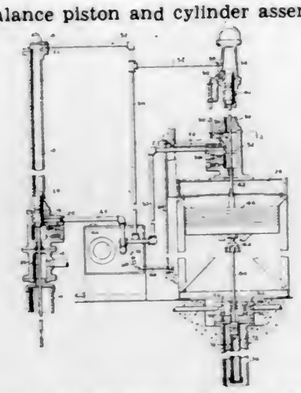


1. In a liquid dispensing apparatus, a gas separator, a vent on the separator, a valve closing said vent, means for closing said valve in response to a liquid surge at said valve, said valve being adapted to be held closed by pressure within said separator greater than air pressure, and means responsive to the stoppage of liquid flow through said separator for opening said valve against said pressure.

2,313,404
POWER TRANSMISSION
Harry F. Vickers, Detroit, Mich., assignor to Vickers Incorporated, Detroit, Mich., a corporation of Michigan
Application January 26, 1940, Serial No. 315,690
7 Claims. (Cl. 103—45)

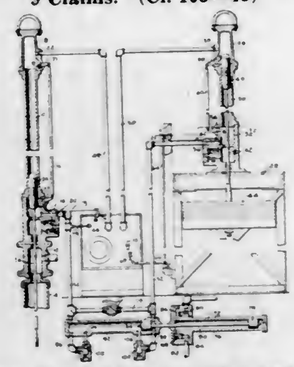
1. In a sucker rod type pumping system for oil wells the combination with a hydraulically actuated well pump actuator including a work cylinder and piston assembly for reciprocating the sucker rod, a counterbalance cylinder and piston assembly reciprocable in timed relation to the movements of the sucker rod, and a hydraulic circuit including a pressure fluid supplying means connecting said cylinders, of a tail water pump having an operating member reciprocable through a stroke equal to the stroke of the counterbalance, and means connecting said member to the

counterbalance piston and cylinder assembly for



operation thereby throughout the full stroke thereof.

2,313,405
POWER TRANSMISSION
Harry F. Vickers, Detroit, Mich., assignor to Vickers Incorporated, Detroit, Mich., a corporation of Michigan
Application January 26, 1940, Serial No. 315,691
9 Claims. (Cl. 103—45)

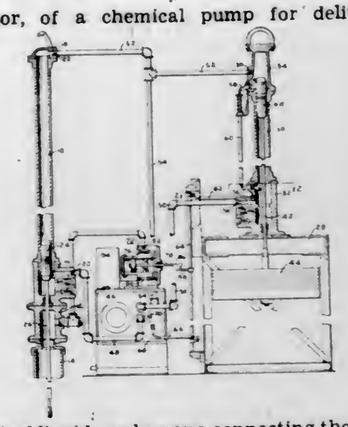


1. In a sucker rod type pumping system for oil wells having a hydraulically actuated well pump actuator including a work cylinder and piston assembly for reciprocating the sucker rod, a counterbalance cylinder and piston assembly reciprocable in timed relation to the movements of the sucker rod, and a hydraulic circuit including a pressure fluid supplying means connecting said cylinders, the combination of a tail pump having a reciprocable operating member, and a cylinder and piston connected in series in said circuit for operating said member.

2,313,406
POWER TRANSMISSION
Harry F. Vickers, Detroit, Mich., assignor to Vickers Incorporated, Detroit, Mich., a corporation of Michigan
Application January 26, 1940, Serial No. 315,692
5 Claims. (Cl. 103—45)

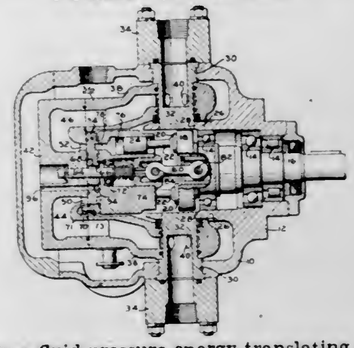
1. In a sucker rod type pumping system for oil wells the combination with a hydraulically actuated well pump actuator including a work cylinder and piston assembly for reciprocating the sucker rod, power means for supplying operating fluid to the work cylinder, and means including a shiftable linkage for reversing the power means at the end of each stroke of the

actuator, of a chemical pump for delivering



chemical liquid, and means connecting the chemical pump for operation from said linkage.

2,313,407
POWER TRANSMISSION
Harry F. Vickers and Kenneth R. Herman, Detroit, Mich., assignors to Vickers Incorporated, Detroit, Mich., a corporation of Michigan
Application August 30, 1940, Serial No. 354,776
5 Claims. (Cl. 103—162)



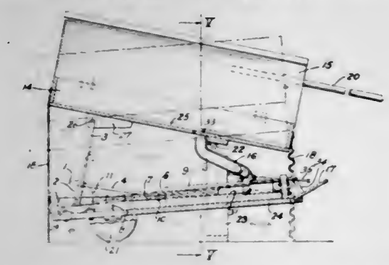
1. In a fluid pressure energy translating device of the type having a casing member, a driving member and an arcuately ported plate-type valve actuated by relative rotation of the driving member and casing, a valve plate construction comprising a supporting plate having arcuate fluid passages therein, a wear plate having a valving surface and arcuate passages therethrough and adapted to register with the passages in the supporting plate, said wear plate being loosely mounted in abutment with the supporting plate, and means preventing relative rotation of said plates while leaving the wear plate unconstrained against movement toward and away from the supporting plate, whereby localized distortions of the supporting plate and wear plate are avoided.

2,313,408
ELECTROLYTIC PRODUCTION OF ALKALI METALS
Raymond A. Vingee, Syracuse, and Charles K. Lawrence, Baldwinsville, N. Y., assignors to The Solvay Process Company, New York, N. Y., a corporation of New York
Application August 12, 1939, Serial No. 289,759
14 Claims. (Cl. 204—59)

1. A process for the production of a metal from

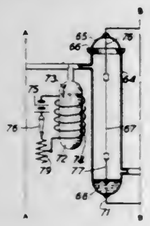
the group sodium and potassium which comprises electrolyzing a solution of the corresponding metal chloride dissolved in a solvent mixture including liquid ammonia and an inert organic liquid in which liquid ammonia is soluble but in which the metal is substantially insoluble selected from the group consisting of dioxane, alkyl ethers of molecular weight not exceeding 75, alkyl amines of molecular weight not exceeding 75 and benzene, said organic liquid being present in such amount that a separate alkali-metal-rich liquid phase is formed upon solution of alkali metal in said solvent mixture.

2,313,409
TENNIS BALL TRAP
Clinton L. Walker, Piedmont, Calif.
Application April 10, 1940, Serial No. 328,931
15 Claims. (Cl. 124—17)



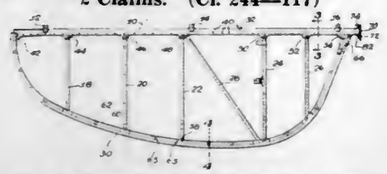
1. In a ball projecting machine, a base, a barrel, a plunger in said barrel, biasing means for said plunger, an element having a releasable hook for moving the plunger to provide a bias thereto, means for releasing the hook from said plunger, means for delivering balls adjacent to the mouth of the barrel ahead of said plunger, a deflector in the path of the ball which is adjustable to control the trajectory thereof, a ball storage hopper pivoted above said base and ball delivering means, a crank arm for oscillating said hopper and a motor for continuously driving the hooked element and said crank arm.

2,313,410
PREPARATION OF BORON COMPOSITIONS
Henry Walther, Millburn, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application March 31, 1939, Serial No. 265,183
14 Claims. (Cl. 117—107)



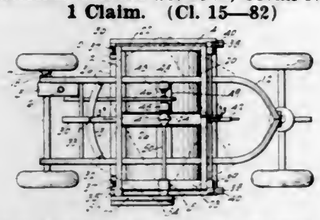
3. The method of preparing a composition including boron and a metal which comprises exposing boron halide and a reducing agent, in an atmosphere free of oxygen, to a body having a heated surface, which body has spaced therefrom a body of said metal which is unheated except for heat supplied from said heated surface and which has a surface in such proximity to said heated surface that metal from said body of metal is deposited with boron on said heated surface.

2,313,411
AIRCRAFT STRUCTURE
Michael Watter, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application August 2, 1940, Serial No. 349,726
2 Claims. (Cl. 244—117)



1. In an aircraft airfoil having a torque tube, a trailing edge member secured at its opposite ends to said torque tube and a plurality of bracing ribs secured to said torque tube and edge member, a one-piece generally U-shaped member embracing three sides of said torque tube, said member being rigidly secured to said torque tube at opposite sides thereof and having flange portions projecting from said opposite sides, and a flat horn plate having integral portions extending transversely of said airfoil, said flange portions and said integral portions being rigidly secured together.

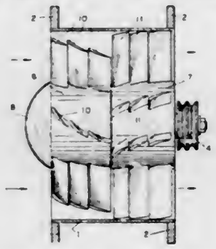
2,313,412
REVERSIBLE TRACTION BROOM
Ira M. Wells, Oakland, Calif., assignor to The Spears-Wells Machinery Co., Inc., Oakland, Calif., a corporation of California
Application December 26, 1941, Serial No. 424,478
1 Claim. (Cl. 15—82)



A main frame having front wheels and rear wheels; an auxiliary frame supported on said main frame and a vertical pivot connection centrally connecting said auxiliary frame to said main frame; a rush having an axle, and a brush frame supporting the opposite ends of said axle; a fixed hanger pivotally connecting said brush frame to said auxiliary frame, at one end, and an adjustable hanger including resilient depressive means and a bell crank lever connecting said brush frame at the other end to said auxiliary frame, and means for locking said bell crank lever in any one of several adjusted positions; a transmission having an operative connection to said rear wheels; a first shaft mounted in bearings on said auxiliary frame and including a universal joint having its universal axis centered in alignment with the axis of said pivot connection; drive means connecting said transmission to said first shaft; a second shaft mounted on said brush frame rearwardly of said brush; a driving connection between said first and said second shaft, and a driving connection between said second shaft and said axle for changing the relative speed of rotation of the brush; means

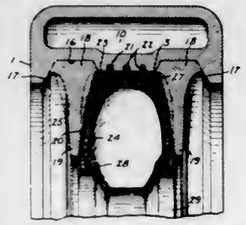
for manually adjusting the transmission; means for adjusting said auxiliary frame and brush relative to the direction of travel of the main frame, and means for locking said auxiliary frame in any of its adjustable positions.

2,313,413
AXIAL FLOW FAN
John R. Weske, Hudson, Ohio
Application July 2, 1940, Serial No. 343,609
3 Claims. (Cl. 230—120)



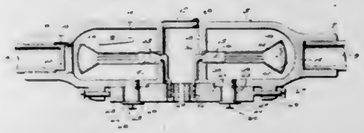
3. The combination with a cylindrical duct, of a cylindrical rotor mounted centrally therein, a cylindrical stator aligned with said rotor, a plurality of series of axially arranged fan blades carried by said rotor, and a plurality of series of similarly arranged vanes carried by said stator, successive blades and vanes of each such series slightly overlapping the one preceding, being slightly offset circumferentially with respect to the one preceding and being of increasing pitch as well, both the direction of offsetting and inclination of the pitch of the vanes carried by said stator being opposite from the direction of offsetting and inclination of the pitch of the blades carried by said rotor.

2,313,414
APPARATUS FOR RETREADING TIRES
George Wheatley, Akron, Ohio, assignor to The General Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application January 6, 1937, Serial No. 119,286
17 Claims. (Cl. 18—18)



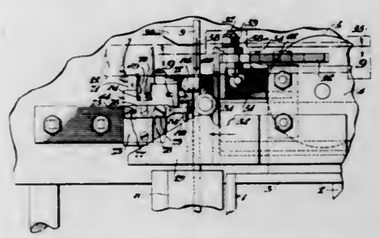
3. Vulcanizing apparatus for use in retreading tire casings comprising a transversely split ring-shaped heater member having separable ends, means for drawing said separable ends together to constrict a tire casing within said heater member, a base for supporting said heater member, a pair of side plates of substantially the diameter of the tread face of said tire casing supported by said heater member, said plates being insufficient in extent to engage more than a relatively small portion of the road engaging area of the tire tread and circumferentially discontinuous over the central portion of said road engaging area of the tire tread, and means for drawing said side plates toward each other.

2,313,415
HIGH-SPEED BOLT DIESTOCK
Ira Whitfield, Boston, Mass.
Application September 7, 1942, Serial No. 457,608
4 Claims. (Cl. 10—126)



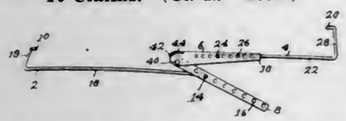
1. A high speed die stock comprising a hollow elongated body composing an oil reservoir, a transverse tubular portion extending across said body and opening at its opposite ends through the opposite sides of said body, a work guide on said body at one end of said tubular portion and plates having thread cutting teeth on said body at the opposite end of said tubular portion, oil feed tubes extending along the interior of said tubular portion and reaching the region of the thread cutting teeth, and pumps radiating from said tubular portion and having communication at their inward ends with said oil feed tubes, said pumps having gravity operated elements effective upon rotation of the die stock on the work to force oil from the reservoir into said oil feed tubes and onto the thread cutting teeth.

2,313,416
OPERATING AND INDICATING MECHANISM FOR JAIL DOORS
Charles F. Young, Covington, Ky., assignor to The Stewart Iron Works Company, Covington, Ky., a corporation of Kentucky
Application January 28, 1941, Serial No. 376,361
7 Claims. (Cl. 189—8)



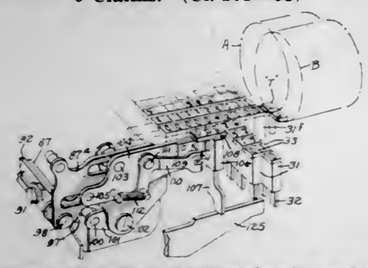
1. A sliding door operating and locking mechanism including the sliding door for the doorway of a compartment, comprising, translator means for sliding said door to opened and closed positions, a dead-lock bar for locking said door in closed position, a slide bar mechanism including means for interlocking engagement with the dead-lock bar, a collar on said slide bar mechanism, a bell crank pivoted on the frame of the door and including a finger adapted to be interposed in the path of movement of the collar on the slide bar mechanism when the slide bar mechanism is in position after the door has been opened, said bell crank including a second finger, cam means on the door adapted to engage said first finger to force it into position interposed in the path of movement of the collar when the door has been opened, and abutment means on the door adapted to engage the second finger for moving the first finger out of interposed position to permit movement of the slide bar mechanism to a position interlocking the means thereof with the dead-lock bar for locking the door.

2,313,417
SHOE REARCHING AND STRAIGHTENING DEVICE
Russell M. Anderson, Kansas City, Mo.
Application October 17, 1941, Serial No. 415,440
10 Claims. (Cl. 12—129.1)



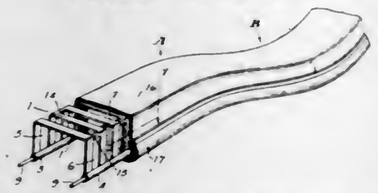
1. In a device of the character described, a toe member adapted to extend longitudinally beneath the sole of a shoe and having an upturned front end for engaging the toe of the shoe, a heel member independent of said toe member, adapted to extend longitudinally beneath the heel of the shoe and having an upturned rear end for engagement with the rear portion of the heel, and a manual lever arranged beneath the arch of the shoe and operably associated with the sole and heel members to draw them firmly into clamping engagement with the toe and heel, respectively, of the shoe.

2,313,418
SPECIAL CHARACTER AND AMOUNT PRINTING MECHANISM
Herbert E. Brown, Detroit, Mich., assignor to Burroughs Adding Machine Company, Detroit, Mich., a corporation of Michigan
Application June 26, 1941, Serial No. 399,808
9 Claims. (Cl. 101—93)



1. In a calculating machine having means for driving it through cycles of operation, plural order amount differential mechanism, a platen, and a plural order printing mechanism operable by said driving means in a machine cycle and comprising for each of said orders a type carrier having a longitudinal line of digit types thereon and movable from normal positions longitudinally and under control of said amount differential means to position different ones of said types at a printing line on said platen for amount printing, said platen having a normal position where its printing line is positioned opposite the end type on said type carriers and said printing mechanism also comprising means actuated by said driving means in a machine cycle and while said platen is in its normal position to press against said platen the type positioned at said printing line on type carriers of orders corresponding to the orders of the amount printed, the combination of a special character type member mounted for movement parallel to said printing line from a normal position laterally of the highest order type carrier transversely of said type carriers and adjacent the end type of type carriers of orders higher than the highest order of an amount printed, means for shifting said platen to a position where its printing line is beyond said end type, means operated by said driving means to operate said platen shifting means to shift said platen from said normal to said shifted position and means operated by said driving means to move said special character type member transversely of said type carriers from its normal position to a position laterally adjacent the type carrier for the highest order of the amount printed while the type carriers for the orders of the amount printed are out of their normal positions and to return said special character type member to normal, and means operated by said driving means to effect printing impression from said special character type while positioned adjacent said type carrier for the highest order of the amount printed and while said platen is in said shifted position.

2,313,419
WINDOW CHANNELING
Russell J. Bush, Wabash, Ind., assignor to The General Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application October 10, 1939, Serial No. 298,824
6 Claims. (Cl. 296—44.5)



1. A flexible core for glass channeling comprising a pair of spaced beads, a series of thin metal straps extending integrally across the core between the beads and bent to cooperatively define an open channel having base and side wall portions, and connecting elements extending between successive straps, said elements being discontinuous over the major part of the base and being disposed alternately on opposite sides of the core.

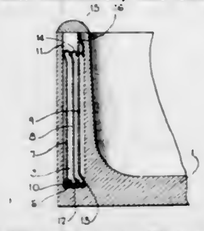
2,313,420
FERROUS ALLOY
Arthur T. Cape, Santa Cruz, Calif., assignor to Coast Metals, Inc., Canton, Ohio, a corporation of Ohio
No Drawing. Application July 16, 1942, Serial No. 451,203
6 Claims. (Cl. 75—128)

1. A ferrous alloy particularly adapted for hard facing purposes, said alloy containing carbon in amounts of from about 2% to about 4.25%, about 6% to about 28% chromium, about 3% to about 10% nickel, about 5% to about 10% molybdenum, and about 10% to about 30% cobalt, the remainder of said alloy being substantially all iron.

3. A weld rod for hard facing purposes, said rod comprising a ferrous alloy containing carbon in amounts of from about 2% to about 4.25%, about 6% to about 28% chromium, about 3% to about 10% nickel, about 5% to about 10% molybdenum, and about 10% to about 30% cobalt, the remainder of said alloy being substantially all iron.

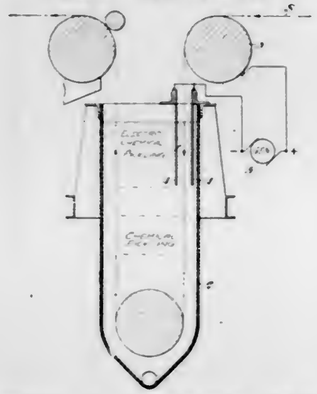
2,313,421
BATHTUB WITH CONTAINED SHOWER CURTAIN
Simon E. Dalton, Jr., Atlantic City, N. J.
Application June 30, 1942, Serial No. 449,115
9 Claims. (Cl. 4—149)

1. A bathtub having a supplemental chamber, which chamber extends substantially throughout the length of the tub and is of substantially the same depth as the tub, together with a curtain housed in said chamber, the said curtain made



up of a plurality of interlocking sections, the said sections when in said chamber being in a side by side position, and said sections interlocking to form one protective curtain when the sections are raised to their uppermost positions.

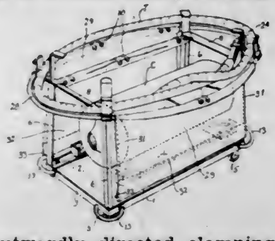
2,313,422
METHOD OF PICKLING METALLIC STRIP
Richard A. Dimon, Pittsburgh, Pa., assignor to Carnegie-Illinois Steel Corporation, a corporation of New Jersey
Application April 28, 1939, Serial No. 270,703
1 Claim. (Cl. 204—145)



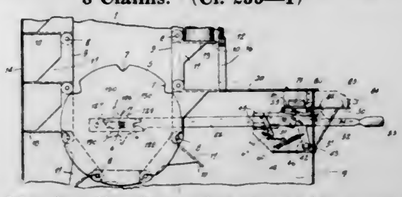
The method of continuously pickling base metal strip for tin plate and the like, which includes moving the said strip in a substantially vertical loop through an effective pickling solution, said loop being characterized by having the horizontal extent thereof relatively smaller than its vertical extent, imparting to the strip a violent anodic pickling action at the immediate point of its entry into the said pickling solution, continuing the violent anodic pickling action for only a portion of the length of downward vertical travel of the strip through the pickling solution, and discontinuing the violent anodic pickling action at a substantial distance from the end of the length of downward travel of the strip, the remainder of the length of travel of the strip being conducted through the pickling solution while subjected to a pickling action which is entirely chemical, the said anodic and chemical pickling comprising the only pickling to which the strip is subjected in said solution.

2,313,423
CONTAINER FOR VACUUM CLEANERS
Harry E. Dodd, Newark, Ohio
Application December 29, 1941, Serial No. 424,696
4 Claims. (Cl. 15—257)

1. A vacuum cleaner support comprising a substantially horizontally disposed frame for supporting a vacuum cleaner, said frame having uprights at the corners thereof extending above the top of a vacuum cleaner supported on said frame, cover supports at the upper ends of said uprights, outwardly directed bracket members carried by said uprights for supporting a vacuum cleaner hose in a substantially horizontally disposed coil in circumscribing relation to said uprights, outwardly directed clamping means secured to the upper ends of said uprights, a cover guide supported by said clamping means in circumscribing relation to a vacuum cleaner hose supported in said bracket members, and a removable enclosing cover member supported upon said cover supporting means and having a depending skirt portion in engagement with said cover guide.



2,313,424
REGISTERING KEY FOR DISPENSING APPARATUS
Sam Esgró, Memphis, Tenn., assignor of forty-nine per cent to Charles Arthur Jean, Mrs. Charles W. Jean, and Ralph Nelson Jean, all of Memphis, Tenn.
Application August 17, 1939, Serial No. 290,579
8 Claims. (Cl. 235—1)

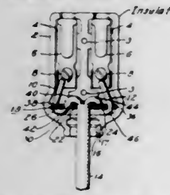


1. Merchandise dispensing apparatus comprising, in combination, a cabinet, having a delivery opening, delivery apparatus mounted therein having compartments for unitary articles of merchandise, means, including an operating handle, mounted on said cabinet for effecting movement of said delivery apparatus in stages, each stage of movement presenting an article opposite said delivery opening, locking mechanism mounted in said cabinet normally preventing actuation of said handle and having a trigger lying in an opening in the front wall of said cabinet, a customer's register which, in operating the apparatus, is positioned on said cabinet adjacent said opening and having a pin on its forward end which, when the register is so positioned engages said trigger and releases the locking mechanism, operating means for the register mechanism, price fixing bars operatively connected with said handle and movable in the actuation of said handle to actuate said operating means to cause the registering mechanism to register the amount of the article delivered and then to be carried out of relation to the register, and automatic means for restoring the locking mechanism to normal position after a delivery operation of the handle and removal of the register by the customer.

2,313,425
GLASS CLEANING COMPOSITION
Marcellus T. Flaxman, Inglewood, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California
No Drawing. Application February 23, 1940, Serial No. 320,465
5 Claims. (Cl. 252—139)

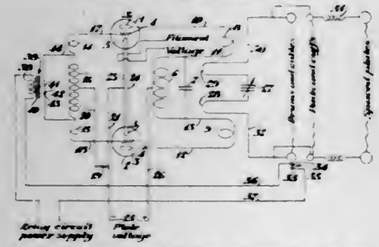
1. A glass cleaning composition for the cleaning of automobile windshields comprising a mixture of water, a lower aliphatic alcohol selected from the class consisting of methyl, ethyl and propyl alcohols and a salt selected from the class consisting of tetrasodium pyrophosphate and tetrapotassium pyrophosphate, said alcohol representing approximately 20% to 50% of said composition to impart good wetting properties and drying characteristics, said salt representing approximately 0.02% to 0.2% of said composition and said water representing substantially the remainder of said composition, said composition being free from materials which would present non-drying characteristics or leave film-forming or haze-forming residues.

2,313,426
STRAIN DEVICE
Edward E. Forstrom, Stratford, Conn., assignor to The Bryant Electric Company, Bridgeport, Conn., a corporation of Connecticut
Application October 13, 1939, Serial No. 299,311
2 Claims. (Cl. 173—322)



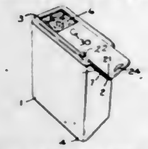
2. Means for relieving the strain on appliance cord connections, including a flat thin insulating apertured member having oppositely extending arms and each arm having opposed indentations with one pair of diagonally opposite indentations being deeper and closer to said aperture than the other pair.

2,313,427
DUAL WAVE GENERATOR
Carl K. Gieringer, Cincinnati, Ohio, assignor to The Liebel-Flarsheim Company, Cincinnati, Ohio, a corporation of Ohio
Application October 4, 1940, Serial No. 359,756
2 Claims. (Cl. 128—422)



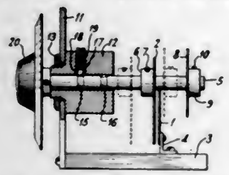
1. A diathermy machine comprising an electron tube oscillator having a plate circuit including a high inductance, a low inductance connected in series with the high inductance and a high capacitance shunting the high inductance, a grid circuit having high inductance and also having low inductance connected in series therewith, the said inductances in the grid circuit and the inductances, high capacity and distributed capacity of the plate circuit all being so proportioned that the oscillator is capable of being resonated as a short wave generator and also being so proportioned that, when the high inductance in the grid circuit is short circuited, the oscillator operates as an ultra short wave generator, a first set of receptacles for the reception of diathermy electrodes best suited to be operated on short wave energy, a second set of receptacles for the reception of diathermy electrodes best suited to be operated upon ultra short wave energy, and means for short circuiting the high inductance of the grid coil to cause the oscillator to operate as an ultra short wave generator, including a switch positioned adjacent a receptacle of the second set, whereby the insertion of an electrode in said receptacle physically operates said switch to cause short circuiting of said grid coil of high inductance in the grid circuit and thereby causes said oscillator to furnish ultra short wave energy on which the electrode inserted into said receptacle is best suited to be operated.

2,313,428
CIGARETTE CASE
Helen Glenn, New York, N. Y.
Application November 30, 1938, Serial No. 243,052
5 Claims. (Cl. 206—41)



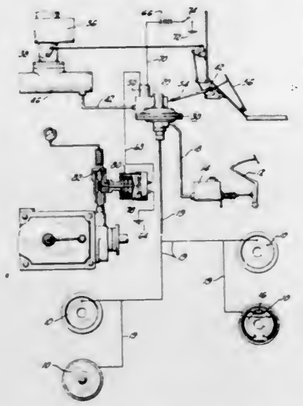
1. In a cigarette case, a case having an opening at its end substantially the size of a pack of cigarettes and a cover slidably mounted in said case closing said opening said case having grooves receiving the edges of said cover, said cover having a chamber and retracting means within said chamber secured to said cover and detachably secured to said case.

2,313,429
VERNIER CONDENSER
De Witt Rugg Goddard, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application May 25, 1939, Serial No. 275,692
5 Claims. (Cl. 175—41.5)



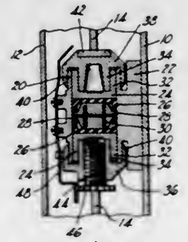
1. A vernier condenser having two ranges of capacity variation comprising a fixed non-circular electrode, a rotatable shaft, two movable plates mounted on said shaft, one of said movable plates being circular and the other non-circular, the relative areas of each one of said plates and the distance between said plates and their position with respect to said fixed electrode being so chosen that the total capacity between said plates and said fixed electrode is the same in both ranges of capacity variation of the condenser in its mid-position of rotation, said fixed electrode located intermediate said movable plates to be in capacitive engagement therewith, means to change the capacity range by changing the spaced relationship between said plates and said fixed electrode to give a different range of capacity.

2,313,430
BRAKE CONTROL MECHANISM
Rudolph A. Goepfrich, South Bend, Ind., assignor, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Original application October 1, 1937, Serial No. 166,737. Divided and this application April 3, 1940, Serial No. 327,555
8 Claims. (Cl. 192—3)



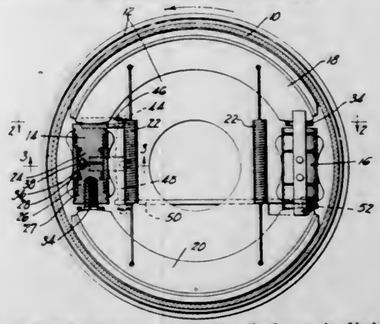
1. In a vehicle having brakes, an accelerator, and speed indicating means, a brake control system comprising brake applying means, means for holding the brakes applied, means associated with the accelerator for rendering said holding means ineffective, and means including an electric switch associated with said speed indicating means for rendering said holding means ineffective.

2,313,431
BRAKE
Rudolph A. Goepfrich, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application October 10, 1940, Serial No. 360,566
In Great Britain April 8, 1940
7 Claims. (Cl. 188—152)



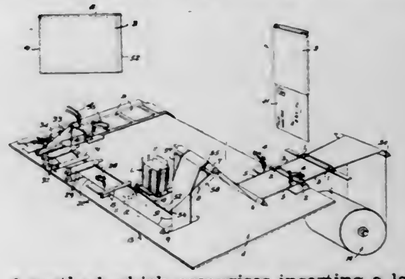
1. For use in a hydraulic brake having a brake drum, a support member and a shoe mounted on the support member, a fluid motor for moving the shoe against the drum comprising a cylinder having a pair of pistons therein, spacer blocks between and yieldingly pressed outwardly against said pistons, caps fitting over and having peripheral flanges closely encircling the ends of the cylinder and which have central cylindrical extensions engaging said pistons respectively, one of said caps having a hardened thrust block on its outer face and the other having an adjusting member mounted therein, and a spring mounted on the cylinder and one end of which yieldingly locks the adjusting member and the other end of which extends inwardly into the path of movement of said one cap and prevents it coming off the cylinder.

2,313,432
BRAKE
Rudolph A. Goepfrich, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application October 12, 1940, Serial No. 360,871
11 Claims. (Cl. 188—106)



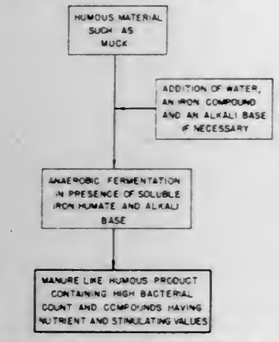
4. A brake having a pair of shoes individually shiftable to different anchorage positions, applying means therefor including a pair of wheel cylinders, a plurality of pistons in each of said wheel cylinders, hydraulic means for spreading said pistons, means for rotating one of said pistons in each cylinder relative to the other of said pistons in each cylinder, and means for spreading the said pistons whenever such relative rotation occurs.

2,313,433
BAG-MAKING AND LABEL-INSERTING MACHINE AND METHOD
Bertie C. Golden, Reidsville, N. C., assignor to Millhiser Bag Company, Inc., Richmond, Va., a corporation of Virginia
Application February 26, 1942, Serial No. 432,524
8 Claims. (Cl. 112—104)



1. A method which comprises inserting a label between folds of bag-making material prior to completion of the bag, stitching the label to the bag along the fold line, and subsequently sewing the sides of the bag to complete the bag-making operation.

2,313,434
HUMOUS PRODUCT
Ernest F. Grether, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
Continuation of application Serial No. 272,896, May 10, 1939. This application March 16, 1940, Serial No. 324,419
5 Claims. (Cl. 71—10)

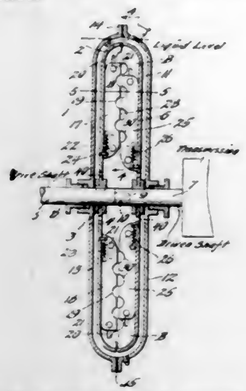


1. A new composition of matter comprising a heavy, dense, manure-like humous material in the form of a paste which contains approximately 70 percent by weight of water, said composition having been fermented under substantially anaerobic conditions in the presence of soluble iron humate and a sufficient amount of an alkali base to give the mixture a pH value of from 7 to 10 and which contains plant available nutrients and plant stimulants, a marked increase in the number of bacteria, and a marked decrease in the types of bacteria which were present in the original humous material.

3. A new composition of matter comprising a manure-like humous material in the form of a relatively porous material which contains from 20 to 40 percent water which has been formed by fermenting, under substantially anaerobic conditions and in the presence of soluble iron humate and a sufficient amount of an alkali base to give the mixture a pH of from 8 to 9, a humous material in which sufficient water is present to form a paste-like mass, and then adding a sufficient quantity of dry cellulosic material to reduce this moisture content, said composition containing plant available nutrients and plant stimulants, a marked increase in the number of bacteria, and a marked decrease in the type of bacteria which were present in the original humous material.

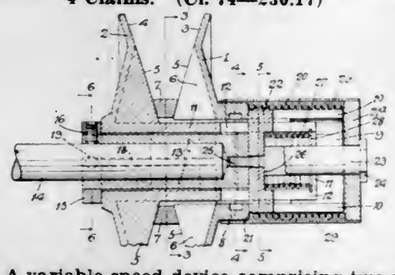
2,313,435
FLUID DRIVE CLUTCH
Francis M. Headley, Pleasantville, N. J.
Application September 18, 1941, Serial No. 411,402
13 Claims. (Cl. 60—54)

1. A fluid drive clutch, including a drive face, radially disposed fixed vanes on the inner surface thereof, radial movable vanes pinned to the respective fixed vanes, and the fixed and movable vanes having registerable cut-out portions to bypass a portion of the fluid when the movable vanes are in their normal position; together with a driven face likewise having corresponding fixed and movable vanes cooperating with the vanes on the drive face, and the movable vanes on the driving face adapted to move radially outwardly when said driving face is rotated to thus cause the cut-out portions of the movable and fixed vanes of said face to be non-registering, and thus stop the by-passing of fluid therethrough, and to cause the fluid in said clutch to thereby act on the vanes of the driven face of said clutch, to thereby rotate said driven face.



9. In a fluid clutch drive a driven face, fixed vanes extending radially thereof and provided with by-passing apertures, movable vanes associated therewith, and the said movable vanes adapted to close the said apertures in the fixed vanes when the rotation of the driven face reaches a certain rotative speed.

2,313,436
VARIABLE SPEED DEVICE
John A. Hennessy, Sycamore, Ill., assignor to Ideal Commutator Dresser Company, Sycamore, Ill., a copartnership composed of John Walter Becker and Louis C. Becker
Application October 31, 1941, Serial No. 417,299
4 Claims. (Cl. 74—230.17)

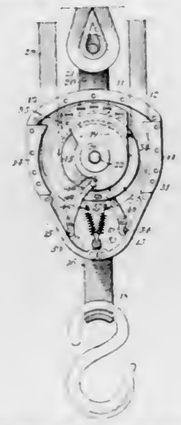


1. A variable speed device comprising two separate pulley members adapted to receive a belt between them, a shaft upon which the pulley members are slideably mounted, a connecting device for connecting the pulley members with the shaft so that they will rotate therewith, and two separate springs for applying pressure in opposite directions to the pulley members to move them towards and away from each other, one of said springs being located within and surrounded by the other.

2,313,437
SAFETY BLOCK
Roy W. Hedenberg, Brooklyn, N. Y.
Application March 6, 1942, Serial No. 433,566
13 Claims. (Cl. 188—188)

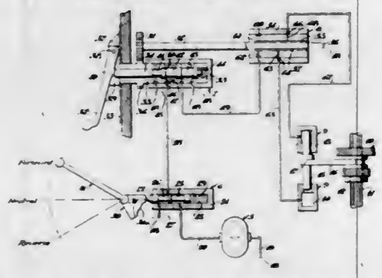
1. A safety hoisting block comprising a main frame; a transverse shaft therein; a rope-receiving sheave rotatable on the shaft in a vertical plane; each side of the sheave having a hub having peripheral ratchet teeth, a peripheral flange

having its inner face formed with cams, and an annular groove between the hub and flange; a chock frame comprising side members pivoted on the shaft on both sides of the sheave, and an upper yoke normally held above said shaft and sheave provided with an upper chock groove in said plane flaring toward its ends; the main frame being provided near said ends with chock blocks, each having on its inner face in said



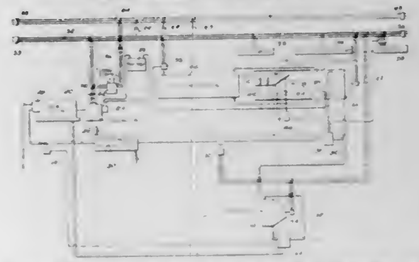
plane a downwardly tapering chock groove positioned to clamp the rope between itself and the upper groove when the frame is pivotally moved; and pawls in said grooves pivoted to the side members and thrown by said cams, during excessive speed of the sheave in either direction, into engagement with the teeth, to rotate the chock frame and clamp the rope between the chock grooves of the yoke and one of the chock blocks.

2,313,438
FLUID OPERATED GEAR SHIFTING MECHANISM
William G. Hoelscher, Cincinnati, Ohio, assignor to The American Tool Works Company, Cincinnati, Ohio, a corporation of Ohio
Application July 18, 1940, Serial No. 346,185
3 Claims. (Cl. 277—24)



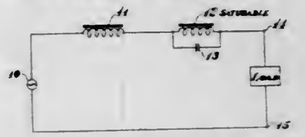
1. Gear shifting apparatus comprising; a valve consisting of a stationary body, said body including a port adapted to receive fluid under pressure for admitting the fluid to the interior of said body, and including discharge ports, a rotatably mounted tubular element disposed in said body including ports connecting its exterior to its bore, an axially shiftable valve element disposed in said rotatable element and on its axis, a lever for rotating said rotatable tubular element, said lever engaging said valve element and being depressible for moving said valve element axially, a rotatably mounted selector valve adapted to be supplied with fluid from said discharge ports of said valve body, and a transmission connection from said rotatably mounted element to said selector valve for rotating said selector valve when said rotatably mounted element is rotated.

2,313,439
POWER AND HEATING SYSTEM
Reuben Harland Horton, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application May 26, 1938, Serial No. 210,142
13 Claims. (Cl. 257—3)



1. A heating, lighting and power system comprising an internal combustion engine, a generator driven thereby, a water jacket for the engine and its exhaust gas conduit, an enclosure air heating device connected to said water jacket, a thermostatically controlled bypass around said heating device, a cooling radiator remote from said enclosure in circuit with said jacket and heating device, and a thermostatically controlled bypass around said radiator, said last named thermostatically controlled bypass being responsive to the temperature of the water leaving or entering said jacket.

2,313,440
CONTROL CIRCUIT
Henry M. Huge, Lorain, Ohio, assignor of one-half to Closman P. Stocker and one-half to E. M. Heavens
Application June 10, 1941, Serial No. 397,445
18 Claims. (Cl. 171—242)

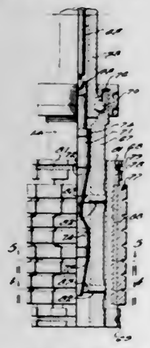


1. A current control device arranged to be connected between a load and an alternating current supply source comprising, in combination, a substantially linear inductance element, a saturable inductance element, and a capacitor element, said linear and said saturable inductance elements being connected in series, said capacitor element being connected in parallel with the saturable inductance element and forming therewith a parallel combination, said linear inductance element cooperating with said parallel combination to minimize the voltage drop in the said control device for a range of values of load impedance greater than a predetermined critical value and to build up a large voltage drop in the said control device for a range of values of load impedance less than said predetermined critical value.

2,313,441
NITRATED LIGNOCELLULOSE
Edwin Cornelius Jahn and Sydney Coppick, Syracuse, N. Y.
No Drawing. Application March 25, 1940, Serial No. 325,926
2 Claims. (Cl. 260—220)

1. The process of nitrating finely divided lignocellulosic material containing a substantial proportion of lignin of the order of at least 6.29%, which comprises cooling an acid nitrating liquor containing a substantial amount of water typified by 10 to 13 parts of water by weight to 100 parts of acid nitrating liquor to a temperature range between 18° C. and substantially 0° C., mixing said nitrating liquor and the ligno-cellulosic material, said nitrating liquor being in substantial excess of the amount necessary to saturate the ligno-cellulosic material therewith, maintaining said mixture at a temperature range between 18° C. and substantially 0° C. until the ligno-cellulosic material is completely impregnated with the acid nitrating liquor, maintaining said impregnated material at a temperature between 30° C. and approximately 0° C. until the nitration is complete; then removing the residual acid nitrating liquor from said material and finally drying said material.

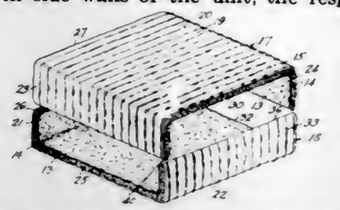
2,313,442
HONING TOOL
John E. Kline, Grosse Pointe Farms, Mich., assignor to Micromatic Hone Corporation, Detroit, Mich., a corporation of Michigan
Application February 23, 1939, Serial No. 257,777
19 Claims. (Cl. 51—184.3)



1. A honing tool embodying an abrading head, a plurality of abrading stones, means for radially moving said stones, said stones having edge projected and recessed portions which nest within those of adjacent stones.

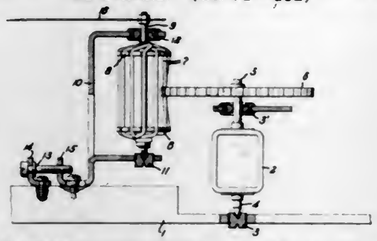
2,313,443
PADDED SPRING CUSHION UNIT
Abraham Krakauer, Brooklyn, N. Y., assignor to Kay Manufacturing Corporation, Brooklyn, N. Y., a corporation of New York
Application October 23, 1940, Serial No. 362,341
3 Claims. (Cl. 5—351)

3. A preassembled spring and padding unit for a spring cushion adapted to be shipped and handled without material loss of padding material comprising an inner spring unit having a top, bottom, two end walls and two side walls, and a pair of crossed and partly overlapping lengths of padding material, each length comprising a sisal layer arranged against the unit, a burlap backing for the sisal outwardly of the unit and sisal fibers projecting through the backing outwardly thereof, one of the lengths of padding covering the top and both end walls of of the unit, the other length covering the bottom and both side walls of the unit, the respective



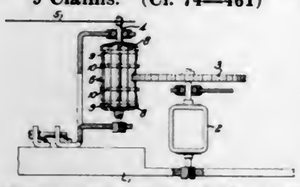
end parts of the respective lengths being arranged in adjacent relation to the respective side parts of the other length, and securing means engaging adjacent end and edge parts of the respective lengths and passing around the adjacent part of the unit to secure said parts to each other and to the unit.

2,313,444
PRECISION GEARING
Francis X. Lamb, East Orange, N. J., assignor to Weston Electrical Instrument Corporation, Newark, N. J., a corporation of New Jersey
Application October 23, 1941, Serial No. 416,275
14 Claims. (Cl. 74—461)



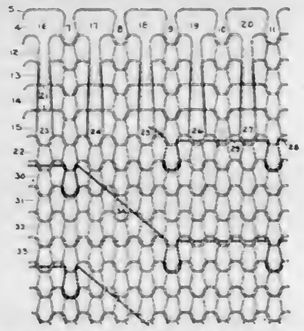
1. A gearing comprising a rigid gear in mesh with a filar gear, and means pivotally supporting said gears with the normal pitch circle of the filar gear overlapping the pitch circle of the rigid gear, said filar gear comprising longitudinally resilient filamentary tooth elements and means rigidly securing the opposite ends thereof to a staff at points axially spaced from their respective regions of engagement with the rigid gear, whereby said filamentary tooth elements may be transversely deformed during rotation of the gearing.

2,313,445
PRECISION GEARING
Francis X. Lamb, East Orange, N. J., assignor to Weston Electrical Instrument Corporation, Newark, N. J., a corporation of New Jersey
Application October 23, 1941, Serial No. 416,276
9 Claims. (Cl. 74—461)



1. A filar gear comprising a staff, axially spaced flanges on said staff, resilient filaments extending between said flanges and constituting the tooth elements of said gear, said flanges including means spacing said filaments circumferentially from each other, and means adjacent one of said flanges spacing said filaments radially from said staff, said radial spacing means comprising a member having a filament-engaging surface coaxial with said staff.

2,313,446
KNITTED FABRIC
Robert H. Lawson, Pawtucket, R. I., assignor to Hemphill Company, Central Falls, R. I., a corporation of Massachusetts
Application October 21, 1935, Serial No. 45,937
7 Claims. (Cl. 66—172)



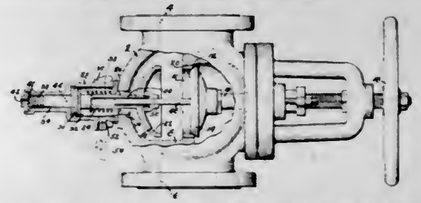
1. A knitted fabric the selvage whereof has no rib stitches and is substantially non-curling, the selvage courses forming a picot edge and courses adjacent to the selvage courses having incorporated therein an elastic strand.

2,313,447
AIRCRAFT
Thomas M. Leka, Hackensack, N. J.
Application June 17, 1940, Serial No. 340,966
2 Claims. (Cl. 244—17)



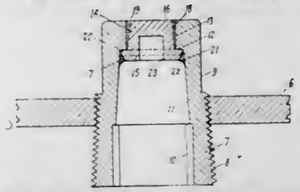
1. In an air craft, a fuselage, lateral oppositely projecting fixed frames carried thereby, a bearing head fixedly secured to the outer end of each frame, a motor carried by the fuselage, a drive shaft operatively connected with the motor and extending laterally outward through each frame and bearing head, a gear box mounted to turn with reference to the bearing head on an axis coinciding with the axis of the drive shaft, a helicopter propeller having a depending shaft extending into each gear box, meshing beveled gears located in each gear box and respectively secured to the propeller and drive shafts for driving the propellers, a torque tube connected with each gear box through which the drive shafts respectively extend, said torque tubes being respectively journaled in the fuselage and in the bearing heads, friction clutch means within the control of the operator for operatively connecting the torque tubes with the motor to simultaneously turn the gear boxes so as to dispose the axes of the propellers vertically or at a forward or rearward inclination, and means for limiting the turning of the gear boxes so as to dispose the axes of rotation of the propellers at predetermined forwardly and rearwardly inclined positions consisting of arcuately slotted portions on opposite sides of the fuselage and a pair of connecting rods disposed parallel with and on opposite sides of each torque tube extending through said slotted portions and respectively secured at the opposite ends thereof to the gear box and the inner end of the torque tube for engagement with the opposite ends of the slotted portions.

2,313,448
VALVE
Oscar H. Ludeman, Rye, N. Y.
Application March 26, 1940, Serial No. 325,967
3 Claims. (Cl. 137—139)



2. Valve mechanism for controlling the flow of pressure fluid through a conduit, said valve mechanism comprising in combination a valve in the conduit, and closing in the direction of flow of the pressure fluid through the conduit, a stem for said valve, a piston carried thereby, a cylinder for said piston in constant communication with said conduit, said piston being of less diameter than said cylinder, a bearing for the valve stem maintaining the piston out of contact with the walls of said cylinder, whereby pressure fluid in the cylinder will contact both faces of the piston, and pressure-relief means for relieving the fluid pressure at the valve side of the said piston to effect fluid-pressure closure of the valve.

2,313,449
BOILER DROP PLUG
George McCormick, Redwood City, and Frank E. Russell, San Francisco, Calif.
Application September 7, 1942, Serial No. 457,628
6 Claims. (Cl. 122—504.3)

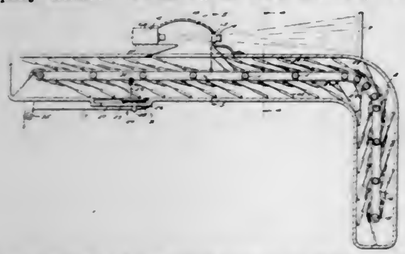


1. A boiler drop plug comprising a body member having a passage through it, one portion in the length of said passage being a cylindrical bore, means for holding said body member in the wall of a boiler, a drop plug member having a tapered shank fitted within said bore, said shank having its outer end of larger diameter than its inner end, and a body of fusible metal forming a seal between said bore and said shank, said seal having greater thickness at its inner end than at its outer end.

2,313,450
PROJECTING APPARATUS
Isadore Ellis Neft, Los Angeles, Calif.
Application July 17, 1941, Serial No. 402,819
5 Claims. (Cl. 88—28)

1. In a projecting apparatus, a casing, a pro-

jecting device carried by said casing, a screen positioned in the range of said projecting device, an endless carrier carried by said casing, a plurality of film frames on said carrier and movable one at a time thereby within the range of the projecting device and the screen, films bearing display matter mounted in said frames, means



for operating said carrier and comprising a manually operated slide, a pivoted hook carried by the slide and engaging a part of the carrier upon operation of the slide in one direction to move the carrier in a step-by-step movement and a telltale display means operated by said first means to inform the operator of the display matter projected on the screen.

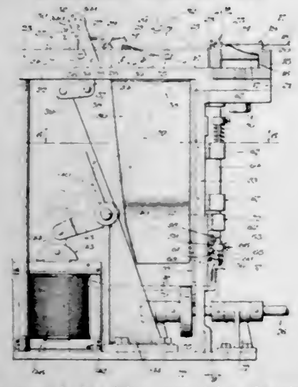
2,313,451

MECHANISM FOR EXTRACTING DEFECTIVE BOOK ASSEMBLIES FROM MATCH BOOKING MACHINES

John R. Nolan, Larchmont, N. Y., assignor to The Diamond Match Company, New York, N. Y., a corporation of Delaware

Application August 2, 1941, Serial No. 405,170

6 Claims. (Cl. 209—88)



1. In a match-booking machine having a carrier for assembled match cards and covers, the latter folded at one side of the carrier about the bases of the complementary cards forming a basal extremity extending beyond the carrier, a detector station for detecting incomplete book assemblies, comprising a backer member having a face adapted to be engaged by successive basal extremities of the book assemblies as they are fed through the station, said member mounted laterally of the carrier, a gripper for engaging the basal extremity of an incomplete or defective book assembly and bodily extracting such assembly lengthwise from the carrier, means for reciprocating said gripper toward and from the carrier, means for closing and opening said gripper at the ends of its forward and rearward strokes, respectively, and means including a resilient detector member movable toward and from the backer member to detect incomplete assemblies, for effecting the operation of said reciprocating means when the basal end of an incomplete or defective book assembly is positioned by the carrier at said detector station.

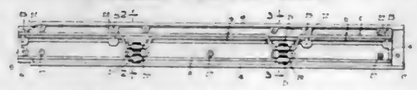
2,313,452

MULTIPLE CONDUCTOR ELECTRIC WIRING UNIT

Joseph F. O'Brien, Jersey City, N. J., assignor to John B. Pierce Foundation, New York, N. Y., a corporation of New York

Application September 10, 1940, Serial No. 356,153

1 Claim. (Cl. 173—334.1)



As a new article of manufacture, an electricity conductor unit having three electricity conductors, two conductors of which are arranged for connection to one wire of a two-pole electric circuit, and a third conductor arranged for connection to a second wire of said circuit; said conductor unit comprising a substantially hollow housing, a face of said housing having a plurality of pairs of openings adapted to receive the blades of a two-blade electrical attachment plug, said pairs of openings being remote from each other but in mutual alignment; a wall extending longitudinally within said housing and forming a chamber which is remote from said pairs of openings; the two conductors for connection to the first-named wire of the circuit being disposed within said chamber and extending substantially continuously therein, each of said two conductors being offset for a fraction of its length to be brought adjacent an opening of one of said pairs of openings, and each said conductor having contact means in registry with the respective opening; and the third conductor extending longitudinally within said housing remote from said chamber and having contact means in registry with the remaining opening of each of said pairs of openings, whereby each of the two common-connected conductors individually cooperates with the third conductor at one of the pairs of openings to provide two distinct two-pole tapping points.

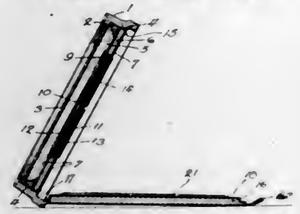
2,313,453

DEVICE FOR VIEWING TRANSPARENCIES

Laurence E. Rubel, Washington, D. C., assignor to Underwood and Underwood, Washington, D. C., Inc., Washington, D. C.

Application June 20, 1941, Serial No. 399,036

2 Claims. (Cl. 40—152.2)



1. A device for viewing transparencies comprising a main frame open at its front and rear and having an internal shoulder about its front, a glass panel in the main frame having its margins bearing against the shoulder, an auxiliary frame within the main frame bearing against the panel back of the shoulder, a mounting board in the main frame held in spaced relation to the glass panel by the auxiliary frame and formed with an opening, an ornamental frame fitting snugly into the opening of the mounting board, a transparency and front and rear transparent protecting sheets for opposite faces of the transparency removably mounted in the ornamental frame, a rear closure for the main frame hinged at its lower edge to the lower edge of the main frame for swinging movement rearwardly and downwardly from a closed position to a reclining opened position in which it constitutes a base for the main frame, and a mirror carried on the inner surface of the closure adapted to reflect light from a source through the transparency when the closure is in its opened position.

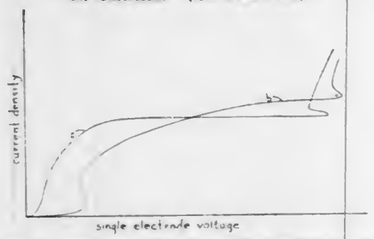
2,313,454

ELECTRODEPOSITION OF CUPROUS OXIDES AND BATHS THEREFOR

Jesse E. Stareck, Waterbury, Conn., assignor to Kansas City Testing Laboratory, Kansas City, Mo., a corporation of Missouri

Application May 24, 1938, Serial No. 209,835

12 Claims. (Cl. 204—56)



1. In a process of electrodepositing cuprous oxide from baths containing in solution copper compounds in which the copper is in the cupric state, and cupric ions, adding to the said bath a substance for effecting an increase of miscelles or nuclei containing cuprous oxide, by which the initial single-electrode voltage at which cuprous oxide is electrodeposited is lowered, and with the bath so conditioned, passing an electric current through said bath from an anode to an article-cathode therein.

2,313,455

METHOD OF DECORATIVELY COLORING ARTICLES IN GOLD COLORS AND THE PRODUCT THEREOF

Jesse E. Stareck, Waterbury, Conn.

No Drawing. Application June 5, 1939, Serial No. 277,445

6 Claims. (Cl. 204—35)

3. A method of decoratively gold coloring articles, comprising electrodepositing a layer of cuprous oxide approximately three-tenths to one millionth of an inch thick on an article having a surface portion of a metal or alloy of the group silver, light colored silver alloys, nickel, light colored nickel alloys, copper alloys, and reducing the cuprous oxide to copper, said copper obtained by the reduction of the cuprous oxide being characterized by its evenness of thickness resulting from the evenness with which cuprous oxide is electrodeposited.

2,313,456

METHOD OF PRODUCING DECORATIVE COATINGS EXHIBITING PATTERNS OR DESIGNS, AND PRODUCT

Jesse E. Stareck, Oakville, Conn., assignor to Kansas City Testing Laboratory, Kansas City, Mo., a corporation of Missouri

Application June 19, 1939, Serial No. 279,953

14 Claims. (Cl. 204—23)

1. A method of producing decorative patterns or designs on articles, comprising forming a layer of cuprous oxide thereon of a thickness such that patterns resulting from myriad fissures occurring in the course of reduction of the oxide to metal are visible to the unaided eye, the minimum thickness being approximately three hundred-thousandths of an inch, and reducing said cuprous oxide producing in the course of redution myriad fissures which are visible as patterns when viewed by the unaided eye.



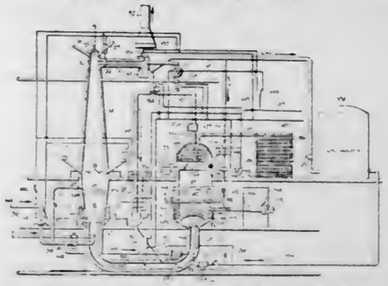
2,313,457

PROCESS AND APPARATUS FOR METALLURGICAL REDUCTION

Chester Tietig, Covington, Ky.

Application November 10, 1941, Serial No. 418,545

9 Claims. (Cl. 266—13)



1. In an ore reducing apparatus, a hydrogen generator, a metallurgical furnace arranged to receive the gas from said generator, a pipe line adapted to return excess gas from said furnace to said generator for revivification, a gas holder, a pipe line connecting said gas holder and said furnace, a second pipe line adapted to return gas from said gas holder for re-use in said furnace, and valve means for selectively directing the excess gas from said furnace either to said generator or to said gas holder.

2,313,458

COMBINATION HEAD AND NECK COVERING DEVICE

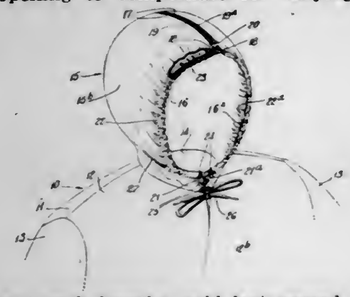
Irving Tucker, Merrick, N. Y.

Application June 5, 1940, Serial No. 338,836

3 Claims. (Cl. 2—84)

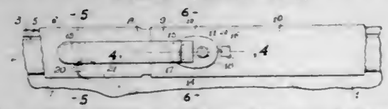
1. In a garment for enveloping the shoulders and other body portions of a wearer, said garment having a neck opening centrally of the shoulder portion thereof, a combined collar and hood member secured to said garment at the neck opening thereof, said member when arranged as a collar having front edge portions extending over the shoulders of the garment and a rear edge transversing the back of the garment to meet the front edge portions in substantially right angled

corners, interengaging coupling means extending from the midpoint of said rear edge to said corner, means for engaging and disengaging said last-named means when the collar is raised from the shoulders of the garment in converting said collar into a hood, the front edge portions of the converted collar terminating centrally of the garment in angular edge portions extending to said neck opening, said front edge portions forming a face opening in said hood, means adjusting said face opening to compensate for varying head



sizes and neck lengths, said last-named means comprising independent laces slidably arranged in passages formed in said front edges of the hood, one end of each lace being anchored adjacent the corresponding right angle corner of said hood and the other ends of said laces extending from said passages being selectively passed through eyelets arranged along said angular edge portions to provide for simultaneous drawing together of said face opening, and the neck portion defined by said angular edges.

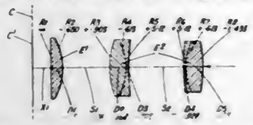
2,313,459
CLOSING RING
Arthur H. Van Horn, Rocky River, Ohio, assignor to Cornell Securities Corporation, Cleveland, Ohio, a corporation of Delaware
Application January 15, 1941, Serial No. 374,543
1 Claim. (Cl. 24—256)



In a transversely split sealing and clamping ring of the class described, in which the ends of the ring interfit for limited telescopic movement, means for expanding and contracting the ring including a pair of stops on the outer telescoping ring end and spaced circumferentially thereof, said ring end being slotted circumferentially between said stops, and a rotatable cam carried by the inner telescoping ring end and overlying said slot and the outer ring end, said cam having a portion engageable with but one stop when the cam is rotated in either direction and engageable with the other stop only when the cam is rotated through an arc of substantially 180°.

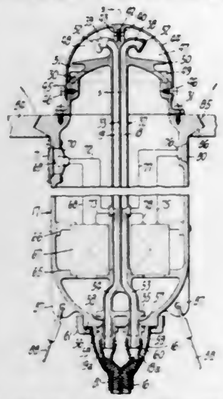
2,313,460
COMPOUND MICROSCOPE AND LENS SYSTEM THEREFOR
Arthur Warmisham, Leicester, England, assignor to Kapella Limited, Leicester, England, a company of Great Britain
Application January 23, 1941, Serial No. 375,684
In Great Britain January 23, 1940
17 Claims. (Cl. 88—57)

1. A lens system, corrected for chromatic aberrations, astigmatism, field curvature and distortion, for use as the ocular of a compound microscope, comprising in combination in axial alignment a convergent field lens, and a convergent eyelens system whose focal length lies between



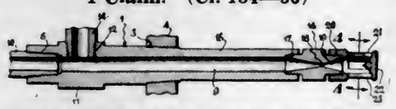
115 and 140 per cent of the equivalent focal length of the complete ocular lens system and whose axial thickness is not less than 60 per cent of the equivalent focal length of the complete lens system.

2,313,461
SAFETY APPARATUS FOR SUBMARINES
Leo Y. Booharin, San Francisco, Calif.
Application October 7, 1939, Serial No. 298,462
12 Claims. (Cl. 114—16.5)



1. A safety device for submarines including a hollow, water-tight buoy provided with a pair of conduits extending therethrough and outwardly of the buoy at opposite sides thereof, one of the ends of said conduits being formed for connection with a pair of flexible air hose, closures frictionally and removably secured over the opposite ends of said conduits, a cap secured over said opposite ends and spaced therefrom for forming a chamber enclosing said opposite ends, a partition extending between said cap and buoy and disposed between the said opposite ends for dividing the said chamber into two compartments with one end of each conduit in each compartment, and said cap being formed with an opening into each compartment providing air communication between the atmosphere and each compartment.

2,313,462
LUBRICATOR FOR ENGINE CYLINDERS
John R. Brooks, Richmond, Va.
Application February 21, 1941, Serial No. 380,066
1 Claim. (Cl. 184—56)



A lubricant vaporizer nozzle, comprising: an elongated tubular stem, screw-threaded at one end for attachment to a steam pipe, with the stem extended interiorly of the pipe and crosswise thereof, the stem having a bore, the receiving end of which is fitted for connection with a supply of saturated steam, a lubricant inlet port communicating with the bore at one side and adjacent the steam receiving end thereof, the port fitted for a connection with a supply of lubricant delivered under pressure to the bore for entraining the lubricant in the saturated steam during its passage through the bore, the opposite end of the bore having a Venturi type discharge fitting screw-threaded thereon, the fitting having a converging diverging bore with a restricted discharge passage therebetween for discharging the steam and lubricant at high velocity, and a deflector fitting screw-threaded on the discharge end of the Venturi type tube, the deflector fitting constituting a slotted cage for lateral discharge and having a conical deflector cap disposed at one end thereof opposite the discharge opening of the Venturi fitting for diffusing the vapor and entraining the same within the steam flowing through the supply pipe.

2,313,463
MANUFACTURE OF SPONGE RUBBER
William J. Clayton and Walter R. Hoover, Mishawaka, Ind., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application June 13, 1940, Serial No. 340,320
3 Claims. (Cl. 260—815)

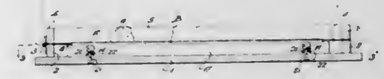
1. The method of recovering a stable liquid composition from ungelled latex foam containing zinc oxide and alkali silicofluoride which comprises dispersing said foam in an aqueous medium containing an alkali hydroxide and material selected from the group consisting of alkali borates, alkali carbonates, and alkali phosphates.

2,313,464
MANUFACTURE OF SPONGE RUBBER
William J. Clayton, Mishawaka, Ind., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application July 2, 1941, Serial No. 400,800
15 Claims. (Cl. 260—723)

2. The method of arresting the gelling properties of latex foam sensitized with alkali silicofluoride and zinc oxide which comprises mixing an alkali hydroxide and material selected from the group consisting of alkali phosphates, alkali carbonates, and alkali borates with a latex foam which contains alkali silicofluoride and zinc oxide and which is capable of gelling on standing, while maintaining the foam structure.

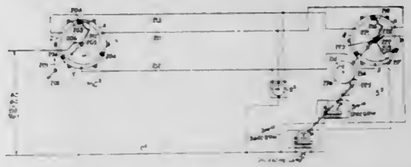
2,313,465
MEANS FOR PRODUCING CABLE MARKERS
Oswald Dale, Nutley, N. J., assignor to Irvington Varnish & Insulator Co., Irvington, N. J., a corporation of New Jersey
Application December 10, 1940, Serial No. 369,392
1 Claim. (Cl. 101—126)

Apparatus for imprinting the surface of a length of tubular marker body material with a longitudinal row of spaced marks, from which imprinted annular identification marker bodies are to be severed, comprising, a base, a saddle member, said saddle member having a longitudinal seating channel in its top to receive and support said tubular material, an open rectangular stencil frame, a stencil sheet affixed to the underside of said frame in flat extension across the opening thereof, means to hingedly connect one end of said stencil frame to said base subject to down-swinging movement adapted to superpose the stencil sheet upon the supported tubular material, means on said base to limit down-swinging movement of said stencil frame,



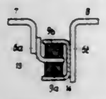
whereby to snugly and conformably engage the stencil sheet with portions of the exposed surface of the tubular material without undue pressure, and means to movably connect said saddle member to said base subject to lateral shifting adjustment for aligning the supported tubular material with and for engagement by selected portions of the stencil sheet.

2,313,466
ELECTRIC CLOCK SYSTEM
Oscar H. Dicke, Rochester, N. Y.
Application December 14, 1938, Serial No. 245,700
23 Claims. (Cl. 58—24)



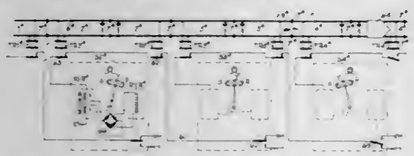
1. In an electric clock system, the combination with a source of alternating current of regulated frequency regulated to correctly manifest the passing of time, a master clock including in combination a mechanical time measuring means and a synchronous motor for accurately manifesting the passing of time so long as no current cessation occurs and for substantially accurately manifesting the passing of time during a current cessation, a secondary clock including a low speed synchronous motor and a high speed synchronous motor, said low speed synchronous motor when energized from said source operating said secondary clock to correctly manifest the passing of time and said high speed synchronous motor when energized from said source operating said secondary clock at a faster rate, line circuits connecting said master clock and said secondary clock, contacts controlled by said master clock for energizing said circuits in succession from said source, and means including contacts controlled by said secondary clock for connecting said synchronous motors to said line circuits in succession in the same order in accordance with the lapse of time as manifested by said secondary clock and in a manner so that both synchronous motors are not simultaneously connected in the same line circuit and so that the low speed motor is connected into that line circuit into which the high speed motor was last connected, whereby if the contacts controlled by said master clock are operated to shift the source of alternating current from one circuit to another before the contacts of the secondary clock have operated said high speed synchronous motor is energized.

2,313,467
RESILIENT COUPLING
Johannes Eilken, Heidenheim-on-the-Brenz, Germany, assignor to American Voith Contact Company Inc., New York, N. Y.
Application January 2, 1941, Serial No. 372,883
In Germany February 7, 1940
5 Claims. (Cl. 64—11)



1. In a resilient coupling having coupling discs with power transmitting loop members arranged between said discs, the combination of one of said loop members being supported by one of said discs, and having a free end, another of said loop members being supported by the other of said discs and having a free end, both of said loop members forming a pair, and a member interposed between said free ends of said loop members and engaged by the same, for dampening the vibrations of said loop members.

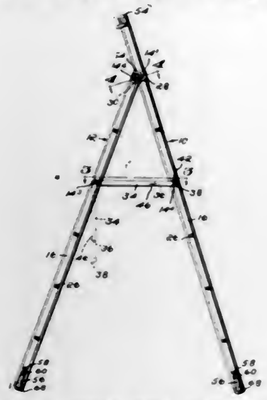
2,313,468
RAILWAY SIGNALING SYSTEM
Oscar S. Field, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.
Application February 14, 1941, Serial No. 378,966
11 Claims. (Cl. 246—53)



1. In a wayside signaling system for railways, in combination, a stretch of track divided into electrically isolated blocks, a search light signal at the enerance end of each block, each signal including a spectacle movable progressively from a biased most restrictive position, through a lesser restrictive position, to a least restrictive position, a first and a second relay in the signal, means operatively connecting the relays to the spectacle so as to move the spectacle to its lesser restrictive position when the first relay is energized, and to move it to its least restrictive position when both relays are energized, means controlled by said first relay for placing energy of one or the other polarity on the exit end of the block next to the rear in accordance with traffic conditions, a polar neutral track relay associated with each signal, and means effective to energize said first relay when the associated track relay is energized with either polarity of current, and effective to energize said second relay only when the associated track relay is energized with current of one of said polarities.

2,313,469
LADDER
George L. Forsman, Boston, Mass.
Application March 18, 1941, Serial No. 383,940
3 Claims. (Cl. 228—18)

1. A combined step and extension ladder comprising two ladder sections each embodying tubular steel rungs supported at their ends in tubular steel uprights elliptical in cross section, the rungs extending through the shorter diameters of the uprights and having their ends secured to the uprights, two flat steel straps wrapped around the uprights of one section and having the ends thereof projecting laterally of



the uprights in overlapped relation, a rung of said one section piercing the straps, and means, including a rung of the other section piercing the overlapped ends of the straps, pivotally connecting the two sections.

2,313,470
FISHING REEL
Abraham G. Garzo, West Palm Beach, Fla.
Application December 31, 1940, Serial No. 372,635
2 Claims. (Cl. 242—84.4)

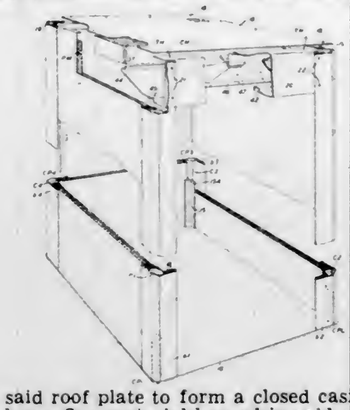


1. In a fishing reel, a body including a pair of heads, a spool carried by the body between the heads, a level winder mechanism carried by the body and extending between the heads, means carried by one of said heads and operable for imparting rotative movement to the spool and simultaneously operating the level winder mechanism whereby winding of line upon the spool throughout its length will be assured, said level winder mechanism including a housing, a carriage slidable longitudinally of the housing, a pair of sprocket wheels, a sprocket chain trained about the wheels, and means operatively connecting the carriage with the sprocket chain.

2,313,471
METALLIC TELEPHONE BOOTH
Cecil A. Hallam, Westfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 29, 1941, Serial No. 390,893
5 Claims. (Cl. 189—2)

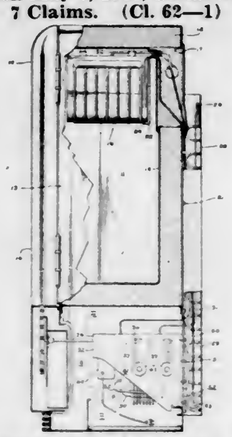
1. A metallic telephone booth comprising a base, upright members secured at one of their ends to said base, corner posts secured to said members, two side walls and a rear wall, means for securing said side walls and said rear walls to said corner posts, a plate forming a roof for said booth, secured to said corner posts for holding them in spaced relation and secured to said side walls and to said rear wall, a ceiling secured

to the under-side of said roof plate, said ceiling having peripherally disposed rims cooperating



with said roof plate to form a closed casing, and sound-proofing material housed in said casing.

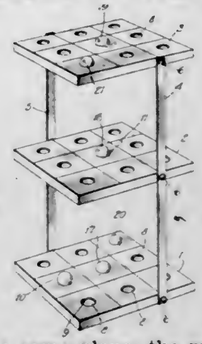
2,313,472
REFRIGERATION APPARATUS
Gustaf A. Halfvarson, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 7, 1941, Serial No. 392,195
7 Claims. (Cl. 62—1)



1. In a mechanical refrigerator, the combination of a cabinet, an insulated compartment therein, a machine compartment below the insulated compartment, a plate condenser secured to the rear wall of said cabinet and extending downwardly to the machine compartment, a refrigerant compressing unit in the machine compartment, a bracket attached to the plate condenser and projecting into the machine compartment, and tension springs coacting between said bracket and said refrigerant compressing unit and resiliently supporting said refrigerant compressing unit from said bracket.

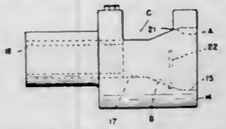
2,313,473
GAME DEVICE
Woodrow Arthur Heacock, Inglewood, Herbert B. Swift, Redondo Beach, and William Spyker, Inglewood, Calif.
Application August 23, 1941, Serial No. 408,022
7 Claims. (Cl. 273—130)

1. In a game device, a support comprising holding means defining playing positions to receive markers, the holding means being arranged in at least three parallel planes, and in each plane being arranged along a plurality of lines in such a way that each holding means forms an element of at least two of the lines of holding



means in the same plane, the mutual arrangement of the holding means being the same in each of said planes and designed to form interplanar lines composed of at least three holding means each in a different plane, every holding means of the game device forming an element of at least one such interplanar line.

2,313,474
METHOD AND APPARATUS FOR SHAPING MEMBERS
Walter P. Hill, Detroit, Mich., assignor, by mesne assignments, to Calumet and Hecla Consolidated Copper Company, Calumet, Mich., a corporation of Michigan
Application April 27, 1942, Serial No. 440,713
13 Claims. (Cl. 153—21)

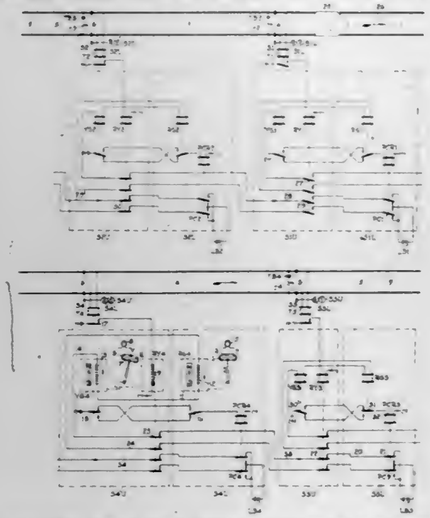


1. The method of forming stock which includes the steps of exerting a reducing pressure on a continuous area extending over a major portion of the circumference of the stock while leaving the remaining portion free to deform in response to the reducing pressure, and relatively rotating the stock and pressure exerting means thereby permitting circumferentially progressive deformation longitudinally of the stock in the area out of contact with the pressure exerting means.

2,313,475
RAILWAY SIGNALING SYSTEM
Edmund W. Moore, Rochester, and James W. Knapp, Brockport, N. Y., assignors to General Railway Signal Company, Rochester, N. Y.
Application February 14, 1941, Serial No. 378,968
9 Claims. (Cl. 246—53)

1. In a signaling system for railways, in combination, a stretch of track divided into isolated signaling sections, a track circuit for each section, a source of energy associated with each section, a wayside signal for each section, each signal including an upper arm unit and a lower arm unit, a pole changer and a pole changer operator included in one of the signal units, a separate signal operating means in each unit of

each signal for, respectively, controlling its unit to display various aspects, and a polar circuit controlled by the pole changer of each signal and



connecting its said source of associated energy to the said separate signal operating means in the signal units of the signal next to the rear.

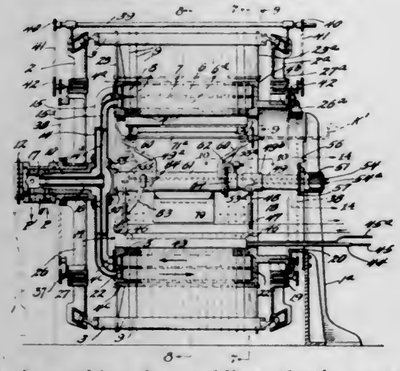
2,313,476

PLASTIC MOLDING MACHINE

John W. Neff, Easton, Pa., assignor to Binney and Smith Company, New York, N. Y., a corporation of New Jersey

Application February 24, 1941, Serial No. 380,373

14 Claims. (Cl. 18—28)



1. A machine for molding plastic materials comprising an annular mold carrier, a series of open-ended tubular molds radially mounted upon said carrier for rotation therewith, a stationary filling chamber located adjacent the carrier and adapted to be placed successively in communication with the molds during rotation of the carrier, plungers reciprocable within said molds, means for moving the plungers radially of the carrier in a step-by-step movement for projecting the solidified sticks of material from the open ends of the molds, means located adjacent said molds for removing the projecting portions of the sticks, and means for circumferentially adjusting the position of said removing means about the carrier.

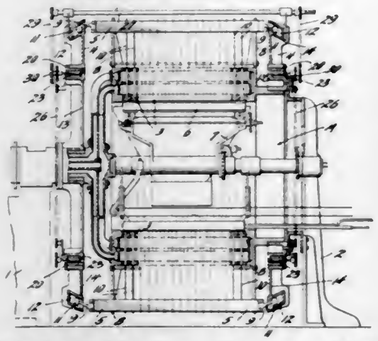
2,313,477

ADJUSTABLE CAM TRACK

John W. Neff, Easton, Pa., assignor to Binney and Smith Company, New York, N. Y., a corporation of New Jersey

Original application February 24, 1941, Serial No. 380,373. Divided and this application May 8, 1942, Serial No. 442,244

6 Claims. (Cl. 74—568)



1. In a cam and follower mechanism, a pair of cams adapted to be stationarily supported in parallel relation, a pair of slots defining endless cam tracks of corresponding stepped contours opening through the opposed side faces of the cams, a follower extending between said slots and adapted to travel upon said tracks, said tracks sloping in reverse directions transversely of the cams, and means for simultaneously and uniformly adjusting the cams toward and from each other to raise or lower the position of the follower along the sloping cam tracks.

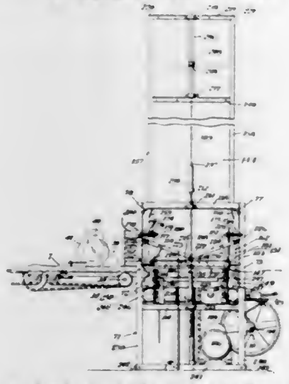
2,313,478

BOX STACKING AND CONVEYING MECHANISM

Ambrose Neja, Anaheim, Calif.

Application April 28, 1941, Serial No. 390,737

18 Claims. (Cl. 214—6)



2. In a device of the character disclosed, a stacking trough to receive boxes, a pair of swing arms provided with supports positioned on opposite sides of the stacking trough and receivable in part within the trough, an elevator adapted to receive a box and to move said box upwardly within the trough and past said arms, the said arms swinging apart to permit passage of the box within the trough followed by swinging beneath the box to prevent descent thereof, a cross arm within the trough, a rod secured to said

arm, and a pair of toggle arms secured to the rod and to the swing arms, whereby after a given number of boxes have been stacked within the trough, the cross arm is moved upwardly by the uppermost box of the stack to move the rod and the toggle arms to swing the arms apart and release the stack of boxes.

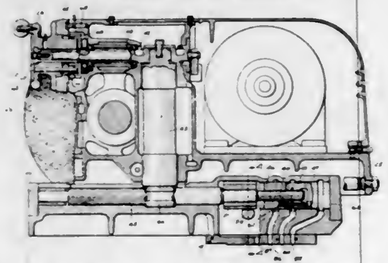
2,313,479

FEED MECHANISM

Ralph E. Price, Highfield, Md., and Harold E. Balsiger and Milburn A. Hollengreen, Waynesboro, Pa., assignors to Landis Tool Company, Waynesboro, Pa.

Original application February 28, 1940, Serial No. 321,310. Divided and this application February 6, 1941, Serial No. 377,744

8 Claims. (Cl. 51—95)



1. In a grinding machine, a bed, a work support, and a grinding wheel support slidably mounted on said bed, a grinding wheel rotatably mounted on said wheel support, mechanism for effecting a relative transverse movement between said supports including a feed screw in said bed, a gear on said wheel support, the teeth on said gear being in mesh with said feed screw, mechanism for moving said screw bodily endwise for positioning said grinding wheel for a grinding operation, mechanism for rotating said screw whereby to cause a slow feeding movement of said gear and said grinding wheel, and mechanism for rotating said gear whereby to adjust the position of said wheel support relative to said feed screw.

2,313,480

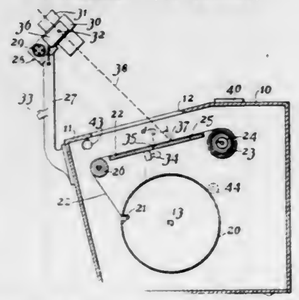
APPARATUS FOR TRAINING PILOTS, NAVIGATORS, AND LIKE AIRCRAFT PERSONNEL

George Hancock Reid, London, England

Application July 12, 1941, Serial No. 402,218

In Great Britain March 16, 1940

7 Claims. (Cl. 35—12)



1. A device for instruction in aerial bombing, comprising stationary means defining an observation opening, a map mounted for movement under and in registry with said opening, means for moving said map under said opening at a controlled speed, a bomb sight mounted on said stationary means and directed through said opening onto said map, dummy bomb release means, means for indicating a theoretical bomb landing position on said map and means for actuating said indicating means in timed relation to the operation of said bomb release means.

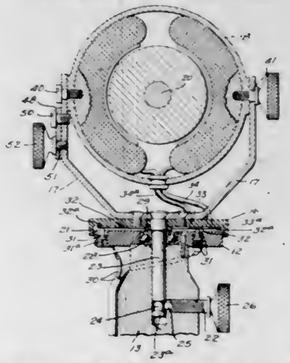
2,313,481

ELECTRIC FAN

Louis Rendano, Brooklyn, N. Y.

Application May 5, 1941, Serial No. 391,871

2 Claims. (Cl. 230—255)



1. An electric fan having an upwardly extending base, said base terminating in a horizontal circular member having substantially no electrical conductivity, a socket in said member extending downward below the level of said member into the base, said fan having a second horizontal circular non-conducting member of slightly larger diameter than said first mentioned member, said second member fitting over said first member and having a downwardly depending flange at its outer periphery, a shaft of a size adapted to fit snugly in said socket and revolve thereon, depending from the lower side of said second circular member, a U-shaped support rigidly secured to the upper side of said second member, said support pivotally mounting a fan motor having a motor shaft and fan blades on said motor shaft, electrical contacts between said members, including annular rings of conductive material on one member and spring pressed contacts on the other extending beyond the surface of the member, said members being held face to face and said contacts being maintained in contact by the weight of the U-shaped frame, motor and blades mounted on said second member and being held in operable relation by insertion of said shaft in said socket, and said members being separable to divide said fan into two entirely separated portions by lifting said shaft out of said socket.

2,313,482

MULTIPLE WHEEL GRINDING MACHINE

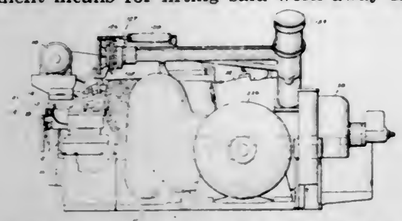
Hugh N. Rocks, Milburn A. Hollengreen, and Harold E. Balsiger, Waynesboro, Pa., assignors to Landis Tool Company, Waynesboro, Pa.

Application June 6, 1940, Serial No. 339,192

24 Claims. (Cl. 51—105)

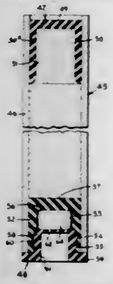
1. In a metal working machine, a work support having a headstock and footstock mounted thereon, work supporting centers in said headstock and footstock, a loading mechanism for

placing a work piece in operative position including a pivoted work receiving member having resilient means for lifting said work away from



said centers, said resilient means being just strong enough to overcome the weight of the work piece and having sufficient movement to return said work to inoperative position.

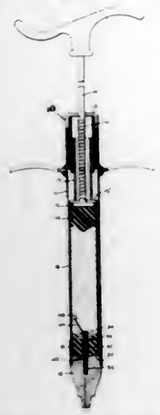
2,313,483
AMPOULE
Arthur E. Smith, Los Angeles, Calif.
Application January 4, 1941, Serial No. 373,127
7 Claims. (Cl. 128—272)



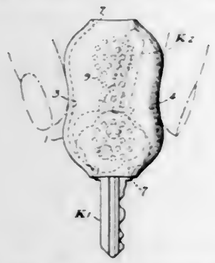
1. A container stopper comprising a body portion having an outwardly opening recess therein, the portion of the body at the bottom of the recess being severed substantially in alignment with the adjacent side wall of the recess except for a small hinge portion, thus forming a trap door, the severed portion having a periphery, sealingly engaging the container stopper body, and a plug member seated in and sealingly engaging the inner wall of said container stopper recess, said plug member including a diaphragm portion closing the outer end of said recess and a medicament adjacent the diaphragm and within the container stopper recess.

2,313,484
HYPODERMIC SYRINGE
Arthur E. Smith, Los Angeles, Calif.
Original application November 3, 1933, Serial No. 696,506. Divided and this application February 24, 1941, Serial No. 380,221
3 Claims. (Cl. 128—218)

1. A hypodermic syringe comprising a barrel having a blunt ended tube fixedly mounted at one end of and extending into the barrel, a plunger mounted at the other end, a discardable cartridge adapted to be received in said barrel through said plunger end, said cartridge comprising a receptacle having an imperforate plug at one end adapted to be pierced by said tube and a piston plug at the other end adapted to be operated by said plunger, said plugs defining a chamber adapted to hold liquid, said imperforate plug having an axial chamber open to the first chamber and adapted to contain medicament, a closure sealing the open end of said axial chamber and adapted to be displaced by the inwardly extending end of the tube as a necessary act of seating the cartridge in the barrel, thereby to combine the medicament and liquid.

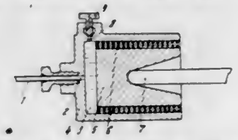


2,313,485
KEY CASE
Benjamin Stiller, Akron, Ohio
Application April 30, 1941, Serial No. 391,123
3 Claims. (Cl. 150—40)



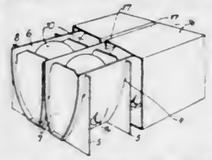
1. A thin flat key case comprising a pair of generally flat side walls of generally ovate form disposed in spaced confronting relation to one another and having curved edge portions at the ends of the case, a pair of edge walls extending between and connecting the edges of the side walls along the side edges of the case to provide between the side walls a key receiving chamber having a length and a width each greater than the corresponding dimensions of a key to be accommodated therein, said edge walls including portions curved toward one another at both ends of the case along said curved edge portions of the side walls and said edge walls being discontinuous across the case ends to provide slots at the opposite ends of the case each having a length greater than the width of the shank portions of keys to be accommodated in the case and less than the width of the heads of such keys, said slots constituting the sole openings into the chamber, the side and edge walls being integrally formed of resilient and elastic shape retaining rubber composition whereby the heads of keys can be inserted into and withdrawn from the chamber only upon enlarging one of said slots by stretching the walls of the case and whereby a pair of keys can be inserted into the chamber with their shanks extending in opposite directions for optional projection of the shank of one key through the slot at one end of the case and optional projection of the shank of the other key through the slot at the other end of the case, the movement of each key in projecting the shank thereof being limited by engagement between the head of such key and the inside of the curved portions of the edge walls at points spaced from the slots, and a plurality of integral, relatively small protuberances formed on the inside surface of at least one of the side walls, said protuberances being spaced from one another and engageable with a key head in the chamber at spaced portions of the surface of the key head or behind the top edge of the key head when the side walls are pinched together to prevent retraction of the projected key shank in use.

2,313,486
PACKING DEVICE
Jean Louis Gratzmüller, Boulogne-sur-Seine, and Lionel René Ignace, Bougival Seine-et-Oise, France; vested in the Alien Property Custodian
Application November 26, 1938, Serial No. 242,616
In Luxemburg December 2, 1937
3 Claims. (Cl. 267—35)



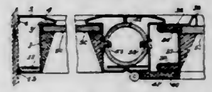
1. A device which comprises in combination, a cylinder, a piston fitting in said cylinder with annular play, a non-slippable sleeve of an elastic material of low volumetric compressibility forming a packing element between said piston and said cylinder and applied with a high adhesion against the corresponding walls of said piston and said cylinder, said sleeve being of uniform thickness over its whole length and of relative dimensions such that it keeps the piston in accurate axial relation with respect to the cylinder.

2,313,487
PACKING FOR EGGS AND OTHER BRITTLE ARTICLES
Kristian Heshe, Aarhus, Denmark; vested in the Alien Property Custodian
Application April 18, 1939, Serial No. 268,485
In Denmark April 23, 1938
3 Claims. (Cl. 229—29)



1. A collapsible packing for eggs and other brittle articles including a wrapper, and an inset formed from a piece of cardboard or similar suitable material folded longitudinally of the packing to form an even number of longitudinal walls connected among themselves so as to present substantially a W-shape with parallel troughs having transverse walls inserted in transverse slits spaced apart in the longitudinal walls in positions which will subdivide said troughs into cells and allow the W-shaped inset by virtue of inherent elasticity to open automatically and form the mentioned cells when the packing is released from its collapsed or folded condition, as by placing or throwing the collapsed packing upon a table, end portions upon said transverse walls serving as stops, and the feature which consists in that the slits into which the transverse walls are inserted comprise slit shaped openings which extend continuously across nearly the whole of the longitudinal walls and across the bottom folds of the W-shape of the latter with each slit having a narrow portion at one end in one wall and a wide portion at the other end in the next adjacent wall, respectively, serving to secure the two inner, mutually adjacent, intermediate, longitudinal walls to the transverse walls and allow the outer longitudinal walls to swing free and spread sideways into contact with the outer end portions or stops of the transverse walls upon release of the packing from the collapsed condition.

2,313,488
WINDOW STRUCTURE
Martinus Jacobus Charles Johanns, Rotterdam, Netherlands; vested in the Alien Property Custodian
Application June 17, 1939, Serial No. 279,647
In the Netherlands February 27, 1939
3 Claims. (Cl. 189—75)

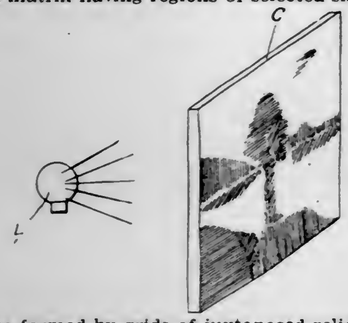


1. In a window construction composed of several separate windows, each unit comprising a separate sash consisting of structural elements comprising a substantially straight web, a flange provided on one side of said web substantially at a right angle to said web, a double flange forming a groove between its inner and outer legs provided on the other side of said web in an opposite direction to said first flange, said outer leg being extended beyond the plane of said web and being bent off inwardly to form a lip, the ends of said first mentioned flanges and the lips of said double flanges of oppositely arranged structural elements of two adjacent sashes of the window construction facing each other thus forming a closed space defined by said two straight webs, said two first mentioned flanges and two legs of said two double flanges, vertically arranged tubes fitted into the spaces between each two adjacent sashes, for supporting and stiffening said structural elements forming said sashes and means for coupling said sashes with said tubes.

2,313,489
MANUFACTURE OF DECORATED PRODUCTS PERMEABLE TO THE LUMINOUS RAYS AND PRODUCT OBTAINED THEREFROM
Pierre Michel Louis Latrobe, Paris, France; vested in the Alien Property Custodian
Application April 29, 1939, Serial No. 270,935
In France April 30, 1938
5 Claims. (Cl. 41—21)

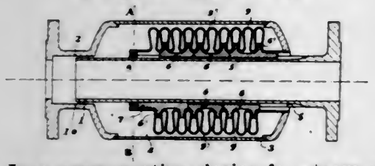
1. A process of manufacturing and decorating an article permeable to the luminous rays, which comprises preparing a first resistant carrier of flexible material with a grid of juxtaposed reliefs and depressions which cannot be individually distinguished by the naked eye under normal conditions of observation, pressing said first carrier against a second carrier of a more flexible material at a predetermined region of a surface of said second carrier whereby to mold into the surface of said second carrier throughout said region a first impression of said reliefs and depressions of the grid, changing the orientation of said first carrier relative to the

position at which said first impression was made and thereupon pressing it into another region of the second carrier to produce a second impression having a differing orientation from that of the first, and continuing the changing of orientation and the imprinting whereby to produce on said second carrier a surface constituting a matrix having regions of selected sizes and



shapes formed by grids of juxtaposed reliefs and depressions at different orientations, and bringing a plastic material into contact with said matrix to produce an article having a surface decoration which is a counterpart of said matrix, said material being permeable to luminous rays whereby light upon encountering the selectively oriented reliefs and depressions of said regions will effect display of said decoration.

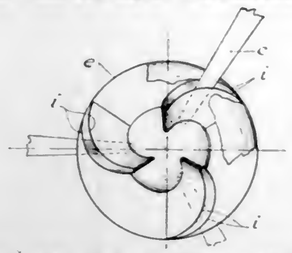
2,313,490
COMPENSATING DEVICE FOR STEAM OR LIKE PIPINGS
Emile Lauffer, Liege, Belgium; vested in the Alien Property Custodian
Application March 13, 1940, Serial No. 323,707
In Germany March 30, 1939
4 Claims. (Cl. 285—90)



1. In a compensating device for steam piping and the like, having a sleeve member connected at one end to a portion of the piping and a telescoping tube connected at one end to another portion of said piping and slidably extending into said sleeve member, the combination with a hollow expansible tube peripherally corrugated between the ends thereof and having said ends respectively secured within said sleeve member to the other or extreme ends of the sleeve and telescoping tube, of a plurality of supporting means slidably mounted upon the exterior surface of said telescoping tube within the interior of said hollow expansible tube and each engaging interiorly with a plurality of the corrugations of said expansible tube so as to limit expansion of the inner portions of said corrugations thereof along the telescoping tube to a predetermined degree.

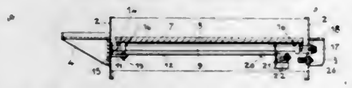
2,313,491
MOTOR PROPELLING UNIT
Pierre Marcel Lemoigne, Chatillon-sur-Bagneux, France; vested in the Alien Property Custodian
Application June 23, 1939, Serial No. 280,863
In France June 24, 1938
1 Claim. (Cl. 170—166)

In a motor propelling unit including a driven propeller having blades, a rotor member actuated by said propeller, said rotor member including an outer cone provided with a central opening, an inner cone arranged concentrically within



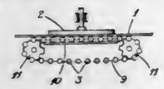
said outer cone, helically-shaped hollow partitions constituting the vanes of said rotor bracing said cones and the blades of the propeller passing within the hollow bracing partitions.

2,313,492
ELECTRIC HEATING APPARATUS FOR ALL APPLICATIONS
Jean Lobstein, Paris, France; vested in the Alien Property Custodian
Application December 19, 1939, Serial No. 309,951
In France December 22, 1938
2 Claims. (Cl. 219—22)



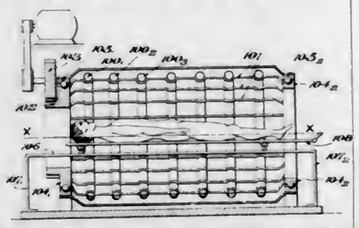
1. In an electric heating apparatus especially adapted for heating flat irons and having a frame, heating means and control means for automatically controlling the temperature produced by the latter, the combination of longitudinally extended hot plate means of sufficient length to allow said heater to receive a series of flat irons simultaneously in a row on said hot plate means and disposed in a position to be heated by said heating means, means for further adding to the length of said apparatus including a platform at the outlet end of the apparatus in line with and on the level of said hot plate means allowing irons to be pushed out off the latter upon said platform, and a second platform disposed at the entrance end of said apparatus in line with, and on the level of, the hot plate means to facilitate introduction of flat iron onto the hot plate means, and a manual adjusting means for adjusting the temperature control means having a manual adjusting knob disposed upon said end of the apparatus beneath said second platform in a position to be effectively shielded and protected from damage by said second platform.

2,313,493
PROCESS OF AND MEANS FOR GRINDING GLASS PLATES
Paul Edmond Marie Joseph Mols, Boitsfort, Belgium; vested in the Alien Property Custodian
Application February 12, 1940, Serial No. 318,403
In France March 2, 1939
6 Claims. (Cl. 51—110)



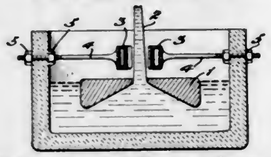
1. In apparatus for grinding rough glass plates, the combination of means for supporting the rough plate of glass at a plurality of points spaced apart from each other, a grinding disc rotatable on its axis extending at right angles to said plate and adapted to work on the exposed side of said plate opposite said supporting points, means for moving said plate with respect to said grinding disc, and means for imparting to said supporting means a linear movement with respect to said grinding disc independently of the movements of said plate.

2,313,494
PROCESS AND APPARATUS FOR THE TREATMENT OF FLUIDS
Albert Gaston Saheurs, Barenton, France; vested in the Alien Property Custodian
Application June 28, 1939, Serial No. 281,751
In France September 22, 1938
13 Claims. (Cl. 128—395)



1. An annular irradiating tube containing a small quantity of mercury and provided on the portion of its interior surface nearest its axis with humps, means for supporting an object to be irradiated within the circular space surrounded by said annular tube, and means for causing relative rotating motion of said supporting means and said annular tube for causing said mercury to cascade over said humps and radiate.

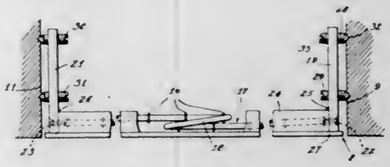
2,313,495
COOLING GLASS RIBBON IN FOURCAULT MACHINES
Ragnar Tanberg, Aaskollen, Drammen, Norway; vested in the Alien Property Custodian
Application July 19, 1939, Serial No. 285,397
In Norway February 15, 1938
4 Claims. (Cl. 49—17)



4. Apparatus for cooling a drawn ribbon of glass comprising, a tube formed of flexible material arranged along one face of the ribbon of glass, said flexible tube extending transversely of the ribbon of glass and having a cooling medium passing therethrough, and means for bending a portion of the flexible tube with respect to another portion thereof to vary the distance of said portions of the tube from the ribbon of glass.

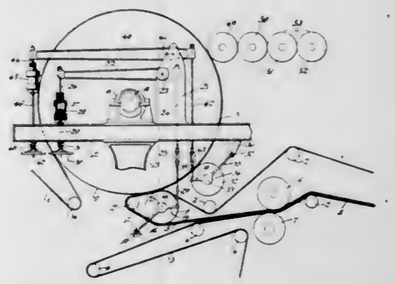
2,313,496
FIREPLACE SCREEN
Philip Adams, Dubuque, Iowa, assignor to The Adams Company, Dubuque, Iowa, a corporation of Iowa
Application August 6, 1941, Serial No. 405,688
8 Claims. (Cl. 160—330)

6. The combination in a fireplace curtain for attachment to any of a plurality of fireplaces having different sized openings, of a curtain support shaped to span a fireplace opening comprising a rigid formed steel bar and a rod supported at its ends in side by side relationship with said bar shaped for sliding movement of a curtain panel thereon, arms rigidly connected to said bar in the region of its ends and projecting into said fireplace opening adjacent the



sides thereof, means on said arms for engaging the side walls of the fireplace to compress the arms and the bar between the side walls to secure said bar in position, and a pair of curtain panels depending from said rod and slidable thereon between a collapsed position adjacent the sides of said opening covering said arms and a projected position disposed across said fireplace opening.

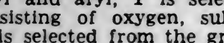
2,313,497
METHOD OF COATING PAPER
Harry J. Adrian, Stevens Point, Wis., assignor to Consolidated Water Power and Paper Company, Wisconsin Rapids, Wis., a corporation of Wisconsin
Application January 12, 1940, Serial No. 313,476
2 Claims. (Cl. 92—40)



1. A method of coating paper of the type made on a Yankee paper machine to form a surface thereon which is uniformly smooth and suitable for the reception of printing which comprises, passing a newly formed wet web forwardly, mechanically removing a portion of the moisture therefrom, thereafter carrying one surface of the partially wet web into contact with a heated, imperforate, rotating surface, thereafter smoothing the other surface of said web by rolling pressure, coating said other surface with a mineral coating suspension while the web adheres to said rotating surface, drying said web and coating thereon while the web is carried by said rotating surface, maintaining the coated surface intact while the web is carried by said surface, stripping said dry coated web from said rotating surface, and maintaining said web in substantially smooth condition while stripping the same from said surface.

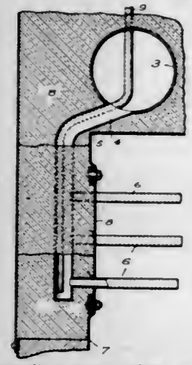
2,313,498
CYANOACETYL COUPLER
Charles F. H. Allen and Paul W. Vittum, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application December 23, 1940, Serial No. 371,396. In Great Britain January 2, 1940
21 Claims. (Cl. 95—6)

1. A color forming photographic developer comprising an aromatic amino developing compound containing a primary amino group and a coupler compound having the formula:



where X is selected from the group consisting of CN and $COOR_3$ where R_3 is alkyl, Z is selected from the group consisting of NHR_1 and alkoxy R_1 and R_2 are selected from the group consisting of H, alkyl and aryl, Y is selected from the group consisting of oxygen, sulfur and NR_4, where R_4 is selected from the group consisting of H, alkyl and aryl.

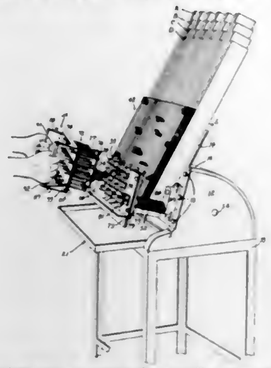
2,313,499
EVAPORATOR UNIT
Edmund E. Allyne, Cleveland, Ohio, assignor to Allyne Laboratories, Inc., Cleveland, Ohio
Original application January 3, 1938, Serial No. 183,042. Divided and this application September 21, 1939, Serial No. 295,973
1 Claim. (Cl. 62—95)



In a refrigerating apparatus, a cabinet having an insulated food compartment therein, a refrigerant evaporator assembly positioned in said cabinet, said assembly comprising a tubular refrigerant storage chamber lying parallel to the front of the said cabinet and having depending supply conduits connected thereto and a plurality of vertically spaced, horizontal freezing tubes connected to said supply conduits, the said evaporator assembly being independently insulated from said food compartment by a mass of material deeply surrounding said storage chamber and said supply conduits in such a manner that the only direct heat transfer to said compartment is through the medium of said plurality of vertically spaced, horizontal freezing tubes.

2,313,500
STICK DISPENSER
Ralph F. Anderson, Rockford, Ill.
Application April 8, 1942, Serial No. 438,109
16 Claims. (Cl. 107—7)

1. The combination in a stick dispenser for loading confection sticks into stick holders of a plurality of stick feeders, means for locating a stick holder in alignment with said stick feeders, and means operated by movement of the stick

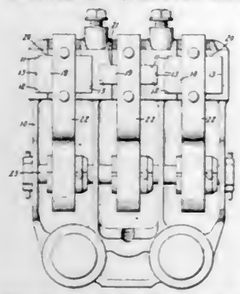


holder between a remote and an approach position for simultaneously pushing a stick from each of said feeders to a point for reception into said holder.

2,313,501
PROCESS FOR PREPARING METHYLENE DIALKYL MALONATES
Gustave Bryant Bachman, La Fayette, Ind., and Howard A. Tanner, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Original application August 15, 1939, Serial No. 290,318. Divided and this application June 7, 1940, Serial No. 339,392
6 Claims. (Cl. 260—485)

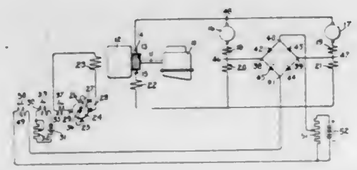
1. A process for preparing a methylene dialkyl malonate comprising reacting, in the vapor phase, formaldehyde with a dialkyl malonate, in the presence of a basic metal phosphate catalyst.

2,313,502
CURRENT COLLECTING DEVICE
Morris J. Baldwin, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application December 23, 1941, Serial No. 424,149
7 Claims. (Cl. 171—323)



1. A current collecting device for a commutator of a dynamo-electric machine armature having a multiplex winding with a plurality of progressive spirals about the armature including a plurality of units of brush guiding and supporting surfaces, each of said units including a pair of circumferentially spaced apart oppositely disposed guiding surfaces, the number of said units of brush guiding and supporting surfaces being at least equal to the number of said spirals of said multiplex winding, corresponding guiding surfaces of certain of said units being spaced circumferentially apart to extend over a commutator segment connected to a different spiral of said winding and constructed and arranged to provide at least one of said corresponding guiding surfaces for each winding spiral for opposite sides of brushes.

2,313,503
PROTECTIVE POWER SYSTEM
Morris J. Baldwin, Lawrence Park, Pa., assignor to General Electric Company, a corporation of New York
Application June 27, 1942, Serial No. 448,803
22 Claims. (Cl. 290—14)

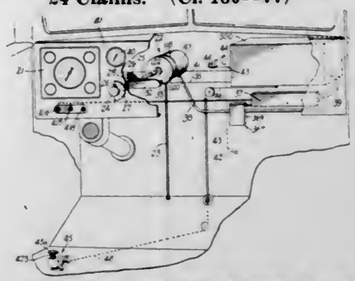


1. A power system for a vehicle including a prime mover, an electric generator arranged to be driven by said prime mover, a plurality of driving motors, means for connecting said motors to said generator, dynamo-electric means for controlling the torque developed by said motors, a control field exciting winding for said dynamo-electric means, means for connecting said motors in a pair of normally balanced electrical circuits, a second field exciting winding arranged to provide a component of excitation to said dynamo-electric means along the same axis as said control field exciting winding, means for energizing said second field exciting winding responsive to unbalance in said motor normally balanced circuits for providing a component of excitation in opposition to the component of excitation provided by said dynamo-electric means control field exciting winding for restoring substantially balanced torques to all of said motors.

2,313,504
SULPHYDRYL COMPOUND OBTAINED FROM FLOUR
Arnold K. Balls, Washington, D. C., and Walter S. Hale, Alexandria, Va., assignors to Claude R. Wickard, as Secretary of Agriculture of the United States of America, and his successors in office
No Drawing. Application October 24, 1942, Serial No. 463,261
7 Claims. (Cl. 260—112)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

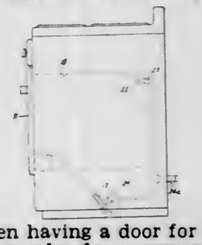
2. The process comprising mixing petroleum ether with a flour chosen from the group consisting of grain flour, lima bean flour, cotton-seed-meal, and peanut flour, thereby obtaining a solution containing a sulphydryl-bearing fraction; separating and removing all undissolved material from the dissolved material; evaporating the petroleum ether of the solution and dissolving in ether the residue resulting therefrom; adding acetone to the ether solution to precipitate the sulphydryl-bearing fraction; and separating and recovering the precipitated fraction from the mother liquor.

2,313,505
APPARATUS FOR CONTROLLING THE CONDITION OF OPERATION OF VEHICLES OR THE LIKE
Harry Sayre Benjamin, Poughkeepsie, N. Y.
Application April 16, 1940, Serial No. 329,886
24 Claims. (Cl. 180—77)



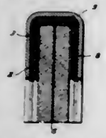
1. In apparatus for maintaining a variable condition at a substantially constant predetermined value, in combination, means responsive to variations in said condition, means for varying said condition, means for driving said condition varying means, means responsive to said first-mentioned means for effecting operation of said driving means, and means operated by said second means for effecting intermittent operation of said driving means only as said condition approaches its predetermined value.

2,313,506
ILLUMINATING MEANS
Leo F. Berg, Oak Park, Ill., assignor to Edison General Electric Appliance Company, Inc., a corporation of New York
Application September 12, 1941, Serial No. 410,534
4 Claims. (Cl. 240—5)



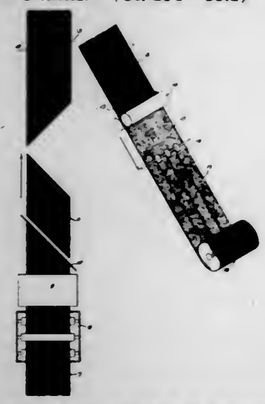
4. In an oven having a door for closing it pivoted at its lower edge for movement from a substantially vertical closed position to a substantially horizontal open position, a coiled counterbalance spring attached to and movable by said door for resisting its movement to said open position and balancing its weight as it moves toward this position, indexing means cooperating with said spring to hold said door in each of said positions and also in a partially open intermediate position, an electric lamp in said oven, an energizing circuit for said lamp and a switch for controlling said lamp having relatively movable contacts connected in said energizing circuit, and further connected to respective turns of said spring so as to be operated into and out of engagement by said spring as it elongates and compresses so that when said door moves toward said open position beyond said intermediate position said lamp is energized and when said door is moved toward its closed position said lamp is deenergized before it reaches said intermediate position and remains deenergized until said door is again opened beyond said intermediate position.

2,313,507
METAL WINDOW CHANNEL
Bruce R. Billmeyer, Lancaster, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania
Application January 23, 1940, Serial No. 315,231
4 Claims. (Cl. 189—76)



1. A gasket strip adapted to be placed within a metal channel to receive the edge of an adjoining element such as the edge of a glass and to conform and to adhere thereto, comprising a fibrous backing having a thin, compressible, permanently tacky coating thereon of cork, asphalt and unvulcanized rubber hydrocarbon, the rubber hydrocarbon and the asphalt being present in said coating in substantially equal proportions.

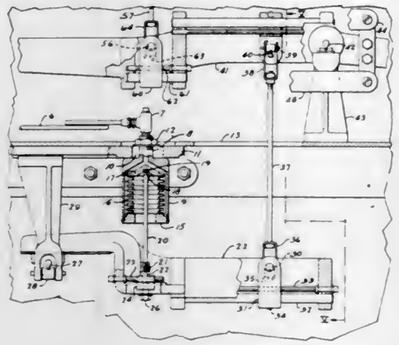
2,313,508
METHOD OF MAKING CONTINUOUS SHEETS OR ROLLS OF GASKET MATERIAL
Frank H. Carman, Lancaster, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania
Application January 23, 1940, Serial No. 315,232
4 Claims. (Cl. 154—33.1)



1. In the method of making a continuous, extensible, tacky sheet of gasket material, the steps which comprise severing a substantially inextensible woven cotton sheet having its warp threads extending longitudinally thereof diagonally into sections, assembling the severed sections with a vertical edge of one section disposed in abutting relationship to a vertical edge of a second section disposed in the same plane, securing adjacent sections to one another by stitches extending from one section to the adjacent section to form a continuous extensible sheet in which the warp and filler threads extend diagonally of the axis of the sheet, and calendering thereon a thin tacky, compressible coating including cork granules, rubber and asphalt.

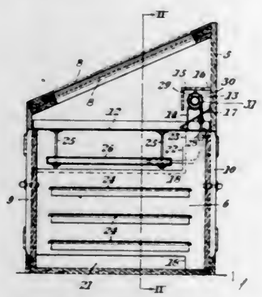
2,313,509
WEIGHING SCALE
Robert S. Bohannan, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey
Application October 17, 1939, Serial No. 299,832
8 Claims. (Cl. 265—47)

1. In a weighing scale, in combination, a weighbridge, a plurality of capsules supporting said weighbridge, a chamber corresponding to each of said capsules, a conduit connecting each of said capsules to its corresponding chamber, said capsules, conduits and chambers containing liquid to which pressure is applied by loads on said weighbridge, a metallic bellows contained in each of said chambers, said bellows being surrounded by such liquid, there being an opening from the exterior of each of said chambers to the



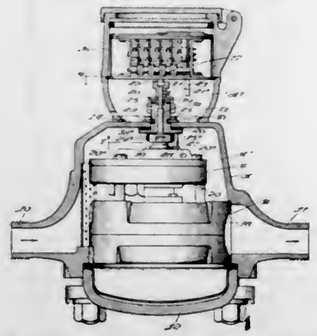
interior of the bellows contained therein, a frame supporting said chambers, a lever supported by said frame and having an independently adjustable load pivot corresponding to each of said chambers, said chambers being each indepedently adjustable on said frame to adjust its relation to its corresponding load pivot, and thrust members acting through said openings to transmit force from said bellows to said load pivots.

2,313,510
REFRIGERATED CABINET
Harry A. Bortz, Pittsburgh, Pa.
Application November 23, 1940, Serial No. 366,871
4 Claims. (Cl. 62—89.5)



1. A refrigerated cabinet having an upper display compartment and a lower storage compartment, a horizontally extending pan dividing the cabinet into the two compartments and capable of holding ice on which articles may be displayed in the display compartment, a cooling coil in the display compartment, a heat insulating baffle extending horizontally below the ice pan for a portion of the length of the cabinet and thence downwardly towards the bottom of the cabinet to divide the storage compartment into two chambers, and a cooling unit positioned between the ice pan and the baffle and extending into one of the chambers.

2,313,511
REGISTERING LIQUID METER
Richard C. Bradley, Chicago, Ill.
Application May 27, 1939, Serial No. 276,166
6 Claims. (Cl. 73—233)



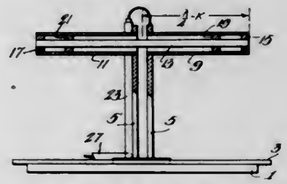
1. In a liquid meter housing having a register chamber and a liquid chamber sealed from the register chamber and provided with a propeller, a gearless variable-speed transmission comprising: a frame in the liquid chamber having a rotary shaft driven by the propeller; said shaft having an eccentric; a clutch-member in said frame having a rotary shaft extending into the register chamber; oscillating operating-means driven by the said eccentric for rotating said clutch-member; and control-means in the register chamber extending into the liquid chamber and regulating said operating-means whereby the speed of one shaft may be adjusted with respect to the other.

2,313,512
STERILE SURGICAL PACKAGE
John H. Brewer, Baltimore, Md., assignor to Hynson, Westcott & Dunning, Incorporated, Baltimore, Md., a corporation of Maryland
Application January 30, 1942, Serial No. 428,967
7 Claims. (Cl. 206—63.2)



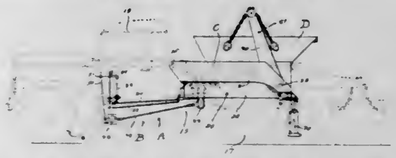
1. A sterile package for surgical powders comprising a flat inner envelope having perforations through which the powder may be applied directly into a wound, the openings for the powder which said perforations provide being closed when the inner faces of the envelope adjacent the perforations are held in contact, and an outer flat envelope enclosing said inner envelope and protecting the same against contamination and having a closure adjacent the perforated portion of the inner envelope formed by folding both walls of the outer envelope upon themselves whereby the meeting walls of the outer envelope maintain said inner faces of the inner envelope adjacent said perforations in contact during handling of the package prior to use of the inner envelope in applying the powder, said envelopes being so dimensioned that the perforated portion of the inner envelope is positioned immediately adjacent the fold of the closure of the outer envelope.

2,313,513
ANTENNA
George H. Brown, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application January 31, 1942, Serial No. 429,031
8 Claims. (Cl. 250—33)



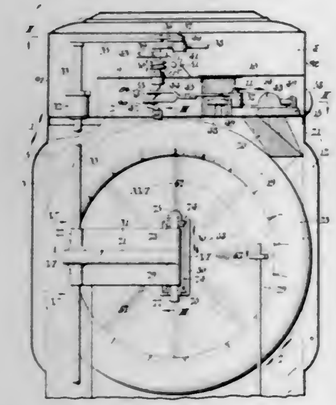
1. An antenna including a pair of conductive supporting sections, a pair of radiator arms consisting of oppositely disposed hollow sections secured at their inner ends to said supporting sections to form a dipole radiator exhibiting capacitive reactance at the operating frequency, a conducting member disposed within said hollow sections and connected to the remote ends thereof, and conducting plugs arranged within said radiator arms to short circuit said conducting member to said hollow sections at such points that said capacitive reactance is neutralized whereby said antenna is resonant at the operating frequency.

2,313,514
LOADING, HAULING, AND DUMPING APPARATUS
Lew Wallace Brooks, Knoxville, Tenn.; E. N. Brooks, Karl Martin, and John A. Ayres, executors of said Lew Wallace Brooks, deceased, assignors to Brooks Equipment and Mfg. Co., Knoxville, Tenn., a corporation of Tennessee
Application April 10, 1940, Serial No. 328,955
12 Claims. (Cl. 214—77)



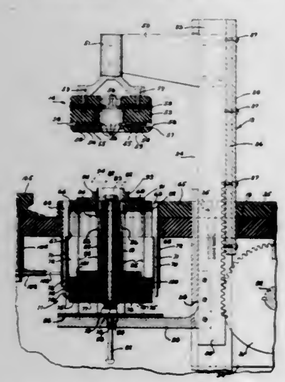
1. In apparatus for the loading, hauling, and dumping of materials, the combination of a truck, a bucket, hoist means on the truck for elevating and lowering the bucket, means for connection between the hoist means and the bucket for elevating the bucket to a supported position resting directly on the truck, and a dumping bar on the bottom of the bucket co-acting with a pivoted trip hook at the rear of the truck for automatically causing tilting of the bucket as the hoist means operates to lower the bucket from its supported position on the truck at a location where the materials are to be dumped.

2,313,515
GAS METER
William Laird Brown, Lansdowne, Pa.
Application November 1, 1938, Serial No. 238,133
27 Claims. (Cl. 73—268)



1. In a gas meter, a diaphragm; a valve crank shaft; means operatively connecting the diaphragm and the valve crank shaft; a control valve, with a slide cover operated by a crank arm from the crank shaft, and with a seat having a center exhaust port, and outer ports at opposite sides of said center port in communication with opposite sides of the diaphragm, the outer ports being unequal in area in such amount as to compensate for angularity between the crank arm and the crank shaft, and the portions of said slide cover co-acting with said outer ports being correspondingly unequal in area.

2,313,516
TESTING APPARATUS
Jasper L. Brubaker, Oak Park, and Frank J. Lengvenis, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application July 27, 1940, Serial No. 347,926
8 Claims. (Cl. 175—183)



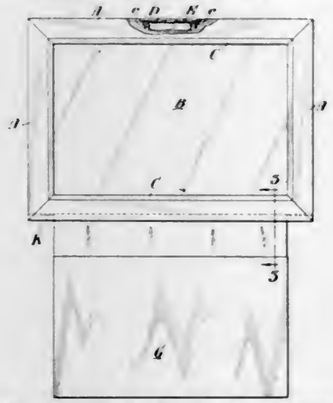
1. In a testing apparatus, a pair of semi-circular coils each split into two portions, means for moving the split portions of said coils together to form a pair of coils, and means for rotating an article within the coils.

2,313,517
FOUNDRY MOLD INSERT AND METHOD OF MAKING CASTINGS
Stuart L. Cameron, St. Paul, Minn., assignor to Meehanite Metal Corporation, a corporation of Tennessee
Application January 21, 1942, Serial No. 427,602
12 Claims. (Cl. 22—134)



1. In a foundry sand mold having a casting cavity, a riser cavity for feeding surplus molten metal to the casting cavity during shrinkage in the casting and a connecting open space between the casting cavity and the riser cavity, the connecting open space having a set-back at said casting cavity to provide a shoulder portion spaced from the casting cavity, the improvement of a core-sand insert adapted to be placed in said connecting open space next adjacent and intermediate, the casting cavity and said shoulder portion, said insert being comprised of a substantially flat body of molded core sand having a plurality of closely spaced openings extending therethrough, said openings being distributed over the effective area of said insert defined by the said connecting open space through which molten metal moves, some of the openings being positioned around, and in close proximity to, other of the openings whereby molten metal moving through said some of the openings stores heat in the insert around the other of the openings and molten metal moving through the other of said openings stores heat in the adjacent portions of the insert, the heat stored in said insert retarding the normal cooling rate of the molten metal in said open space to assure the feeding of said surplus molten metal from the riser cavity into the casting cavity during shrinkage of the casting.

2,313,518
VISION TRAINING DRAWING TABLET
Anson Kent Cross, Boothbay Harbor, Maine
Application June 23, 1941, Serial No. 399,408
3 Claims. (Cl. 35—26)



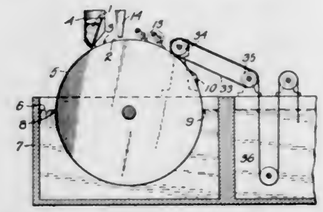
1. In a drawing tablet for self instruction in drawing a sheet of transparent material adapted to receive a drawing and a sheet of opaque material adapted to lie over either side of the transparent sheet and having one of its two surfaces of any light color and the other surface of any dark color, either of which colors may be placed in contact with the transparent sheet to make the lines of the drawing on the transparent sheet easy to see against either the dark side or the light side of the opaque sheet.

2,313,519
WEARING APPAREL
David Cuttler, Chicago, Ill.
Application September 23, 1940, Serial No. 357,866
2 Claims. (Cl. 2—97)



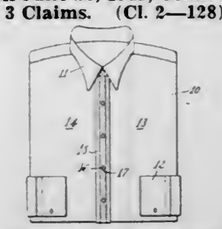
1. The combination with a sleeved coat having a permanent lining in each of the body and sleeve portions which are permanently and separately connected adjacent but free of the junction of said sleeve and body portions; securing elements on said lining at the junctions between the sleeve and body linings; and detachable sleeve linings provided with securing elements detachably connecting with the securing elements on the permanent lining.

2,313,520
PROCESS FOR MAKING CELLULOSE SHEETS
Emil Czapek, New York, N. Y.
Application August 12, 1937, Serial No. 158,747
10 Claims. (Cl. 18—57)



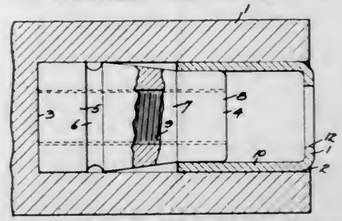
1. The process of manufacturing strips and the like from viscose and the like cellulose solutions consisting in pouring a viscous layer directly onto a pouring base without any intervening unsupported free space, immersing the layer so supported into a coagulating bath for a period which is sufficient to permit the coagulating fluid to start penetrating the layer to said support, then freeing the layer from the base, and supplying a fresh coagulating fluid to the inner face of the layer so freed, and returning the layer so freed to the pouring base and retaining the layer thereon until effectively coagulated.

2,313,521
SHIRT OR LIKE GARMENT
Frank Di Iuglio, New Haven, Conn.
Application June 26, 1941, Serial No. 399,778
3 Claims. (Cl. 2—128)



1. A shirt front having a body portion with a front opening, a center front longitudinally extending buttonhole portion at one edge of said opening superposed on the body portion, and an additional strip superposed on said buttonhole portion and extending longitudinally thereof and having buttonholes extending therethrough, said additional strip comprising a plurality of plies of material whereby its outer surface is raised substantially above that of the buttonhole portion, and said additional strip being narrower than the buttonhole portion and applied thereto substantially centrally of the width thereof.

2,313,522
WALL ANCHOR
William Dinnes, Avon Township, Oakland County, Mich.
Application September 27, 1941, Serial No. 412,569
3 Claims. (Cl. 72—105)



1. A wall anchor comprising a bushing having its rear portion of uniform diameter to fit the bore of a wall opening, the front portion of the bushing being of smaller diameter and its intermediate portion being tapered and of rearwardly increasing size, a sleeve mounted to slide upon the smaller front portion of the bushing and into said bore, said bushing and sleeve being of relatively hard material whereby when the sleeve is driven rearwardly over the tapered intermediate portion of the bushing it is progressively expanded thereby and cuts said bore intermediately of the length of the latter so that that portion of the bore of the wall opening becomes of rearwardly increasing size thereby anchoring said bushing and sleeve in said bore, and said bushing being provided with means for engaging a fastening means.

2,313,523
PHOTOGRAPHIC MATERIAL
Thomas S. Donovan and Walter V. Wadman, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application June 18, 1940, Serial No. 341,182
9 Claims. (Cl. 95—88)

1. A composition of matter in solid or pow-

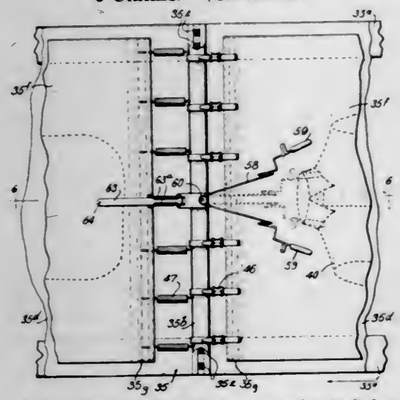
der form, adapted to form a photographic solution containing free aldehyde in quantities sufficient to act as a hardener and a sulphite when dissolved in water in the presence of a base, comprising a photographic image and a compound of an aldehyde with a bisulphite.

2,313,524

TRAVELING WORK CONVEYER

Gilbert O. Driesbach, Robesonia, and Robert Carl Rahm, Wyomissing, Pa., assignors to S. Liebovitz & Sons Inc., New York, N. Y., a corporation of New York

Application March 17, 1939, Serial No. 262,330
9 Claims. (Cl. 38—8)



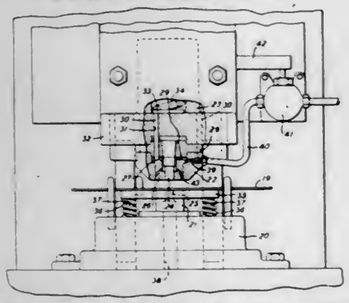
1. A traveling work conveyer adapted for use in finishing operations on shirts or the like, comprising in combination, a work table, a conveyer belt movable along said table, and a plurality of work supporting pads secured in spaced relation on said conveyer belt, said pads each being secured in stretched condition by means securing its ends to fixed anchorages on said conveyer belt to leave each pad independent of each other pad, said securing means comprising resilient stretching means at one end of the pad.

2,313,525

ARTICLE FORMING APPARATUS

Beril Edelman, Brooklyn, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application October 9, 1941, Serial No. 414,264
4 Claims. (Cl. 164—22)



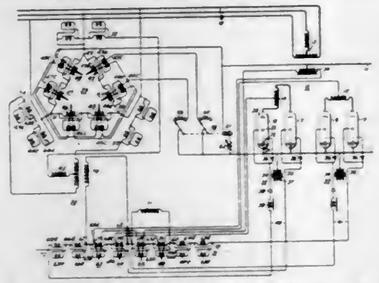
4. In an apparatus for forming articles or article blanks from dust producing materials by means of telescopically interfitting and interslidable members, means comprising the interslidable members to define a chamber closed except for the crevices between the interslidable faces of the members, the said chamber being of greater volume in one position of the interslidable members and of less volume in another position thereof, and a compressed gas supply means to introduce gas under pressure into the chamber when of greater volume to be expelled therefrom by the contraction of the chamber to less volume and to be expelled thereby through the said crevices to remove dust therefrom.

2,313,526

ELECTRIC CIRCUIT

Martin A. Edwards, Scotia, N. Y., assignor to General Electric Company, a corporation of New York

Application October 17, 1940, Serial No. 361,600
18 Claims. (Cl. 175—363)



14. In combination, a supply circuit, a load circuit, electric translating apparatus interconnecting said circuits including a plurality of electric valves arranged to operate in parallel and each including a control member, a control circuit for energizing said control members including a source of polyphase periodic potential and a phase shifting network for maintaining a predetermined division of load between said parallel operated valves including a plurality of inductive windings connected in series across each phase of said source of polyphase periodic potential, inductive windings connected in series with each phase of said source of potential and magnetically coupled with the windings of a different phase of said source of potential for producing a series component of voltage having a phase relation dependent upon the phase relation of said other phase, and means for varying the magnitude of said series component in accordance with the current conducted by each of said parallel electric valves to automatically shift the phase of the periodic potentials applied to said control members to maintain a predetermined division of load between said parallel operating valves.

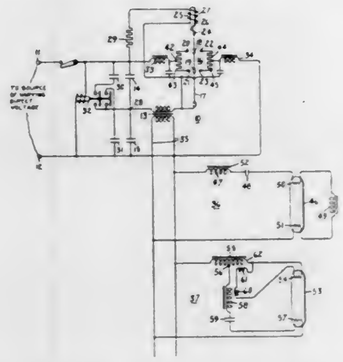
2,313,527

VIBRATOR INVERTER SYSTEM

Martin A. Edwards, Scotia, N. Y., assignor to General Electric Company, a corporation of New York

Original application May 27, 1939, Serial No. 276,212, now Patent No. 2,284,407, dated May 26, 1942. Divided and this application December 23, 1940, Serial No. 371,448
3 Claims. (Cl. 175—365)

1. In a vibrator inverter, a vibratile element having an armature, means to drive said element comprising a core having a main leg and outer legs, the extremities of said legs being closely adjacent to said armature, and an actuating winding on said core, said core having an air gap therein remote from said extremities, the portion of said core about said gap being of small cross-sectional area relative to that of the remainder of said core to cause said portion to approach saturation as the current in said



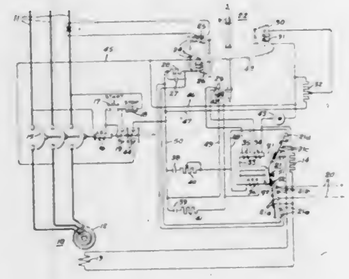
winding increases, said armature being in series with said portion of said core in the flux path thereof whereby with said increase of current the leakage current in said core is increased and increase of the flux in said armature is prevented.

2,313,528

CONTROL SYSTEM

Samuel C. Ewing, Scotia, and Fred H. Winter, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York

Application December 23, 1939, Serial No. 310,716
10 Claims. (Cl. 172—289)



1. A system for controlling the application of field to a synchronous machine comprising in combination, a synchronous dynamoelectric machine having a field winding, an electromagnetic switching device for controlling the connection of said field winding to a source of supply, said device having a closing coil and a lockout coil, means responsive to an operating condition of said machine for controlling the supply of direct current to said coils to effect energization and deenergization of said closing coil and lockout coil, electrical energy storage means and electrical connections from said energy storage means to said lockout coil for preventing deenergization of said lockout coil for a predetermined interval of time after energization of said closing coil thereby to prevent pickup of said switching device and application of field to said machine during said time interval.

2,313,529

FOG INHIBITOR FOR PHOTOGRAPHIC EMULSIONS

George E. Fallesen and John A. Leermakers, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application August 9, 1941, Serial No. 406,172
5 Claims. (Cl. 95—7)

1. A gelatino-silver halide emulsion containing as an antifoggant a diacetylamino phenol.

2,313,530

COMBINATION FENCE TOOL

Herman D. Feigion, York, Nebr.

Substitute for abandoned application Serial No. 651,200, January 11, 1933. This application October 27, 1941, Serial No. 416,729
1 Claim. (Cl. 140—121)



A combination tool for connecting the ends of wires in the construction of fences, comprising a pair of pliers for holding an end of the terminal loop of one of the wires, a spindle fixed to and projecting from one of the jaws of the pliers at right angles thereto, and spaced apart circular heads on the spindle with a slot in one of the heads for holding an end of the terminal interengaging loop of the other wire, the spaced apart heads cooperating with the pliers and spindle in twisting the connected terminal loops on each other respectively as the tool is swung around the same with the heads bearing on the wires.

2,313,531

PROCESS FOR MINIMIZING SLUDGE FORMATION IN OILS USED FOR SCRUBBING GASES

Louis J. Figg, Jr., and Edward E. Shaulis, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application February 21, 1940, Serial No. 320,134
5 Claims. (Cl. 183—115)

1. In the manufacture of artificial gas by procedure wherein the gas is subjected to a scrubbind medium essentially comprised of straw oil, the steps which comprise scrubbing said gas with said straw oil scrubbing medium which contains a small amount of a phenolic ether having a sludge-preventing ratio greater than 1.2, said phenolic ether having been blown into said scrubbing medium.

2,313,532

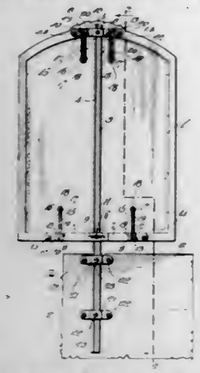
MIRROR SUPPORT

Jack Garrett, Jamestown, N. Y.

Application December 30, 1940, Serial No. 372,402
4 Claims. (Cl. 88—99)

1. A mounting for a mirror comprising a standard having a longitudinally slotted rear wall, members for securing said standard at the back of a dresser, upper and lower brackets straddling the standard, bolts passing through

the brackets and the slot of the standard to hold the brackets to the standard and permit adjustment of the brackets along the standard, and mirror-engaging members connected with said brackets, the lower bracket being formed with



a transversely extending slot through which its securing bolt passes whereby a mirror having the mirror-engaging members secured thereto may be tilted about the bolt of the upper bracket and straightened.

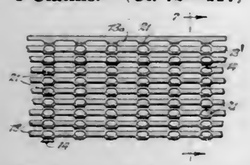
2,313,533

EXPANDED METAL LATH

Harvey M. Gersman, New York, N. Y., assignor to Ferrex Corporation, New York, N. Y., a corporation of Delaware

Original application May 29, 1939, Serial No. 276,316. Divided and this application October 12, 1939, Serial No. 299,125

5 Claims. (Cl. 72—117)



1. Expanded sheet metal lath comprising parallel rows of strands which widthwise extend in the direction of the plane of the sheet and have extensions which are spaced longitudinally along the strands, which diverge for a portion of their extent and which are joined at their outer ends between adjacent strands to form bonds, the diverging portions of said extensions being deflected in opposite directions toward edgewise positions and being bent at their points of juncture with said strands and bonds.

2,313,534

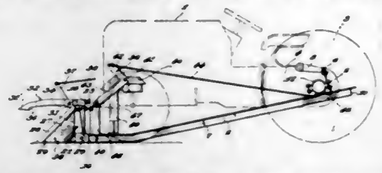
COMBINATION EARTH MOVER AND BULLDOZER

Edward C. Gledhill, Galion, Ohio

Application February 19, 1941, Serial No. 379,703

5 Claims. (Cl. 37—126)

1. A combination earth mover and bulldozer including a frame, means pivotally mounting the frame on a vehicle for swinging movement in a vertical plane, said frame having side members, a scoop, a bracket, means carried by the bracket and the side members and pivotally mounting the scoop on the frame for swinging movement therewith, said scoop being movable vertically on the frame from one position serving as an earth mover to a second operative position serving as a bulldozer, and means carried by the frame for latching the scoop in either of said



operative positions, said last-mentioned means including a pivoted latch having a hook and a detent.

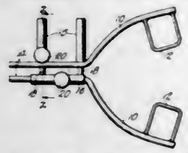
2,313,535

BITE REGISTERING DEVICE

Ewald C. Glitzke, Kansas City, Mo.

Application March 30, 1942, Serial No. 436,762

4 Claims. (Cl. 32—19)



3. A dental bite-registering appliance comprising a pair of curved bows for carrying wax impression material, said bows having a spread sufficient for extending exteriorly of the teeth to which application is made, adjustable connections between the anterior end portions of said bows and arranged to allow said bows to be spread apart into various different spread relations and also shifted relative to each other into different anterior-posterior relations, and means for securing said adjustable connections for holding the parts in their different adjusted positions.

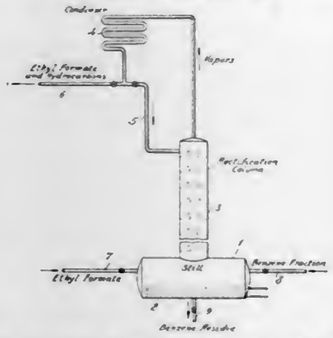
2,313,536

DISTILLATION OF BENZENE FRACTIONS WITH BUTYRALDEHYDE

Richard B. Greenburg, Philadelphia, Pa., assignor, by mesne assignments, to Allied Chemical & Dye Corporation

Application July 12, 1941, Serial No. 402,143

9 Claims. (Cl. 202—42)



1. The process for the recovery of benzene form a benzene fraction containing the same and containing a mixture of like-boiling, non-aromatic hydrocarbons whicb comprises distilling said benzene fraction and rectifying the distilled vapors in the presence of butyraldehyde in an amount which selectively carries over as distillate said like-boiling, non-aromatic hydrocarbons and leaves a hydrocarbon residue of the distillation enriched in benzene.

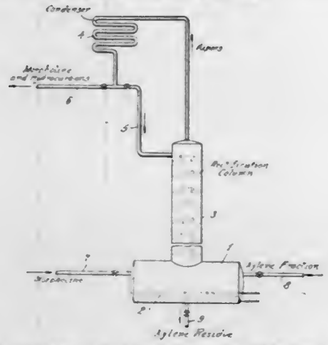
2,313,537

RECOVERY OF XYLENE FROM OILS CONTAINING THE SAME

Richard B. Greenburg, Philadelphia, Pa., assignor, by mesne assignments, to Allied Chemical & Dye Corporation

Application July 12, 1941, Serial No. 402,144

3 Claims. (Cl. 202—42)



1. The process for the recovery of xylene from a xylene fraction containing the same and containing a mixture of like-boiling, non-aromatic hydrocarbons which comprises distilling said xylene fraction and rectifying the distilled vapors in the presence of substantially anhydrous morpholine in an amount which selectively carries over as distillate said like-boiling, non-aromatic hydrocarbons and leaves a hydrocarbon residue of the distillation enriched in xylene.

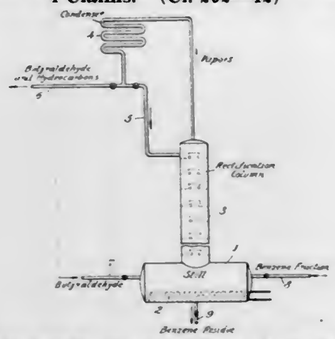
2,313,538

DISTILLATION OF BENZENE FRACTIONS

Richard B. Greenburg, Philadelphia, Pa., assignor, by mesne assignments, to Allied Chemical & Dye Corporation

Application July 18, 1941, Serial No. 402,951

4 Claims. (Cl. 202—42)



1. The process for the recovery of benzene from a benzene fraction containing the same and containing a mixture of like-boiling, non-aromatic hydrocarbons which comprises distilling said benzene fraction and rectifying the distilled vapors in the presence of ethyl formate in an amount which selectively carries over as distillate said like-boiling, non-aromatic hydrocarbons and leaves a hydrocarbon residue of the distillation enriched in benzene.

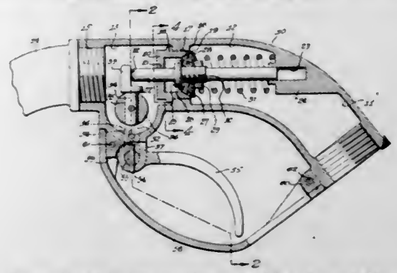
2,313,539

LIQUID DISPENSING NOZZLE

Harry M. Groomes, Whitmore Lake, Mich.

Application October 21, 1940, Serial No. 362,015

5 Claims. (Cl. 251—133)



1. In a liquid dispensing nozzle, a nozzle casing having an elongated chamber with a valve port therein, a valve stem movable longitudinally of said chamber and having a valve head movable into and out of engagement with said valve port, a control member shaft, a control member mounted on said shaft outside said nozzle casing chamber, an arm on said shaft, a second shaft extending into said nozzle casing chamber, an arm on said second shaft having a pin and slot connection with the first shaft, and means connected to said second shaft for moving said valve stem in response to the motion of said control member.

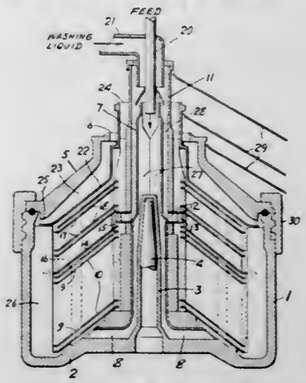
2,313,540

MACHINE FOR PURIFYING LIQUIDS

Selden H. Hall, Poughkeepsie, N. Y., assignor to The De Laval Separator Company, New York, N. Y., a corporation of New Jersey

Application May 26, 1941, Serial No. 395,151

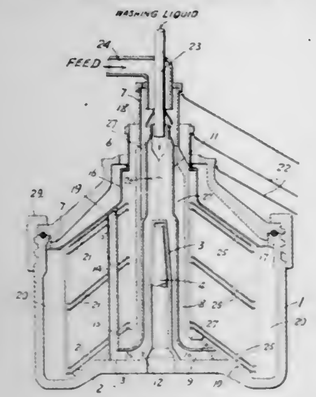
12 Claims. (Cl. 233—14)



9. A centrifugal purifier for separating from a liquid impurities heavier than the liquid comprising a rotatable bowl and two frustro-conical partitions therein dividing the bowl into three compartments, one above another, namely, a primary separating chamber, a wash compartment and a secondary separating compartment, said compartments all surrounding the axis of the bowl along different lengths thereof, means to feed the liquid to be purified to the primary separating chamber wherein the major part of the impurities is separated from the liquid containing residual impurities, there being communication between the zone of the primary separating chamber containing separated partially puri-

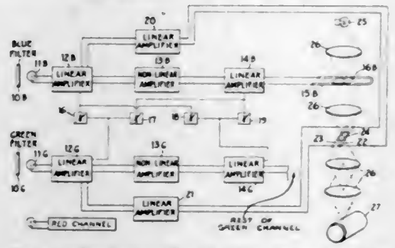
fied liquid and the wash compartment through which said partially purified liquid is adapted to flow from said chamber to said wash compartment, means to supply a wash fluid to the wash compartment and wherein it is disseminated through the partially purified liquid admitted thereto from the primary separating chamber, there being communication between the wash compartment and the final separating compartment wherein the liquid is separated from the wash fluid and residual impurities, the bowl having outlets for the purified liquid and for the wash fluid and all separated impurities.

2,313,541
MACHINE FOR PURIFYING LIQUIDS
Alan E. Flowers, Poughkeepsie, N. Y., assignor to The De Laval Separator Company, New York, N. Y., a corporation of New Jersey
Application May 26, 1941, Serial No. 395,153
1 Claim. (Cl. 233—15)



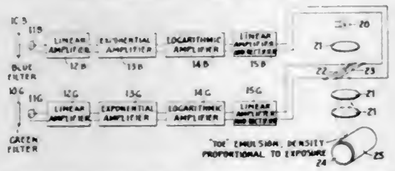
In a centrifugal separator for the separation from a liquid containing impurities of heavier specific gravity than the liquid, comprising a separating bowl and contained therein a plurality of frusto-conical discs providing a plurality of frusto-conical separating chambers, means to feed the impure liquid to said separating chambers through said discs between their inner and outer edges, in which chambers, under the action of centrifugal force, said liquid with a minor part of its impurities is separable from the major part of its impurities and is displaced inward toward the bowl's axis while the separated impurities move outward toward the periphery, and means to disseminate a washing liquid heavier than the liquid to be purified throughout said separated partially purified liquid, said means including a supply conduit extending through said bowl and having outlets which open into the inner parts of said separating chambers and nearer the axis of the bowl than the admission means for the impure liquid and which are so restricted as to effect proper distribution, thereby causing combination of said washing liquid with the impurities in the partially purified liquid, and the separation of said washing liquid and impurities from substantially purified liquid and movement of said washing liquid and impurities outward through said separating chambers toward the bowl's periphery, the separator having the usual outlets for lighter and heavier separated constituents through which are respectively discharged the purified liquid and the washing liquid and impurities.

2,313,542
ELECTRO-OPTICAL COLOR REPRODUCTION CIRCUIT
Vincent C. Hall and John G. Streiffert, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application November 1, 1941, Serial No. 417,540
12 Claims. (Cl. 178—5.2)



1. In an electro-optical color reproduction circuit with at least three channels respectively for carrying the primary color signals, color correcting means consisting of a ribbon type light valve with substantially parallel ribbons, an amplifying circuit connecting one of the channels to one of the ribbons for deflecting the ribbon in accordance with and relatively greatly with respect to the signal incident into said one of the channels, and a second amplifying circuit connecting at least one other of the channels to the other ribbon for deflecting it in accordance with and relatively less greatly with respect to the signal incident into said other of these channels.

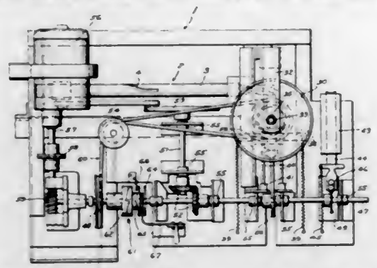
2,313,543
ELECTRO-OPTICAL SYSTEM
Vincent C. Hall, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application November 1, 1941, Serial No. 417,541
15 Claims. (Cl. 178—5.2)



1. In electro-optical systems for the reproduction of a multicolored original, the method of producing masking type correction of one-color signal by another in the form of division of color transmissions or reflectivities raised to exponents whose ratio is the masking factor, which method comprises setting up in two electric channels with logarithmic amplifiers, currents logarithmically proportional respectively to said transmissions or reflectivities raised to said exponents, scanning by light, a photosensitive surface whose response has density predominantly linearly proportional to exposure and modulating said light in accordance with the intensities of the two currents linearly subtracted from one another.

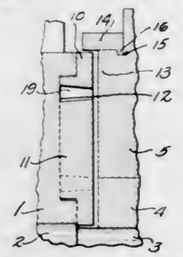
2,313,544
ARTICLE TURNING MACHINE
Julius B. Hampton, Bessemer, Ala.
Application January 2, 1942, Serial No. 425,472
9 Claims. (Cl. 214—1)

1. An article turning machine of the character described comprising a stationary sleeve, a member rotatably and slidably mounted in said sleeve, coating jaws on said member for receiving and releasably securing an article therebetween, one of said jaws being movable, and means for op-



eratively connecting the member to the sleeve, under the control of the movable jaw, for rotation by said sleeve upon sliding movement of said member in said sleeve.

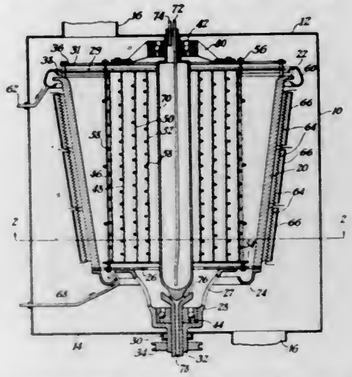
2,313,545
LOCOMOTIVE DRIVING WHEEL HUB AND LINER STRUCTURE
James J. Hennessy, Montclair, N. J.
Application December 4, 1940, Serial No. 368,428
6 Claims. (Cl. 308—165)



2. In an assembly including an axle, an axle box for supporting the axle load, a wheel pressed on the axle and having a hub, said box and hub having opposing vertical faces, a split liner applicable laterally about said axle between said faces, and a radially split annular retainer member between the wheel hub and the end of the box removably secured to said box and removable therefrom while the assembly of the axle, box and wheel is maintained and projecting longitudinally of the axle beyond the end of the box and about said liner to hold said liner in functioning position without interfering with the rotation of the liner with the axle and hub or with the play of the liner and hub to and from the box.

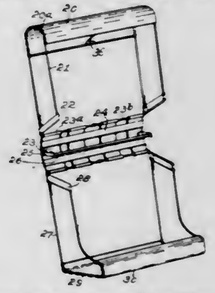
2,313,546
DISTILLATION APPARATUS
Kenneth C. D. Hickman, Rochester, N. Y., assignor to Distillation Products, Inc., Rochester, N. Y., a corporation of Delaware
Application November 19, 1940, Serial No. 366,273
In Great Britain January 4, 1940
7 Claims. (Cl. 202—205)

1. A fractionating still adapted to fractionate by passage of the distilling vapors through lagging located intermediate the vapor source and the condenser whereby reflux passes through the lagging in a direction approximately counter to that of the vapors, said still comprising a rotatable conical vaporizing surface, means for heating the vaporizing surface, means for introducing distilland onto the inside of the conical surface at a point near its smallest diameter, means for removing undistilled residue from the conical surface at a point near its largest diameter, a condenser located within the cone, means for cooling the condenser, means for re-



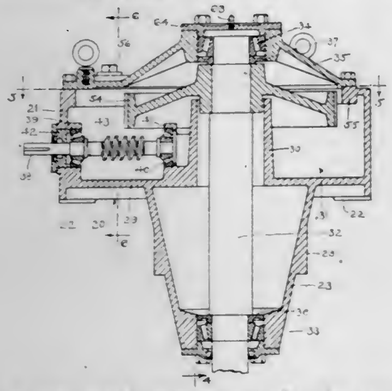
moving condensate from the condenser, lagging located intermediate the vaporizing surface and the condenser and rotatably mounted so that during rotation thereof reflux collecting thereon is caused to flow by centrifugal force in a direction counter to that of the vapors passing through the lagging to the condenser.

2,313,547
LUGGAGE BAG
James N. Hinson, Waterloo, Iowa, assignor to The Hinson Manufacturing Company, Waterloo, Iowa, a corporation of Iowa
Application August 22, 1940, Serial No. 353,678
1 Claim. (Cl. 190—43)



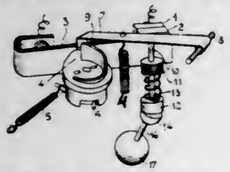
In a luggage bag, in combination, an inwardly troughed apertured medial member, pairs of longitudinally spaced pairs of transverse looped arms hinged thereto at opposite sides, inwardly channeled casings mounted upon the outer parts of the arms longitudinally, the casings being of unequal widths with the narrower casing arcuate inwardly and the other casing flat transversely and wider than the first casing with their opposite end parts inturned relative to each other, a flexible separably connected casing mounted about the outer faces of said members, a flexible sectional inner cover flap, having one end secured to the wider casing member, and means for releasably connecting the free end and side parts of the flap to the looped side arms, whereby when the looped arms are closed together, the outer end part of the narrower casing is seated within and closing the inner hollowed face of the wider casing part.

2,313,548
GEAR SPEED REDUCER AND THE LIKE
Frederick H. Hoge, Oak Park, Ill.
Application April 1, 1942, Serial No. 437,105
9 Claims. (Cl. 74—421)



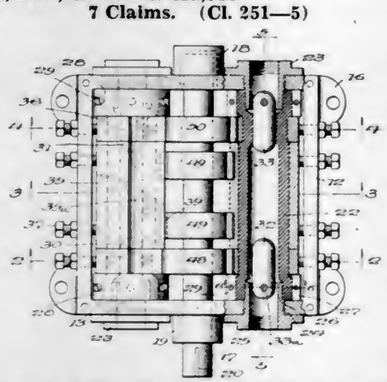
1. A gear speed reducer unit for the purpose described, comprising in combination a rectangular box-like housing having a floor and also having a central downwardly extending tapered well, and also having an upwardly extending flange reaching upwardly in said rectangular housing portion around the position of the well, a high speed shaft extending horizontally into the rectangular housing portion radially with respect to the vertical axis of the well, suitable bearings for said high speed shaft adjacent to the outer wall of the housing and also adjacent to the upwardly extending flange aforesaid, a vertical intermediate shaft within the rectangular housing portion and located in one corner portion of said housing portion, a worm on the high speed shaft, a worm gear on the intermediate shaft meshing with said worm, a low speed shaft extending vertically through the well and the housing to a position above the level of the flange aforesaid, a low speed gear on said shaft above said flange, said low speed gear being dished downwardly to bring its toothed peripheral portion to a level below the upper edge of the flange, and a pinion on the intermediate shaft meshing with said peripheral portion of the low speed gear, substantially as described.

2,313,549
SAFETY SWITCH
François Hornain, Arras, France; vested in the Alien Property Custodian
Application May 31, 1938, Serial No. 211,060
In France June 1, 1937
4 Claims. (Cl. 200—52)



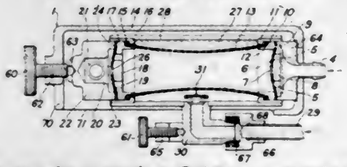
1. A safety switch comprising a resilient contact, a rockable spring-operated cam keeping said contact in its closed position having on its top face a central bore, diametrally opposite notches and a helical cam, a locking lever with a nose engaging the end of the helical cam, a key-barrel with a centering extension engaging said central bore, tenons engaging said notches with play and a recess in said barrel engaged by the nose of said locking lever, shiftable spring-returned means for disengaging said locking lever, and a pendulum for actuating said shiftable means.

2,313,550
VALVE STRUCTURE
Charles J. Huber, West Chester, Pa., assignor, by mesne assignments, to Cleaver Brooks Company, Milwaukee, Wis.
Original application January 8, 1941, Serial No. 373,693. Divided and this application November 18, 1941, Serial No. 419,644
7 Claims. (Cl. 251—5)



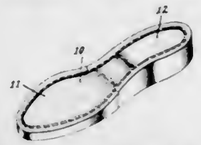
1. In a valve, the combination of a tube of resilient, compressible material, a body within said tube having a cross-sectional shape conforming generally to that of the opening in said tube and a cross-sectional area less than that of the opening in said tube, and means for intermittently compressing said tube toward the periphery of said body comprising a plurality of members spaced about said tube and slidable toward and from the tube and means for intermittently sliding said members inwardly toward said body.

2,313,551
METERING PUMP
John Hurlbut, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application September 23, 1941, Serial No. 411,967
4 Claims. (Cl. 103—44)



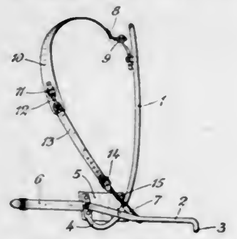
1. For use in pumping fluids, a pumping element comprising a support, spaced ends on the support, said support including a semi-cylindrical wall extending from one end to the other and having an opening extending approximately the full distance between the spaced ends thereof, a flexible tubular diaphragm, a pair of apertured circular diaphragms, a plurality of annular nested members adapted through frictional contact to support said diaphragms in a fixed position inside of the semi-cylindrical support, an apertured valve plate adjacent each apertured circular diaphragm positioned to form with the diaphragm a one-way valve, one valve to admit fluid to the flexible tubular diaphragm and the other valve to pass fluid from the flexible tubular diaphragm, one spaced end of the support forming an abutment, a single setscrew having a threaded connection with the other spaced end and positioned axially thereof, said setscrew being adapted to clamp said diaphragms and annular nested members frictionally in an operative position when said setscrew is tightened, the opening extending between the ends and the semi-cylindrical wall being of a size to remove or assemble said diaphragms and annular nested members by releasing or tightening the single setscrew whereby said parts may be readily assembled and disassembled for cleaning.

2,313,552
METHOD FOR PREPARING PADS FOR SHOES
George S. Iliff, Pasadena, Calif., assignor to Joyce, Inc., Pasadena, Calif., a corporation of California
Original application March 21, 1941, Serial No. 384,442. Divided and this application March 6, 1942, Serial No. 433,565
6 Claims. (Cl. 12—146)



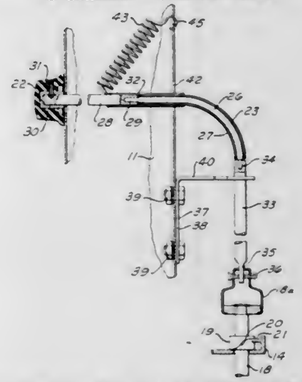
1. The method of preparing pads for shoes which comprises: cementing an edge covering of flexible sheet material to the upper and lower faces of a preformed cushioning or filler element, roughening the exposed surfaces of the covering material overlying the said upper and lower surfaces of the cushioning or filler element to prepare the said exposed surfaces for a subsequent cementing operation, and stitching through the said covering material and the cushioning element or filler.

2,313,553
CARRYING FIXTURE
Rolf Hjorth Johansen, Oslo, Norway; vested in the Alien Property Custodian
Application March 8, 1939, Serial No. 260,643
In Norway April 22, 1938
4 Claims. (Cl. 224—11)



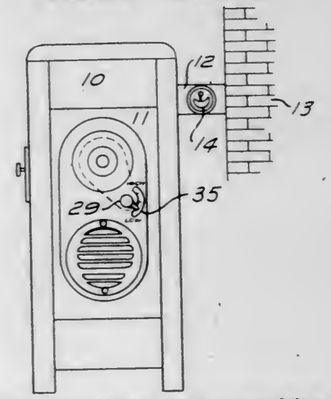
2. A carrying fixture comprising a frame, a waist belt fixed to the lower portion of the frame, carrying straps the upper ends of which are secured to the upper end of said frame, a guide member at the lower end of the frame, a flexible member slidable with respect to the guide member and having its respective ends connected to the lower ends of the adjacent carrying straps whereby vertical movement of either strap is transmitted to the other.

2,313,554
FUEL CONTROL FOR OIL BURNERS
Don F. Jones, Lansing, Mich., assignor to Motor Wheel Corporation, Lansing, Mich., a corporation of Michigan
Application January 18, 1940, Serial No. 314,429
3 Claims. (Cl. 74—504)



1. Mechanism for transmitting rotary motion from a driving member to a driven member having non-aligned axes through a support interposed between said members, which comprises two spaced apart rigid rods adapted to be connected at their ends remote from each other to the respective members, a flexible shaft connected at its ends to the adjacent ends of the rods, a rigid shroud substantially coextensive with and surrounding the flexible shaft, means for maintaining one of said rods and the adjacent end of the shroud in alignment, and resilient means engaging said mechanism and said supporting means for biasing both of said rods both axially and radially.

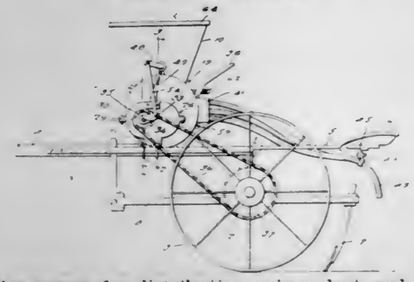
2,313,555
AIR CIRCULATOR
Don F. Jones and John W. Miller, Lansing, Mich., assignors to Motor Wheel Corporation, Lansing, Mich., a corporation of Michigan
Application January 4, 1941, Serial No. 373,080
6 Claims. (Cl. 98—33)



1. An air circulating unit comprising an air duct having a wall formed to provide an air inlet opening, a plate pivotally mounted on the wall and adapted to be swung to a position to overlie said inlet opening, a shaft extending through said wall which has one end secured to

the plate on one side of the wall and the other end provided with an adjusting handle on the other side of the wall whereby to rotate the plate about the axis of the shaft as a pivot, and a compressed spring positioned between and frictionally engaging the plate and the wall whereby to hold the plate in the position to which it is rotated by the shaft.

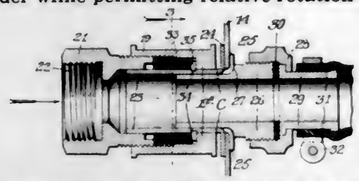
2,313,556
POISON POWDER DISTRIBUTOR
Louis E. Koepsel and Willie G. Koehler, McQuenney, Tex.
Application June 23, 1941, Serial No. 399,350
1 Claim. (Cl. 43—148)



Apparatus for distributing poison dust and the like adapted to be mounted on a wheel supported frame and comprising a gravity feed hopper, a suction chamber below said hopper for receiving material discharged therefrom and having one side open to the outside atmosphere for admitting air thereto, a fan casing on the opposite side of said chamber communicating therewith, a combined suction and blower fan in said casing operative to draw material from said chamber into said casing and to simultaneously draw outside air through said chamber and into the casing, a plurality of discharge lines leading from said casing and for attachment to the rear of said vehicle, means to operate said fan adapted for driving by one of said wheels, a supply control slide at the bottom of the hopper for controlling discharge therefrom, operating means for said slide including a member settable to variably predetermine the maximum discharge from said hopper, vibratory agitators in said hopper, and operating connections between said operating means and agitators, said operating connections comprising a rock shaft, said agitators comprising a pair of arms depending from said shaft and having vertically spaced right angled ends, and a second pair of arms upstanding from said shaft and staggered relative to the pair first mentioned longitudinally of the shaft.

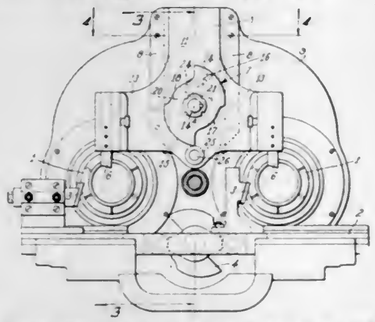
2,313,557
HOSE REEL
Otto Krenke, Port Huron, Mich., assignor to Anker-Holth Manufacturing Company, Inc., Port Huron, Mich., a corporation of Michigan
Application October 5, 1940, Serial No. 359,970
2 Claims. (Cl. 299—78)

1. A coupler adapted for use with a rotatable hose drum, comprising a cylindrical journal having an annular groove in the intermediate portion of its outer periphery, a fitting pressed within said journal and providing a tight friction fit therewith, said fitting being formed for connection with the end of a hose carried by said drum, a pair of members including a stuffing box member and an attachment fitting received about said journal, said members being threadedly engaged and providing a stuffing box rotatable about said journal and a depending shoulder at the forward end of said stuffing box, stuffing within said stuffing box, a locking ring received within said groove and extending upwardly with one face thereof abutting said shoulder and the other face abutting said stuffing to hold the journal against axial movement relative to said shoulder while permitting relative rotation there-



of, a plurality of radially-disposed fingers integral with said journal and extending laterally outwardly from one end of said journal, a group of said fingers being spaced longitudinally from the remainder of said plurality of said fingers, the longitudinally-spaced groups of fingers being adapted to receive therebetween a wall of the hose drum in interlocking relation, and means for securing the end of a hose to said attachment fitting.

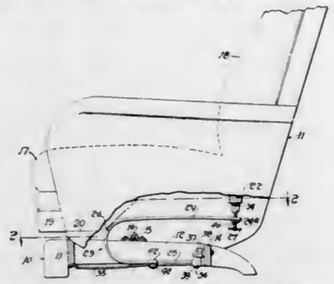
2,313,558
MACHINE TOOL
Raymond L. Kuehn, Hartford, Conn., assignor to The Billings & Spencer Company, a corporation of Connecticut
Application July 14, 1941, Serial No. 402,305
11 Claims. (Cl. 164—34)



1. In a machine tool, a tool carrying slide, followers thereon longitudinally spaced adjacent one end of said slide, operating means for said slide comprising cams rotatable about a common axis between said followers and each having surfaces engaging a different follower, and tools carried on opposite sides of said end of said slide and on opposite sides of said cams.

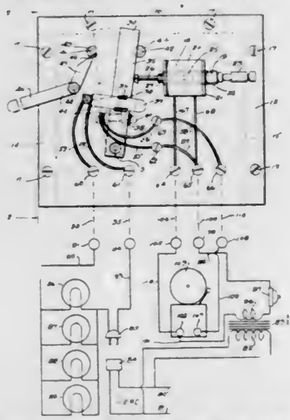
2,313,559
CHAIR
Lewis Larsen and Elof P. Klar, Menominee, Mich., assignors to Heywood-Wakefield Company, Gardner, Mass., a corporation of Massachusetts
Application June 28, 1940, Serial No. 342,926
9 Claims. (Cl. 155—54)

1. A chair embodying therein a base and a seat supporting means mounted thereon for a backward and forward rocking movement, said base including a forwardly and rearwardly extending member which is capable of a longitudinal flexing, a spring-like element arranged between said base and said seat supporting means for cushioning said rocking movement, said element including upper and lower legs extending forwardly and rearwardly of the chair and being operatively connected together at one end,



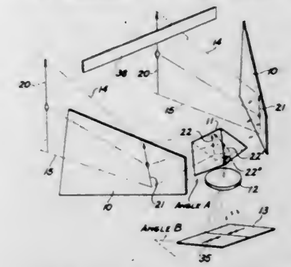
said lower leg having supporting engagement upon and being operatively connected to said forwardly and rearwardly extending member, and means operatively connecting the other end of said upper leg of said spring-like element to said seat supporting means.

2,313,560
VISIBLE BELL CALL DEVICE
Lawrence J. Levine, Brooklyn, N. Y.
Application April 6, 1940, Serial No. 328,260
2 Claims. (Cl. 177—339)



1. In a visible bell call system: a first circuit including a first source of electrical energy, a visible indicating device, and a first switch; a second circuit including a second source of electrical energy, a push button switch and an electromagnetic means; a third circuit, including an audible signalling device and a second switch and running from one side of said second source of electrical energy through said audible signalling device and second switch, to the side of the push button switch away from said second source of electrical energy; and means to move the said first and second switches to closed position thereof when the electromagnetic means is energized by the closing of the push button switch; whereby the electromagnetic means is first connected to the second source of electrical energy and then after the means to move the first and second switches has been acted upon, the circuit to the audible signalling device is completed through the second switch and the push button switch.

2,313,561
STEREOSCOPIC SYSTEM
Pompey Mainardi and Marcus N. Mainardi, Paterson, N. J.
Application May 22, 1941, Serial No. 394,677
12 Claims. (Cl. 88—16.6)



1. An optical system for projecting from or taking stereoscopic pictures adjacent to one another and oppositiaxially oriented on a film which system comprises an objective lens, means for holding the film in the back image plane of said lens, two intersecting reflecting surfaces positioned in front of the lens to receive respectively two light beams crossing at the lens, the line of intersection being at an appreciable acute angle between 5° and 25° to the principal planes of the lens and two reflectors positioned respectively in the line of the beams reflected from said surfaces and oriented to rotate the beams oppositely through 90° and to reflect them into stereoscopic coincidence at the front focus of the lens.

2,313,562
STEREOSCOPE
Pompey Mainardi and Marcus N. Mainardi, Paterson, N. J.
Application May 22, 1941, Serial No. 394,678
6 Claims. (Cl. 88—29)



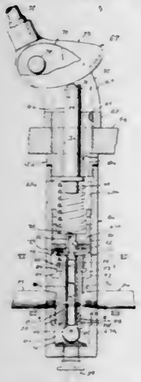
1. A device for viewing stereoscopic pictures adjacent to one another and oppositiaxially oriented on a film comprising a housing having a front window, two oculars mounted in the top wall of the housing and separated by the interocular distance, means for holding the film symmetrically in the front window with the line of division between the pictures approximately vertical, a first reflector behind each half of the window to reflect a light beam passing through the window outward to the side and a second reflector below each ocular to receive the beam and reflect it upward to the ocular, the mirrors being oriented to rotate the beams oppositely through 90° whereby oppositiaxially images on the film plane appear similarly oriented in the oculars.

2,313,563
FINGER SPONGE DEVICE
Nick Mandalou, New York, N. Y., assignor of one-half to Leo S. Sacharoff, New York, N. Y.
Application August 13, 1940, Serial No. 352,400
3 Claims. (Cl. 15—244)



1. In a sponge pad, pieces of finger sponge characterized by a core, soft tissues extending radially from the core, thereby providing an outer soft surface on the sides of the sponge pieces, and means securing a plurality of said sponge pieces together, the side surfaces of said sponge pieces being exposed at the surface of the pad.

2,313,564
FLUID CONTROL VALVE
Fred G. Manly, Chicago, Ill.
Application January 16, 1941, Serial No. 374,607
1 Claim. (Cl. 50—23)



A valve for delivering fluid at a selected constant pressure comprising a housing having an intermediate wall defining an inlet chamber and an outlet chamber, said wall having an opening therethrough for placing said chambers in fluid communication, one end of said opening being enlarged and internally threaded, a hollow bushing threaded partially into said enlarged portion of the opening and having its mouth formed as a valve seat, a valve actuator slidable in said wall opening and cooperating therewith to provide a fluid flow passage between the chambers, stop means carried by said valve actuator and extending into the enlarged portion of said wall opening between the end of the enlarged portion and the bushing partially threaded therein to limit sliding movement of said actuator, a spring biased ball in the inlet chamber normally urged against the valve seat on said bushing adjacent one end of said actuator, a ball in the outlet chamber carried by the other end of said actuator, and means including a valve seat cooperating with said ball in the outlet chamber for exerting a predetermined pressure through said actuator against the ball in said inlet chamber for placing said chambers in fluid communication, said ball in the inlet chamber closing said fluid communication between the chambers when fluid pressure in the outlet chamber balances the predetermined pressure exerted by said means.

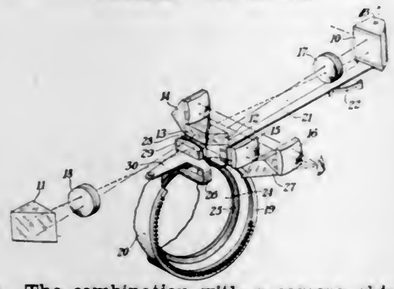
2,313,565
RESIN AND ITS PREPARATION
Wendell H. McDowell and William O. Kenyon, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application October 31, 1939, Serial No. 302,208
4 Claims. (Cl. 260—78)

1. A method of preparing a resin which comprises reacting, in an inert organic solvent, upon a synthetic resin containing as an essential ingredient thereof an organic acid anhydride of an $\alpha\,\beta$-unsaturated dicarboxylic acid with a base selected from the group consisting of ammonia and the amines at a temperature of approximately room temperature to approximately 75° C., precipitating in a dilute aqueous mineral acid and subsequently treating the product formed with acetic anhydride.

2,313,566
MANUFACTURE OF GLASS PLATES
Rob Roy McGregor, Swissvale, Pa., assignor to Norbert S. Garbisch, Butler, Pa.
No Drawing. Application November 29, 1939, Serial No. 306,694
7 Claims. (Cl. 49—77)

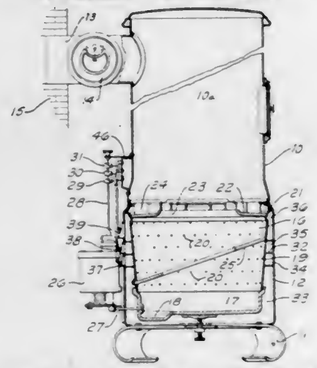
1. In the process of manufacturing ground and polished glass plates in which the plates are formed from molten glass and then passed successively under grinding runners supplied with a slurry of sand as an abrasive, the steps which comprise employing glass batch sand initially substantially free of iron compounds in forming the slurry, performing the desired surfacing operation upon the plates to form a slurry, comprising as its main ingredients very finely divided silica, 10 to 30 per cent of glass and about 1 to 2.5 per cent of iron, the iron being added by the grinding operation, removing said iron from the slurry while the slurry is fresh, then removing at least the major portion of the water from the slurry, incorporating the resultant mixture of silica and glass with the alkali and alkali earth fluxes of the glass batch and melting the mixture to replenish the supply of glass for forming additional glass plates.

2,313,567
RANGE AND DEPTH OF FIELD FINDERS FOR CAMERAS
Joseph Mihalyi, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application July 24, 1940, Serial No. 347,190
4 Claims. (Cl. 95—44)



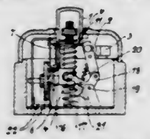
4. The combination with a camera objective having an adjustable diaphragm and a part movable for focusing the objective, of two range finders having certain of their optical elements in common and each having a viewing window and optical means for directing a split image of the same field of view through said viewing window, means coupled to the said focusing part for altering the setting of both range finders and means coupled to the adjustable diaphragm for altering the setting of only one of the range finders.

2,313,568
COMBUSTION APPARATUS
John W. Miller, Lansing, Mich., assignor to Motor Wheel Corporation, Lansing, Mich., a corporation of Michigan
Application December 6, 1939, Serial No. 307,734
10 Claims. (Cl. 158—91)



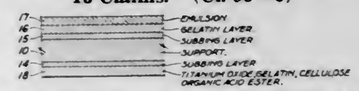
1. Combustion apparatus comprising a burner of the vaporizing pot type having a plurality of vertically and horizontally spaced apart air inlet openings in the side wall thereof, a plurality of separate air compartments surrounding the burner in sealed engagement with the side wall, each compartment being in communication with some of said air inlet openings and being arranged one above another, each of said compartments having an aperture therein for the admission of air thereto, a valve in the aperture in each of the upper compartments only for regulating the air admitted therethrough, means for delivering liquid fuel to the burner in regulatable quantities, and means operatively connected to said fuel delivering means for successively opening said valves in order from the lowermost to the uppermost valve and for closing the same in the reverse order as the quantity of fuel delivered to the burner is respectively increased or decreased.

2,313,569
ELECTRIC TIMESWITCH
Niels Munthesen, Copenhagen, Denmark; vested in the Alien Property Custodian
Application April 17, 1940, Serial No. 330,072
In Denmark May 4, 1939
6 Claims. (Cl. 200—35)



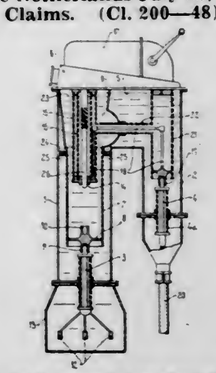
1. An electric time switch having coupling means serving to interrupt cooperation of an escapement controlling the duration of closure of said switch, with a resiliently depressible push button during depression of the latter in order to close said switch, said coupling means including a drum rigid with a drive shaft of said escapement by which to drive the latter, a coupling member comprising a one way clutch member capable of engaging with said drum in one direction of rotation and running free in the other direction, connecting means for communicating partial rotation to said clutch member in the one direction in which it runs free during depression of said push button, and return means for returning said push button and said clutch, said one way clutch member comprising a spring coiled about the drum with one end free and the other end engaged by the connecting means.

2,313,570
PHOTOGRAPHIC LAYER CAPABLE OF RECEIVING WRITING
Gale F. Nadeau and Henry R. Couch, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application September 25, 1940, Serial No. 358,274
13 Claims. (Cl. 95—8)



1. A sensitive photographic element designed to receive writing comprising, a support coated on both sides with a subbing layer of a material selected from the group consisting of gelatin and cellulose ester, a pigmented layer consisting of a mixture of an inorganic pigment, gelatin, and a cellulose compound over the subbing layer on one side of said support and on the opposite side a light sensitive emulsion layer adhesively joined to a subbing layer.

2,313,571
CIRCUIT BREAKER FOR HIGH VOLTAGE
Hendrik A. Hidde Nijland, Laren, Netherlands; vested in the Alien Property Custodian
Application July 7, 1939, Serial No. 283,273
In the Netherlands July 12, 1938
4 Claims. (Cl. 200—48)



2. A metal-clad circuit breaker for high voltage, comprising a fixed metal tank, an insulating fluid in said tank, insulators in the wall of said tank, fixed leading-in conductors extending into said tank, a contact make-and-break element comprising fixed switch contacts and a movable contact cooperating therewith, contact means connected both electrically conductively and mechanically rigidly to said fixed switch contacts, contact means provided at the ends of the leading-in conductors in said tank, the contact means connected to the fixed switch contacts and those provided at the leading-in conductors releasably engaging one another so as to permit the

contact make-and-break element to be entirely withdrawn from and inserted into the tank while the leading-in conductors are alive, and a casing of insulating material retractably accommodated in said tank and dividing the tank into a space in which the switching operation is carried out and a completely separate compartment into which the leading-in conductors enter, said casing being removable from said tank simultaneously with said make-and-break element, said compartment surrounding said casing of insulating material and providing between the latter and said metal tank sufficient insulating fluid to withstand the potential difference between live parts and the metal tank, whereby special auxiliary insulating switches are rendered superfluous.

2,313,572
FISH LURE
Robert E. Nungesser, Washington, D. C.
Application January 6, 1942, Serial No. 425,789
6 Claims. (Cl. 43—45)



1. A fish lure comprising a pair of individual lure elements of concavo-convex form and of similar shape, one of said elements having larger dimensions than the other, a detachable connection for fastening the elements together whereby the same may be adjusted to various lengths, and a fish hook having its barbed end extending through one of said lure elements and its opposite end anchored to the detachable connection.

2,313,573
CAPILLARY ACTIVE COMPOUNDS AND PROCESS OF PREPARING THEM
Ludwig Orthner, Carl Platz and Hans Keller, Frankfort-on-the-Main, and Heinz Sönke, Bad Soden in Taunus, Germany; assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application January 14, 1939, Serial No. 250,925. In Germany January 17, 1938
4 Claims. (Cl. 260—534)

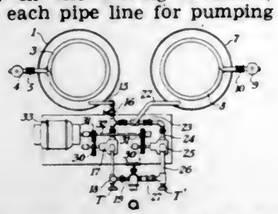
4. The compounds of the following formula:

$$R{-}N{-}R_1$$
$$|$$
$$COCH_2OCH_2COOH$$

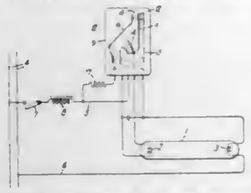
wherein R is an alkyl radical selected from the class consisting of hexyl, iso-hexyl, ethyl-hexyl, octyl, dodecyl, octodecyl, and R_1 is an alkyl radical selected from the class consisting of hexyl, isohexyl, ethylhexyl, octyl, butyl, dodecyl and octodecyl.

2,313,574
APPARATUS FOR AND METHOD OF CONTINUOUSLY COOKING STARCH
Charles F. Payne, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application January 13, 1940, Serial No. 313,730
6 Claims. (Cl. 127—28)

1. In a starch cooker the combination with a tank for a starch and water mixture, of a tank for hot water, means for accurately controlling the temperatures of the starch mixture and hot water in these tanks, a mixing chamber, pipe lines leading from each tank to the mixing chamber, means for intermixing the starch mixture and hot water in the mixing chamber, metering pumps on each pipe line for pumping predetermined quantities of starch and hot water simultaneously into the mixing chamber to continuously cook the starch.

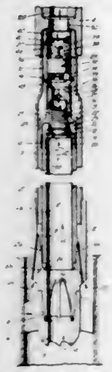


2,313,575
ELECTRIC DISCHARGE APPARATUS
Leo R. Peters, East Cleveland, Ohio, assignor to General Electric Company, a corporation of New York
Application January 27, 1941, Serial No. 376,087
7 Claims. (Cl. 176—124)



1. In electric discharge apparatus comprising an electric discharge device connected to be operated from a source of alternating current supply and provided with thermionic electrodes, a resistance heater in said connection, a heat responsive time delay switch in thermal relation therewith and connected between said electrodes to control the flow of heating current therethrough, and means comprising a member arranged to cooperate with said switch and operative during the operation of said device to reduce the heating of said switch in response to a determined opening movement thereof.

2,313,576
CORE DRILLING DEVICE
Ralph A. Phillips, Hawthorne, and Mortimer L. Clopton, Glendale, Calif.
Application May 6, 1940, Serial No. 333,548
6 Claims. (Cl. 255—72)



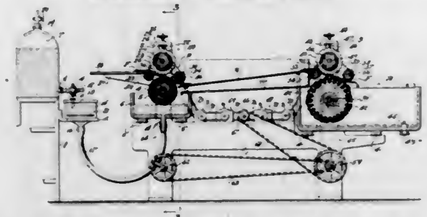
1. In a core drilling device including a tubular working barrel having means for attachment to a string of drill pipe and carrying a coring bit, the combination of: a tubular core receiving barrel so disposed within said working barrel as to define an annular fluid passage between said barrels, said core barrel having an opening near its upper end establishing a fluid interconnection between the interior of said core barrel and said passage, whereby fluid supplied through said drill string will be simultaneously passed through said passage and said core barrel; valve means for closing said opening to prevent passage of fluid through the interior of said core barrel; spring means normally urging said valve toward a closing position; releasable restraining means for holding said valve in an open position; means responsive to flow of fluid in said drill string for releasing said restraining means; and means operable independently of flow of fluid in said drill string for delaying the actual closing of said valve for a predetermined time after release of said restraining means.

2,313,577
SHOE
John H. Plant, Aurora, Ill.
Application August 29, 1941, Serial No. 408,903
1 Claim. (Cl. 36—45)



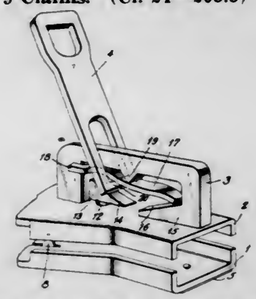
A shoe comprising an upper vertically slit in the rear thereof from the heel up, a slide fastener for connecting the edge portions of the upper adjacent said slit, and a pair of separate counter members on opposite sides of the heel, respectively, providing a space between the rear edges thereof for the insertion of a foot forwardly in the shoe, said counters being skived along their rear and bottom edges to reduce the thickness of said edges above the sole and provide for easy flexing of the counters when the foot is inserted forwardly therebetween.

2,313,578
APPARATUS FOR TREATING FUR
Robert H. Plass, Upper Montclair, N. J., assignor to The Chapal Donner Corporation, Newark, N. J., a corporation of New Jersey
Application February 27, 1941, Serial No. 380,833
9 Claims. (Cl. 149—27.5)



1. In a machine for treating fur of pelts or skins, a rotary applicator brush roll, a treating solution containing trough into which said applicator brush roll dips, rotary means cooperative with said applicator brush roll for arcuately conforming portions of a pelt or skin to the peripheral contour of said applicator brush roll while propelling the pelt or skin over the same and pressing the fur of the pelt or skin into the bristles thereof, a rotary brushing-out brush roll beyond said applicator brush roll, a catch-basin cooperative with said brushing-out brush roll, and rotary means cooperative with said brushing-out roll for arcuately conforming portions of a pelt or skin to the peripheral contour of said brushing-out brush roll while propelling the pelt or skin over the same and pressing the fur of the pelt or skin into the bristles thereof.

2,313,579
SLIDING CLASP FASTENER
Vojtěch Puc, Prague, Czechoslovakia; vested in the Alien Property Custodian
Application May 15, 1940, Serial No. 335,344
In Czechoslovakia May 18, 1938
9 Claims. (Cl. 24—205.5)



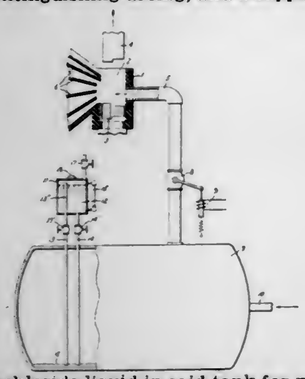
1. A slider for a slide fastener of the type which includes a pair of stringers having rows of spaced interlocking elements along their longitudinal edges, comprising an upper plate and a lower plate spaced to receive the interlocking elements of the stringers, a leaf spring secured to the lower plate and arranged at the lower surface thereof, locking teeth united with the spring and extending upwardly into the space between the plates to engage said interlocking elements, an upwardly and downwardly movable pin extending through the plates and engaging the spring for forcing said teeth downwardly when the pin is depressed, a fixed bow member arranged on the upper plate and forming an elongated recess, a head fixed to the upper end of the pin, said head and a portion of the bow being provided with oppositely inclined cam surfaces, a lever arranged in the recess above said cam surfaces and rockable about a horizontal axis arranged about midway the length of the lever, and a pull member having a portion extending beneath the lever and slidable lengthwise thereof and engageable with either of said cam surfaces whereby when the pull member is pulled in one direction said portion thereof will be wedged between the cam surface of the bow and one end of the lever to rock the latter and cause the other end of the lever to engage and depress the head and the pin, and when pulled in the opposite direction will wedge between the last-mentioned end of the lever and the cam surface of the head to depress the pin.

4. A slider as claimed in claim 1, in which the lever is bifurcated at one end to receive a portion of one end of the bow.

2,313,580
GAS BLAST ELECTRIC CIRCUIT BREAKER
William K. Rankin, deceased, late of Lansdowne, Pa., by Jessie M. Rankin, executrix, Lansdowne, Pa., assignor to General Electric Company, a corporation of New York
Application May 14, 1942, Serial No. 442,928
3 Claims. (Cl. 200—148)

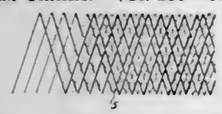
1. A gas blast circuit breaker comprising rela-

tively movable contacts separable to form an arc gap, a storage tank containing air under pressure, blast control means interconnecting said tank and arc gap for directing a gas blast through said gap for extinguishing arcing, and a supply of car-



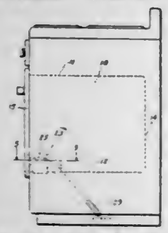
bon tetrachloride liquid in said tank for permeating the air therein with carbon tetrachloride vapor prior to operation of the gas blast whereby the dielectric strength of said gas blast is materially increased.

2,313,581
WIRE FABRIC
William Edgar Reed, Pittsburgh, Pa.
Original application August 1, 1938, Serial No. 222,411. Divided and this application February 27, 1940, Serial No. 321,038
12 Claims. (Cl. 189—82)



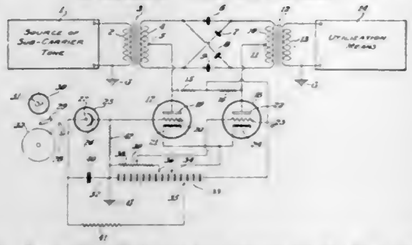
4. A fabric comprising a group of continuous laterally-spaced strands arranged in a plurality of lays or folds on diagonal lines relative to the fabric width, each lay or fold partially overlying a preceding parallel lay or fold of the group, the wires in each of said parallel folds being offset from the wires in the other parallel folds, in directions longitudinally of the fabric, and means for maintaining the wires in assembled relation.

2,313,582
DOOR STRUCTURE
Gregory L. Rees, La Grange Park, Ill., assignor to Edison General Electric Appliance Company, Inc., Chicago, Ill., a corporation of New York
Application March 4, 1941, Serial No. 381,693.
8 Claims. (Cl. 126—194)



1. In a door structure having a door movable between at least two positions, a counter-balance for the door comprising a link attached to the door so as to be moved with it, a fulcrum, said link having one edge moving upon said fulcrum as the door is moved to said positions, biasing means attached to said link so as to resist its movement in one direction to resist the movement of the door to one of said positions, and said link being constructed with two spaced projecting surfaces on said edge to engage said fulcrum so as to yieldingly hold the door in each of said positions.

2,313,583
MODULATING SYSTEM
Hugh C. Ressler, West Brighton, N. Y., assignor to Faximile, Inc., New York, N. Y., a corporation of Delaware
Application September 14, 1940, Serial No. 356,751
5 Claims. (Cl. 179—171.5)



1. A modulating system comprising four rectifiers connected together in a closed loop each with its better conductivity in the same direction around the loop, a center-tapped circuit coupled to a source of signals to be modulated connected across one pair of diagonal points of said loop, a second center-tapped circuit coupled to a load circuit connected across the other pair of diagonal points of said loop, a pair of thermionic vacuum tubes each including at least a cathode, a control grid and a plate, independent load circuits connected to each of said plates, conductive connections between one of said plates and one of said center-taps and the other of said plates and the other of said center-taps, a source of modulating signals connected to one of said grids for modulating the signals applied to said loop, and a source of bias connected to the other of said grids for balancing a predetermined instantaneous value of the second said signal across said loop.

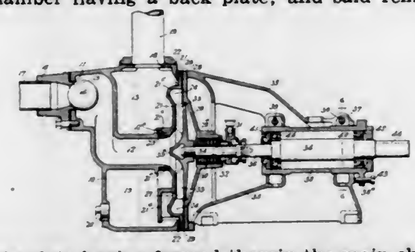
2,313,584
WIRE
Franklin B. Rinck, La Grange, and James W. Scott, Downers Grove, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application May 23, 1940, Serial No. 336,764
5 Claims. (Cl. 174—134)

1. A telephone transmission line comprising a current carrying conductor containing from .30% to .45% carbon, from .02% to .04% vanadium, from .20% to .35% copper, from .35% to .45% manganese, and the balance iron plus impurities, said conductor having a sufficiently high electrical conductivity so that the product of its direct current resistance per mile in ohms and its weight per mile in pounds is less than 5900.

2,313,585
SELF-PRIMING CENTRIFUGAL MINE PUMP
Herbert E. Rupp, Springfield Township, Richland County, Ohio
Application August 2, 1940, Serial No. 349,607
10 Claims. (Cl. 103—113)

4. In a self-priming centrifugal pump having

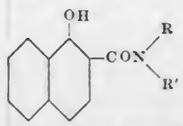
an impeller chamber and an air and liquid separating chamber into which the former discharges, a separable casing comprising a removable plate and casing parts between which it is clamped and with one of which it forms the impeller chamber while the other forms therewith the separating chamber, an impeller in said impeller chamber having a back plate; and said remov-



able plate having formed therein the main channel for liquid passing through the impeller chamber and around the impeller periphery into the separating chamber and having cut-off means at said periphery, one lateral wall only of such channel being formed in a plane perpendicular to the impeller axis and forming a continuation of the back plate of the impeller by the first mentioned complemental casing part.

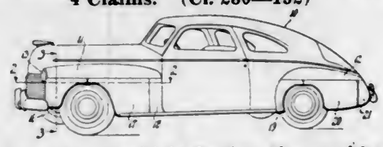
2,313,586
HYDROXYNAPHTHOIC ACID AMIDE COUPLER
Ilmari F. Salminen, Arnold Weissberger, and Dudley B. Glass, Rochester. N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application October 15, 1940, Serial No. 361,262. In Great Britain February 20, 1940
4 Claims. (Cl. 95—88)

1. A color forming photographic developer comprising a primary aromatic amino developing agent and a coupler compound having the formula:



where R is an aryl radical and R' is an aralkyl radical.

2,313,587
VEHICLE FENDER
Curt Saurer, Akron, Ohio
Application December 17, 1940, Serial No. 370,473
4 Claims. (Cl. 280—152)



1. In a motor vehicle fender, the combination of a crown portion consisting of a one-piece structure of rigid material positioned over a wheel of the vehicle, a structure of resilient material depending from the margin of said crown portion, said resilient structure comprising a longitudinal series of marginally abutting panels, and means reinforcing the margins of said panels.

2,313,588
PARASITICIDE COMPOSITION AND METHOD OF PRODUCING THE SAME
Frank J. Seibert and Louis C. Roller, Bound Brook, N. J., assignors to Chipman Chemical Company, Inc., Bound Brook, N. J., a corporation of New York
No Drawing. Application April 14, 1941, Serial No. 388,496
20 Claims. (Cl. 167—14)

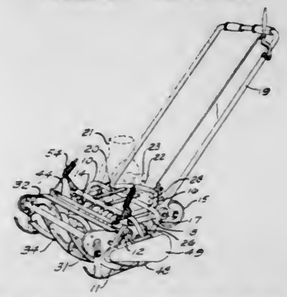
7. A composition of matter comprising an arsenite of a metal the sulfate of which is soluble, an arsenate of a metal the sulfate of which is soluble, and a sulfate of an alkaline earth metal the sulfate of which is insoluble, all co-precipitated as a composition of homogeneous and uniform particles.

2,313,589
PARASITICIDE COMPOSITION AND METHOD OF PRODUCING THE SAME
Frank J. Seibert and Louis C. Roller, Bound Brook, N. J., assignors to Chipman Chemical Company, Inc., Bound Brook, N. J., a corporation of New York
No Drawing. Application April 14, 1941, Serial No. 388,497
8 Claims. (Cl. 167—14)

1. A parasiticidal composition comprising an arsenate of a metal the sulfate of which is relatively water-soluble and the arsenate of which is water-insoluble, and a sulfate of an alkaline earth metal, the sulfate of which is insoluble, both co-precipitated as a composition of homogeneous and uniform particles.

6. A method of producing a parasiticidal composition of matter which comprises reacting copper sulfate, lime, and a pentavalent arsenic compound selected from the group consisting of arsenic oxide and acids, in an amount of water to form a slurry and in such proportions that the acid and alkaline constituents are substantially neutralized and substantially all of the copper is combined with the arsenic compound, whereby a copper arsenate is co-precipitated from said slurry with the calcium sulfate to form a composition the particles of which are uniform and homogeneous.
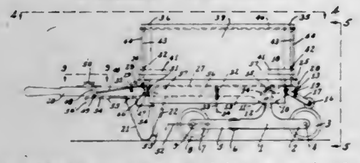
2,313,590
LAWN MOWER
Joseph S. Sherer, Jr. and Arthur J. Richards, Lansing, Mich., assignors to Ideal Power Lawn Mower Company, Lansing, Mich., a corporation of Michigan
Application May 26, 1941, Serial No. 395,164
7 Claims. (Cl. 56—26)



1. In a mower of the pusher type, the combination with a traction unit and a cutting unit of means for communicating forward movement

of the traction unit to the cutting unit consisting of a rigid frame interconnecting the two units, said frame having one end pivotally connected to the traction unit on a transverse axis for pivotal movement in either direction about said transverse axis, the cutting unit being pivotally connected to the other end of the frame on a transverse axis for pivotal movement relative to the frame in either direction about said last named transverse axis, whereby the cutting unit is free to move in either direction about both transverse axes.

2,313,591
SIDE DELIVERY WHEELBARROW
Samuel Slaughter, Richmond, Ind., assignor of one-half to Verlin T. Brown, Richmond, Ind.
Application August 12, 1942, Serial No. 454,622
8 Claims. (Cl. 298—2)



1. A wheelbarrow comprising a main frame, a wheel mounting on which the frame is supported, a body, a longitudinally extending rock shaft secured to the under side of the body and journaled in the frame, means permitting tilting of the body toward either side of the frame, a door hinged at each side of the body and adapted for opening movement by the tilting action of the body, and latch means for automatically securing the doors in closed position.

2,313,592
SAFETY PAPER AND PROCESS OF PREPARING THE SAME
Burgess W. Smith, Rochester, N. Y., assignor to The Todd Company, Inc., Rochester, N. Y., a corporation of New York
No Drawing. Application September 26, 1940, Serial No. 358,523
12 Claims. (Cl. 117—1)

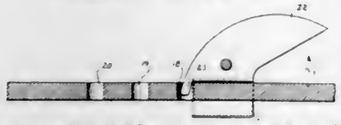
5. The process of preparing a safety paper which comprises incorporating in the paper a benzidine compound chosen from the group consisting of substituted benzidines, having negative substituents in the 3,3' positions, and salts thereof.

2,313,593
TRIPOD CARRYING CASE
Roland L. Smith, Belmont, Mass., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application October 15, 1940, Serial No. 361,228
2 Claims. (Cl. 224—5)



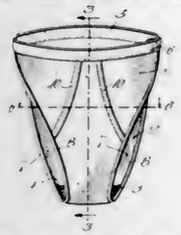
2. A carrying case for tripods comprising a tubular member of a length to receive a tripod with a screw for attaching a camera to the tripod projecting from the open end thereof, a carrying strap adapted to form a loop longer than the length of the tubular member, a closed bottom wall for the tripod case, a pivot carried by the closed bottom wall of the tripod case and passing through the carrying strap for attaching the strap to the bottom wall of the case and permitting pivotal movement of the case relative to the strap, oppositely disposed strap latch elements positioned near the open top of the tripod case spaced on opposite portions of the carrying case, strap latch elements carried by the strap spaced to engage the strap latch elements on the case when the strap is drawn about the outside walls of the case, whereby the latched strap may be used as a handle for carrying the case and the strap may also serve to support the tripod about the neck of a user when said strap latch elements are disengaged to support the case solely from the bottom thereof.

2,313,594
BAR HANGER
Clarence J. Smith, Mason City, Iowa, assignor of one-half to R. G. Thompson, Clear Lake, Iowa
Application February 6, 1942, Serial No. 429,842
2 Claims. (Cl. 248—228)



1. In an adjustable clamp member for bar hangers or the like having a plurality of spaced apart holes cut therein, an adjustable clamping element comprising, a sleeve element, ears on the upper side of said sleeve element, and a lug formed on said clamp elements capable of registering with any one of said holes in said bar hanger; said sleeve element being of such a size as to permit the disengagement of the lug from the holes when said sleeve is tilted.

2,313,595
UNDERGARMENT
Paul Snyder, Baltimore, Md.
Application January 2, 1941, Serial No. 372,919
3 Claims. (Cl. 2—224)

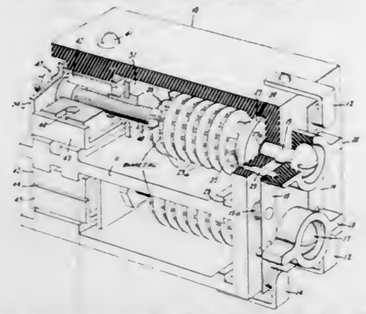


1. A garment comprising front and rear sections tapered downwardly and formed of knitted fabric having longitudinally extending ribs to permit transverse stretching of the sections, a crotch strip connecting lower ends of said sections and formed of knitted fabric having ribs extending transversely of the garment to permit stretching of the crotch strip longitudinally of said garment, bindings for side edges of the sections having transverse ribs permitting longitudinal stretching of the bindings and enlargement of leg openings defined by said sections, and a waist band of material secured along upper ends of the said sections, the upper ends of the front and rear sections having their side portions overlapped to close upper ends of said leg openings, and the said side edges of the said sections having their upper portions extending diagonally across each other and free to have shifting movement relative to each other whereby the leg openings are automatically adjusted to conform to the shape and movement of the leg of the wearer.

2,313,596
ASPHALT COMPOSITION
Stanley S. Sorem and Alvin P. Anderson, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application June 10, 1940, Serial No. 339,762
11 Claims. (Cl. 106—14)

1. As a new product an unemulsified asphalt composition capable of forming a durable bond with galvanized metal surfaces comprising an asphalt and an amount of a finely divided material chosen from the group consisting of zinc, zinc oxide, lead, lead oxide, lead hydroxide and aluminum hydroxide in excess of that required to neutralize asphaltic acids formed by oxidation of said asphalt to maintain the product noncorrosive for prolonged periods of time.

2,313,597
THERMAL OVERLOAD RELAY
Allen G. Stimson, Marblehead, Mass., assignor to General Electric Company, a corporation of New York
Application November 8, 1941, Serial No. 418,372
11 Claims. (Cl. 200—113)



1. A thermal overload device for an electric circuit comprising fixed and relatively movable contacts in normal engagement, thermosensitive actuating means arranged to disengage said contacts with a straight line motion upon the occurrence of a predetermined excessive current in said circuit, snap acting means including a permanent magnet and a keeper for retaining said movable contact in either a circuit closing or a circuit opening position, and means for maintaining the flux of said permanent magnet within predetermined limits regardless of the maximum displacement between said magnet and keeper.

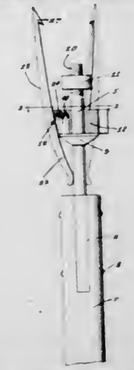
2,313,598
FURRIER'S KNIFE
Herman Stock, New York, N. Y.
Application July 25, 1941, Serial No. 403,973
2 Claims. (Cl. 30—331)

2. A knife for cutting fur or the like, for use with a section of a razor blade having a cutting edge, a diagonal front edge angularly disposed with relation to said cutting edge, a pin engaging slot, and a stud engaging indentation in a third edge, comprising: a holder for said blade section including a pair of holder elements having blade engaging portions adapted to enclose the upper portions of said razor blade section; each of said holder elements having a handle portion, said handle portions being pivotally interconnected for movement in substantially parallel planes, one of said holder elements having a blade engaging pin passable through said slot and a blade engaging headed stud under which the said indentation is insertable, the other hold-



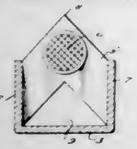
er element having an aperture to receive said headed stud; a finger rest locking member having at least a part thereof substantially U shape in transverse section, having holder element engaging members, said locking member being pivotally connected to and outwardly of one of said holder elements and movable into a position in which the holder element engaging members of the U shape portion straddle both holder elements to maintain them together, one of said holder element engaging members having a slot, said last mentioned slot engaging said stud between its head and the nearest holder element.

2,313,599
SEWER AND PIPE CLEANER
Frank Surges, Lombard, Ill.
Application September 11, 1940, Serial No. 356,383
1 Claim. (Cl. 15—104.30)



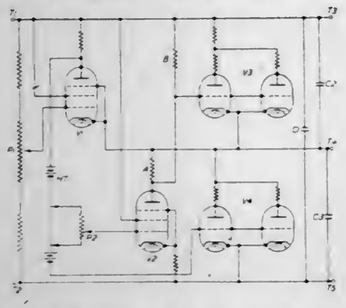
A pipe cleaner comprising a shank, a fixed stop on the shank, an adjustable stop carried by the shank adjacent its outer end and adapted to be spaced from the fixed stop, a tool carrier slidably mounted on the shank between the stops, said carrier having a plurality of longitudinally extending slots in the edge thereof, a plurality of elongated tools pivotally attached to the carrier in said slots and having barbed outer ends projecting beyond the shank and spring means also positioned in said slots and engaging the tools at a point outwardly of their pivotal connections for yieldably urging said outer ends of the tools apart, said fixed stop engaging the inner ends of the tools for moving the outer ends thereof toward each other upon an inward movement of the shank relative to the carrier, and said stops partly closing the slots at opposite sides of the carrier to retain the springs against accidental displacement.

2,313,600
TRAFFIC GUIDE
Frank A. Talty, Topeka, Kans.
Application October 28, 1941, Serial No. 416,893
4 Claims. (Cl. 94—1.5)



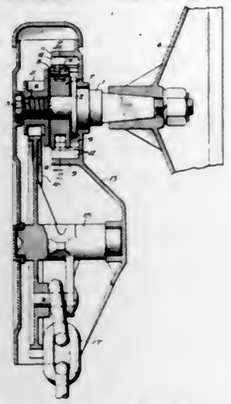
1. A traffic guide of the character described comprising a substantially channel-shaped member adapted to be mounted longitudinally on a highway, and a plurality of guard plates mounted transversely in said channel member at longitudinally spaced points, said plates including substantially triangular upper portions projecting above the channel member.

2,313,601
VOLTAGE DIVIDER
Victor John Terry and Thomas Frederick Stanley Hargreaves, London, England, assignors to International Standard Electric Corporation, New York, N. Y.
Application April 9, 1942, Serial No. 438,300
In Great Britain March 7, 1941
8 Claims. (Cl. 171—312)



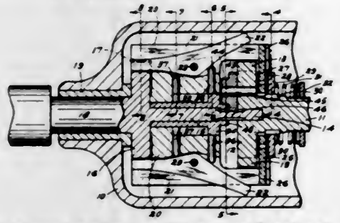
1. An arrangement for dividing a direct-current supply into halves of equal voltage and for maintaining the equality of said division independently of varying inequalities in the loads on the two halves, comprising; a potentiometer across the supply; an amplifying pentode having its control grid connected directly to an adjustable centre-tap on the potentiometer, its anode connected over a resistance to the positive supply line, and its cathode connected directly to the output centre-point; a phase-reversing pentode having its control grid directly connected to an adjustable point in the high-tension supply to the amplifying pentode, its anode connected over a resistance to the centre-point, and its cathode connected over a resistance to the negative supply line; a bank of one or more triodes having its control grid connected directly to the anode of the phase-reversing pentode, its anode connected over a resistance to the positive supply line, and its cathode connected directly to the centre point; and a bank of one or more triodes having its control grid connected directly to the negative end of the high-tension supply to the amplifying pentode, its anode connected over a resistance to the centre point, and its cathode connected directly to the negative supply line.

2,313,602
RAILWAY CAR HAND BRAKE
Edwin E. Van Cleave, Chicago, Ill.
Continuation of application Serial No. 352,256, August 12, 1940. This application May 8, 1941, Serial No. 392,960
3 Claims. (Cl. 74—505)



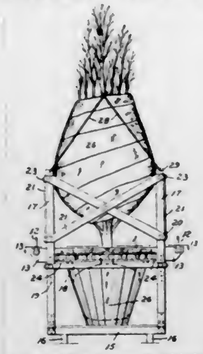
1. A railway car hand brake comprising, in combination, winding mechanism, and operating mechanism therefor comprising a pinion, a handwheel, shaft means connecting said pinion and handwheel and including a clamping member, a pawl carrier mounted between said pinion and said clamping member, said shaft means including means to effect clamping of said pawl carrier between said pinion and said clamping member upon relative rotation between said handwheel and said pinion, and a fixed ratchet surrounding said pawl carrier, said pawl carrier comprising a disk provided with a peripheral groove, pawl means pivotally mounted in said groove for movement outwardly thereof, and spring means tending to cause said pawl means to move outwardly.

2,313,603
NUT SETTER
Paul Van Sittert, Shaker Heights, and Andrew J. Lev, Garfield Heights, Ohio, assignors to The Cleveland Pneumatic Tool Company, Cleveland, Ohio, a corporation of Ohio
Application December 12, 1941, Serial No. 422,711
4 Claims. (Cl. 192—30.5)



2. In a nut setter, a driver, a flywheel, a driven member, means for clutching together the driver and flywheel or the driven member and flywheel alternately, cam means for shifting said clutching means from one operative position to the other, gearing connections operated by relative rotation of the driver and driven member for rotating said cam means relatively to said flywheel at spaced instants and locking the cam means and flywheel against relative rotation during the interval between said instants.

2,313,604
TREE REMOVING AND TRANSPLANTING APPARATUS
Joseph A. Vogel, Wilmington, Del.
Application April 29, 1941, Serial No. 391,005
14 Claims. (Cl. 47—37)

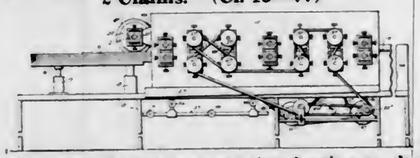


1. A tree excavating and lifting device comprising an annular plate like lifting head formed of radially divided sections adapted to be coupled together for use about a tree and uncoupled for removal from the tree, said head having an annular series of openings therein for the passage of ground piercing members and being provided with supporting arms projecting outwardly beyond the periphery of the head.

2,313,605
TREATMENT OF N-MONOMETHYL-P-AMINOPHENOL
Thomas Elliott Wannamaker, Orangeburg, S. C., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application March 18, 1939, Serial No. 262,787
12 Claims. (Cl. 260—574)

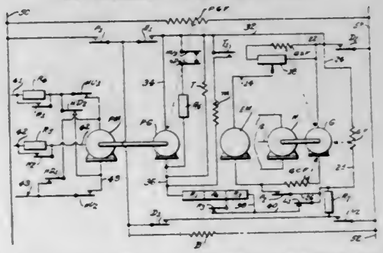
1. In a process for preparing N-monomethyl-p-aminophenol, the steps which comprise converting an N-monomethyl-p-aminophenol to its sulfate in admixture with water and alkali metal sulphate, cooling the mixture to a temperature from about 32° C.–40° C. whereby separation of aminophenol sulphate crystals is obtained.

2,313,606
SLAT CLEANER
Venard C. Webb and Alva P. Sparks, Denver, Colo.
Application October 5, 1940, Serial No. 359,824
2 Claims. (Cl. 15—77)



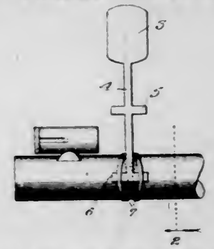
1. In slat-cleaning apparatus having a closed, elongated housing, a feed aperture transversely and centrally of one end of said housing, a discharge aperture transversely and centrally of the other end of said housing in alignment longitudinally of said housing with said feed aperture, a plurality of partitions spaced transversely of said housing to form separate, successive compartments therein, and apertures in said partitions aligned with said feed and discharge apertures to form a passage longitudinally through the compartments of said housing, paired feed rollers in said compartments of said housing arranged to frictionally engage and feed slat elements through said compartments and the apertures in said partitions, a friction roll supported for rotation on and exteriorly of the feed end of said housing with its lower margin tangent to the passage through said housing, means for supporting stacked slats with their upper elements yieldably engaging against the lower margin of said friction roll, and means for rotating said feed rollers and said friction roll at a common peripheral speed and in a direction to feed slat elements through said housing.

2,313,607
VARIABLE VOLTAGE ELEVATOR CONTROL
Kenneth M. White, Louisville, Ky., assignor to American Elevator & Machine Company, Louisville, Ky., a corporation of Kentucky
Application November 24, 1941, Serial No. 420,272
13 Claims. (Cl. 172—152)



13. A control for an elevator having an elevator motor, a main motor-generator set to supply power for the elevator motor and series and shunt field windings for the generator; said control comprising a pilot motor-generator set, a field winding for said pilot generator connected in circuit with the elevator motor, means to apply voltage generated by the pilot generator across said shunt field, whereby the shunt field is subjected to a voltage which is proportional to the speed of the pilot generator and the main generator current and thereby augment the generator voltage regulation function of said series field.

2,313,608
WIND INDICATOR FOR RIFLE SHOOTING
Russell Wiles, Chicago, Ill., assignor to Russell Wiles, Jr., Chicago, Ill.
Application August 30, 1939, Serial No. 292,728
4 Claims. (Cl. 42—1)



4. A visual wind indicator for use with a rifle, said indicator including a flat readily flexible member and means at one end of said member for securing the member to the barrel adjacent the front sight thereon, said means forming the sole support for the member and being so shaped as to hold the member substantially perpendicular

to the axis of the gun barrel and with a flat side in a plane substantially parallel to the axis of the gun barrel.

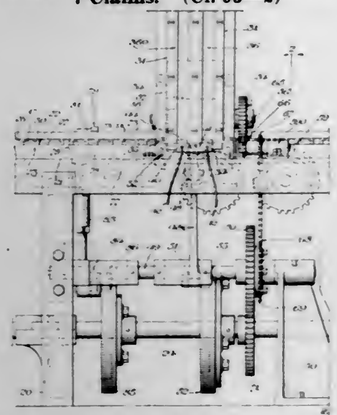
2,313,609

COVER FEEDING, SCORING, AND FOLDING MEANS FOR MATCH BOOKING MACHINES

Charles F. Wright, Akron, Ohio, assignor to The Diamond Match Company, New York, N. Y., a corporation of Delaware

Application December 19, 1941, Serial No. 423,582

7 Claims. (Cl. 93—2)



1. In a match booking machine, the combination with an intermittently movable carrier having a succession of holders for receiving and transporting book elements, of means for introducing flat covers in said holders with the leading end of each cover projecting beyond a holder, stationary bearings adjacent the path of said carrier, a bending element mounted in said bearings for intermittent rotation across the path of the projecting ends of the covers borne by the carrier, and means for actuating said bending element in timed relation to the carrier whereby the movements of said bending element alternate with the movements of the carrier, said bending element comprising a wheel having spaced peripheral members of substantial length extending longitudinally of the carrier, each succeeding member in a movement of the wheel, while the carrier is at rest, bending the opposing projecting end of a cover angularly to the body of the cover, and in the succeeding rest of the wheel maintaining such angular end temporarily in that position coincidentally with a movement of the carrier.

2,313,610

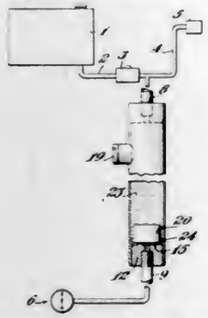
PRESSURE TRANSMITTER

Joseph W. Yowell, Stratford, Conn., assignor to Manning, Maxwell & Moore, Incorporated, New York, N. Y., a corporation of New Jersey

Application May 27, 1941, Serial No. 395,471

2 Claims. (Cl. 73—31)

1. In combination in a system comprising a source of inflammable fluid under pressure, a device for indicating the pressure of said fluid and a pressure transmitter interposed between said source and the indicating device, the pressure transmitter comprising a vertically elongate cylindrical shell consisting of a length of tubing screw threaded at its opposite ends, top and bottom closures having threaded engagement with the opposite ends of said length of tubing, the upper closure having an axial bore whose outer portion is designed to receive one end of a pipe leading from the source of inflammable fluid, the lower closure also having an axial bore whose outer portion is designed for the reception of one end of a pipe leading to the pressure indicating device, the upper surface of the lower closure having an annular, upstanding rib coaxial with the bore in said lower closure, the upper surface of said rib constituting an elevated valve seat, said seat being of such external diameter as to provide an annular fluid trap between it and the wall of the shell, the upper end of the shell, when in use, being normally filled with the inflammable fluid, the remainder of the shell, when the device is in use, being normally filled by a body of non-inflammable fluid which is immiscible with the inflammable fluid and which normally directly contacts the inflammable fluid, the non-inflammable fluid being of greater specific gravity than the inflammable fluid, the inner portion of the



bore in the upper closure being of a diameter so small that, if the transmitter be inverted, the surface tension of the fluid of greater specific gravity will prevent flow of the latter outwardly from the interior of the shell through said bore, and a buoyant valve device of lesser external diameter than the internal diameter of the shell, said valve device being of such buoyancy as to float upon the heavier fluid substantially at the surface of contact of the two fluids, and being freely movable in response to variations in the level of the surface of contact of the two fluids, and being operative, in response to an abnormal drop in level of the surface of contact, to rest upon the annular seat and thereby close the passage leading to the gauge, the annular trap surrounding the valve seat being operative to retain a body of the heavier fluid thereby to provide a seal at the point where the valve engages the seat.

2,313,611

PROCESS OF SULPHURIZATION

William L. Abramowitz, Lakewood, and Ralph M. Beach, Newark, N. J., assignors to National Oil Products Company, Harrison, N. J., a corporation of New Jersey

No Drawing. Application February 10, 1940, Serial No. 318,384

14 Claims. (Cl. 260—125)

1. A process for sulphurizing organic substances, which comprises reacting a normally liquid sulphur halide with ammonia in the presence of an organic substance having a melting point below the boiling point of the sulphur halide employed.

2,313,612

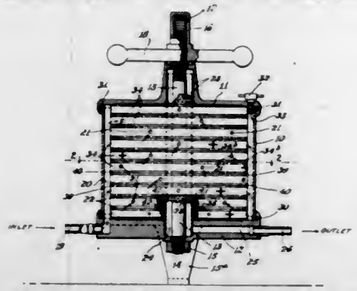
FILTER

Samuel Alsop, Milldale, Conn.

Application October 24, 1939, Serial No. 300,918

5 Claims. (Cl. 210—179)

1. A filter comprising a casing having top and bottom plates and having an inlet and an outlet, a central perforated tube communicating with the outlet, a filter stack mounted on said perforated tube and comprising a number of coaxial plates, each of said plates having an inner ring and an outer ring with spaces above and below each plate between the inner and outer rings thereof, each outer ring having passages communicating with the spaces above and below said plate, a pair of annular filtering pads ar-



ranged between each of two adjacent plates and having the inner and outer edges of the pads clamped between the rings thereof, a spacing member having horizontal passages arranged between each of two pads of a pair permitting liquid to pass through the pads to the central perforated tube, and means extending through said tubular member for drawing said top and bottom plates toward each other and compressing the parts of the stack together.

2,313,613

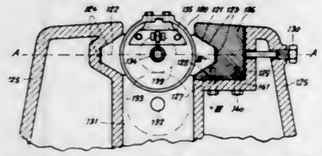
LATHE

Philippe Boillat, Tavannes, Switzerland, assignor to the firm Tavannes Machines Co. S. A., Tavannes, Switzerland, a joint-stock company of Switzerland

Application October 24, 1940, Serial No. 362,662

In Great Britain October 30, 1939

2 Claims. (Cl. 82—28)



1. In a lathe comprising a frame, a headstock, a headstock spindle, a driving shaft for said headstock spindle, V-shaped guides provided on the sides of said headstock, a guide member mounted on said frame with allowance for sliding in a direction across said headstock, guide channels with V-shaped cross section on said frame and on said guide member, adapted to directly engage said V-shaped guides, said V-shaped guides and said V-shaped guide channels being arranged in such a manner as to provide sufficient space in said frame immediately beneath said headstock to accommodate said driving shaft.

2,313,614

FIRE HOSE NOZZLE

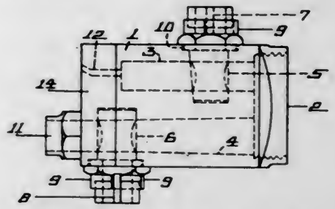
Percy Richard Boothman, Keighley, England

Application January 2, 1942, Serial No. 425,477

In Great Britain October 10, 1940

1 Claim. (Cl. 299—144)

A fire hose nozzle having in combination a nozzle body provided with two longitudinally spaced passages communicating at the inlet end with a common hose coupling connection, one of the said passages at its discharge end terminating in a jet nozzle and the other passage terminating in a narrow elongated spray nozzle diverging upwardly from the longitudinal axis of the spray passage, the spray passage being po-



sitioned above the jet passage so that when fluid issues from both passages, the jet nozzle throws out a straight jet that strikes the fire first and the spray nozzle throws out a fan shaped spray that covers the flame so as to ensure a double supply of water being applied to the fire, and independently operable valves for controlling the flow of the supply through each of said passages.

2,313,615

TITANIUM SOLUTION MANUFACTURE

L'Roche G. Bousquet, Baldwin, and David W. Young, Flushing, N. Y., assignors to General Chemical Company, New York, N. Y., a corporation of New York

No Drawing. Application March 29, 1940, Serial No. 326,674

7 Claims. (Cl. 23—117)

1. The method for making crystalloidal liquid titanium salt solution of predetermined acidity factor which comprises reacting an initial crystalloidal titanium salt solution, having an acidity factor higher than said predetermined factor, with material of the group consisting of metallic sodium and metallic potassium in amount equivalent to that needed to reduce acidity to said predetermined factor, and maintaining temperature of the reacting mass during said treatment at not more than 60° C.

2,313,616

RIVET

Joseph Wallace Bowersox, Glen Ellyn, Ill.

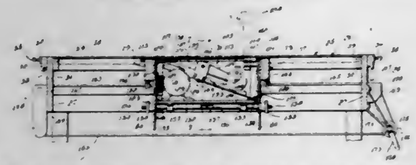
Original application January 22, 1937, Serial No. 121,740. Divided and this application December 22, 1939, Serial No. 310,488

3 Claims. (Cl. 85—40)



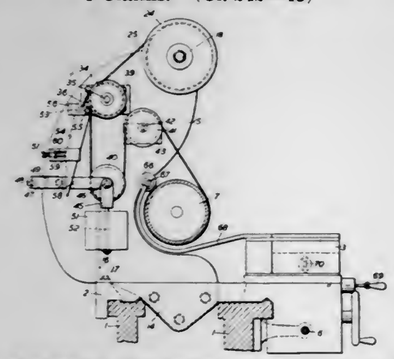
1. A rivet comprising, in combination, a head, and a plurality of laterally spaced wires constituting prongs secured to said head, each wire being bent outwardly at one longitudinal point and inwardly at another longitudinal point to define lines of bend when said rivet is placed under longitudinal compression, said prongs being resilient and adapted to spread and contract upon insertion of a shouldered awl used for creating such longitudinal compression.

2,313,617
SAW BENCH
Overton Bray, Burley, Idaho, assignor of one-half to O. M. Mitchell, Rupert, Idaho
Application June 26, 1941, Serial No. 399,893
6 Claims. (Cl. 143—47)



4. A saw bench cradle adapted to slidably engage a saw bench, said cradle including end walls, rods slidably mounted in said end walls, a frame having upstanding corner posts, said corner posts having sleeves at their upper ends for loosely engaging portions of said rods, a plate pivotally connected to one end of said frame, a circular saw supported by said plate and mounted thereabove, a motor supported by the plate for driving the saw, means for raising and lowering the free end of said plate for raising and lowering said saw relatively to the cradle, said rods being selectively movable for releasing either side of the frame to permit the frame to swing transversely of the cradle for tilting the saw transversely of the cradle, and means carried by the frame for engaging said ends walls for holding the frame in various tilted positions.

2,313,618
WINDING APPARATUS
Walter Bridges, Chelsea, London, England
Application September 15, 1941, Serial No. 410,934
In Great Britain April 7, 1941
9 Claims. (Cl. 242—45)

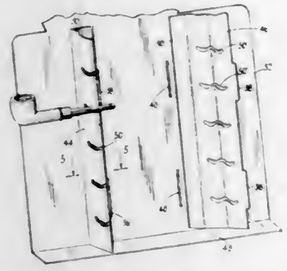


1. Apparatus for winding a filament on to a body, comprising a spool, a length of filament wound thereon, said spool mounted on a spindle, means for retarding the rotation of the spool to produce a drag action, a brake drum around which the filament is wound in its passage from the spool to the body to be wound, a jockey pulley from which is suspended a weight, said filament passing under the pulley in its passage from the drum to the body, said pulley carried by a pivoted arm, a second pivoted arm to part of which one end of the band of the brake drum is anchored, said second arm contacting with a part on the first arm, an adjustable spring for urging the second arm into contact with the first arm so that if the filament tension varies the second arm is actuated to vary the braking effort exerted by the band to restore equilibrium and maintain the filament tension substantially constant, means for rotating the body and means for imparting relative traverse between filament and body in the direction of the body axis.

2,313,619
CHROME YELLOW
Harry E. Bruce, York, Pa.
No Drawing. Application December 23, 1941, Serial No. 424,193
12 Claims. (Cl. 106—298)

1. The step in the process of producing a pigment having a yellow color which consists in reacting a metal sulfamate with a chromium compound, the metal being taken from the group bismuth, antimony, tin, cadmium, lead and zinc, and the chromium compound being taken from the group chromic acid, potassium dichromate and sodium dichromate.

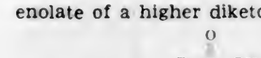
2,313,620
DISPLAY STAND FOR TOBACCO PIPES
Otto Brunner, Jackson Heights, N. Y., assignor to Henry Leonard & Thomas, Inc., Ozone Park, N. Y., a corporation of New York
Application October 23, 1941, Serial No. 416,192
3 Claims. (Cl. 211—60)



2. A display card for tobacco pipes, each having a stem with a flattened bit end, said display card comprising a main board made of cardboard or the like, an easel in back of said main board for holding the same in nearly upright position but arranged to fold flat against the back of the board when not in use, and a support column projecting from the front of said main board, said support column being made of cardboard or the like, and having transverse open-ended slots cut therein from the front rearwardly toward the main board, each of said slots being concavo-convex when viewed in profile, with the convex side on bottom and the concave side on top, and each having a width somewhat less than the thickness of the flattened bit end of the pipes and being thereby dimensioned to frictionally receive the bit end of the stem of a pipe and to thereby hold the pipe collaterally in front of the main board, said support column being arranged to fold flat against the front of the main board when not in use.

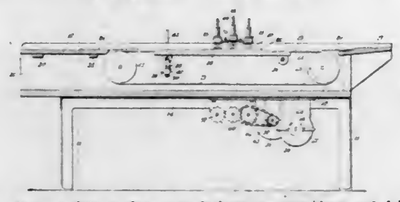
2,313,621
CAPILLARY-ACTIVE COMPOSITION
Herman A. Bruson, Philadelphia, Pa., assignor to Röhm & Haas Company, Philadelphia, Pa.
No Drawing. Application June 14, 1939, Serial No. 279,059
6 Claims. (Cl. 252—352)

4. A wetting, cleansing, dispersing, and emulsifying composition comprising an alkali metal enolate of a higher diketone having the formula



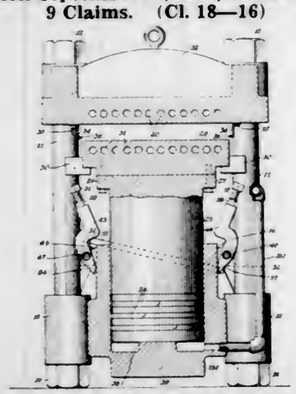
wherein R and R′ represent organic radicals selected from the group consisting of cycloaliphatic, arylaliphatic, alkylated aromatic, and aliphatic radicals, at least one of which possesses a minimum of six carbon atoms and both of which are devoid of polar groups, dissolved in a solvent therefor.

2,313,622
APPARATUS FOR BLACK-LEADING ELECTROTYPE MOLDS
George W. Bungay, New York, N. Y.
Application September 27, 1940, Serial No. 358,740
10 Claims. (Cl. 91—7.5)



1. A machine for applying a coating of black lead or the like to a sheet material, comprising conveyer means to feed said material past a treating station, brush means at said station positioned to engage the surface of said material, said brush means comprising a brush extending across said conveyer means with bristles extending downwardly to contact said surface, a pair of rods carrying opposite ends of said brush and extending downwardly on opposite sides of said conveyer means, and eccentric means actuating said rods to cause said brush to reciprocate vertically for tamping said black lead into said surface as the sheet material is fed along by said conveyer means.

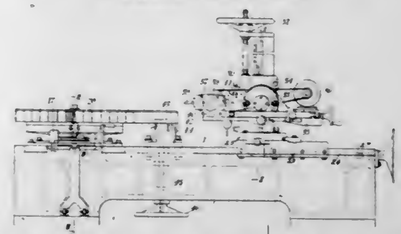
2,313,623
PRESS FOR MAKING ELECTROTYPE MOLDS
George W. Bungay, New York, N. Y.
Application September 27, 1940, Serial No. 358,741
9 Claims. (Cl. 18—16)



4. A press for molding an electrotype mold on a type form or the like, comprising a stationary head mounted on pedestal bolts, a movable platen adapted to cooperate with said head for applying molding pressure to said mold, guides on said platen bearing against said pedestal bolts to guide said platen as it is raised and lowered, a ram carrying said platen and having a peripheral flange, stop means comprising arms adapted to engage beneath said flange for holding said platen in an intermediate position above its fully retracted position, a stationary support comprising brackets out of alignment with the path of said platen and registering with the top surface thereof when in said intermediate position to guide and support said type form or the like prior to molding, said arms being interconnected and pivoted for simultaneous movement out of the path of said flange for releasing said platen and allowing the same to assume its fully retracted position out of contact with the type form supported on said brackets.

7. A press for molding an electrotype mold on a type form or the like, comprising a stationary head, a movable platen adapted to cooperate therewith, and hydraulic means to actuate said platen comprising a fluid pressure cylinder, a piston in said cylinder connected to actuate said platen, a line supplying fluid under pressure to said cylinder for actuating said piston, a control valve to control a supply of fluid from said line to said cylinder, a fluid reservoir, a low pressure pump connected to receive fluid from said reservoir and to supply said fluid through a check valve to said line, a return line connected between the high pressure side of said pump and said reservoir, a pressure-relief valve in said return line to limit the pressure of said pump, a high pressure pump connected to receive fluid from the high pressure side of said first pump and to supply fluid at a higher pressure to said line, a return line connected between the high pressure side of said high pressure pump and said reservoir, and an adjustable pressure-regulating valve connected in said last return line to limit the pressure built up by said high pressure pump, whereby the system may be pre-set to supply a predetermined high pressure to said line and, when the control valve is actuated to supply fluid to said cylinder, fluid is first supplied from said low pressure pump through said check valve to said line for initiating the operation of said piston and to cause the piston to be elevated rapidly to molding position, and whereby after the pressure has been built up to a point sufficient to close said check valve the high pressure pump thereafter builds up the predetermined high pressure in said line for molding.

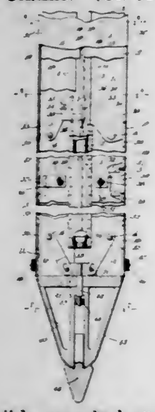
2,313,624
DRILLING AND BORING MACHINE
Alec Charles Clayton, Yate, Bristol, England
Application March 26, 1941, Serial No. 385,339
In Great Britain December 13, 1939
2 Claims. (Cl. 77—1)



1. A drilling or boring machine including in combination a frame, a horizontal turntable mounted on the frame adjacent one end and adapted to support a workpiece, a vertically disposed pillar head mounted on the other end of the frame for longitudinal and transverse move-

ment with respect to the turntable, said pillar head including a swivel element in which a cutting tool may be mounted, and means whereby the swivel element may be advanced towards and retracted from and may be moved vertically in a horizontal direction and inclined in any angular relationship with respect to the workpiece.

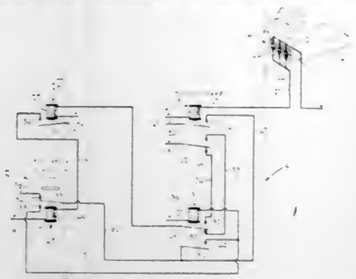
2,313,625
COLLAPSIBLE MANDREL OR CORE FOR DRIVING MOLDS FOR CONCRETE PILES
Walter H. Cobi, New York, N. Y.
Application November 10, 1939, Serial No. 303,826
18 Claims. (Cl. 61—79)



1. An expansible mandrel or core for insertion in a metal shell to receive hammer blows for driving the shell into the ground, which comprises an expansible container for fluid under pressure, a flexible metal wrapper contiguous said container when expanded and adapted when the container is collapsed to be out of contact with a large portion of the container outer surface, substantially rigid frame members for receiving hammer thrusts and transmitting them to said shell, said frame members being at least in part contiguous said wrapper and adapted to be moved radially outward by said wrapper into contact with said shell, and elastic means cooperating with adjacent frame members for drawing said members radially inward away from said shell on collapse of said container and wrapper, and a tension connection between each pair of adjacent frame members for limiting the full expansion of said wrapper and preventing the application of substantial transverse tension to said shell.

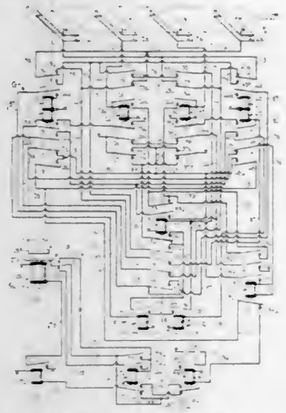
2,313,626
SWITCH ACTUATION RECORDING SYSTEM
Benjamin Cooper, Jersey City, N. J.
Application February 21, 1940, Serial No. 320,021
3 Claims. (Cl. 234—12.5)

1. In combination with a switch, a time delay relay, and a recording instrument having an electromagnet, a circuit for said switch and relay to operate the time delay relay when said switch has been actuated for longer than a predetermined period of time, means to operate the electromagnet when the time delay relay is actuated, to operate said instrument, means to deenergize the electromagnet after the latter has been energized, means to de-energize the time delay relay when said switch returns to normal position, means to operate the electromagnet a second time when said time delay relay returns to normal condition, to again operate said instrument, and means to de-energize the electro-



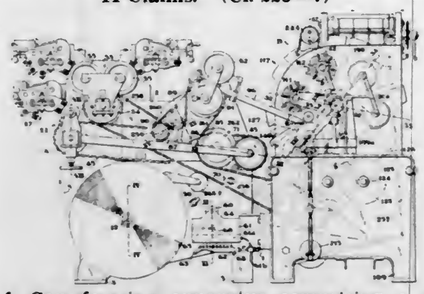
magnet after the latter has become energized a second time.

2,313,627
TREADLE CONTROLLED TOLL CHECKING SYSTEM
Benjamin Cooper, Jersey City, N. J.
Application May 17, 1940, Serial No. 335,717
20 Claims. (Cl. 234—36.5)



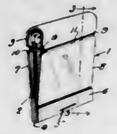
9. In combination with a set of more than two switches adapted to be actuated in sequential order, a pair of impulse registering devices, a circuit interconnecting said switches with said registering devices, including means for actuating one of said devices by the sequential operation of all of said switches and concurrent operation of adjacent switches in one direction, and for actuating the other of said devices by the sequential operation of all of said switches and the concurrent operation of adjacent switches in the reverse direction, said circuit including means to prevent actuating of said devices when one of the outside switches of said set is first bridged and maintained bridged, and then any of the switches other than the outside switches is thereafter bridged and maintained bridged, before and during the sequential actuation of all the switches of said set, signal means to indicate when any of the switches other than the outside switches are bridged and held bridged after an outside switch has been bridged and held bridged, means to record the time when said signal means has begun operating, and means to render the signal means inoperative when the switches other than the outside switches of said set which have been bridged and held bridged, are restored to initial condition.

2,313,628
PAPER CAP-FORMING MACHINE
Edmund J. De Villers, Columbus, Ohio, assignor to White Castle System, Inc., Columbus, Ohio, a corporation of Delaware
Application December 28, 1940, Serial No. 372,150
11 Claims. (Cl. 223—7)



1. Cap forming apparatus comprising a rotatable turret having a plurality of mold chambers circumferentially spaced thereon, a drum journaled adjacent to said turret for registration with said chambers upon rotation of said turret, means for feeding strips of sheet material to said drum to be coiled thereon, strip folding means spaced circumferentially relative to said turret and registering with said chambers when said turret is rotated, power operated driving means, a Geneva type motion transmitting device connecting said driving means and turret and intermittently rotating the latter to successively register the mold chambers with said drum and folding means, and a second Geneva type motion transmitting device connecting said drum and driving means whereby said drum will be intermittently rotated, said motion transmitting devices being set to operate simultaneously.

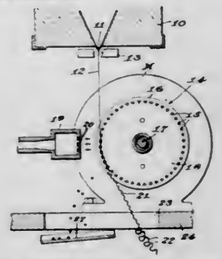
2,313,629
SELF-CLOSING MATCH BOOK
Joseph M. Dirienzo, Madison, Wis.
Application May 17, 1940, Serial No. 335,738
1 Claim. (Cl. 206—29)



A self-closing match book comprising: a match comb, a one-piece cover for said match comb, said cover having front and back sections, said back section being folded around the bottom of said match comb to provide an upwardly extending flap carrying abrasive material thereon, the upper portion of said back section being folded around the top of said match comb to provide a shortened cover section which just meets the upwardly extending abrasive carrying flap, and resilient means to urge the front of said cover towards said match comb, all substantially as described.

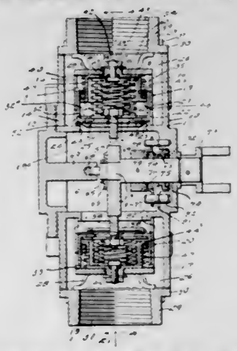
2,313,630
METHOD AND APPARATUS FOR PRODUCING GLASS FIBERS
Stuart M. Dockerty, Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation, a corporation of Delaware
Application September 12, 1939, Serial No. 294,487
21 Claims. (Cl. 49—1)

10. In an apparatus of the character described, a crimping drum against which a stream of molten glass is adapted to be pressed to produce a crimped glass fiber, said drum comprising spaced end plates, and an annular series of crimping bars extending between the end plates in parallel relationship, means for rotating said drum, and means for creating a differential air pressure between the inside and outside of said drum at a localized area stationary relative to the drum to force fibers against said drum and thereby be attenuated.



13. The method of producing crimped fibrous glass which comprises flowing streams of molten glass into tangential contact with an annular slotted surface moving rotatively at high speed, simultaneously directing a blast of air against said streams in a direction to force the same against said surface and into the slots thereof to attenuate the streams into fibers of substantially wavy configuration, projecting the fibers while still hot from their forming operation in the general direction of their length away from said annular surface, and causing a deceleration of the lengthwise moving fibers at a rate sufficient to cause the undulations thereof to pile up on each other and increase their magnitude.

2,313,631
BALANCED VALVE ASSEMBLY
George T. Downey, Corry, Pa., assignor to Aero Supply Mfg. Co. Inc., Corry, Pa.
Application February 9, 1942, Serial No. 430,143
8 Claims. (Cl. 251—132)



1. In combination a valve housing, a seat at one end of said housing, a coupling element at the other end of said housing, and a valve assembly in said housing, said assembly comprising an outer cylindrical cage member having an open inner end engageable about said seat and also having a closed outer end, said cage member having intake openings therethrough adjacent said seat, a plurality of yieldable fingers carried by the outer end of said cage member engaging against said element to hold said cage member about said seat, a spring-pressed valve member

slidable in said cage member, means slidably sealing said valve member in said cage member, said valve member opening inwardly of said housing whereby fluid pressure in said housing will provide a counterbalancing means on opposite sides of said valve member.

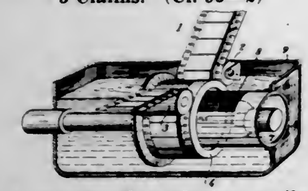
2,313,632

PRODUCTION OF COLOR FILM HAVING A SILVER SOUND TRACK

John Eggert, Leipzig, and Hans Friedrich Nissen, Dessau, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

Original application November 26, 1937, Serial No. 176,668. Divided and this application October 19, 1940, Serial No. 361,864

3 Claims. (Cl. 95—2)



1. In a process of producing a silver sound track in color sound film comprising silver halide in which the color images are produced by color development, wherein color formers are reacted with an aromatic color developer, the improvement which comprises exposing said film to produce latent picture and sound images, developing said images and at least said latent picture images by color development, removing the silver formed during development without fixation of silver halide, re-exposing residual silver halide of the sound area only, developing the latent sound images so produced in a black and white developer and fixing to remove any residual silver halide.

2,313,633

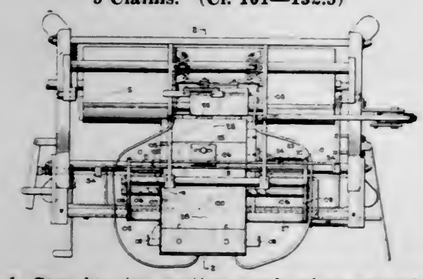
MECHANISM FOR PRODUCING STEP BY STEP MOTION

Frank Ronald Ford, Sparkbrook, Birmingham, England

Application December 11, 1941, Serial No. 422,500

In Great Britain July 23, 1941

5 Claims. (Cl. 101—132.5)



1. Step by step motion mechanism comprising a pair of rack bars, each bar having a pair of primary cam slots, a pair of fixed pins, each engaging two primary cam slots one in each rack bar, said slots being arranged with their cam portions normally engaged by the pins and at opposite ends of the slots, each bar being formed with a secondary cam surface, a pin on each rack bar and projecting laterally therefrom and engaging the secondary cam surface of the other rack bar, a member to which the step by step motion is to be imparted by the teeth of the rack bars, abutments on said member for engagement one by the teeth of each rack bar, and means acting on the rack bars tending to pull the cam portions of the primary cam slots into engagement with the fixed pins, whereby the teeth of the rack bars are normally out of engagement with the abutments, but endwise movement applied to either rack bar brings one of its teeth into engagement with the abutment and so produces a movement of the member to be moved, and also brings a tooth of the other rack bar into a position in which it cooperates with the abutment to limit such movement.

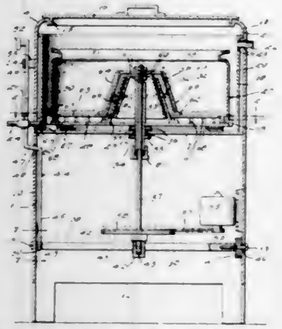
2,313,634

WASHING MACHINE

Elbridge W. Forney, Canton, Ohio

Application October 30, 1941, Serial No. 417,200

5 Claims. (Cl. 68—23)



1. A washing machine comprising a casing, a chamber disposed in and spaced from the wall of the casing, a tub loosely disposed in the chamber, means for revolving the tub, said tub being provided with a side wall having openings adjacent the bottom thereof, vanes projecting outwardly from said wall so that when the tub is revolved, water contained in the tub, will be forced outwardly through said openings, said chamber having a wall provided with an opening through which the water is pumped by the vanes into the space between the casing and chamber, and a valve for closing said last mentioned opening for holding the water stored in said space.

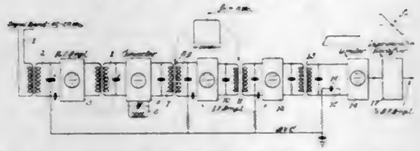
2,313,635

REDUCTION OF SPURIOUS RESPONSES IN RADIO RECEPTION

Dudley E. Foster, South Orange, N. J., and John A. Rankin, Port Washington, N. Y., assignors to Radio Corporation of America, a corporation of Delaware

Application December 7, 1940, Serial No. 369,040

3 Claims. (Cl. 250—20)



1. In a superheterodyne type receiver, in combination, a radio frequency amplifier tunable over a desired frequency band, a tunable local oscillator, a converter, a fixedly tuned intermediate frequency amplifier having at least one tuned selector circuit, automatic gain control means for controlling the radio frequency amplifier, said latter amplifier having a relatively low gain, means providing relatively high selectivity to said converter, said intermediate frequency selector circuit being tuned to an operating frequency exceeding in value the extent of the radio frequency tunable range, thereby reducing to a minimum the spurious responses caused by combination of harmonics of signals within said tunable range with harmonics of the local oscillator.

2,313,636

FRACTIONATION OF FREE FATTY ACIDS

Stephen E. Freeman, Wauwatosa, Wis., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania

No Drawing. Original application January 17, 1939, Serial No. 251,340. Divided and this application May 13, 1940, Serial No. 335,001

4 Claims. (Cl. 260—419)

1. A process of separating mixtures of saturated and unsaturated fatty acids into a plurality of fractions, one of which is relatively rich in, and the other of which is relatively poor in, unsaturates, said process comprising intimately contacting the mixture with a selective polar solvent containing at least one of the groups included in Table A, the number of carbon atoms for each group not being substantially less than the number permissible as determined from the table and not exceeding about 4, the temperature being such that two liquid phases are formed, one comprising solvent in which is dissolved the first-mentioned fraction and the other comprising the second mentioned fraction, in which is dissolved some of the solvent, separating the phases and removing the solvent therefrom.

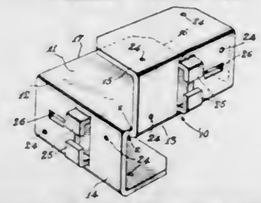
2,313,637

HARDWARE FOR CONCRETE FORMS

Russell L. Geer, Grand Island, Nebr.

Application July 13, 1940, Serial No. 345,296

7 Claims. (Cl. 20—92)



1. A fitting of the class described comprising a single unitary metal plate having a flat body portion adapted to be inserted between a pair of crossed timbers which it is to join and having ears projecting from adjacent and generally right angularly disposed edges thereof and turned back to overlie in spaced relation the opposite faces of said body of the plate and thereby form right angularly related channels on the respective opposite sides of the plate for the reception of the timbers to form a crossing union between the latter.

2,313,638

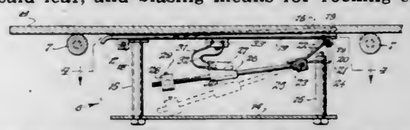
DEVICE FOR AUTOMATICALLY INDICATING BREAKDOWN IN KILN CONVEYERS

Victor Granditz, Cheektowaga, N. Y.

Application December 20, 1941, Serial No. 423,764

3 Claims. (Cl. 200—52)

1. A circuit control device adapted to be located below a horizontally extending path along which conveying mechanism advances flat-wise, serially arranged articles of sheet-like form in such a manner that in the regular passage of said articles along said path the leading end of one article may be spaced from the trailing end of the preceding article, said device including a mercury switch, a pivotally mounted leaf having a free end extending in the direction of travel of said articles and being movable to positions corresponding to, and determining, the operative and inoperative positions of said switch but normally being held by the engagement of its free end with the under sides of said articles in a position corresponding to the inoperative position of said switch, a pivotally mounted beam which carries said switch and one end of which engages the under side of the free end of said leaf, and biasing means for rocking said



beam to move said leaf to a position corresponding to the operative position of said switch in the event of the release of the free end of said leaf by an interruption in the regular passage of said articles along said path, said leaf being elongated and, in the normal position in which it is held by the engagement of its free end with the undersides of said articles, having a substantial part of its length in close proximity to said articles, whereby the magnitude of the deflection of said leaf with respect to said normal position, as a result of the spacing, or variations therein, between adjacent articles in their regular passage along said path, will be substantially less than that required for it to assume the position corresponding to the operative position of said switch.

2,313,639

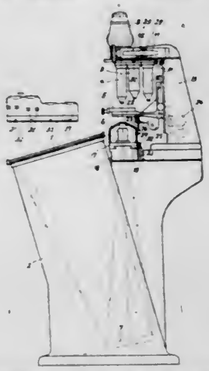
OPTICAL TESTING AND MEASURING APPARATUS

Hans Hauser, Bienne, Switzerland, assignor to the firm A.-G. für Optisch-Mechanische Erfindungen, Coire, Switzerland, a joint-stock company of Switzerland

Application February 12, 1941, Serial No. 378,667

In Switzerland March 7, 1940

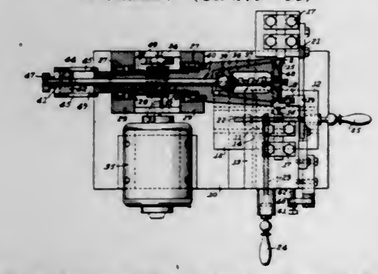
5 Claims. (Cl. 88—24)



1. In a contour controlling projector with several magnifying powers, a base, an upright attached to said base, a cross girder at the top of said upright, a light source carried by said cross girder, a plurality of condensers in front of said upright, a member carrying said condensers, movably mounted on said cross girder to bring any of

said condensers in alignment with said light source, a plurality of objectives, a carrier carrying said objectives, movably mounted on said base and in front of said upright to bring any of said objectives in alignment with said light source, an image screen provided on said base and in front of said carrier, means for directing an image formed by any of said objectives to said screen, and an object stage mounted on said upright, going through between said condensers and said objectives and free to be moved vertically and laterally to bring an object carried by said stage in alignment with said light source and any of said objectives and into the focal plane of this latter.

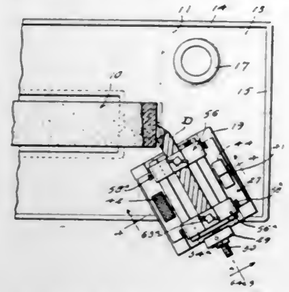
2,313,640
CHUCK FOR GROOVING AND SURFACING MACHINES
William H. Haynes, Little Rock, Ark.
Application June 5, 1939, Serial No. 277,554
2 Claims. (Cl. 279—58)



1. In a device of the character described, a rotatable spindle provided with a tapered opening at one end thereof, a chuck adapted to be positioned in said opening and to move relative to said opening, said chuck comprising a plurality of chuck jaws, each of the said chuck jaws having a work-gripping portion and a body portion, said chuck jaws being so formed that the body portions of the chuck jaws form a recess behind the work-gripping portions of the chuck jaws that has a diameter which is substantially larger than the diameter of the opening formed by the work-gripping portions of the chuck jaws, said chuck jaws being openable to permit the insertion of a portion of an object into the recess and being closable to permit the gripping by the work-gripping portions of the chuck jaws of another portion of the said object, a rod extending through the spindle and secured to the chuck, a hollow member secured to the other end of the spindle and provided with a slot, a portion of which extends longitudinally of the member and a portion of which extends at an angle to the longitudinal portion, a member within the hollow member secured to the rod and provided with a projection to cooperate with the slot in the hollow member.

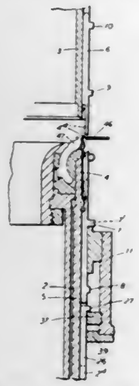
2,313,641
DRILL GRINDING DEVICE
Valentine Nickolas Hoerst, Cincinnati, Ohio
Application April 9, 1941, Serial No. 387,746
2 Claims. (Cl. 51—219)

2. A drill grinding means comprising a support, a stem carried by said support, means for vertically adjusting said stem, a plate carried by said stem, a carriage mounted for horizontal adjustment on said plate, a pair of upstanding spaced apart ears carried by said carriage, said ears being provided with axially aligned bores therethrough, a rotatable spindle journaled in said ears, means for locking said spindle against rotation, an eccentric rigidly secured to said spindle, and a drill clamping cradle rockably



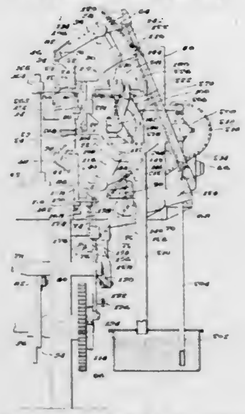
journaled on said eccentric whereby rotation of said eccentric will effect a predetermined movement of said cradle.

2,313,642
CIRCULAR INDEPENDENT NEEDLE KNITTING MACHINE
Henry Harold Holmes and Alfred Percy Saunders, Leicester, England, assignors to Wildt and Company Limited, Leicester, England, a British company
Application December 30, 1941, Serial No. 424,980
In Great Britain February 21, 1941
11 Claims. (Cl. 66—14)



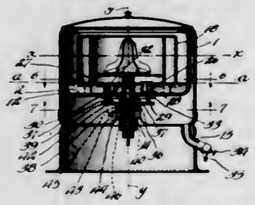
1. In a circular knitting machine of the kind adapted to operate with rotary reciprocatory motion as well as rotary motion, in combination, two groups of independent needles one only of which groups is employed for reciprocating knitting, forward and reverse clearing and stitch cams for causing said needles to clear and knit, a movable cam adapted, in one position, to enable the needles of both groups to be influenced by the forward clearing and stitch cams so that said needles all clear and knit during circular knitting and, when caused to assume another position preparatory to a change being made from circular knitting to reciprocating knitting, to enable all of the needles of both groups to be located in substantially the knocking-over position to which position said needles are automatically moved by the forward stitch cam, and a picker system which thereafter functions to determine the positions of the needles in the group required for reciprocating knitting while the needles of the other group remain wholly inactive.

2,313,643
PACKAGING MACHINE
Stanley R. Howard, Milton, Mass., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass., a corporation of Massachusetts
Application July 13, 1940, Serial No. 345,323
17 Claims. (Cl. 91—50)



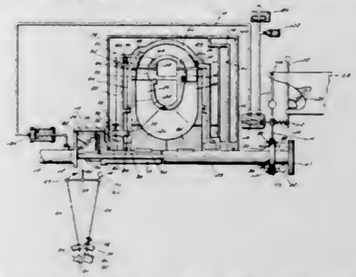
1. In a packaging machine, in combination, an adhesive supply roll, a cooperating adhesive applying roll, means for supplying adhesive to the supply roll, means for maintaining the adhesive carrying portions of said rolls spaced a predetermined distance apart during the transfer of adhesive from said supply roll to said applying roll, carton supporting means, and means for relatively moving the carton supporting means and the adhesive applying roll to effect the application of adhesive to a portion of the carton.

2,313,644
FORCED VORTEX BALANCING APPARATUS
Rasmus M. Hvid, Wilmette, Ill.
Application April 22, 1940, Serial No. 330,906
8 Claims. (Cl. 68—23)



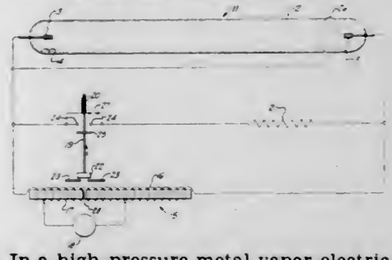
1. In combination, an outer hollow rotor having a bottom wall and adapted to contain an unconfined body of liquid therein, an inner rotor disposed within said outer rotor in frictional engagement with said bottom wall and normally free from contact with all other portions of said outer rotor, whereby said inner rotor is freely movable transversely of the axis of rotation of said outer rotor, and means for rotating said outer rotor at a high angular velocity to cause said liquid to move upwardly between said rotors and form a forced vortex surrounding said inner rotor, said frictional engagement being effective to cause rotation of said inner rotor, said forced vortex upon movement of said inner rotor transversely of said axis of rotation being effective to counteract unbalanced centrifugal forces exerted by said inner rotor and to maintain said inner rotor out of direct transverse contact with said outer rotor.

2,313,645
TURBO TRANSMISSION
Joseph Jandasek, Detroit, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application May 24, 1940, Serial No. 337,036
11 Claims. (Cl. 192—3.2)



1. In an apparatus of the class described, the combination of a power plant, a fluid power transmission connected thereto including a primary means for energizing fluid, a secondary means for absorbing energy from the fluid, means for coupling the primary and the secondary means activated by a servo mechanism influenced by the secondary means and by pressure received from the intake manifold of the power plant.

2,313,646
GASEOUS DISCHARGE LAMP
Lyman B. Johnson, Cleveland Heights, Ohio, assignor to General Electric Company, a corporation of New York
Application March 4, 1941, Serial No. 381,633
3 Claims. (Cl. 176—122)



1. In a high-pressure metal vapor electric discharge lamp of the cold-starting, solid, self-heating, widely spaced electrode type having an elongated tubular envelope with the electrodes mounted near its opposite ends, and containing in said envelope vaporizable and ionizable metal which during normal running is vaporized and maintained at arc-constricting pressure sufficient to protect the electrode functioning as cathode from sputtering, though when unvaporized it is out of direct heat-conducting relation to said electrodes; the combination with a compact, unactivated, tungsten cathode electrode which in running is locally heated by the discharge to emissive temperature over a small area centered on the electrode tip that remains substantially unchanging for each value of the discharge current; of an atmosphere of ionizable starting gas in the lamp envelope at a pressure corresponding substantially to 50 to 150 mm. mercury pressure of argon, whereby the cathode electrode is protected from sputtering, during starting, until the heating of the lamp and the resulting vaporization of the aforesaid vaporizable metal produces sufficient metal vapor pressure to protect the

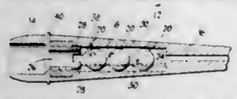
electrode from sputtering, while the discharge starts readily under voltage moderately exceeding the rated running voltage of the lamp.

2,313,647
SWIVEL SINKER
Frank Knill and John A. Schulte, Vermillion, Ohio, assignors, by mesne assignments, to Charles W. Patterson, Cleveland, Ohio
Application October 27, 1941, Serial No. 416,658
2 Claims. (Cl. 43—52)



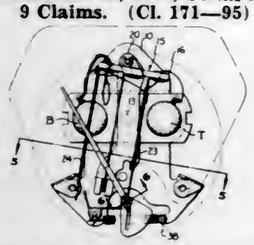
1. A swivel sinker comprising an open yoke having two end portions with axial openings therein, two swivel loops having shanks occupying the axial openings, the shanks having heads within the main opening of the yoke, a material substantially filling the open space of the yoke, and a weight cast about the yoke surrounding it and adhering thereto but prevented by the filling material from reaching the shanks of the loops.

2,313,648
SMOKER'S APPLIANCE
Henry J. Lavietes, Flushing, N. Y., assignor to Henry Leonard & Thomas, Inc., Ozone Park, N. Y., a corporation of New York
Application March 5, 1941, Serial No. 381,797
3 Claims. (Cl. 131—187)



3. A cigarette holder comprising a molded stem externally shaped to provide a large end and converging to bit formation at the opposite end, a smoke passage through the bit end of the molded stem, an elongated generally cylindrical well extending through the large end of the molded stem and forming an axial continuation of the smoke passage, a plurality of beads disposed in single-line axial alignment in said well, said beads being substantially spherical in configuration, the inside wall of the well being molded integrally with three or more ridges extending longitudinally thereof, said ridges being enlarged at the end of the well near the smoke passage, the beads being small enough in diameter to be received within the aforesaid ridges and being thereby spaced from the wall of the well, the beads being larger in diameter than the enlargements at the ends of the ridges, whereby the latter act as stops to prevent the innermost bead from moving against and stopping the inner end of the smoke passage, the large end of the stem having an internally threaded metallic bushing forming a part thereof, the inside diameter of the bushing being substantially the same as that of the well and large enough to pass the beads, and a cigarette-holding socket provided with a threaded tenon projecting therefrom, said tenon being received in the aforesaid internally threaded bushing to close the outer end of the well against escape of the aforesaid beads, the inner end of said tenon having spaced projections extending inwardly therefrom to act as stops to prevent the outermost bead from moving against and stopping the inner end of the smoke passage through the tenon, the thread of the tenon and bushing facilitating removal of the socket and tenon, thus releasing the beads for cleaning the beads and the well and smoke passage of the cigarette holder.

2,313,649
THERMOELECTRIC INDICATOR
Joseph I. Liner, Toledo, Ohio, assignor to The Electric Auto-Lite Company, Toledo, Ohio, a corporation of Ohio
Application June 22, 1936, Serial No. 86,576
9 Claims. (Cl. 171—95)



9. A thermally actuated electrical indicating instrument, comprising a scale and indicator movable thereover, a first temperature responsive unit including an electrical heating element in circuit with a source of voltage and responsive to a variable to be measured, means causing said temperature responsive unit to actuate said indicator, said means including adjustable means for modifying the actuation of said indicator in proportion to voltage variation of said source, a second temperature responsive unit including an electrical heating means responsive to variations in said source of voltage, said second temperature responsive means being operative to operate said adjustable means.

2,313,650
METHOD OF APPLYING COLORED DESIGNS ONTO RUBBER ARTICLES
Justin Loewengart, New York, N. Y., assignor to Transcontinental Rubber Corporation, New York, N. Y., a corporation of New York
No Drawing. Application October 24, 1940, Serial No. 362,619
1 Claim. (Cl. 41—24)

A method for embellishing rubber articles consisting in molding the unvulcanized article into its final form, shaping upon the same haut-relief ornaments of a predetermined configuration from a viscous rubber compound, drying the article, vulcanizing the same in the absence of pressure, and preserving hereby the original form of the ornaments.

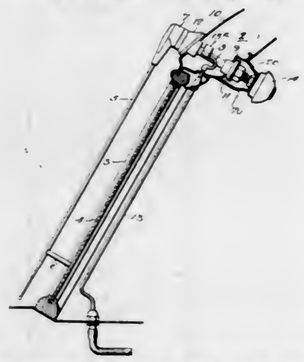
2,313,651
HEDGE SHEARS
Frank B. Lutman, Willoughby, Ohio, assignor to The American Fork & Hoe Company, Cleveland, Ohio, a corporation of Ohio
Application March 13, 1940, Serial No. 323,749
1 Claim. (Cl. 30—239)

The combination with a pair of longitudinally extending blade members pivotally secured together and adapted to have reciprocatory movement with respect to each other, one of said blade members being provided with a substantially straight edge, said edge being bevelled throughout the greater part of its length and a portion of said bevelled surfaces being serrated, a notch provided in an unserrated portion of said bevelled surface adjacent the pivotal connection of said blade members, the other blade member having a generally curved cutting edge, said edge being bevelled throughout its greater extent, the arc of curvature of said curved cut-



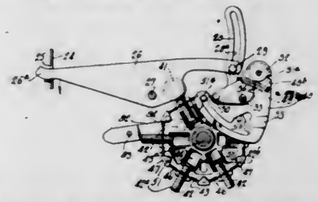
ting edge generally extending from a point substantially in alignment with the rearmost edge of said notch provided in said other blade member, movement of said blades outwardly with respect to each other causing the curved blade member to traverse the upper face of the other blade and to rest in its fartherest extended position adjacent said notched end of said blade, a portion of the surface of the said first named straight edge blade contiguous to said notch being cut away, subsequent movement of the blade members inwardly causing said upper blade to again traverse said lower blade and to impart a draw cut to any article gripped by said blades.

2,313,652
ADJUSTABLE ANTENNA FOR VEHICLES
Harry J. Lyman, Detroit, Mich., assignor to Philco Radio and Television Corporation, Philadelphia, Pa., a corporation of Delaware
Application April 25, 1941, Serial No. 390,391
16 Claims. (Cl. 250—33)



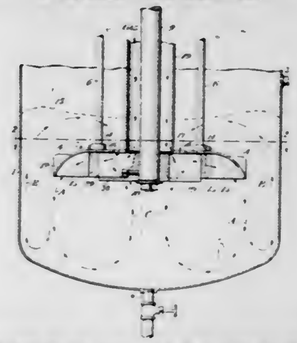
1. An extensible and retractible antenna device for a vehicle, comprising a rod-like multisection antenna whose sections are normally retracted, means for pivotally mounting said antenna on a vehicle so that it may move pivotally through a predetermined angle from a rest position to an operative position, a rotatable control element, means operable in response to rotary movement only of said control element for moving said antenna from its rest position to its operative position, and means responsive to additional rotary movement of said control element in the same direction for effecting relative movement between said antenna sections to increase the effective length of the antenna.

2,313,653
TUNING MECHANISM
Harry J. Lyman, Royal Oak, and Donald H. Mills and Walter H. Friedrich, Detroit, Mich., assignors to Philco Radio & Television Corporation, Philadelphia, Pa., a corporation of Delaware
Application January 19, 1942, Serial No. 427,366
34 Claims. (Cl. 74—10)



1. In a tuning device for radio apparatus incorporating an adjustable tuning element, a first movable member operatively connected with said tuning element and actuable to adjustably position the same, a second movable member carrying a plurality of stops arranged for individual cooperation with said first movable member to stop the same and the tuning element at various predetermined positions, one of said stops normally being positioned to cooperate with said first movable member, mechanism for simultaneously moving the first movable member out of cooperative relation with the stops of the second movable member and for moving said second member to bring another stop into position for cooperation with said first movable member, and means operative independently of said mechanism for returning the first movable member into cooperative relation with said other stop.

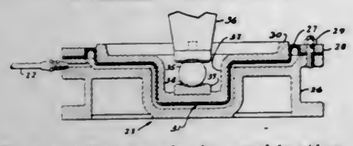
2,313,654
APPARATUS FOR TREATING LIQUIDS WITH GASES
Gordon MacLean, Flushing, N. Y., assignor to The Turbo-Mixer Corporation, New York, N. Y., a corporation of New York
Application November 19, 1940, Serial No. 366,288
8 Claims. (Cl. 261—93)



1. In apparatus for treating liquid with gases of the type in which streams of liquid and gas enter a rotary impeller and are discharged by the impeller for circulation in a tank, the major portion of the discharge being in planes substantially perpendicular to the axis of rotation; the

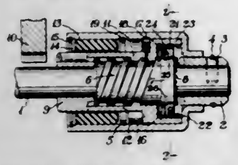
improvement which comprises: blades of the impeller being provided with trailing fins which occupy approximately 30% of the area between the blades.

2,313,655
HYDRAULIC FORCE TRANSMISSION DEVICE
Charles O. Marshall, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey
Application July 29, 1941, Serial No. 404,517
6 Claims. (Cl. 265—47)



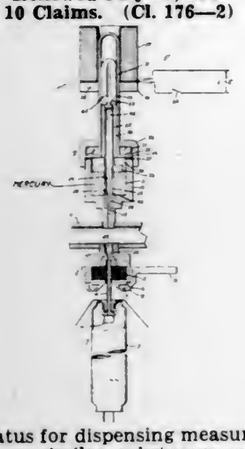
6. In a weighing scale, in combination, a plurality of capsules adapted to contain liquid, each of said capsules comprising a body having a depression therein, a flexible diaphragm overlying said body and substantially conforming in shape to said body, said diaphragm being adapted to confine such liquid in said body, said diaphragm being floatingly supported by such liquid and a pressure plate supported on said diaphragm, said pressure plate having a periphery shaped like the equatorial zone of a sphere; said pressure plate being supported on a horizontal plane lying substantially on the horizontal "great circle" of such sphere and having a concave supporting surface curved about the same center point as such sphere defining the periphery of said plate, and a load receiver supported on said concave supporting surfaces.

2,313,656
ENGINE STARTER GEARING
Thomas B. Martin, Dayton, Ohio, assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application January 22, 1941, Serial No. 375,487
13 Claims. (Cl. 74—7)



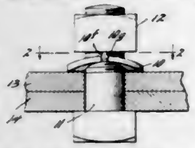
1. In an engine starter drive, a power shaft, a stop member fixed thereon, a pinion slidably journalled on the power shaft and adapted to engage and drive an engine gear, a screw shaft slidably mounted on the power shaft adjacent the stop and freely rotatable thereon, a coupling member mounted on the power shaft adjacent the screw shaft and adapted to be clutched to the screw shaft, means for connecting the coupling member to rotate with the power shaft, and a nut threaded on the screw shaft, means rigidly connecting the nut to the pinion and arranged on rotation of the screw shaft to move the pinion into engagement with the engine gear, which position of the pinion is defined by the engagement of the nut with the stop member, said screw shaft being clutched to the coupling member by the screw jack action of the nut and overrunning said coupling member freely when the engine becomes self-operative while the pinion remains in engagement with the engine gear.

2,313,657
APPARATUS FOR FEEDING MERCURY
Anthony J. Marshaus, East Cleveland, Ohio, assignor to General Electric Company, a corporation of New York
Application August 6, 1938, Serial No. 223,519
Renewed July 19, 1940
10 Claims. (Cl. 176—2)



1. Apparatus for dispensing measured amounts of mercury or similar substances comprising a cup portion adapted to hold a quantity of the mercury, a hollow tubular member having an aperture in the wall thereof normally located within said quantity of mercury, closure means within said tubular member normally closing off said aperture to prevent escape of the mercury therethrough, another closure means at the outer side of said tubular member extending into said quantity of mercury and normally spaced from said aperture, and means for causing a relative movement between said tubular member and said two closure means, said parts being constructed and arranged to first cause said second-mentioned closure means to close off said aperture at the outer side of said tubular member while said aperture is within said quantity of mercury and to then cause said aperture to be uncovered by said first-mentioned closure means to permit the mercury within said aperture to drop into the interior of said tubular member.

2,313,658
LOCK WASHER
John A. McGrew, Albany, N. Y.
Application April 29, 1942, Serial No. 441,005
3 Claims. (Cl. 151—36)



1. A reversible spring washer comprising two similar deformable portions circularly curved about an axis and arranged in end-to-end relationship, two adjacent ends of said portions being free or independent of each other and separated by a narrow gap and the other two ends merging at a junction point midway between said free ends so that the two curved portions together form a one-piece nearly continuous ring-like member adapted to closely encircle a bolt, each such portion being also curved or arched from its free end to its merged end about an axis

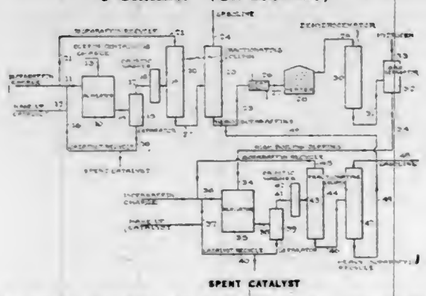
spaced laterally of the washer, and which passes through or near said first mentioned axis, said last mentioned axis being substantially normal to a plane which includes the first mentioned axis and passes through the gap between the free ends of said deformable portions, whereby the free end and merged end of each deformable portion of said washer will contact with one of two parallel surfaces and a point on each deformable portion intermediate its free and merged ends will contact with the second of such parallel surfaces when the washer is partially loaded, the washer being so formed at its ends and midpoint that it will initially contact with one of such parallel surfaces at three points all of which will be along the inner periphery of the washer, and will contact with the second of said surfaces at two points.

2,313,659
BLACK-OUT DEVICE
Richard W. P. Mittag, Washington, D. C.
Application March 3, 1942, Serial No. 433,221
1 Claim. (Cl. 160—41)



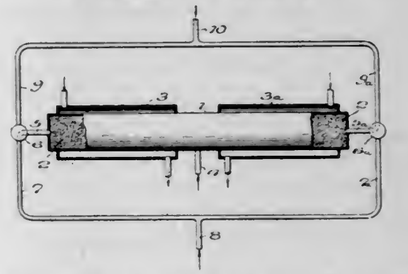
For mounting on a window frame including head trim, side trim and a stool, a blackout device comprising a spring-actuated roller mounted horizontally on the head trim, a horizontal bar mounted on said head trim below said roller, an opaque shade secured to the roller for winding thereon and operable across the bar, said shade having openings in its free end portion, and pins beneath the stool engageable in the openings for releasably securing the shade in lowered position.

2,313,660
MANUFACTURE OF HIGH OCTANE GASOLINE
Charles W. Montgomery, Aspinwall, Pa., assignor to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware
Application May 23, 1940, Serial No. 336,884
6 Claims. (Cl. 196—10)



2. In a process of alkylating an iso-paraffin with an olefin in the presence of an alkylation catalyst, the steps comprising dehydrogenating a high boiling iso-paraffin thus obtained to form an iso-olefin and alkylating the iso-olefin thus formed with an iso-paraffin in the presence of an alkylation catalyst.

2,313,661
ISOMERIZATION AND ALKYLATION OF PARAFFINS
Charles W. Montgomery, Oakmont, Pa., assignor to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware
Application February 12, 1942, Serial No. 430,674
7 Claims. (Cl. 196—10)

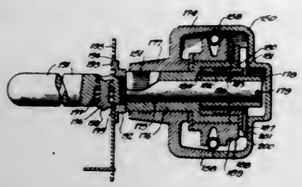


1. A method of producing isoparaffins, which comprises passing the vapor of at least one normal paraffin containing 4 to 5 carbon atoms per molecule through a hot zone in contact with an aluminum halide catalyst at an elevated temperature sufficient to cause substantial isomerization of said normal paraffin and substantial vaporization of said aluminum halide, passing the resulting mixture of paraffins and aluminum halide, in admixture with at least one lower olefin, through a cool zone in contact with an aluminum halide catalyst at a reduced temperature sufficiently low to cause condensation of at least the major part of the aluminum halide vapor introduced into said cool zone, but sufficiently high to maintain in the vapor phase substantially all of the hydrocarbons therein, effecting alkylation in said cool zone, ceasing the flow of materials through the hot and cool zones before the production of isoparaffin in the hot zone is insufficient to cause alkylation with substantial amounts of olefin in the cool zone, heating said cool zone to and maintaining it at said elevated temperature, cooling said hot zone to and maintaining it at said reduced temperature, and passing said vapor of normal paraffin through the heated original cool zone and passing the resulting vapor mixture, in admixture with said lower olefin, through the cooled original hot zone to cause isomerization and catalyst vaporization in the hot zone and alkylation and catalyst condensation in the cool zone.

2,313,662
ONE-WAY CLUTCH FOR CINEMATOGRAPHS
Thomas J. Morgan, Chicago, and Arthur S. Dearborn, Hinsdale, Ill., assignors to Ampro Corporation, a corporation of Illinois
Original application April 15, 1940, Serial No. 329,784. Divided and this application July 21, 1941, Serial No. 403,369
4 Claims. (Cl. 192—41)

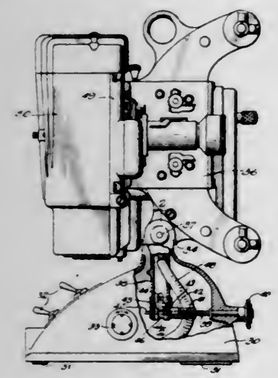
2. In a cinematograph, a frame part having a bearing opening and a hollow hub, a pulley rotatably mounted on said hub, a spindle shaft rotatably mounted in said bearing opening, a

clutch spring encircling said shaft within said hub, and a sleeve surrounding said spring and within said hub, the opposite ends of said spring



being respectively connected to said sleeve and to said pulley, and friction braking means between said sleeve and hub for resisting rotation of said sleeve.

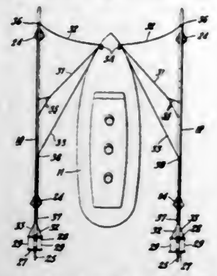
2,313,663
CINEMATOGRAPH
Thomas J. Morgan and Arthur S. Dearborn, Chicago, Ill., assignors to Ampro Corporation, a corporation of Illinois
Original application April 15, 1940, Serial No. 329,784. Divided and this application July 21, 1941, Serial No. 403,371
5 Claims. (Cl. 248—11)



1. In a cinematograph, a hollow base, electrical controls mounted on said base, projecting mechanism having a hollow stem extending into said base, means pivotally interconnecting said base and said projecting mechanism, screw means interconnecting said base and a portion of said hollow stem and adapted, upon rotation of the screw, to effect pivotal movement of said projecting mechanism, said stem having an opening in its side affording access to the interior thereof, and electrical wires extending from said controls through said opening and said hollow stem into said projecting mechanism.

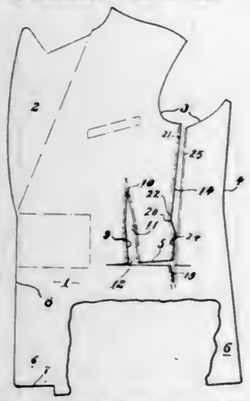
2,313,664
ANTITORPEDO SHIELD
Wadsworth W. Mount, Summit, N. J.
Application November 19, 1942, Serial No. 466,111
13 Claims. (Cl. 114—240)

1. An anti-torpedo shield to be used with a marine vessel comprising a buoyant dirigible shield structure having rudder means; and, means for connecting said shield structure to said vessel, said means comprising cables forming running lines with said shield structure for actuating said rudder means in response to a change in course of said vessel or said shield



structure and a separate cable for towing said shield structure from said vessel.

2,313,665
MAN'S DRAPE COAT
Louis Natale, Baltimore County, Md., assignor to L. Greif & Bro., Inc., a corporation of Maryland
Application October 10, 1941, Serial No. 414,435
6 Claims. (Cl. 2—93)

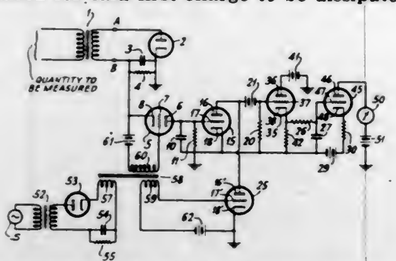


1. In a man's drape coat side having a side pocket slot near the hip, an upright front cut out forward of the arm hole and pointed at the top and of increased width near the waist line, said cut out extending down to the pocket, and being of substantial width at the top of the pocket slot an upright under-arm cut out extending from the arm hole downwardly substantially to said pocket, said latter cut out being of maximum width at a point below the center of its length and below said point, of downwardly reducing taper ending above said pocket, said under-arm cut out having therein a vertically elongated triangular gore with its vertex upwardly disposed extending downwardly from the end of said taper, the base of the insert being at the pocket.

2,313,666
LOGARITHMIC INSTRUMENT CIRCUIT
Harold O. Peterson, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application January 26, 1940, Serial No. 315,684
8 Claims. (Cl. 171—95)

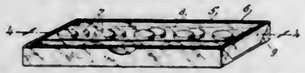
1. In a logarithmic instrument circuit the method of operation which comprises the steps of storing a charge proportional to the amplitude of the quantity to be measured, dissipating said

charge at a logarithmically varying rate to a predetermined value, storing a second charge the value of which is proportional to the time required for said first charge to be dissipated to



said predetermined value, controlling a current in accordance with the value of said second stored charge and indicating the value of said current.

2,313,667
PACKAGE FOR TABLETS, AMPOULES, AND THE LIKE
Arthur F. Peterson, East Orange, N. J., assignor to Schering Corporation, Bloomfield, N. J., a corporation of New Jersey
Application April 15, 1941, Serial No. 388,582
2 Claims. (Cl. 206—42)



1. A package for medicinal preparations comprising a sleeve, a box body and box cover, each of said elements comprising a bottom and upwardly extending side members to form complementary elements, the box body being adapted to carry a medicinal preparation and the cover being adapted to be placed over the box body to close the same, said elements in the assembled condition as a package having the box body inserted within the box cover with the bottom of the box body in surface contact with the inside of the top of the box cover, the so assembled box body and box cover being contained within the sleeve, one face of the sleeve acting as a cover for the box body, the so assembled box body and box cover as a unit being slidable outwardly from within said sleeve to make the medicinal preparation available for inspection, the box cover being adapted to be separated from the box body and to be placed over the box body to close the same.

2,313,668
EAR ORNAMENT
Oscar F. Placco, Cranston, R. I., assignor to Cohn & Rosenberger, Inc., a corporation of Rhode Island
Application January 17, 1942, Serial No. 427,142
2 Claims. (Cl. 63—14)



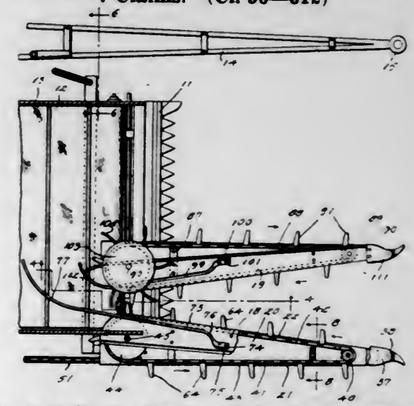
1. In an ear ornament, a fixed jaw having a rounded surface for engaging one side of the lobe of the ear, a movable jaw provided with a square stud, an elliptical shape shoe having a longitudinally and laterally extending convexed surface for engaging the other side of the lobe of the ear and a cupped recess provided with a square opening extending through the bottom wall thereof of a size to loosely fit said stud and rockably mount the shoe thereon, the end of said stud being upset in said recess and extending short of the outer edge thereof, said shoe being mounted on said movable jaw inwardly of the free end thereof a distance sufficient to provide a handle portion on said movable jaw for movement of said jaws from each other.

2,313,669
COMPENSATOR FOR AUTOMATIC FIREARMS
Eugene G. Reising, Hartford, Conn.
Application January 6, 1941, Serial No. 373,224
6 Claims. (Cl. 89—14)



1. In a device of the class described, a climb arrester for use with rapid-fire automatic firearms capable of firing several hundred shots per minute, said arrester comprising a substantially cylindrical hollow elongated member, an opening at the forward end of said member, a shelf partly surrounding said opening and extending therebeyond parallel to said member, and means at the forward end of said shelf to deflect explosion gases upwardly, said means comprising a semi-conical extension of said shelf.

2,313,670
PICKUP ATTACHMENT FOR HARVESTING IMPLEMENTS
Turney B. Roberts and Bascomb E. Davenport, Memphis, Tex.
Application May 5, 1941, Serial No. 391,990
7 Claims. (Cl. 56—312)



1. A pick-up attachment for harvesters comprising a pair of forwardly divergent members, means mounting said members on the harvester in forwardly extended position from the cutter bar, a combined supporting shoe and grain elevating member carried by the forward end of each member, rearwardly movable fingers carried by each member, a pair of rearwardly converging rearwardly directed guide members carried one by each of said first members, the outer guide member of said pairs of guide members extending substantially further rearwardly than the inner guide member, and a rotatable guide carried by one of said first members and including means correlated with said guide members

for maintaining the grain upright and moving the grain rearwardly of the cutter bar in a substantially upright position.

2,313,671
REFRIGERATOR CONSTRUCTION
Theodore W. Rundell, Abington, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application December 27, 1940, Serial No. 371,945
9 Claims. (Cl. 220—9)



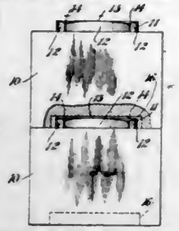
1. A refrigerator cabinet construction comprising an outer shell and lining having heat insulation therebetween and providing a food storage compartment with a front opening thereto, said shell and lining having edge portions bent inwardly toward each other and spaced apart peripherally of the front opening, the edge portion of the lining having apertures therein and the edge portion of the shell being bent to form an inwardly facing groove substantially peripherally of said front opening, a removable breaker strip closing the space between the shell and lining and having its outer edge extending into said inwardly facing groove of said shell, fasteners having head and shank portions for removably securing the inner edge of the breaker strip to the edge portion of the lining by engagement of the shank portion of said fasteners through apertures in said lining edge portion, the rear face of said breaker strip being recessed to receive the heads of said fasteners, and means for securing said fasteners to the breaker strip comprising a U-section spring channel having a portion formed to receive the breaker strip inner edge and a leg portion underlying the rear surface of the breaker strip and provided with apertures therein, the heads of the fasteners being disposed in said recess between said breaker strip and the leg portion of the spring channel with the shanks of said fasteners extending through said apertures so that said spring channel and said fasteners are interlocked with the breaker strip and the latter is supported by the fasteners.

2,313,672
COATING SAND MOLD SURFACES
Harold K. Salzberg and Walter B. Kinney, Bainbridge, N. Y., assignors to The Borden Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application August 6, 1941, Serial No. 405,718
7 Claims. (Cl. 22—189)

1. A foundry sand mold surface coated with a mixture comprising a water soluble thermosetting synthetic resin condensate and an aqueous emulsion of a drying oil.

2,313,673
VITRIFIED TRAFFIC MARKER
Dean R. Sever, New Philadelphia, and Donald J. Renkert, near Canton, Ohio; said Renkert assignor to The Metropolitan Paving Brick Company, Canton, Ohio, a corporation of Ohio
Application July 26, 1941, Serial No. 404,186
8 Claims. (Cl. 94—1.5)

2. A traffic marker comprising a block formed of fire clay and arranged to be embedded in a roadway with its top surface flush with the surface of the roadway, an integral fire clay projection formed upon the top of the block, said



projection having opposed, substantially vertical, convex faces.

2,313,674
COATING FOUNDRY MOLD SURFACES
Harold K. Salzberg and Walter B. Kinney, Bainbridge, N. Y., assignors to The Borden Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application September 11, 1942, Serial No. 458,034
9 Claims. (Cl. 22—189)

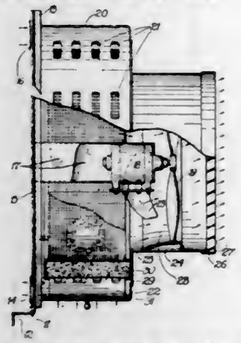
1. A foundry sand mold, a part at least of the surface of which is coated with a coating composition containing an aqueous solution of a condensation product of a phenolic body with formaldehyde.

2,313,675
QUILL BRUSH
Joachim M. Schultz, New York, N. Y.
Application January 24, 1942, Serial No. 428,049
3 Claims. (Cl. 15—160)



1. A brush comprising a quill, a handle in one end of said quill, said handle having a circumferential groove near its end socketed in said quill, the opposite end of said quill having an overturned edge, a tuft of hairs in the end of said quill provided with said overturned edge, a first wire for encircling said quill for engaging said groove in said handle, and a second wire encircling said quill for securing the socketed end of said tuft of hairs.

2,313,676
VENTILATING AND CIRCULATING SYSTEM
James B. Shaver, Cleveland, Ohio
Application October 24, 1939, Serial No. 300,977
5 Claims. (Cl. 98—38)



1. Ventilating apparatus comprising a tubular

casing having an air inlet adjacent the periphery thereof and closed at its end adjacent and centrally with respect to said inlet, a tubular filter within the casing and spaced inwardly from said air inlet, an impeller having its intake arranged to draw air from within the filter, and driving means operably connected to said impeller.

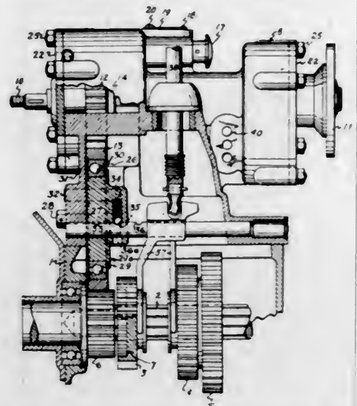
2,313,677
MANUFACTURE OF SULPHURIC ACID
John V. Shinn, Flushing, N. Y., assignor to General Chemical Company, New York, N. Y., a corporation of New York
No Drawing. Application June 3, 1941, Serial No. 396,404
8 Claims. (Cl. 23—172)

5. In the operation of heating impure sulphuric acid containing organic froth promoting constituents, the improvement comprising maintaining in said acid when heating the same while in the frothing stage, as a froth minimizer, a small amount of material of the group consisting of saturated fatty acids, their esters and salts.

2,313,678
RESIN
John Kenson Simons, Toledo, Ohio, assignor to Plaskon Company, Incorporated, Toledo, Ohio, a corporation of Delaware
No Drawing. Application January 29, 1942, Serial No. 428,757
2 Claims. (Cl. 260—29)

1. A method of preparing a solution suitable for use as a lacquer that comprises bringing an ethyl silicate, water, and an alkylated reaction product of formaldehyde and urea substantially free from hydroxy groups together in organic solution in a solvent capable of forming a solution with said ingredients.

2,313,679
POWER TAKE-OFF MECHANISM
Anthony Tangen, Detroit, Mich.
Application June 25, 1942, Serial No. 448,371
4 Claims. (Cl. 74—11)

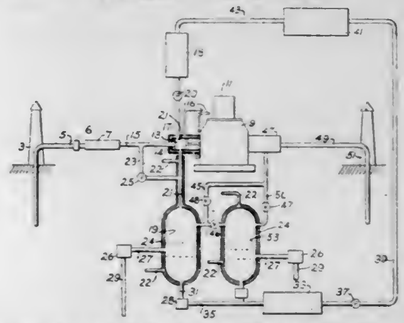


1. In a power take-off mechanism, the combination with a selective speed gear transmission and its casing, of a housing surmounting and closing the top of said casing, a power take-off shaft journaled in and projecting from said housing, a driven gear on said shaft in driving engagement therewith, an annular idler gear transmitting a drive to the driven gear from said transmission, a journal member for the idler gear rigidly carried by and within said housing, and a plurality of shifter rods for shifting gears of said transmission, having end portions slidably mounted in said journal member.

2,313,680
MANUFACTURE OF THIOCYANATES
Lee B. Smith, Woodbridge, N. J., assignor to General Chemical Company, New York, N. Y., a corporation of New York
No Drawing. Application January 26, 1942, Serial No. 428,222
10 Claims. (Cl. 23—75)

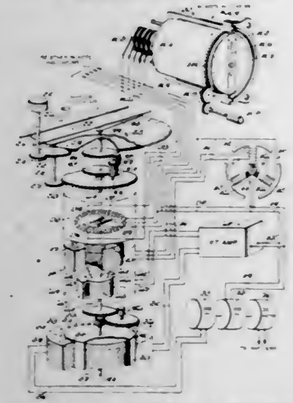
1. The process for making alkali metal thiocyanate which comprises treating an alkali metal thiocyanate solution, containing at least one impurity of the group consisting of alkali metal carbonate, alkali metal sulfide and alkali metal hydroxide, with sulfuric acid in quantity sufficient to convert substantially all alkali metal impurity contained in said solution to alkali metal sulfate, separating alkali metal sulfate from the resulting liquor while maintaining alkali metal thiocyanate in solution in said liquor, and then recovering alkali metal thiocyanate in solid form from said liquor.

2,313,681
RECOVERY OF LIQUID HYDROCARBONS FROM WELL FLUIDS
Edwin H. Steedman, St. Louis, Mo.
Application August 9, 1940, Serial No. 351,988
2 Claims. (Cl. 62—123)



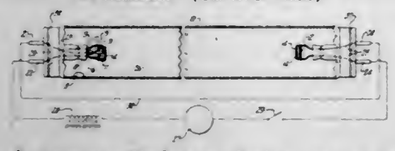
1. In an apparatus for extracting petroleum products from natural gas by retrograde condensation, a pre-cooler that at least partially dehydrates the natural gas from which the petroleum products are to be extracted, an expansion chamber which has means associated therewith to add heat to the contents of the chamber, said chamber being arranged to allow expansion of the natural gas in such a manner that the expansion of the gas will cause a refrigerating of the gas and will produce useful work, a by-pass around the said expansion chamber that is adapted to regulate the amount of natural gas flowing into the expansion chamber and thereby regulate the amount of refrigerating done in the chamber, a compressor for returning the denuded natural gas to the field, and driving means for the said compressor that utilizes the useful work produced by the expansion of the natural gas, said apparatus being arranged so the amount of precooling of the gas, the amount of refrigerating done in the expansion chamber, and the amount of heat added to the expansion chamber can be regulated to prevent freezing or icing in the expansion chamber.

2,313,682
COMPASS SYSTEM
Alfred A. Stuart, Jr., Hasbrouck Heights, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application November 5, 1940, Serial No. 364,444
1 Claim. (Cl. 33—204)



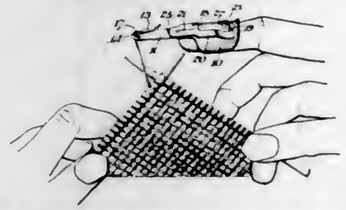
In a compass comprising a member sensitive to the directive force of the earth's magnetic field, a two-phase induction motor controlled by said member, an indicating device operated by said motor, means to refer indications of said indicating device to a selected axis of a carrying craft, a portion of said indicating device being carried by a shaft driven by said motor, a second motor having a stator portion electrically connected to portions of said member, and a rotor in which are induced voltages representative of the direction of the earth's magnetic field, connections between said rotor and one phase of said induction motor, an alternating current source for energizing the second phase of said motor, said phases being wound upon an exterior stator portion of said motor, said motor also having an interior portion and a rotor member connected to said shaft, said rotor member being of conductive material and having an annular portion thereof disposed between said exterior and interior stators so that upon energization of the two phases of said motor, induction of currents in said element will cause rotation thereof in a direction depending upon the phase relation between voltages induced in the windings of the two phases of said motor.

2,313,683
GASEOUS DISCHARGE LAMP
Richard N. Thayer, Cleveland Heights, Ohio, assignor to General Electric Company, a corporation of New York
Application March 28, 1941, Serial No. 385,661
12 Claims. (Cl. 176—122)



1. A gaseous discharge device comprising a sealed envelope having a discharge space, a gaseous atmosphere therein, at least one thermionic electrode adapted to be heated to emission temperature therein, a bimetallic switch mounted within said envelope and in heat receiving relation to said electrode, said switch comprising a chamber of insulating material open to said space, a contact in said chamber and insulated from said discharge space by the walls thereof, a second contact partially closing the opening of said chamber, a bimetallic member exposed directly to heat from said electrode and fixed at one of its ends and connected to one of said contacts at the other, whereby said ontacts are separated by expansion of said bimetallic member; and means for forming a preheating circuit through said electrode by closure of said contacts.

2,313,684
KNITTING ACCESSORY
Ivar V. Thulin, Upper Darby, Pa.
Application August 21, 1941, Serial No. 407,702
6 Claims. (Cl. 242—149)



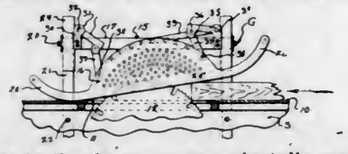
1. A knitting accessory comprising a ring to be slipped on a person's finger, an elongated arm projecting from the outer edge of said ring and extending beyond the end of the person's finger in a plane substantially parallel thereto when in use, said arm having a recess at its outer end, a horn at one side at the outer end of said arm, a tongue at the opposite side at said outer end of said arm, said tongue being curved around and overlapping the horn and spaced therefrom to form a feed eye from the recess and provide a side entrance thereto between the tongue and horn and also act as a gate for said entrance, a guide chock on the ring adjacent its inner edge and open at the side to permit lateral insertion of the material strand thereinto, and a tension clip located between the feed eye and guide chock and anchored on said ring, said clip having an unobstructed passageway thereto at one side to permit lateral insertion of said strand beneath said clip.

2,313,685
GLASS AND PROCESS OF MAKING THE SAME
Harry A. Truby, New Kensington, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
No Drawing. Application January 31, 1941, Serial No. 376,855
5 Claims. (Cl. 106—53)

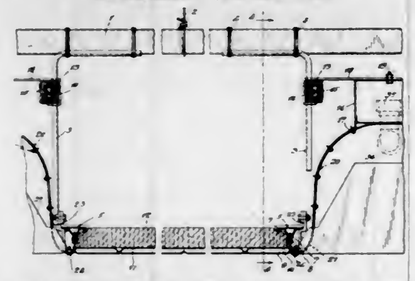
1. A process of obtaining substantially colorless high barium crown glasses, which comprises adding from 0.5 to 1.5% by weight of a phosphate to the batch from which the glass is prepared, to eliminate the color normally resulting when the batch is melted.

2,313,686
SAW GUARD
Mark Uremovich, Milwaukee, Wis.
Application March 17, 1941, Serial No. 383,746
1 Claim. (Cl. 143—159)

In a bench saw including a work table and a circular saw partially projecting above the working face of said table, a guard for said saw including a supporting frame arranged above the table and saw, a guard shield receiving the projecting portion of the saw, means freely suspending the shield from said frame including toggles arranged at each end of the frame, each of said toggles including upper and lower pivotally connected links, means pivotally connecting the upper links to the frame, means pivotally connecting the lower links to the shield adjacent the opposite ends thereof, and a steadying link pivotally connected at one end to the frame and pivotally connected at its opposite end to the upper end of the shield between said toggles and adjacent to the center of said shield.

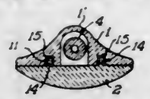


2,313,687
CEILING STRUCTURE
Stephen P. Walker, Winnetka, and Albert A. Schramm, Chicago, Ill., assignors to United States Gypsum Company, Chicago, Ill., a corporation of Illinois
Application May 6, 1940, Serial No. 333,462
18 Claims. (Cl. 189—85)



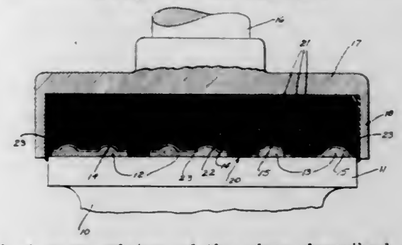
1. An illuminated ceiling comprising a framework having spaced runners forming alternate panel spaces and coffer spaces therebetween, panels supported by said runners in said panel spaces, and reflectors in said coffer spaces, said reflectors having spaced holes therethrough adjacent the edges thereof, brackets slidable on said runners to align with said reflector holes, and fasteners for securing said reflector to said slidable brackets through said holes.

2,313,688
THERMOMETER
Ralph C. Wappner and Frank M. Osborne, Springfield, Ohio, assignors to The Ohio Thermometer Company, Springfield, Ohio, a corporation of Ohio
Application October 20, 1941, Serial No. 415,799
3 Claims. (Cl. 73—374)



3. In a thermometer, a two-part casing having a rear member and a transparent front member, said rear member having a chamber, a thermometer tube and its bulb located in said chamber, one of said members having a series of apertures, protuberances on the other of said members adapted to register with said apertures and be received therein, said rear member having a forward flat face bearing temperature indicia, said forward member having a rear flat face to mate with the flat face of said rear member and said forward member also having a rounded forward face extending the entire width thereof.

2,313,689
RUBBER PRESS PAD
Rex H. Waters, Akron, Ohio, assignor to Wingfoot Corporation, Wilmington, Del., a corporation of Delaware
Application January 9, 1941, Serial No. 373,779
2 Claims. (Cl. 113—44)



1. A press platen of the class described comprising a rigid platen body having a cavity in one of its faces, a multiplicity of relatively thin resilient flowable slabs assembled in a compact laminated relationship in said cavity so that the laminations will be substantially perpendicular with respect to the bottom of the cavity in the face of the platen, and a cover slab of more durable resilient material placed over the laminated assembly to protect same from wear and injury and to constitute the working face of the platen.

2,313,690
CORNER BASE CABINET CONSTRUCTION
Richard F. White, Salem, Ohio, assignor to Mullins Manufacturing Corporation, Salem, Ohio, a corporation of New York
Application December 6, 1940, Serial No. 368,831
1 Claim. (Cl. 312—142)

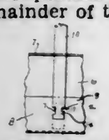


A corner base cabinet for the corner of a room including two front side walls extending at right angles to each other from a cabinet front corner and two rear side walls parallel respectively to said front side walls, a partition wall in said cabinet parallel to one of said front walls and located nearer to the rear wall parallel thereto than to said front wall, a top cover on said cabinet, and concealed means hinging said top cover on said partition wall, the rear edge of said top cover being adapted to engage said partition wall for limiting opening movement of said top cover.

2,313,691
BROOM RAKE
Charles D. Whittenberger, Akron, Ind., assignor to The American Fork & Hoe Company, Cleveland, Ohio, a corporation of Ohio
Application March 20, 1940, Serial No. 324,948
5 Claims. (Cl. 56—400.17)

1. A tine for rakes having a substantially lon-

gitudinally extending main portion, a downwardly extending ground engaging portion, said main portion being provided adjacent its rear end portion with a necked-in portion of relatively lesser width than the remainder of the tine forward or



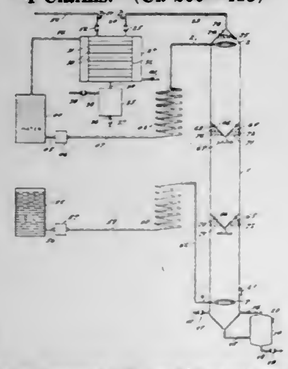
rear end portions whereby oppositely disposed shoulders are provided which are adapted to have locking engagement with a rake crosshead having perforations disposed therein of substantially the dimensions of the width of said tine.

2,313,692

MULTIPHASE CONTINUOUS FAT TREATING

Baruch Winer, New York, N. Y.

Application January 29, 1941, Serial No. 376,445
In Rumania March 22, 1940
4 Claims. (Cl. 260—415)



1. In the process of continuous counter-current hydrolysis of fat wherein a body of fat flows upwardly in a column against a downwardly flowing rain of water maintained under pressure in said column in the liquid phase at fat splitting temperatures and in which an emulsion composed of a fatty component and a glycerine-water component is formed; the improvement which comprises passing said emulsion in contact with a porous filtering medium and thereby separating said emulsion into its fatty component and its glycerine-water component at each of a plurality of stations in said column; arresting the upward flow of said separated glycerine-water component and causing it to pass downwardly from said station; whereby a plurality of separate fat splitting zones separated by said emulsion-separating stations are maintained in said column, the upward movement of said separated glycerine-water into each of said zones is prevented and the concentration and therefore the fat splitting activity of the water in each of said zones is thereby increased; and continuously passing fat, including said separated fatty component, from a lower zone into the next succeeding upper zone.

2,313,693

RECLAIMING NEOPRENE

Herbert A. Winkelmann, Chicago, Ill., assignor to Dryden Rubber Company, Chicago, Ill., a corporation of Illinois

No Drawing. Application March 31, 1941, Serial No. 386,117
2 Claims. (Cl. 260—36)

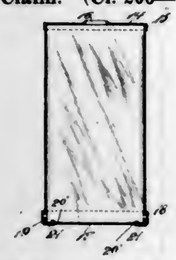
2. The process of reclaiming neoprene which comprises subjecting ground cured neoprene scrap containing magnesium oxide to the action of hot acid for sufficient time to react substantially all the magnesium oxide with the acid, washing the acid treated neoprene to remove acid and other water soluble material, drying the washed neoprene, mixing a plasticizer with said neoprene, and subjecting the mixture to steam under superatmospheric pressure.

2,313,694

DISPLAY BOX

John T. Wright, West Warren, Mass., assignor to The William E. Wright & Sons Company, a corporation of New Jersey

Application January 2, 1940, Serial No. 312,041
1 Claim. (Cl. 206—49)



A display package comprising a length of material to be displayed and having an irregular edge formation and wound in a single layer in a series of helical convolutions, one extending partially within the next succeeding one in telescoped relation, a tubular body of thin transparent sheet material open at both ends enveloping said coiled material and in contact therewith and provided at one of the marginal edges thereof with separate metal bendable fingers extending outwardly beyond the edge of said body at the said marginal edge and having a head portion thereof for securing the same to said body, a cap of opaque sheet material for closing the end of said body adjacent said marginal edge and having pairs of openings one of each pair at a location to register with said fingers and through which they pass, said fingers being bent over a portion of the outer bottom surface of said cap and then inwardly through the other opening of the said pairs of openings and bent to engage the inner bottom surface of said cap, said cap having a continuous flange embracing said body of a width to extend beyond and cover the head of said fingers to completely cover the same from view, and a cap for closing the other opening in said body fixedly secured to the marginal edges about the other opening and having a dispensing opening therein through which the material is to be withdrawn from the body.

2,313,695

PROCESS OF PREPARING AMINO-SULPHONIC ACIDS SUBSTITUTED IN THE AMINO GROUP BY ACYL RADICALS OF FATTY ACIDS

Shun-ichi Yamashita, Kamikyoku, Kyoto, and Tokuzo Yoshizaki, Asahiku, Osaka, Japan, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application June 20, 1939, Serial No. 280,058. In Japan June 10, 1937
6 Claims. (Cl. 260—401)

1. The process of producing a compound having the following formula:

$$C_{17}H_{33}CO.NH.CH_2.SO_3H$$

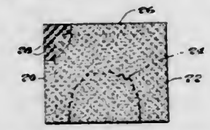
and its sodium salt, which process comprises condensing a mixture of oleic acid and a member selected from the group consisting of sodium formaldehyde bisulphite and formaldehyde bisulphite by heating the mixture to a temperature which evaporates the water formed by the condensation of the reagents and continuing the heating until the condensation is complete, the reaction being carried out at pressures not exceeding atmospheric and in the absence of diluents and catalysts.

2,313,696

TEA BAG AND METHOD OF MAKING THE SAME

John Yates, Quincy, Mass., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass., a corporation of Massachusetts

Application March 14, 1941, Serial No. 383,284
10 Claims. (Cl. 93—3)



1. A tea, coffee or similar bag comprising a container formed of a blank of bag forming material of porous structure and enclosing a quantity of the commodity, said blank being provided with spaced stripes of adhesive, the stripes upon one half section of the bag being disposed to extend in a different angular direction from the stripes of its opposing half section, said bag being sealed along its edges by the intersection of the stripes of adhesive on one half section with the stripes of adhesive on its opposing half section forming a continuous seal.

2,313,697

MOLDING COMPOSITION

John W. Juppenlatz, Easton, Pa., assignor to Treadwell Engineering Company, Easton, Pa., a corporation of Pennsylvania

No Drawing. Application September 7, 1939, Serial No. 293,852
10 Claims. (Cl. 22—188)

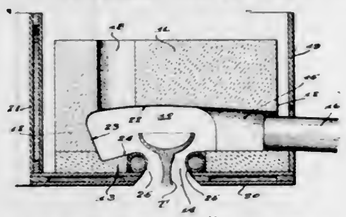
1. A sand-mold-forming composition for use in the preparation of molds for sand castings, comprising molding sand and an aqueous solution containing from 0.01% to 5.0% of a wetting agent.

2,313,698

REHEATING FURNACE

Harold R. Schutz, Toledo, Ohio, assignor to Libbey Glass Company, a corporation of Ohio

Application March 30, 1940, Serial No. 326,939
13 Claims. (Cl. 49—57)



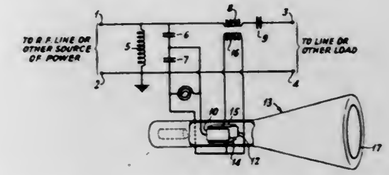
1. Apparatus of the character described comprising an arcuate combustion chamber having a coextensive longitudinal arcuate slot in its lower side to admit in inverted position the foot and stem portions of an article of glassware, means for artificially cooling the opposed walls of said slot, said chamber having a longitudinal series of upwardly opening exhaust ports spaced along one margin of the upper wall of the chamber, and means spaced along the opposite margin of said upper wall and below the latter for directing a combustible fuel mixture into and transverse to the width of said chamber.

2,313,699

POWER MEASURING DEVICE

Walter van B. Roberts, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application April 27, 1940, Serial No. 331,980
6 Claims. (Cl. 172—245)



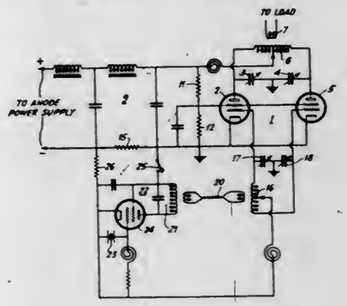
1. Means for indicating the flow of power from a source of power to a load comprising a filter section connected between said source and said load and including series inductance and shunt capacity elements, said elements being so chosen that the input impedance of said section is substantially the same as the impedance of said source and the output impedance of said section is substantially the same as the impedance of said load, connections from said shunt element to a pair of deflector plates of an oscilloscope and a pick-up coil coupled to said series inductance and connected to another pair of deflector plates of said oscilloscope.

2,313,700

TRANSMITTER

Walter van B. Roberts, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

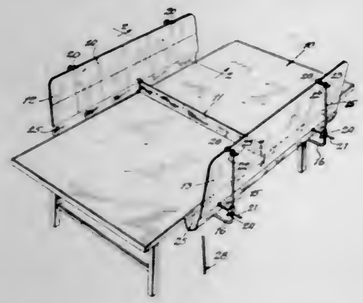
Application October 31, 1941, Serial No. 417,384
12 Claims. (Cl. 250—17)



1. In a high frequency system, an electron discharge device generator including an anode and a cathode, a thermionic discharge tube amplifier having electrodes coupled to said generator and having a gain control electrode and a cathode connected in a circuit including an impedance wherein a potential is developed which

biases said tube to such extent as to limit the dissipation at the anode to an allowable value and means for including said impedance between the anode and cathode of said generator device for suplying space current thereto and for lowering the bias on said gain control electrode.

2,313,701
GAME
Paul W. White, Waterbury, Conn., assignor to Parva Products Company, Chicago, Ill., a corporation of Delaware
Application February 24, 1941, Serial No. 380,201
13 Claims. (Cl. 273—30)



10. The combination with a game table having a substantially horizontally extending playing surface and a net extending transversely thereof defining fields of play for simultaneous competition between a plurality of players using a single bounding ball, of upright stiff deflector walls of substantially greater height than said net extending lengthwise of said table on opposed sides thereof for causing rebounding of balls impinging thereon, said deflector walls extending at least a major portion of the length of said table substantially equally on each side of said transversely extending net, and means supporting said walls in spaced relation outwardly from the edges of said table.

2,313,702
APPARATUS FOR SPLITTING, SPREADING, AND FLATTENING PIPE
Alexander C. Allen, Monroe, Mich., assignor of one-half to Nathan Brachman, Detroit, Mich.
Application February 5, 1942, Serial No. 429,628
11 Claims. (Cl. 29—17)



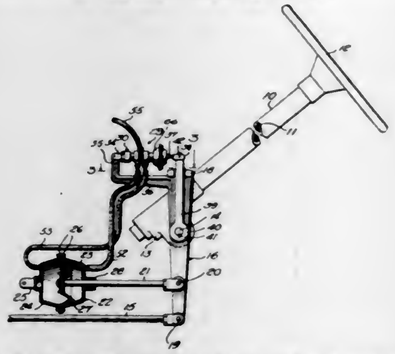
1. Apparatus for producing sheets or strips of stock from pipe comprised of operable pipe translating means onto which said pipe is adapted to be supported, means disposed above said operable means adapted to exert a downward pressure on said pipe, rotatable cutting means adjacent said operable means for longitudinally slitting said pipe, a wedge shaped anvil over which said pipe is adapted to be translated for spreading the same into a substantially flat strip of stock, and operating means above said anvil adapted to hold said pipe against the top surface thereof as it progresses over the same.

2,313,703
RUBBER GOODS
Ezra Lloyd Hanna, North Scituate, R. I., assignor to Davol Rubber Company, a corporation of Rhode Island
Original application January 2, 1937, Serial No. 118,829. Divided and this application September 15, 1941, Serial No. 410,845
3 Claims. (Cl. 117—139)



2. A rubber tube having a smooth, glassy inner surface having absorbed therein zinc stearate during curing.

2,313,704
POWER STEERING MECHANISM
Henry W. Hey, Richmond, Va., assignor to Automatic Shifters, Inc., Richmond, Va., a corporation of Virginia
Application October 1, 1941, Serial No. 413,220
15 Claims. (Cl. 180—79.2)

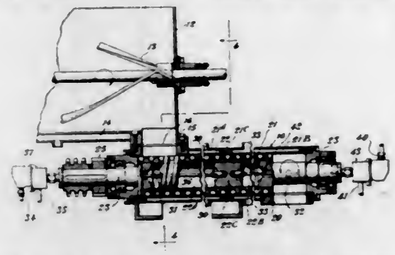


1. A power steering mechanism for a motor vehicle having a steering wheel and a steering connection, comprising a motor connected to said steering connection, a follow-up control mechanism for said motor comprising a pair of relatively movable elements one of which is manually operable by the steering wheel and the other of which has mechanical connection with said steering connection, and means automatically operative upon a motor-energizing relative movement of said elements for generating a force tending to oppose such relative movement of said pair of elements.

2,313,705
CHOCOLATE TEMPERING APPARATUS
George Jack, Rochelle Park, N. J., assignor to J. M. Lehmann Company, Inc., New York, N. Y., a corporation of New York
Application May 28, 1941, Serial No. 395,632
6 Claims. (Cl. 99—236)

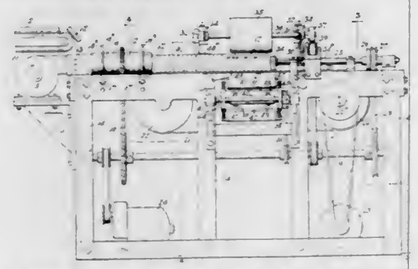
1. Apparatus for tempering chocolate, comprising in combination, a casing having connecting bores and end walls forming a plural-cylinder chamber, a plurality of spiral worm rotors fitting very closely in sealing relationship with but not in contact with the inner walls and ends of said casing to continuously scrape substantially all material therefrom, said rotors also having a very close but non-contacting sealing fit with each other at their meshing line to keep material in each convolution separate from that in each

other convolution and positively move the material along while circulating it in the rotor grooves, said casing being jacketed over substantially its entire circumference and said rotors



being cored for heat exchange fluid, means for circulating heat exchange fluid in the casing and rotors, and means for feeding fluent material laterally into the intake space between said rotors at one end.

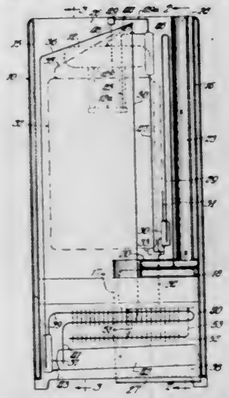
2,313,706
ARTICLE ASSEMBLING AND FEEDING MACHINE
Lively B. Willoughby, Louisville, Ky., assignor to Ballard & Ballard Company, Incorporated, Louisville, Ky., a corporation of Kentucky
Application August 12, 1940, Serial No. 352,341
10 Claims. (Cl. 198—21)



1. A machine for supplying packageable groups of articles in stacked relationship comprising, in combination, a traveling carrier for supporting and feeding a column of said articles set on edge in such relationship, a rotated roller under which the forwardly conveyed column of articles is brought at a predetermined point in its advance, and means contacted by the forward end of the column at said point and operating under the pressure thereof to control the swinging of said rotated roller into downward contact with a predetermined plurality of the articles at the forward end of the column so as to force them in stacked group sidewise off the traveling carrier.

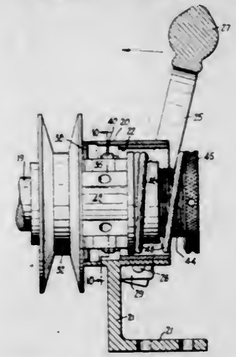
2,313,707
ABSORPTION REFRIGERATOR
John Lithgow and Leslie K. Jackson, Cleveland, Ohio, assignors to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application August 15, 1939, Serial No. 290,314
22 Claims. (Cl. 62—118)

20. In a refrigerator of the intermittent absorption type including a cabinet provided with a refrigeration space in the forward upper portion thereof, an evaporator in the refrigeration space, a still-absorber, an air cooled dehydrator, and an air cooled condenser operatively connected to said evaporator, a flue in said cabinet extending substantially from top to bottom thereof, said flue being open at the top and bottom for a circulation of air therethrough and having a widened portion positioned at least in part below said refrigeration space, and a relatively long narrow portion positioned to the rear of said space, said widened portion housing said condenser, said dehydrator having a relatively



narrow cross section and being housed in the narrow portion of said flue and substantially conforming in width to the width of said flue so that air passing through the condenser and warmed thereby will flow through the dehydrator and the flow of said air will be induced by the heat given off by the dehydrator, and a second independent flue having an inlet and outlet housing said still-absorber.

2,313,708
OVERLOAD CLUTCH
George A. Waller, Mount Vernon, N. Y.
Application March 6, 1942, Serial No. 433,647
2 Claims. (Cl. 192—56)



1. An overload release clutch comprising in combination with a driving shaft, and a pulley rotatable thereon, a plurality of angular recesses in the side of said pulley adjacent its bore, a pair of oppositely disposed pawls egageable in said recesses, a block driven by said shaft on which said pawls are pivotally mounted, a spring pressed flange against which said pawls abut at their outer ends, an adjustable spring to press said flange against the pawls, said spring yielding under abnormal pressure to release the pawls, and means to reset the pawls after displacement.

2,313,709
FISHING BAIT OR LURE
Milton S. Dunkelberger, Dayton, Ohio, assignor to The American Display Company, Dayton, Ohio, a corporation of Ohio
Application January 17, 1941, Serial No. 374,933
17 Claims. (Cl. 43—46)



1. In a fishing lure of the class described, in combination, a body member, a guiding fin member pivotally mounted thereon for pivotal movement to different guiding positions, and fastening means on the body engageable with the fin to secure it against pivotal movement in one of said guiding positions, said fin being pivotal to another of said positions upon disengagement of said means from association with said edge of said fin.

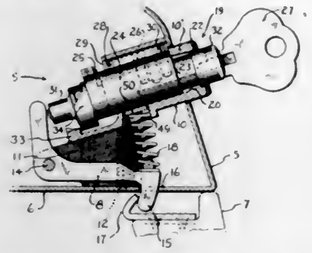
2,313,710
SCREW DRIVER
James H. Gemmell, Oakland, Calif.
Application July 30, 1940, Serial No. 348,392
3 Claims. (Cl. 145—50)



1. A screw driver of the screw-engaging type comprising a tubular handle and a blade assembly mounted for telescoping movement within the handle, said blade assembly including a pair of opposite bit sections formed to provide complemental inter-engaging portions to facilitate assembly in the desired relative positions and a rod for engagement by said portions, circumferential ears and opposed recesses on said bit sections, said ears having their ends formed inwardly from their general curvature, recess means on said rod for engagement by said inwardly formed ends, and cam means carried by said handle and extending between said bit sections to engage cam portions thereof upon movement of said blade assembly within said handle and cause expansion of said bit sections into holding engagement with a screw.

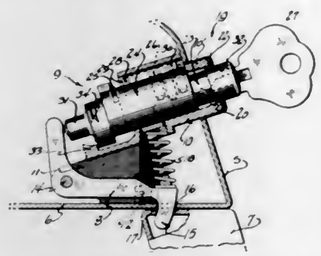
2,313,711
COMPARTMENT DOOR LATCH
Edward N. Jacobi, Milwaukee, Wis., assignor to Briggs & Stratton Corporation, Milwaukee, Wis., a corporation of Delaware
Application August 3, 1940, Serial No. 350,499
15 Claims. (Cl. 70—145)

1. In a lock device of the character described: a supporting body having a bore; a latch bolt pivotally carried by the body with a part thereof in line with the bore; a cylinder casing slidable in the bore; a lock cylinder rotatable in the casing; key operable means carried by the casing and cylinder for securing the cylinder against rotation except upon the insertion of a proper key into the keyway of the cylinder; an abutment on the body between the inner end of its bore and the latch bolt part which projects into alignment with the bore; a cam encircling the



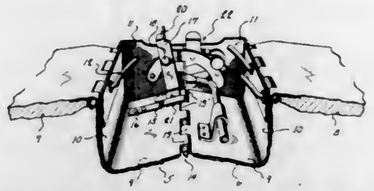
inner end of the cylinder beyond the inner end of the casing, said cam being engageable with the stationary abutment in one position of rotation to block inward latch bolt retracting motion of the cylinder and being shaped to clear the stationary abutment in another position of rotation; and a lost motion driving connection between the cylinder and the cam whereby a full turn of the cylinder in one direction carries the cam from one position to the other and a full turn of the cylinder in the other direction returns the cam to its initial position.

2,313,712
COMPARTMENT DOOR LATCH
Edward N. Jacobi, Milwaukee, Wis., assignor to Briggs & Stratton Corporation, Milwaukee, Wis., a corporation of Delaware
Original application August 3, 1940, Serial No. 350,499. Divided and this application February 12, 1942, Serial No. 430,542
7 Claims. (Cl. 70—451)



1. In a compartment door lock to be mounted on the door frame of a compartment: a lock body having an extension on its front end; a bezel ring on said extension, said bezel covered extension being positionable in a hole in the face of the door frame; a base portion on the lock body having a surface engageable with the inner face of a supporting wall disposed at an angle to the face of the frame but behind the frame; and a screw for passage through said supporting wall tapped into said base portion to hold the same to the supporting wall and cooperable with the engagement of the bezel covered extension in the hole in the face of the door frame to mount the lock.

2,313,713
LOOSE-LEAF BINDER
Adolph G. Lotter, Milwaukee, Wis., assignor to Stationers Loose Leaf Company, Milwaukee, Wis., a corporation of Wisconsin
Application August 14, 1939, Serial No. 290,112
2 Claims. (Cl. 129—17)



1. In a loose-leaf binder: complementary sections having edgewise adjacent walls; hinge loops on the adjacent edges of the walls; a hinge pin in said loops to hingedly connect the sections; said loops being shorter than the spaces therebetween so that the sections have a limited degree of relative longitudinal motion; a substantially flat spring strip secured to the inner face of one of said edgewise adjacent walls with a free end portion thereof positioned to project into the space between two adjacent hinge loops to hold the sections against relative longitudinal motion; and a medially pivoted releasing lever having a part positioned under the free end portion of the spring strip to lift the same against its inherent resiliency and out of said space between the hinge loops upon rocking of the releasing lever on its pivot.

2,313,714
HOLDING FORK FOR CITRUS FRUITS
Ralph Polk, Sr., Miami, and Ralph Polk, Jr., Tampa, Fla., assignors to The Polk Development Company, Tampa, Fla., a copartnership composed of Ralph Polk, Sr., and Ralph Polk, Jr.
Original application June 7, 1939, Serial No. 277,848. Divided and this application March 20, 1942, Serial No. 435,518
2 Claims. (Cl. 146—3)



1. A holding fork for whole peeled citrus fruits comprising, a plurality of pairs of parallel, thin narrow, blunt-edged blades arranged by circumferentially-spaced radial pairs in a circular series, the radial positions of said blades slightly exceeding the radial positions of the vertices of the segments of the fruit to be treated, and the blades of each pair being closely adjacent and the pairs circumferentially spaced to approximate segment arrangement of the fruit to be treated, the arrangement of the blades being such that the major number of pairs of blades, when projected polarwise into a fruit, may respectively straddle two adherent radial integuments of adjacent fruit segments close to the apices thereof.

DESIGNS

MARCH 9, 1943

135,182
DESIGN FOR AN EMBROIDERED TRIMMING
John Goldfrank, New York, N. Y.
Original application January 6, 1943, Serial No. 109,212. Divided and this application January 30, 1943, Serial No. 109,385.
Term of patent 3½ years



The ornamental design for an embroidered trimming, substantially as shown.

135,183
DESIGN FOR AN EMBROIDERED TRIMMING
John Goldfrank, New York, N. Y.
Application January 6, 1943, Serial No. 109,212
Term of patent 3½ years



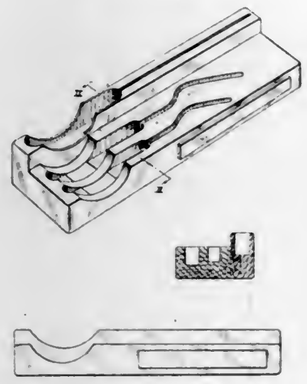
The ornamental design for an embroidered trimming, substantially as shown.

135,184
DESIGN FOR A DRESS
Lee Clarke Hawxhurst, New York, N. Y.
Application February 1, 1943, Serial No. 109,399
Term of patent 3½ years



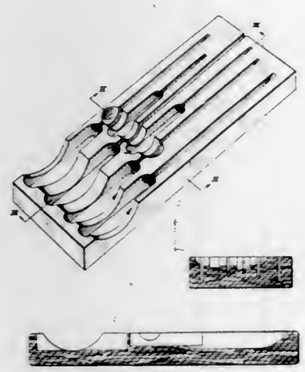
The ornamental design for a dress, substantially as shown.

135,185
DESIGN FOR A CUTLERY HOLDER OR SIMILAR ARTICLE
Arthur P. Miller, New Kensington, Pa.
Application December 24, 1942, Serial No. 109,125
Term of patent 14 years



The ornamental design for a cutlery holder or similar article, substantially as shown.

135,186
DESIGN FOR A CUTLERY HOLDER OR SIMILAR ARTICLE
Arthur P. Miller, New Kensington, Pa.
Application December 24, 1942, Serial No. 109,126
Term of patent 14 years



The ornamental design for a cutlery holder or similar article, substantially as shown.

135,187
DESIGN FOR A TABLE SCARF OR SIMILAR ARTICLE
Ruth C. Oppenheim, New York, N. Y.
Application January 20, 1943, Serial No. 109,296
Term of patent 3½ years



The ornamental design for a table scarf or similar article, as shown.

135,188
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Alfred Philippe, Cranston, R. I.
Application February 3, 1943, Serial No. 109,422
Term of patent 3½ years



The ornamental design for a brooch or similar article, substantially as shown.

135,189
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Alfred Philippe, Cranston, R. I.
Application February 3, 1943, Serial No. 109,429
Term of patent 3½ years



The ornamental design for a brooch or similar article, substantially as shown.

135,190
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Alfred Philippe, Cranston, R. I.
Application February 3, 1943, Serial No. 109,432
Term of patent 3½ years



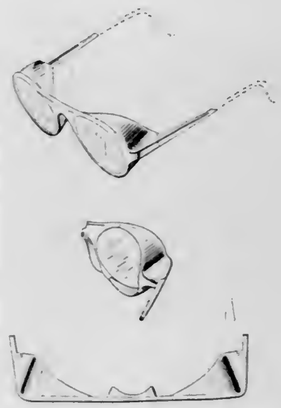
The ornamental design for a brooch or similar article, substantially as shown.

135,191
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Alfred Philippe, Cranston, R. I.
Application February 3, 1943, Serial No. 109,433
Term of patent 3½ years



The ornamental design for a brooch or similar article, substantially as shown.

135,192
DESIGN FOR A GOGGLE
Lawrence A. Severy, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application December 31, 1942, Serial No. 109,173
Term of patent 14 years



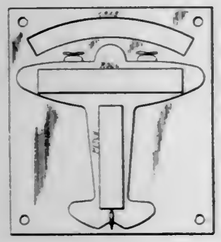
The ornamental design for a goggle, substantially as shown and described.

135,193
DESIGN FOR A SHOE
Harry Le Roy Sutcliffe, New York, N. Y.
Application July 10, 1942, Serial No. 107,474
Term of patent 3½ years



The ornamental design for a shoe, substantially as shown and described.

135,194
DESIGN FOR A FACEPLATE FOR A LEVELING INSTRUMENT
Samuel Aronoff, Dayton, Ohio
Application February 21, 1941, Serial No. 99,150
Term of patent 3½ years



The ornamental design for a face plate for a leveling instrument, as shown and described.

135,195
DESIGN FOR A BED URINAL
William Bal, Newark, and John T. Simpson, Fair Haven, N. J.
Application December 19, 1942, Serial No. 109,068
Term of patent 14 years



The ornamental design for a bed urinal, as shown.

135,196
DESIGN FOR A HANDKERCHIEF OR SIMILAR ARTICLE
Thomas J. Brown, West Medford, Mass., assignor to David Thomas, Inc., Boston, Mass., a corporation of Massachusetts
Application December 21, 1942, Serial No. 109,079
Term of patent 7 years



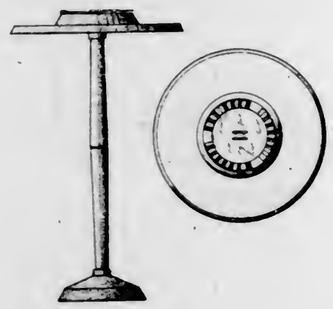
The ornamental design for a handkerchief or similar article, substantially as shown and described.

135,197
DESIGN FOR A HANDBAG
David C. Everitt, Milwaukee, Wis.
Application October 15, 1942, Serial No. 108,530
Term of patent 3½ years



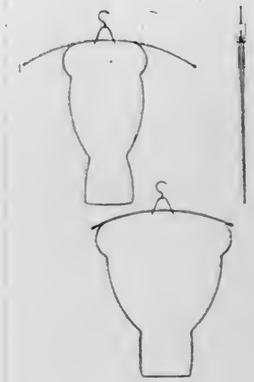
The ornamental design for a handbag, substantially as shown.

135,198
DESIGN FOR A SMOKING STAND
Maurice J. Fletcher, Des Moines, Iowa, assignor to Cadet Smokestands Company, Des Moines, Iowa
Application May 9, 1942, Serial No. 106,946
Term of patent 14 years



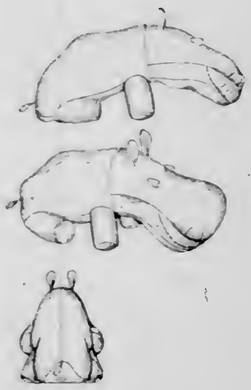
The ornamental design for a smoking stand, substantially as shown.

135,199
DESIGN FOR A SWEATER DRIER
Donald C. Grant, Los Angeles, Calif.
Application May 28, 1942, Serial No. 107,034
Term of patent 14 years



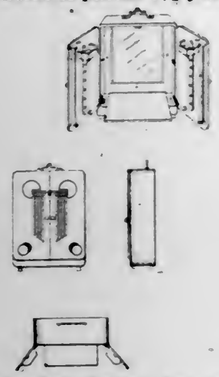
The ornamental design for a sweater drier, as shown and described.

135,200
DESIGN FOR A TOY ANIMAL
Katharine R. Geis, Anne Arundel County, Md.
Application January 25, 1943, Serial No. 109,339
Term of patent 7 years



The ornamental design for a toy animal, substantially as shown.

135,201
DESIGN FOR AN ILLUMINABLE MAKE-UP CABINET
Martin J. Grady, Decatur, Ill.
Application July 22, 1941, Serial No. 102,372
Term of patent 3½ years



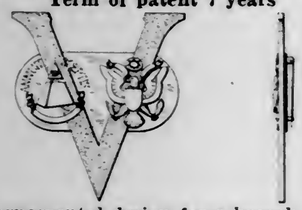
The ornamental design for an illuminable make-up cabinet, as shown.

135,202
DESIGN FOR A WATER STILL
Walter Van Guilder, River Forest, Ill., assignor to Precision Scientific Co., Chicago, Ill., a corporation of Illinois
Application December 18, 1942, Serial No. 109,063
Term of patent 3½ years



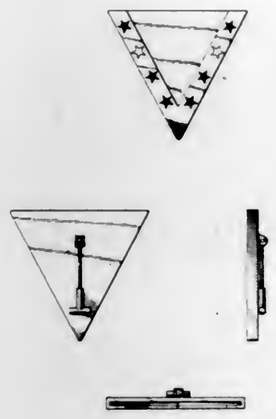
The ornamental design for a water still, substantially as shown.

135,203
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Bertha J. Hansen, Rutherford, N. J.
Application June 18, 1942, Serial No. 107,231
Term of patent 7 years



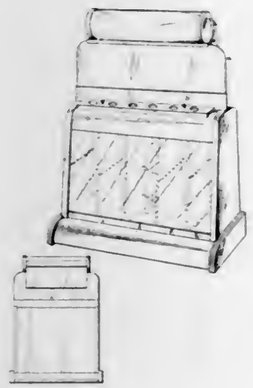
The ornamental design for a brooch or similar article, as shown.

135,204
DESIGN FOR A LAPEL PICTURE FRAME OR SIMILAR ARTICLE
Irving Hordes, Yonkers, N. Y.
Application June 23, 1942, Serial No. 107,318
Term of patent 3½ years



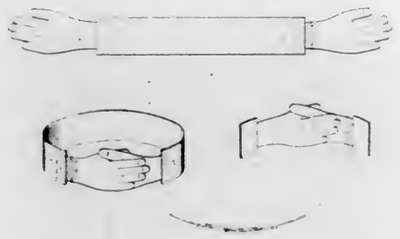
The ornamental design for a lapel picture frame or similar article, substantially as shown.

135,205
DESIGN FOR A DISPLAY STAND
David A. McCowan, Toronto, Ontario, Canada
Application May 21, 1941, Serial No. 101,054
Term of patent 14 years



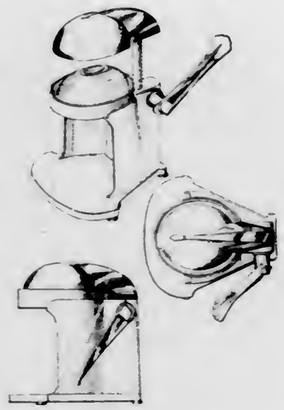
The ornamental design for a display stand, as shown.

135,206
DESIGN FOR A LADY'S BELT OR SIMILAR ARTICLE
Eirane Mynors, Washington, D. C., assignor to Stelzer Brothers, Inc., a corporation of New York
Application January 16, 1943, Serial No. 109,277
Term of patent 7 years



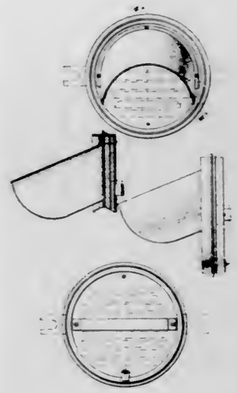
The ornamental design for a lady's belt or similar article, as shown and described.

135,207
DESIGN FOR A FRUIT JUICE EXTRACTOR
Clifford M. Payne and Joseph M. Majewski, Jr., Kansas City, Mo., assignors to Foster L. Talge, Kansas City, Mo., doing business as Rival Manufacturing Company
Application July 9, 1941, Serial No. 101,996
Term of patent 14 years



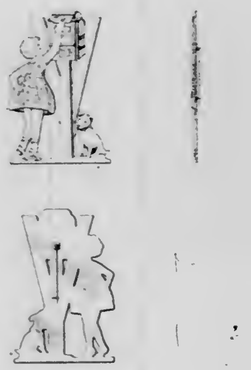
The ornamental design for a fruit juice extractor, as shown.

135,208
DESIGN FOR A CASEMENT FOR PORTHOLES OR THE LIKE
Robert W. Rowland, Newark, N. J.
Application November 10, 1942, Serial No. 108,741
Term of patent 14 years



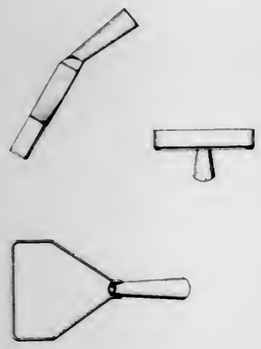
The ornamental design for a casement for portholes or the like, as shown and described.

135,209
DESIGN FOR A PLAQUE
Abraham Shirlin, Los Angeles, Calif.
Application June 1, 1942, Serial No. 107,063
Term of patent 3½ years



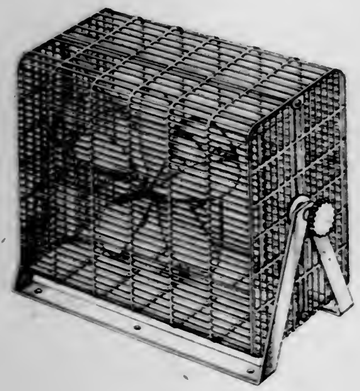
The ornamental design for a plaque, substantially as shown.

135,210
DESIGN FOR A WEEDER HEAD
Ernest P. Sokolis, Springfield, Ill.
Application September 24, 1942, Serial No. 108,332
Term of patent 7 years



The ornamental design for a weeder head, as shown.

135,211
DESIGN FOR AN AIR CIRCULATOR
Max Weber, Chicago, Ill.
Application September 21, 1942, Serial No. 108,289
Term of patent 14 years



The ornamental design for an air circulator, substantially as shown.

135,212
DESIGN FOR A STUFFED DOLL OR SIMILAR ARTICLE
Joseph Weiss, New York, N. Y.
Application January 1, 1943, Serial No. 109,186
Term of patent 7 years



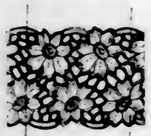
The ornamental design for a stuffed doll or similar article substantially as shown.

135,213
DESIGN FOR A CHRISTMAS WREATH AND THE LIKE
Charles S. Price, Hollis, N. Y.
Application January 30, 1942, Serial No. 105,525
Term of patent 14 years



The ornamental design for a Christmas wreath and the like, substantially as shown and described.

135,214
DESIGN FOR AN EMBROIDERED LACE
Jack Wiener, New York, N. Y.
Application February 10, 1943, Serial No. 109,521
Term of patent 3½ years



The ornamental design for an embroidered lace, substantially as shown and described.

135,215
DESIGN FOR A POWER UNIT CABINET FOR ETCHING TOOL
Clinton J. Patche, Maplewood, N. J., assignor to Brewster-Squires Company, New York, N. Y., a partnership comprising J. W. Brewster and F. B. Squires
Application June 5, 1942, Serial No. 107,135
Term of patent 14 years



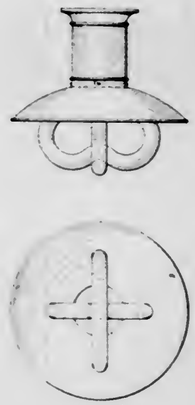
The ornamental design for a power unit cabinet for etching tool, as shown and described.

135,216
DESIGN FOR A POWER UNIT CABINET FOR ETCHING TOOL
Clinton J. Patche, Maplewood, N. J., assignor to Brewster-Squires Company, New York, N. Y., a partnership comprising J. W. Brewster and F. B. Squires
Application June 5, 1942, Serial No. 107,136
Term of patent 14 years



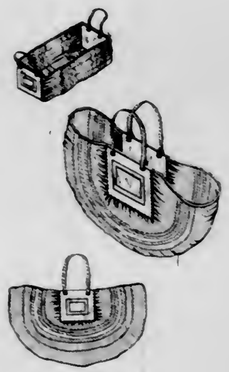
The ornamental design for a power unit cabinet for etching tool, as shown and described.

135,217
DESIGN FOR A FLUORESCENT ELECTRIC LIGHT FIXTURE
James G. Clark, Newark, N. J.
Application January 6, 1943, Serial No. 109,205
Term of patent 14 years



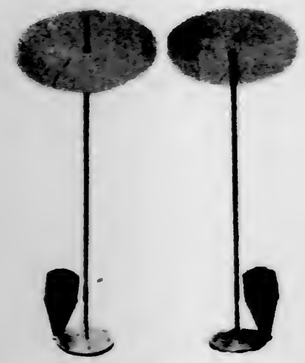
The ornamental design for a fluorescent electric light fixture, as shown.

135,218
DESIGN FOR A CARRYING BAG
William L. M. Clark, St. Louis, Mo., assignor to W. L. M. Clark, Inc., St. Louis, Mo., a corporation of Missouri
Application October 12, 1942, Serial No. 108,506
Term of patent 14 years



The ornamental design for a carrying bag, substantially as shown.

135,219
DESIGN FOR A LAMP
Livingstone H. Elder, New York, N. Y.
Application May 23, 1942, Serial No. 106,979
Term of patent 7 years



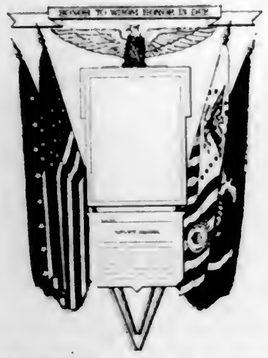
The ornamental design for a lamp, as shown.

135,220
DESIGN FOR A CONTAINER FOR COLOGNE BOTTLE OR SIMILAR ARTICLE
John D. Buckingham, Chicago, Ill., assignor to Lucien Lelong, Inc., Chicago, Ill., a corporation of Illinois
Application December 4, 1940, Serial No. 97,061
Term of patent 14 years



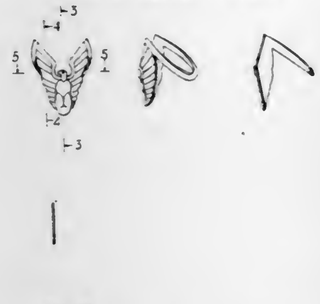
The ornamental design for a container for cologne bottle or similar article, as shown.

135,221
DESIGN FOR A SERVICE PLAQUE
Carl W. Hellberg, Chicago, Ill.
Application December 16, 1942, Serial No. 109,051
Term of patent 7 years



The ornamental design for a service plaque, substantially as shown.

135,222
DESIGN FOR A FINGER RING
Anthony Parisi, Brooklyn, N. Y.
Application January 26, 1943, Serial No. 109,347
Term of patent 7 years



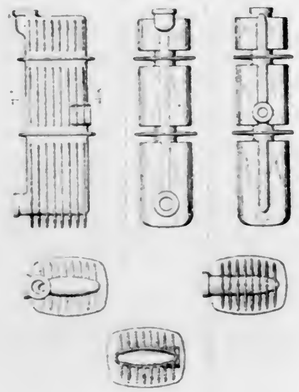
The ornamental design for a finger ring, substantially as shown.

135,223
DESIGN FOR A RING
Joseph Simmons, Cincinnati, Ohio
Application December 7, 1942, Serial No. 108,960
Term of patent 7 years



The ornamental design for a ring, substantially as shown.

135,224
DESIGN FOR A WATER HEATER
Richard J. Wolf and John G. Dunville, Chicago, Ill., assignors to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application January 8, 1943, Serial No. 109,220
Term of patent 14 years



The ornamental design for a water heater, substantially as shown.

135,225
DESIGN FOR A FLASHLIGHT OR SIMILAR ARTICLE
Lynn Brodton, Collingswood, N. J., assignor to Flashlight Company of America, Jersey City, N. J.
Application April 28, 1941, Serial No. 100,661
Term of patent 14 years



The ornamental design for a flashlight, or similar article, as shown.

135,226
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application November 2, 1942, Serial No. 108,668
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

135,227
DESIGN FOR A FIGURINE OR SIMILAR ARTICLE
Ernest C. Collopy and Carl J. Collopy, New Bedford, Mass.
Application March 12, 1942, Serial No. 106,174
Term of patent 3½ years



The ornamental design for a figurine or similar article, as shown and described.

135,228
DESIGN FOR A TOILET SEAT HINGE
Martin V. Slager, Grand Rapids, Mich.
Application April 15, 1942, Serial No. 106,577
Term of patent 7 years



The ornamental design for a toilet seat hinge, as shown.

135,229
DESIGN FOR A DRESS
J. Leah Asteroff, New York, N. Y.
Application February 4, 1943, Serial No. 109,463
Term of patent 3½ years



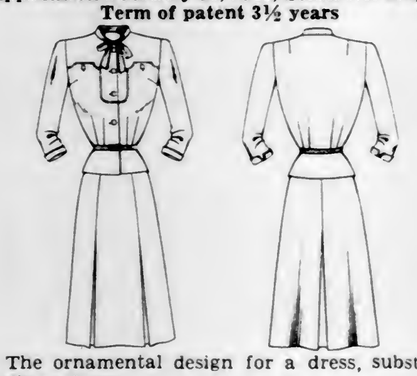
The ornamental design for a dress, substantially as shown.

135,230
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application February 15, 1943, Serial No. 109,538
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

135,231
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application February 15, 1943, Serial No. 109,539
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

135,232
DESIGN FOR A HAT
Bernhard J. Goldenberg, Cedarhurst, N. Y.
Application February 11, 1942, Serial No. 105,767
Term of patent 3½ years



The ornamental design for a hat, substantially as shown, and described.

135,233
DESIGN FOR A DRESS
Barbara Moye, New York, N. Y.
Application February 15, 1943, Serial No. 109,540
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

135,234
DESIGN FOR A DRESS
Samuel Zahn, New York, N. Y.
Application February 15, 1943, Serial No. 109,541
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

135,235
DESIGN FOR A JACKET
Samuel Zahn, New York, N. Y.
Application February 15, 1943, Serial No. 109,542
Term of patent 3½ years



The ornamental design for a jacket, substantially as shown.

135,236
DESIGN FOR A COMBINED BOTTLE, CLOSURE CAP, AND APPLICATOR
James L. Younghusband, Chicago, Ill.
Application March 22, 1940, Serial No. 91,149
Term of patent 14 years



The ornamental design for a combined bottle, closure cap, and applicator, substantially as shown and described.

THE

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CONTENTS

	Page
Issue of March 16, 1943	411
Disclaimers	411
Adjudicated Patents	411
Drawings	411
Applications Under Examination	412
Decisions of the U. S. Courts—	
In re Swenson et al	413
Changes in Classification	416
Trade-Marks Published (109 Applications)	419
Trade-Mark Registrations Granted	431
Trade-Mark Registrations Renewed	435
Reissues	439
Plant Patents	440
Patents Granted	441
Designs	587

March 16, 1943

Trade-Marks	81	No. 400,499 to No.	400,579, inclusive.
T. M. Renewals	75		
Reissues	3	No. 22,288 to No.	22,290, inclusive.
Plant Patents	2	No. 573 to No.	574, inclusive.
Patents	607	No. 2,313,715 to No.	2,314,321, inclusive.
Designs	36	No. 135,237 to No.	135,272, inclusive.
Total	804		

Disclaimers

2,049,535.—*Raymond C. Benner, Henry P. Kirchner,* and *Romie L. Melton,* Niagara Falls, N. Y. Method and Apparatus for Making Granular Coated Webs. Patent dated August 4, 1936. Disclaimer filed February 11, 1943, by the assignee, *The Carborundum Company.*

Hereby disclaims claim 1 of said patent.

2,116,732.—*Austin R. Noll,* New York, N. Y. Coding and Decoding Machine. Patent dated May 10, 1938. Disclaimer filed February 24, 1943, by the assignee, *International Business Machines Corporation.*

Hereby enters this disclaimer to claims 3, 8, and 12 in said specification.

2,116,733.—*Austin R. Noll,* New York, N. Y. Coding and Decoding Machine. Patent dated May 10, 1938. Disclaimer filed February 24, 1943, by the assignee, *International Business Machines Corporation.*

Hereby enters this disclaimer to claims 1, 4, 6, 7, 8, and 9 in said specification.

2,256,755.—*Harold Winograd,* Milwaukee, Wis. Electric Valve Control System. Patent dated September 23, 1941. Disclaimer filed February 19, 1943, by the assignee, *Allis-Chalmers Manufacturing Company.*

Hereby enters this disclaimer to claims 8, 11, 13 and 17 in said specification.

2,286,609.—*Joseph Ledwinka,* Philadelphia, Pa. Wheel Suspension for Vehicles. Patent dated June 16, 1942. Disclaimer filed February 13, 1943, by the assignee, *Edward G. Budd Manufacturing Company.*

Hereby enters this disclaimer to claim 2 of said patent.

Adjudicated Patents

(C. C. A. Ohio.) Brintzenhofe patent, No. 1,510,300, for swivel caster, *Held* infringed. *Green* v. *Electric Vacuum Cleaner Co.,* 132 F.(2d) 312.

(C. C. A. Ohio.) Darst patent, No. 1,755,054, for vacuum-cleaner-brush bearing, *Held* infringed. *Id.*

Drawings

Rule 38

38. When there are drawings, the description will refer to the different views by figures and to the different parts by letters or numerals (preferably the latter).

Rule 52—Extract

(*f*) The different views should be consecutively numbered. Letters and figures of reference must be carefully formed. They should, if possible, measure at least one-eighth of an inch in height, so that they may bear reduction to one twenty-fourth of an inch; and they may be much larger when there is sufficient room. They must be so placed in the closed and complex parts of drawings as not to interfere with a thorough comprehension of the same, and therefore should rarely cross or mingle with the lines. When necessarily grouped around a certain part, they should be placed at a little distance, where there is available space, and connected by short lines with the parts to which they refer and by short broken lines when the number or letters refer to parts shown in dotted lines. They should not be placed upon shaded surfaces, and when it is difficult to avoid this, a blank space must be left in the shading where the letter occurs, so that it shall appear perfectly distinct and separate from the work. If the same part of an invention appears in more than one view of the drawing it must always be represented by the same character, and the same character must never be used to designate different parts.

It is suggested that numerals or letters be used without exponents.

Conditions of Applications Under Examination at Close of Business February 27, 1943

(Total number of applications awaiting action, excluding Trade-Mark Division, 40,476; Trade-Mark Division, 880. Oldest new case, Apr. 13, 1942; oldest amended, Apr. 10, 1942.)
(The dates given are 1942 except where † indicates 1943)

Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action		No. of applications awaiting action
	New	Amended	
1. TUCKER, M. W., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Domestic Cooking Vessels; Sewerage.	Sept. 17	Oct. 23	383
2. HERRMANN, D., Fishing and Trapping; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering.	Oct. 23	Oct. 2	249
3. WOLFFE, S., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	May 2	May 1	990
4. BISHOP, WALTER G., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting.	Sept. 16	Sept. 17	422
5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps.	July 11	July 2	544
6. GENIESSE, E. W., Carbon Chemistry (part)	May 30	June 4	1042
7. JARBOE, C. G., Optics, Photography	July 2	July 3	1009
8. ADAMS, F. L., Furniture; Kitchen and Table Articles; Racks and Cabinets	Aug. 10	Aug. 12	646
9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	Aug. 26	Aug. 20	712
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Sept. 25	Sept. 17	388
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Stop Mechanisms	Sept. 9	Sept. 12	344
13. DONNELLY, A. E., Metal Working (part); Gear Cutting, Milling and Planing; Needle and Pin Making	Aug. 8	Aug. 24	662
14. HANLIN, GEORGE, Metal Working (part); Farriery; Wire Fabrics	Nov. 2	Oct. 27	398
15. HENKIN, BENJ., Glass, Plastic Block and Earthenware Apparatus; Plastics	June 27	July 10	676
16. SPENCER, C. J., Telegraphy; Telephony	July 9	July 9	678
17. HABECKER, LEON B., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	May 12	May 27	734
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	July 8	July 21	586
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	June 12	June 10	684
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part).	Aug. 5	Aug. 4	450
21. THOMPSON, T. J., Textiles	Sept. 18	Sept. 4	321
22. RINGLE, D., Aeronautics; Firearms; Ordnance and Explosive Devices	May 22	May 23	1650
23. BARROWS, B., Cash Registers; Calculators (part)	Aug. 20	Oct. 2	130
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	Sept. 17	Sept. 14	632
25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	July 22	July 21	571
26. YOUNG, R. R., Electricity—Generation and Motive Power	July 24	July 24	500
27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus.	Aug. 15	June 26	638
28. SOLYOM, H. L., Internal-Combustion Engines (part); Cylinders and Pistons	June 22	May 11	542
29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Package and Article Carriers; Woodworking; Tools; Metal Working, Assembling.	Nov. 3	Nov. 11	350
30. McCANN, LEO P., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Nov. 4	Oct. 23	333
31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils	Sept. 4	Sept. 4	1336
32. LESH, K., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	Aug. 15	Aug. 22	643
33. HULL, J. S., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements	Oct. 5	Oct. 3	581
34. SAPERSTEIN, S., Electricity—Meters and Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators.	Sept. 5	Sept. 2	349
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles	Aug. 29	Aug. 27	682
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	Sept. 23	Sept. 17	413
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Oct. 22	Sept. 23	503
38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part)	Aug. 5	Sept. 1	667
39. WHITNEY, F. L., Fluid-Pressure Regulators; Valves; Water Distribution	Nov. 28	Nov. 30	332
40. DRUMMOND, E. J., Receptacles	Oct. 8	Oct. 8	428
41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles; Counters and Calculators (part); Typewriting Machines; Check-Controlled Apparatus.	Aug. 29	Aug. 19	423
42. MARANS, H., Electric Signaling	Sept. 30	Sept. 14	319
43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Azo Compounds.	Apr. 13	Apr. 10	977
44 HARVEY, L. P., Refrigeration	June 19	June 22	375
45. HILL, H. D., Shafting and Flexible Shaft Couplings; Wheels and Axles; Resilient Tires and Wheels; Lubrication; Bearings and Guides; Motors; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part).	Aug. 26	Sept. 1	741
46 BLEECKER, V. E., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Heating Systems; Coating Apparatus.	June 18	June 18	476
47. KANOF, WM. J., Clutches and Power Stops; Brakes; Boring and Drilling; Land Vehicles (part)	Aug. 11	Aug. 13	960
48. ROEPKE, O. B., Electricity, General Applications; Igniters	Apr. 15	Apr. 18	743
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	Sept. 1	Aug. 19	607
50. LEVIN, SAMUEL, Resins; Rubber; Carbohydrates and Derivatives	Aug. 1	Aug. 1	1212
51. BACKUS, C. D., Radiant Energy	Aug. 18	Aug. 13	865
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits.	July 8	July 30	603
53. PECK, M. K., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Curtains, Shades and Screens; Cutlery.	Sept. 30	Oct. 5	197
54. STRACHAN, O. W., Electric Lamp and Discharge Devices (part)	Aug. 1	Aug. 4	452
55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery	July 11	June 12	708
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Laminated Fabrics (part); Paper Making	Aug. 3	July 31	809
57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Aug. 18	Sept. 11	341
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working	Oct. 15	Oct. 10	528
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds; Compositions (part).	Apr. 13	Apr. 24	1274
60. GLASS, R. L., Electricity, Heating and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Marine Propulsion; Consumable Electrode Lamp and Discharge Devices.	July 9	July 9	406
61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Laminated Electrical Insulation, Belt, Hose, Tire and Ball Making; Boats and Buoys.	July 9	Aug. 5	611
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	Sept. 12	Aug. 27	435
63. WINKELSTEIN, A. H., Preserving; Poisons; Fermentation; Foods and Beverages; Proteins; Oils and Fats.	May 19	May 13	1016
64. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Distillation; Fuel	Sept. 7	Sept. 7	1157
65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays.	July 24	Aug. 10	634
Trade Marks: RICHMOND, F. A	†Jan. 20	†Feb. 1	880
Designs: KALUPY, H. H	†Jan. 27	†Feb. 8	349

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Air Reduction Sales Company, New York, N. Y. Brazing and welding flux. Serial No. 457,926; Mar. 16. Class 6.
Alox Manufacturing Company, The. (See Frier, John.)
American Stores Company, Philadelphia, Pa. Corn flakes, wheat cereal, wheat puffs, etc. Serial No. 453,885; Mar. 16. Class 46.
Associated Research Incorporated, Chicago, Ill. Electrical measuring instruments, specifically apparatus for determining the voltage at which electrical insulation breaks down. Serial No. 457,941; Mar. 16. Class 26.
Associated Research Incorporated, Chicago, Ill. Electrical measuring instruments, specifically instruments for measuring the resistance of electrical grounding connection to the earth. Serial No. 457,942; Mar. 16. Class 26.
Associated Research Incorporated, Chicago, Ill. Electrical measuring instruments, specifically instruments for measuring the electrical resistance of electrical insulation. Serial No. 457,943; Mar. 16. Class 26.
Athletic Supply Company, The, Toledo, Ohio. Basketball goal nets. Serial No. 458,110; Mar. 16. Class 22.
Ballinger, W. A., & Co., San Francisco, Calif. Mops and mop heads. Serial Nos. 455,388–90; Mar. 16. Class 29.
Barker, W. H., Company, Minneapolis, Minn. Corrosion and rust preventive for cooling systems of internal combustion engines. Serial No. 457,696; Mar. 16. Class 6.
Bernard, James L., Jr., doing business as Communication Products Co., Jersey City, N. J. Electro-chemical apparatus for the dehydration of air and for supplying air under pressure. Serial No. 457,536; Mar. 16. Class 21.
Betz, W. H. & L. D., Frankford, Philadelphia, Pa. Chemical compound. Serial No. 458,147; Mar. 16. Class 6.
Bonewitz, Paul W., doing business as P. W. Bonewitz Company, assignor to The Rex Company, Burling, Iowa. Acid cleaner composition. Serial Nos. 449,882–3; Mar. 16. Class 4.
Boyden-Hansen, F. E., Co., Ltd., Alameda, Calif. Honey. Serial No. 457,847; Mar. 16. Class 46.
Burroughs Wellcome & Co. (U. S. A.) Inc., New York. Acetylcholine bromide, aminophylline, bismuth, etc. Serial No. 458,170; Mar. 16. Class 6.
Cady-Parker Medicine Co., Valdosa and Waycross, Ga. Preparation for the treatment of asthma, hayfever, coughs, etc. Serial No. 455,413; Mar. 16. Class 6.
Chance, A. B., Company, Centralia, Mo. Grounding clamps, grounding rods, grounding cluster supports, etc. Serial No. 457,493; Mar. 16. Class 13.
Chromium Mining & Smelting Corporation, Limited, Sault Ste. Marie, Canada. Exothermic metallurgical copper alloying materials. Serial No. 455,787; Mar. 16. Class 1.
Chromium Mining & Smelting Corporation, Limited, Sault Ste. Marie, Canada. Exothermic metallurgical iron alloying materials. Serial No. 455,788; Mar. 16. Class 1.
Chromium Mining & Smelting Corporation, Limited, Sault Ste. Marie, Canada. Exothermic metallurgical nickel alloying materials. Serial No. 455,789; Mar. 16. Class 1.
Chromium Mining & Smelting Corporation, Limited, Sault Ste. Marie, Canada. Exothermic metallurgical silicon alloying materials. Serial No. 455,790; Mar. 16. Class 1.
Colm-Hall-Marx Co., New York, N. Y. Piece goods. Serial No. 456,097; Mar. 16. Class 42.
Cole Laboratories, Inc., Long Island City, N. Y. Chemical product in liquid form used as a cleanser. Serial No. 457,521; Mar. 16. Class 4.
Communication Products Co. (See Bernard, James L., Jr.)
Cook Electric Company, Chicago, Ill. Apparatus in telephone systems. Serial No. 455,016; Mar. 16. Class 21.
Copperweld Steel Company, Glassport, Pa. Steel products. Serial No. 457,602; Mar. 16. Class 14.
Coty, Inc., New York, N. Y. Face powder dusting powder, toilet water, etc. Serial Nos. 458,092–4; Mar. 16. Class 6.
Currick & Leiken Co., Inc., New York, N. Y. Vests and jackets for men, women, and children. Serial No. 452,240; Mar. 16. Class 39.
Curtis 1000 Incorporated, St. Paul, Minn. Correspondence and mailing envelopes. Serial No. 454,247; Mar. 16. Class 37.
Davis, E. E., doing business as E. E. Davis Packing Co., Phoenix, Ariz. Fresh vegetables. Serial No. 457,970; Mar. 16. Class 46.
Downy Products Company, Orange, N. J. Abrasive pads. Serial No. 457,274; Mar. 16. Class 4.
E & L Company, Los Angeles, Calif. Fresh vegetables, fresh deciduous fruits and fresh citrus fruits. Serial No. 457,605; Mar. 16. Class 46.
Eagle Chemical Co. (See Schlesinger, Joseph H., D. D. S.)
Eastman Kodak Company. (See Fretz, Wm. F., & Son, assignor.)
Eastman Kodak Company, Jersey City, N. J., and Rochester, N. Y. Photographic chemicals. Serial Nos. 445,386–8; Mar. 16. Class 6.
Economics Laboratory, Incorporated, St. Paul, Minn. Cleansing compound. Serial No. 457,388; Mar. 16. Class 4.
Elrex Watch Company, New York, N. Y. Watches. Serial No. 456,868; Mar. 16. Class 27.
Fabrica de Pimentao A. Alentejana Lda., Lisbon, Portugal. Paprika. Serial No. 456,738; Mar. 16. Class 46.
Fisba Fabrics, Inc., New York, N. Y. Cotton piece goods. Serial No. 454,632; Mar. 16. Class 42.
Ford, J. B., Company, The, Wyandotte, Mich. Germicide and deodorant. Serial No. 457,850; Mar. 16. Class 6.
Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. Serial No. 456,940; Mar. 16. Class 42.
Fretz, Wm. F., & Son, Doylestown, Pa., assignor to Eastman Kodak Company, Rochester, N. Y. Rayon piece goods. Serial Nos. 457,415–16; Mar. 16. Class 42.
Frier, John, doing business as The Alox Manufacturing Company, St. Louis, Mo. Shoe laces. Serial No. 456,385; Mar. 16. Class 40.
Geigy Company, Inc., New York, N. Y. Dyes for textile purposes. Serial No. 457,875; Mar. 16. Class 6.
Gilbert Shoe Co., Thiensville, Wis. Children's shoes. Serial No. 457,933; Mar. 16. Class 39.
Gillette Safety Razor Company, Boston, Mass. Safety razors. Serial Nos. 456,770–1; Mar. 16. Class 23.
Hall-Neal Furnace Co., Indianapolis, Ind. Motor driven oil burners for firing domestic or household furnaces of the warm air, steam, or hot water type. Serial No. 450,161; Mar. 16. Class 34.
Hamilton Manufacturing Company, Two Rivers, Wis., and Rahway, N. J. Cabinet mechanical clothes dryers. Serial No. 457,704; Mar. 16. Class 24.
Horvath, John, Passaic, N. J. Palliative for the treatment of asthma, catarrh of the liver and lungs, and hemorrhoids. Serial No. 458,038; Mar. 16. Class 6.
Hove, Leland H., doing business as Hove Engineering Co., Minneapolis, Minn. Spring steel bearing races for internal combustion engine distributors. Serial No. 457,472; Mar. 16. Class 21.
Hyman, L., & Sons, New York, N. Y. Paper products. Serial No. 457,153; Mar. 16. Class 37.
Industrial Electronics Corporation, Newark, N. J. Fluorescent, vapor, portable lamp unit. Serial No. 457,954; Mar. 16. Class 21.
Industrial Tape Corporation, New Brunswick, N. J. Pressure sensitive adhesive tapes. Serial No. 458,116; Mar. 16. Class 5.
Industrial Tape Corporation, New Brunswick, N. J. Pressure sensitive adhesive tapes. Serial No. 458,154; Mar. 16. Class 5.
International Shoe Co., St. Louis, Mo. Boots and shoes of leather, fabric and/or combinations thereof. Serial No. 457,915; Mar. 16. Class 39.
Jackson, Ida., doing business as Jackson of London Products, New York, N. Y. Preparation for removing spots and liquor, heat, etc., and for cleaning finished surfaces. Serial No. 451,717; Mar. 16. Class 4.
Jennings, Leroy G., New York, N. Y. Medicinal salves for the relief of nasal, throat, and chest irritations. Serial No. 457,473; Mar. 16. Class 6.
Latrobe, Ferdinand C., Baltimore, Md. Light-sensitive stationery for use in production of miniature films of photographs and correspondence. Serial No. 456,126; Mar. 16. Class 26.
Lesem Bach & Co. Incorporated, New York, N. Y. Piece goods. Serial No. 457,474; Mar. 16. Class 42.
Liggett & Myers Tobacco Company, New York, N. Y. Smoking tobacco. Serial No. 455,597; Mar. 16. Class 17.
Logan, Hugh H., doing business as Logan Manufacturing Company, Glendale, Calif. Shower bath equipment. Serial No. 456,191; Mar. 16. Class 13.
M. & M. Limited, Newark, N. J. Candy. Serial No. 447,846; Mar. 16. Class 46.
Mallory, P. R., & Co., Inc., Indianapolis, Ind. Electric contacts. Serial No. 457,525; Mar. 16. Class 21.
Manhattan Kreole Products, Inc., doing business as Sanitized Laboratories, Brooklyn, N. Y. Soap shampoos, bay rum, sun tan oil, etc. Serial No. 457,859; Mar. 16. Class 6.
McCall & Company, Limited, Gerrards Cross, England. Ox tongues preserved in tins. Serial No. 454,145; Mar 16. Class 46.
McCormick & Co., Incorporated, Baltimore, Md. Imitation food flavoring extracts. Serial No. 457,960; Mar. 16. Class 46.
McDonnell, Everett N., doing business as McDonnell & Miller, Chicago, Ill. Snap switches. Serial No. 452,310; Mar. 16. Class 21.

McDonnell, Everett N., doing business as McDonnell & Miller, Chicago, Ill. Electric switches, electric flow switches, liquid level responsive pump control electric switches, and electrical parts thereof. Serial No. 457,340; Mar. 16. Class 21.

Micro Switch Corporation, Freeport, Ill. Electric switches. Serial No. 457,503; Mar. 16. Class 21.

Miller Cereal Mills, Incorporated, Omaha, Nebr. Dog food. Serial No. 457,766; Mar. 16. Class 46.

Millstein, Dan, Inc., New York, N. Y. Ladies' and misses' coats and suits. Serial No. 457,138; Mar. 16. Class 39.

National Machine Products Company, Detroit, Mich. Lock-nuts. Serial No. 450,338; Mar. 16. Class 13.

National Telephone Supply Company, The, Cleveland, Ohio. Connecting devices or sleeves for electric wires and cables. Serial No. 457,813; Mar. 16. Class 21.

Oil Specialties & Refining Co., Inc., Brooklyn, N. Y. Metal polish. Serial No. 457,989; Mar. 16. Class 4.

Oxtex Corporation, Newark, N. J. Artificial leather. Serial No. 456,804; Mar. 16. Class 50.

Parsons Ammonia Company, Inc., New York, N. Y. Ammonia substitute. Serial No. 456,960; Mar. 16. Class 6.

Pennsylvania Salt Manufacturing Company, The, Philadelphia, Pa. Spotting compounds having bleaching properties. Serial No. 457,565; Mar. 16. Class 6.

Pestless Products Company. (See Vaughn, Clyde.)

Perro-Chem Development Company, New York, N. Y. Fluid burning furnaces. Serial No. 454,103; Mar. 16. Class 34.

Pittsburgh Plate Glass Company, Pittsburgh, Pa. Caustic soda, soda ash, liquid chlorine, etc. Serial No. 454,237; Mar. 16. Class 6.

Plastic Metals, Inc., Johnstown, Pa. Powdered iron. Serial No. 457,655; Mar. 16. Class 14.

Precision Scientific Co., Chicago, Ill. Laboratory equipment. Serial No. 457,509; Mar. 16. Class 26.

Reichhold Chemicals, Inc., Detroit, Mich. Synthetic rubber. Serial No. 457,144; Mar. 16. Class 1.

Remington Rand Inc., Buffalo, N. Y. Guides for card and correspondence indexes. Serial No. 457,285; Mar. 16. Class 37.

Rex Company, The. (See Bonewitz, Paul W.)

Ries, Park J., doing business as Reis Camera Co., Hollywood, Calif. Tripod heads employed as an adjustable mounting for cameras, telescopes, surveying instruments and other forms of scientific apparatus. Serial No. 456,902; Mar. 16. Class 26.

Riverside & Dan River Cotton Mills, Inc., Danville, Va., and New York, N. Y. Piece goods for shirts, slacks, trousers, etc. Serial No. 456,197; Mar. 16. Class 42.

Röhm & Haas Company, Philadelphia, Pa. Synthetic resinous materials in the form of sheets, rods, tubes, or molding compounds. Serial No. 457,011; Mar. 16. Class 1.

Rust Master Chemical Corporation, Boston, Mass. Stop leak compounds. Serial No. 450,551; Mar. 16. Class 6.

Sani-Sealed Laboratories. (See Manhattan Kreole Products, Inc.)

Schlesinger, Joseph H., D. D. S., doing business as Eagle Chemical Co., New York, N. Y. Liquid adapted for neutralization of acids exuding from dental cement. Serial No. 457,434; Mar. 16. Class 6.

Society of Chemical Industry in Basle, Basel, Switzerland. Preparations containing active hormonal compounds. Serial No. 450,289; Mar. 16. Class 6.

Sterns, Limited, London, England. Medicated preparations. Serial No. 458,202; Mar. 16. Class 6.

Terrebonne Bulb Corporation, New Orleans, La. Plant bulbs. Serial No. 455,714; Mar. 16. Class 1.

Times Telephoto Equipment Inc., New York, N. Y. Electrosensitive recording and copying paper (including electrical facsimile recorders, copying or duplicating machines employing a current-conducting stylus, et cetera). Serial No. 457,923; Mar. 16. Class 21

Tune-Dex, Inc., New York, N. Y. Series of thematic index cards employing the use of music on one side of the card and information on the other side. Serial No. 457,692; Mar. 16. Class 38.

Van, Billy B., doing business as Billy B. Van Sales Company, Newport, N. H. Toilet soap. Serial No. 458,054; Mar. 16. Class 4.

Vaughan, William C., Minor Hill, Tenn. Preparation for the treatment of athlete's foot, exzema, boils, etc. Serial No. 457,843; Mar. 16. Class 6.

Vaughn, Clyde, doing business as Pestless Products Company, Pasadena, Calif. Fertilizer. Serial No. 444,949; Mar. 16. Class 10.

Vivaudou, Jean, & Co. Inc., New York, N. Y. Moth exterminating preparation. Serial No. 457,904; Mar. 16. Class 6.

Walgreen Co., Chicago, Ill. Tooth brushes. Serial No. 457,646; Mar. 16. Class 29.

Waltham Watch Company, Waltham, Mass. Measuring, recording, and indicating devices and parts thereof. Serial No. 453,285; Mar. 16. Class 26.

Weck, Edward, & Company, Inc., Brooklyn, N. Y. Cutlery. Serial No. 457,428; Mar. 16. Class 23.

Wellington Sears Company, Incorporated, New York, N. Y. Gabardine piece goods. Serial No. 457,455; Mar. 16. Class 42.

Western Industrial Engineering Co., Los Angeles, Calif. Magnetic inspection apparatus for detecting subsurface defects in articles by flowing a liquid mixture containing finely divided paramagnetic material thereover. Serial No. 457,520; Mar. 16. Class 26.

Wimelbacher & Rice, New York, N. Y. Leather and fabric gloves. Serial No. 457,568; Mar. 16. Class 39.

Wood & Hyde Company, Gloversville, N. Y. Glove leather. Serial No. 456,501; Mar. 16. Class 1.

Wool Industries Research Association, Leeds, England. Wearing apparel. Serial No. 451,354; Mar. 16. Class 39.

LIST OF REGISTRANTS OF TRADE-MARKS

Abraham & Straus, Inc., Brooklyn, N. Y. Beds and Venetian blinds. 400,575; Mar. 16. Class 32.

Abraham & Straus, Inc., Brooklyn, N. Y. Upholstered living room furniture. 400,576; Mar. 16. Class 32.

Aktiebolaget Lidköpings Sågbladsfabrik, to Aktiebolaget Lidköpings Vikinsågar, Lidköping, Sweden, successor. Saw blades. 163,909; renewed Feb. 6, 1943.

Allen & Howe, Yuma, Ariz. Fresh vegetables. 400,552; Mar. 16; Serial No. 456,818; published Jan. 5, 1943. Class 46.

Alling & Cory Company, The, Rochester, N. Y. Bond paper. 400,542; Mar. 16; Serial No. 455,946; published Dec. 29, 1942. Class 37.

Alling & Cory Company, The, Rochester, N. Y. Bond paper. 400,543; Mar. 16; Serial No. 455,944; published Dec. 29, 1942. Class 37.

American Cotton Oil Company, The, Union Township, near Guttenberg, N. J., and New York, N. Y., assignor to Lever Brothers Company, Cambridge, Mass. Vegetable oil. 168,644; renewed May 29, 1943.

American Dairy Publishing Association, Chicago, Ill. Publications. 400,565; Mar. 16. Class 38.

American Machine Products Co., Detroit, by change of name and consolidation, to Ampco Twist Drill Co., Jackson, Mich. Twist drills, milling cutters, and reamers. 166,786; renewed Apr. 17, 1943.

Ames Shovel & Tool Company, Jersey City, N. J., and Boston, Mass., assignor to Ames Baldwin Wyoming Co., Parkersburg, W. Va. Shovels, spades, and scoops. 170,042; renewed July 10, 1943.

Ampco Twist Drill Co. (See American Machine Products Co.)

Ansaldi, Michael M., doing business as The Good Samaritan, New York, N. Y. Blend of peanut oil and olive oil. 400,545; Mar. 16; Serial No. 455,899; published Jan. 5, 1943. Class 46.

Arcady Farms Milling Company, Chicago, Ill. Livestock and poultry feeds and for dog food and ration. 400,520; Mar. 16; Serial No. 454,845; published Jan. 5, 1943. Class 46.

Arrowhead Knit Sportswear, Inc., New York, N. Y. Women's sweaters, knitted blouses, and skirts. 400,577; Mar. 16. Class 39.

Atlas Creations Inc., New York, N. Y. Plastic jewelry. 400,547; Mar. 16; Serial No. 455,779; published Dec. 29, 1942. Class 28.

Barcalo Manufacturing Company, Buffalo, N. Y. Bed springs, mattresses, beds, etc. 400,532; Mar. 16; Serial No. 456,380; published Jan. 5, 1943. Class 32.

Baumert, F. X., & Co. Inc., assignor, by mesne assignments, to The Borden Company, New York, N. Y. Cheese. 170,827; renewed July 24, 1943.

Bersted Manufacturing Company. (See United Electrical Manufacturing Co., assignor.)

Bishop & Company, Los Angeles, Calif., assignor to National Biscuit Company, New York, N. Y. Candles. 164,882; renewed Feb. 27, 1943.

Booktab, Inc., New York, N. Y. Periodical. 400,549; Mar. 16; Serial No. 456,862; published Jan. 5, 1943. Class 38.

Borden Company, The. (See Baumert, F. X., & Co. Inc., assignor.)

Brooks, Cleonae W., Lexington, Ky. Periodical. 400,560; Mar. 16; Serial No. 456,623; published Jan. 5, 1943. Class 38.

Brown & Bigelow, St. Paul, Minn. Printed signs and calendars and decalcomania transfers. 400,518; Mar. 16; Serial No. 454,410; published Dec. 29, 1942. Class 38.

Burke, Frank G., doing business as Manhattan Soap Company, assignor to Manhattan Soap Company, Inc., New York, N. Y. Toilet soap. 168,954; renewed May 29, 1943.

Burke, Frank G., doing business as Manhattan Soap Company, assignor to Manhattan Soap Company, Inc., New York, N. Y. Soap. 169,781; renewed July 3, 1943.

Cadet Smokestands Company, The, Des Moines, Iowa. Tobacco ash receptacles. 400,506; Mar. 16; Serial No. 452,821; published Dec. 29, 1942. Class 8.

California Lettuce Growers, Inc., Guadalupe, Calif. Fresh vegetables. 400,557; Mar. 16; Serial No. 456,711; published Jan. 5, 1943. Class 46.

Canteen Food Service, Not Inc., Chicago, Ill. Cardboard food service trays. 400,529–30; Mar. 16; Serial Nos. 455,641–2; published Jan. 5, 1943. Class 2.

Castle Company, Lyons, N. Y. Canned sauerkraut. 170,823; renewed July 24, 1943.

Century Biscuit Co., Indianapolis, Ind. Wafers and crackers. 170,918; renewed July 24, 1943.

Chicago Sun Syndicate, Inc., The, Chicago, Ill. Series cartoons. 400,556; Mar. 16; Serial No. 456,712; published Jan. 5, 1943. Class 38.

Chrysler Corporation, Highland Park, Mich. Adhesive cement. 400,555; Mar. 16; Serial No. 456,765; published Jan. 5, 1943. Class 5.

Coggeshall, Calvert, New York, N. Y. Furniture. 400,522; Mar. 16; Serial No. 454,978; published Jan. 5, 1943. Class 32.

Cohn-Hall-Marx Co., New York, N. Y. Cotton piece goods. 169,956; renewed July 10, 1943.

Colgate & Company, assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Soap. 169,480; renewed June 19, 1943.

Colgate & Company, assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Perfumes, perfumed powders, and toilet waters. 169,757; renewed July 3, 1943.

Con-O-Lite Corporation, Cortland, N. Y. Burial vaults. 170,642; renewed July 17, 1943.

Cook Paint & Varnish Company, North Kansas City, Mo. Building paper having ornamental designs printed thereon. 400,531; Mar. 16; Serial No. 455,647; published Jan. 5, 1943. Class 12.

Co-Operative Olive Products Association, Inc., Fresno, Calif. Olive oil, and green and ripe olives. 400,550; Mar. 16; Serial No. 456,844; published Jan. 5, 1943. Class 46.

Corrao, Antonio, doing business as Universal Salad Oil Co., Brooklyn, N. Y. Salad oil. 400,554; Mar. 16; Serial No. 456,766; published Jan. 5, 1943. Class 46.

Craddock Terry Company, assignor to Craddock-Terry Shoe Corporation, Lynchburg, Va. Women's shoes. 170,728; renewed July 24, 1943.

Decca Records, Inc., New York. Mechanical and electrical sound reproducing devices of the record type, phonograph records, phonograph record albums, etc. 400,537; Mar. 16; Serial No. 456,098; published Jan. 5, 1943. Class 36.

Denver Pharmacal Co. (See McCanne, Edward B.)

Detroit Soda Products Company, Detroit, to Detroit Soda Products Company, Wyandotte, Mich. Sal soda, baking soda, water softeners, etc. 165,787; renewed Mar. 20, 1943.

Drew, E. F., & Co., Inc., New York, N. Y., assignor to The Glidden Company, Cleveland, Ohio. Nut margarine. 167,215; renewed Apr. 24, 1943.

Dunlop Milling Co., Clarksville, Tenn., assignor to Dunlop Milling Company, Inc., New York, N. Y. Wheat flour. 167,062; renewed Apr. 24, 1943.

Dwinell-Wright Company, Boston, Mass. Coffee. 170,707; renewed July 24, 1943.

Edwards, Anthony, Merced, Calif. Quiz game. 400,501; Mar. 16; Serial No. 448,505; published Jan. 5, 1943. Class 22.

Eisenstadt Manufacturing Company, St. Louis, Mo. Finger rings, collar holders, bracelets for watches, etc. 400,510; Mar. 16; Serial No. 453,596; published Jan. 5, 1943. Class 28.

Elmhurst Packers, Inc., Oakland, Calif. Canned fruits and tomato catsup. 400,551; Mar. 16; Serial No. 456,823; published Jan. 5, 1943. Class 46.

Erich Brandeis, New York, N. Y. Newspaper section or department. 400,553; Mar. 16; Serial No. 456,787; published Jan. 5, 1943. Class 38.

Extruded Plastics, Inc., Norwalk, Conn. Extruded plastic tubing for conduits and related uses. 400,516; Mar. 16; Serial No. 454,332; published Jan. 5, 1943. Class 35.

Feature Foods, Inc., Chicago, Ill. Radio scripts. 400,562; Mar. 16; Serial No. 456,555; published Dec. 29, 1942. Class 38.

Fellner, Louis B., Belleville, Ill. Bread. 170,804; renewed July 24, 1943.

Field Publications. (See Newspaper PM, Inc., The, assignor.)

Fisch and Company, Ltd., Los Angeles, Calif. Cigarette cases, cigar cases, and cases or pouches. 400,503; Mar. 16; Serial No. 451,970; published Dec. 29, 1942. Class 8.

Fisher Scientific Company, Pittsburgh, Pa. Electrically-operated laboratory oven. 400,534; Mar. 16; Serial No. 456,334; published Jan. 5, 1943. Class 26.

Foto Plus, Fort Lee, N. J. Photo prints. 400,525; Mar. 16; Serial No. 455,232; published Jan. 5, 1943. Class 38.

Fox Company, The. (See Newton, Carl D.)

Fried, Harry N., doing business as H. N. Fried & Company, Chicago, Ill. Women's and misses' dresses. 400,568; Mar. 16. Class 39.

Fuller, James H., doing business as Golden Rod Equipment Co., San Francisco, Calif. Electrical apparatus. 400,536; Mar. 16; Serial No. 456,142; published Jan. 5, 1943. Class 21.

Gallaher Limited, Belfast, Northern Ireland. Smoking tobacco, cigarettes, cigars, etc. 164,811; renewed Feb. 27, 1943.

Garlock Packing Co., assignor to The Garlock Packing Company, Palmyra, N. Y. Packing for machinery. 23,420; re-renewed July 25, 1943.

General Foods Corporation. (See Gund, George, assignor.)

General Foods Corporation. (See Vermont Maple Syrup Company, Inc., assignor.)

Gilbert, M. Beatrice, Galesburg, Ill. Flower seeds and garden seeds. 400,504; Mar. 16; Serial No. 452,690; published Dec. 29, 1942. Class 1.

Glidden Company, The. (See Drew, E. F., & Co., Inc., assignor.)

Golden Rod Equipment Co. (See Fuller, James H.)

Good Samaritan, The. (See Ansaldi, Michael M.)

Gourfain-Cobb Advertising Agency, Chicago, Ill. Radio scripts. 400,527; Mar. 16; Serial No. 455,341; published Dec. 29, 1942. Class 38.

Green-Kriegsman Paper Co., Inc., New York, N. Y. Paper fasteners. 400,544; Mar. 16; Serial No. 455,915; published Jan. 5, 1943. Class 37.

Gruen Watch Company, The, Cincinnati and Time Hill, Cincinnati, Ohio. Watches, watch cases and watch movements. 400,509; Mar. 16; Serial No. 453,582; published Dec. 29, 1942. Class 27.

Gruen Watch Company, The, Cincinnati and Time Hill, Cincinnati, Ohio. Watches, watch cases, and watch movements. 400,521; Mar. 16; Serial No. 454,967; published Jan. 5, 1943. Class 27.

Guardian Electric Manufacturing Co., Chicago, Ill. Solenoid contactors, radio relays, electric circuit adapter plugs, etc. 400,523; Mar. 16; Serial No. 454,983; published Jan. 5, 1943. Class 21.

Gund, George, doing business as Hygienic Coffee Company, Cleveland, Ohio, assignor, by mesne assignments, to General Foods Corporation, New York, N. Y. Coffee. 170,484; renewed July 17, 1943.

Guthrie & Co., Limited, Singapore, Straits Settlements, and London, England. Metal goods. 163,890–1; renewed Feb. 6, 1943.

Guthrie & Co., Limited, Singapore, Straits Settlements, and London, England. Cutlery and tools. 163,892–3; renewed Feb. 6, 1943.

Haffenreffer & Co. (See New England Brewing Company.)

Hanson-Van Winkle-Munning Company. (See Munning, A. P., & Co., assignor.)

Hat Corporation of America. (See Knox Hat Company, Inc., assignor.)

Hygienic Coffee Company. (See Gund, George.)

Hirle, W. P., and Sons, Baltimore, Md. Potato chips. 400,572; Mar. 16. Class 46.

Ingersoll Milling Machine Company, The, Rockford, Ill. Milling fixtures, milling-cutter grinders, milling cutters, etc. 169,221; renewed June 12, 1943.

International Bedding Company, The, Baltimore, Md. Mattresses, pillows, and box springs. 164,094–6; renewed Feb. 6, 1943.

International Bedding Company, The, Baltimore, Md. Mattresses, pillows, and box springs. 164,008–10; renewed Feb. 6, 1943.

International Bedding Company, The, Baltimore, Md. Mattresses, pillows, and box springs. 164,012; renewed Feb. 6, 1943.

Irwin Auger Bit Company, The, Wilmington, Ohio. Roll cases for containing augers and bits. 168,722; renewed May 29, 1943.

Irwin Auger Bit Company, The, Wilmington, Ohio. Boxes for containing augers and bits. 168,723; renewed May 29, 1943.

Justrite Manufacturing Company, Chicago, Ill. Soldering irons. 165,010; renewed Feb. 27, 1943.

Kellogg Company, Battle Creek, Mich. Publications which deals with recipes for cooking. 400,511; Mar. 16; Serial No. 453,803; published Dec. 29, 1942. Class 38.

Kepec Chemical Corporation. (See Mathes, Kirke B.)

Knox Hat Company, Inc., New York, N. Y., assignor to Hat Corporation of America, Norwalk, Conn. Hats. 170,820; renewed July 24, 1943.

Lever Brothers Company, Cambridge, Mass. Soap. 167,446; renewed May 1, 1943.

Lever Brothers Company, Cambridge, Mass. Soap and soap powder. 170,676; renewed July 17, 1943.

Lever Brothers Company. (See American Cotton Oil Company, The, assignor.)

Lionel Corporation, The, New York, N. Y. Toy chemical sets. 400,579; Mar. 16. Class 22.

Lisk Manufacturing Company, Ltd., Canandaigua, N. Y. Metal culinary, household, and dairy utensils. 169,178; renewed June 12, 1943.

Longines-Wittnauer Watch Co., Inc., New York, N. Y. Watches, clocks, timers, watch parts, and clock parts, etc. 400,524; Mar. 16; Serial No. 455,164; published Dec. 29, 1942. Class 27.

Lumis & Company, Philadelphia, Pa. Salted peanuts, peanut candies, and peanut butter. 469,499; renewed June 19, 1943.

Mallory, P. R., & Co., Inc., Indianapolis, Ind. Electrical and radio products. 400,573; Mar. 16. Class 21.

Manhattan Soap Company. (See Burke, Frank Gains.)

Markt & Hammacher Company, New York, N. Y. Tools and implements. 170,476; renewed July 17, 1943.
Mathes, Kirke B., doing business as The Uni-Lak Company, Batavia, N. Y., to Kepec Chemical Corporation, Milwaukee, Wis., successor. Paint products used in finishing heels and bottoms of shoes. 166,199; renewed Mar. 27, 1943.
McAllen Citrus Assn., McAllen, Tex. Fresh citrus fruit. 400,574; Mar. 16. Class 46.
McCanne, Edward B., doing business as Denver Pharmacal Co., to Edward B. McCanne, Denver, Colo. Headache powders, neuralgia powders, cold powders, etc. 164,292; renewed Feb. 20, 1943.
McNaught Syndicate, Inc., The, New York, N. Y. Comic strip. 400,519; Mar. 16; Serial No. 454,577; published Dec. 29, 1942. Class 38.
Mead Johnson & Company, Evansville, Ind. Food product. 400,561; Mar. 16; Serial No. 456,612; published Jan. 5, 1943. Class 46.
Meyer, Joseph H., Bros., Brooklyn, N. Y. Necklaces, bracelets, finger rings, etc. 400,508; Mar. 16; Serial No. 453,059; published Dec. 29, 1942. Class 28.
Millbrook Manufacturing Corporation, New York, N. Y. Children's and women's ski suits, beach wear and sportswear. 400,571; Mar. 16. Class 39.
Munning, A. P., & Co., assignor to Hanson-Van Winkle Munning Company, Matawan, N. J. Electroplating and polishing apparatus. 164,262; renewed Feb. 13, 1943.
National Biscuit Company. (See Bishop & Company, assignor.)
New England Brewing Company, doing business as Haffenreffer & Co., Jersey City, N. J., and Boston, assignor to Haffenreffer & Co., Inc., Boston, Mass. Cane and maple-sugar sirup. 170,907; renewed July 24, 1943.
Newspaper PM, Inc., The, Brooklyn, assignor, by mesne assignments, to Field Publications, New York, N. Y. Comic strip in a daily newspaper. 400,570; Mar. 16. Class 38.
Newton, Carl D., doing business as The Fox Company, to The Fox Company, San Antonio, Tex., successor. Photoprints and enlargements. 163,773; renewed Jan. 30, 1943.
Northwestern Turkey Growers Association, Salt Lake City, Utah. Dressed poultry. 400,567; Mar. 16. Class 46.
Oxford Paper Company, New York, N. Y. Offset printing paper. 400,528; Mar. 16; Serial No. 455,440; published Jan. 5, 1943. Class 37.
Ozmun and Company, Lawton, Okla. Packaged and canned grocery goods. 400,499; Mar. 16; Serial No. 437,478; published Jan. 5, 1943. Class 46.
Parker Brothers, Portland, Maine, and Salem, to Parker Brothers, Incorporated, Salem, Mass. Board game. 170,419; renewed July 17, 1943.
Parker Pen Company, The, Janesville, Wis. Fountain pens and mechanical pencils. 165,783; renewed Mar 20, 1943.
Philco Corporation, Philadelphia, Pa. Caulking cement and rubber cement. 400,502; Mar. 16; Serial No 450,903; published Jan. 5, 1943. Class 5.
Philco Corporation, Philadelphia, Pa. Phonographs, phonograph turn tables, phonograph motor board assemblies, etc. 400,517; Mar. 16; Serial No. 454,375; published Jan. 5, 1943. Class 36.
Piedmont Mills Inc., Lynchburg, Va. Self-rising biscuit flour. 165,951; renewed Mar. 27, 1943.
Plepla, Karl, New York, N. Y. Watches. 400,514; Mar. 16; Serial No. 454,073; published Dec. 29, 1942 Class 27.
Preload Company, The, Boston, Mass. Receptacles of cement or concrete. 400,513; Mar. 16; Serial No. 454,041; published Jan. 5, 1943. Class 2.
Radio Corporation of America. (See Wireless Specialty Apparatus Company, assignor.)
Radio Corporation of America, assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Radio apparatus. 167,591; renewed May 1, 1943.
Railton, B. A., Company, Chicago, Ill. Foods. 165,956; renewed Mar. 27, 1943.
Rees, J. Dunlap, doing business as Hess Rees Company, Erie, Pa. Diaphragm material for use in meters, regulators and the like. 400,507; Mar. 16; Serial No. 453,032; published Dec. 29, 1942. Class 50.
Rock Island Register Company, Rock Island, Ill. Registers for heating purposes. 170,923; renewed July 24, 1943.
Rogers, Charles P., & Co., Inc., New York, to Charles P. Rogers & Co., Inc., Mount Vernon, N. Y. Bedsteads, mattresses, and springs. 163,997-9; renewed Feb. 6, 1943.
Runnels, Garland Dee, New York, N. Y. Dehydrated mixed vegetables. 400,548; Mar. 16; Serial No. 456,904; published Jan. 5, 1943. Class 46.
Sandvikens Jernverks Aktiebolag, Sandvikens, Sweden Springs for general use. 162,464; renewed Dec. 19, 1942.
Sargo Company, New York, N. Y. Game. 400,563; Mar 16; Serial No. 456,472; published Jan. 5, 1943. Class 22.
Scherl & Roth, Inc., Cleveland, Ohio. Strings for violins, violas, cellos, etc. 400,526; Mar. 16; Serial No. 455,284; published Jan. 5, 1943. Class 36.
Schmeiser, T. G., Co., Fresno, Calif. Earth working implements and specifically a combination soil cultivator and packer. 400,564; Mar. 16. Class 23.
Schreiber Milling & Grain Co., St. Joseph, Mo. Feed supplement for cattle, hogs, and chickens. 400,540; Mar. 16; Serial No. 455,988; published Jan. 5, 1943. Class 46.
Seymour Packing Company, Topeka, Kans. Dressed poultry. 171,113; renewed July 31, 1943.
Shell Company of California, assignor to Shell Oil Company, Incorporated, San Francisco, Calif. Lubricating oils. 168,803; renewed May 29, 1943.
Simonds Machine Company, Inc., Southbridge, Mass. Foot treadle electric switches. 400,500; Mar. 16; Serial No. 444,659; published Sept. 15, 1942. Class 21.
Spens Company, Kansas City, Mo. Concentrated deflavored syrup. 400,539; Mar. 16; Serial No. 456,050; published Jan. 5, 1943. Class 46.
Special Chemicals Corporation, New York, N. Y. Electro-plating racks. 400,559; Mar. 16; Serial No. 456,699; published Jan. 5, 1943. Class 21.
Street & Smith Publications, Inc., New York, N. Y. Magazine. 400,505; Mar. 16; Serial No. 452,756; published Dec. 29, 1942. Class 38.
Sylvania Electric Products Inc., Salem, Mass. Electric energy translating devices. 400,538; Mar. 16; Serial No. 456,055; published Jan. 5, 1943. Class 21.
Telegraph Construction & Maintenance Company, Limited, The, London, England. Gutta percha, india-rubber, balata, etc. 400,515; Mar. 16; Serial No. 454,125; published Jan. 5, 1943. Class 1.
Tischler, Kenneth, Incorporated, New York, N. Y. Ladies' coats, suits, jackets, and skirts. 400,569; Mar. 16. Class 39.
Tolibia Cheese Manufacturing Corporation, Fon du Lac, Wis. Cheese. 400,533; Mar. 16; Serial No. 456,373; published Jan. 5, 1943. Class 46.
Tru-Aid Company, The, Los Angeles, Calif. Ultra-violet germicidal lamps. 400,541; Mar. 16; Serial No. 455,962; published Jan. 5, 1943. Class 44.
Truscon Laboratories, Inc., Detroit, Mich. Decorative paint. 400,578; Mar. 16. Class 16.
U. S. Industrial Alcohol Co., New York, N. Y. Publication. 400,566; Mar. 16. Class 38.
Uni-Lac Company, The. (See Mathes, Kirke B.)
United Electrical Manufacturing Co., Adrian, Mich., assignor to Bersted Manufacturing Company, Fostoria, Ohio. Electrical motor horns. 169,450; renewed June 19, 1943.
Universal Salad Oil Co. (See Corrao, Antonio.)
Van Camp Sea Food Company, Los Angeles, to Van Camp Sea Food Co. Inc., Terminal Island, Calif., successor. Canned fish. 169,348; renewed June 12, 1943.
Vermont Maple Syrup Company, Inc., Essex Junction Vt., assignor, by mesne assignments, to General Foods Corporation, New York, N. Y. Strup. 168,655; renewed May 29, 1943.
Victory Toy Company, Chicago, Ill. Toy cut out figures of paper board. 400,558; Mar. 16; Serial No 456,704; published Jan. 5, 1943. Class 22.
Vislok, Limited, assignor to Vislok Engineering, Limited, London, England. Nuts and bolts. 166,814; renewed Apr. 17, 1943.
Wabasha Roller Mill Company, Wabasha, Minn. Wheat flour. 170,806; renewed July 24, 1943.
Ward Baking Company, New York, N. Y. Bread. 170,794; renewed July 24, 1943.
Ward Baking Company, New York, N. Y. Bread, and cereal breakfast foods. 170,800; renewed July 24, 1943.
Ward Baking Company, New York, N. Y. Bread. 170,801; renewed July 24, 1943.
Ward Baking Company, New York, N. Y. Sugar product containing water-soluble vitamins. 170,816; renewed July 24, 1943.
Ward Baking Company, New York, N. Y. Cakes. 170,894; renewed July 24, 1943.
Ward Baking Company, New York, N. Y. Sugar product containing water-soluble vitamins. 170,900; renewed July 24, 1943.
Ward Baking Company, New York, N. Y. Bread. 170,938; renewed July 24, 1943.
Waterbury Button Company, The, Waterbury, Conn. Plastic collapsible tube containers. 400,512; Mar. 16; Serial No. 454,046; published Jan. 5, 1943. Class 2.
Weck, Edward, & Son, Inc., New York, by change of name to Edward Weck & Company, Inc., Brooklyn, N. Y. Cutlery. 166,782; renewed Apr. 17, 1943.
Wheeler, Ray A., Foxboro, Mass. Paper and paper products. 400,546; Mar. 16; Serial No. 455,811; published Dec. 29, 1942. Class 37.
Wireless Specialty Apparatus Company, New York, N. Y., and Boston, Mass., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Electrical condensers. 167,067; renewed Apr. 24, 1943.
Woolworth, F. W., Co., Inc., New York, N. Y. Combination calendar and engagement book. 400,535; Mar. 16; Serial No. 456,162; published Jan. 5, 1943. Class 37.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Gutta percha, india-rubber, balata, etc. Telegraph Construction & Maintenance Company. 400,515; Mar. 16; Serial No. 454,125; published Jan. 5, 1943.
Seeds and garden seeds, Flower. M. B. Gilbert. 400,504; Mar. 16; Serial No. 452,690; published Dec. 29, 1942.

CLASS 2

Boxes for containing augers and bits. Irwin Auger Bit Company. 168,723; renewed May 29, 1943.
Cases for containing augers and bits. Roll. Irwin Auger Bit Company. 168,722; renewed May 29, 1943.
Containers, Plastic collapsible tube. Waterbury Button Company. 400,512; Mar. 16; Serial No. 454,046; published Jan. 5, 1943.
Receptacles of cement or concrete. Preload Company. 400,513; Mar. 16; Serial No. 454,041; published Jan. 5, 1943.
Trays, Cardboard food service. Canteen Food Service, Not Inc. 400,529–30; Mar. 16; Serial Nos. 455,641–2; published Jan. 5, 1943.
Vaults, Burial. Con-O-Lite Corporation. 170,642; renewed July 17, 1943.

CLASS 4

Soap. F. G. Burke. 169,781; renewed July 3, 1943.
Soap. Colgate & Company. 169,480; renewed June 19, 1943.
Soap. Lever Brothers Company. 167,446; renewed May 1, 1943.
Soap and soap powder. Lever Brothers Company. 170,676; renewed July 17, 1943.
Soap, Toilet. F. G. Burke. 168,954; renewed May 29, 1943.

CLASS 5

Caulking cement and rubber cement. Philco Corporation. 400,502; Mar. 16; Serial No. 450,903; published Jan. 5, 1943.
Cement, Adhesive. Chrysler Corporation. 400,555; Mar. 16; Serial No. 456,765; published Jan. 5, 1943.

CLASS 6

Headache powders, neuralgia powders, cold powders, etc. E. B. McCanne. 164,292; renewed Feb. 20, 1943.
Perfumes, perfumed powders, and toilet waters. Colgate & Company. 169,757; renewed July 3, 1943.
Sal soda, baking soda, water softeners, etc. Detroit Soda Products Company. 165,787; renewed Mar. 26, 1943.

CLASS 8

Cigarette cases, cigar cases and cases or pouches. Fisch and Company. 400,503; Mar. 16; Serial No. 451,970; published Dec. 29, 1942.
Tobacco ash receptacles. Cadet Smokestands Company. 400,506; Mar. 16; Serial No. 452,821; published Dec. 29, 1942.

CLASS 12

Building paper having ornamental designs printed thereon. Cook Paint & Varnish Company. 400,531; Mar. 16; Serial No. 455,647; published Jan. 5, 1943.

CLASS 13

Culinary, household, and dairy utensils, Metal. Lisk Manufacturing Company. 169,178; renewed June 12, 1943.
Metal goods. Guthrie & Co. 163,890–1; renewed Feb. 6, 1943.
Nuts and bolts. Vislok, Limited. 166,814; renewed Apr. 17, 1943.
Springs for general use. Sandvikens Jernverks Aktiebolag. 162,464; renewed Dec. 19, 1942.

CLASS 15

Oils, Lubricating. Shell Company of California. 168,803; renewed May 29, 1943.

CLASS 16

Paint, Decorative. Truscon Laboratories, Inc. 400,578; Mar. 16.
Paint products used in finishing heels and bottoms of shoes. K. B. Mathes. 166,199; renewed Mar. 27, 1943.

CLASS 17

Tobacco, cigarettes, cigars, etc., Smoking. Gallaher Limited. 164,811; renewed Feb. 27, 1943.

CLASS 21

Contactors, radio relays, electric circuit adapter plugs, etc., Solenoid. Guardian Electric Manufacturing Co. 400,523; Mar. 16; Serial No. 454,983; published Jan. 5, 1943.
Electric energy translating devices. Sylvania Electric Products Inc. 400,538; Mar. 16; Serial No. 456,055; published Jan. 5, 1943.
Electric switches, Foot treadle. Simonds Machine Company. 400,500; Mar. 16; Serial No. 444,659; published Sept. 15, 1942.
Electrical and radio products. P. R. Mallory & Co. 400,573; Mar. 16.
Electrical apparatus. J. H. Fuller. 400,536; Mar. 16; Serial No. 456,142; published Jan. 5, 1943.
Electrical condensers. Wireless Specialty Apparatus Company. 167,067; renewed Apr. 24, 1943.
Electroplating and polishing apparatus. A. P. Munning & Co. 164,262; renewed Feb. 13, 1943.
Electro-plating racks. Special Chemicals Corporation. 400,559; Mar. 16; Serial No. 456,699; published Jan. 5, 1943.
Horns, Electrical motor. United Electrical Manufacturing Co. 169,450; renewed June 19, 1943.
Radio apparatus. Radio Corporation of America. 167,591; renewed May 1, 1943.

CLASS 22

Game. Sargo Company. 400,563; Mar. 16; Serial No. 456,472; published Jan. 5, 1943.
Game, Board. Parker Brothers. 170,419; renewed July 17, 1943.
Game, Quiz. A. Edwards. 400,501; Mar. 16; Serial No. 448,505; published Jan. 5, 1943.
Toy chemical sets. Lionel Corporation. 400,579; Mar. 16.
Toy cut out figures of paper board. Victory Toy Company. 400,558; Mar. 16; Serial No. 456,704; published Jan. 5, 1943.

CLASS 23

Cutlery. Edward Weck & Son, Inc. 166,782; renewed Apr. 17, 1943.
Cutlery and tools. Guthrie & Co. 163,892–3; renewed Feb. 6, 1943.
Drills, milling cutters, and reamers, Twist. American Machine Products Co. 166,786; renewed Apr. 17, 1943.
Implements and specifically a combination soil cultivator and packer, Earth working. T. G. Schmeiser Co. 400,564; Mar. 16.
Milling fixtures, milling-cutter grinders, milling cutters, etc. Ingersoll Milling Machine Company. 169,221; renewed June 12, 1943.
Saw blades. Aktiebolaget Lidköpings Sågbladsfabrik. 163,969; renewed Feb. 6, 1943.
Shovels, spades, and scoops. Ames Shovel & Tool Company. 170,042; renewed July 10, 1943.
Soldering irons. Justrite Manufacturing Company. 165,010; renewed Feb. 27, 1943.
Tools and implements. Markt & Hammacher Company. 170,476; renewed July 17, 1943.

CLASS 26

Laboratory oven, Electrically-operated. Fisher Scientific Company. 400,534; Mar. 16; Serial No. 456,334; published Jan. 5, 1943.

CLASS 27

Watches, K. Plepla. 400,514; Mar. 16; Serial No. 454,073; published Dec. 29, 1942.
Watches, clocks, timers, watch parts, and clock parts, etc. Longines-Wittnauer Watch Co. 400,524; Mar. 16; Serial No. 455,164; published Dec. 29, 1942.
Watches, watch cases, and watch movements. Gruen Watch Company. 400,509; Mar. 16; Serial No. 453,582; published Dec. 29, 1942.
Watches, watch cases, and watch movements. Gruen Watch Company. 400,521; Mar. 16; Serial No. 454,967; published Jan. 5, 1943.

CLASS 28

Jewelry, Plastic. Atlas Creations Inc. 400,547; Mar. 16; Serial No. 455,779; published Dec. 29, 1942.
Necklaces, bracelets, finger rings, etc. Joseph H. Meyer Bros. 400,508; Mar. 16; Serial No. 453,059; published Dec. 29, 1942.
Rings, collar holders, bracelets for watches, etc., Finger. Eisenstadt Manufacturing Company. 400,510; Mar. 16; Serial No. 453,596; published Jan. 5, 1943.

CLASS 32

Bed springs, mattresses, beds, etc. Barcalo Manufacturing Company. 400,532; Mar. 16; Serial No. 456,380; published Jan. 5, 1943.
Bedsteads, mattresses, and springs. Charles P. Rogers & Co. 163,997–9; renewed Feb. 6, 1943.
Beds, and venetian blinds. Abraham & Straus, Inc. 400,575; Mar. 16.
Furniture, C. Coggeshall. 400,522; Mar. 16; Serial No. 454,978; published Jan. 5, 1943.
Furniture, Upholstered living room. Abraham & Straus, Inc. 400,576; Mar. 16.

Mattresses, pillows, and box springs. International Bedding Company. 164,004–6; renewed Feb. 6, 1943.
Mattresses, pillows, and box springs. International Bedding Company. 164,008–10; renewed Feb. 6, 1943.
Mattresses, pillows, and box springs. International Bedding Company. 164,012; renewed Feb. 6, 1943.

CLASS 34

Registers for heating purposes. Rock Island Register Company. 170,923; renewed July 24, 1943.

CLASS 35

Packing for machinery. Garlock Packing Co. 23,420; re-renewed July 25, 1943.
Tubing for conduits and related uses, Extruded plastic. Extruded Plastics, Inc. 400,516; Mar. 16; Serial No. 454,332; published Jan. 5, 1943.

CLASS 36

Phonographs, phonograph turn tables, phonograph motor board assemblies, etc. Philco Corporation. 400,517; Mar. 16; Serial No. 454,375; published Jan. 5, 1943.
Sound reproducing devices of the record type, phonograph records, phonograph record albums, etc. Decca Records, Inc. 400,537; Mar. 16; Serial No. 456,098; published Jan. 5, 1943.
Strings for violins, violas, cellos, etc. Scherl & Roth, Inc. 400,526; Mar. 16; Serial No. 455,284; published Jan. 5, 1943.

CLASS 37

Calendar and engagement book, Combination. F. W. Woolworth Co. 400,535; Mar. 16; Serial No. 456,162; published Jan. 5, 1943.
Paper and paper products. R. A. Wheeler. 400,546; Mar. 16; Serial No. 455,811; published Dec. 29, 1942.
Paper, Bond. Alling & Cory Company. 400,542; Mar. 16; Serial No. 455,946; published Dec. 29, 1942.
Paper, Bond. Alling & Cory Company. 400,543; Mar. 16; Serial No. 455,944; published Dec. 29, 1942.
Paper Fasteners. Green-Kriegsman Paper Co. 400,544; Mar. 16; Serial No. 455,915; published Jan. 5, 1943.
Pens and mechanical pencils, Fountain. Parker Pen Company. 165,783; renewed Mar. 20, 1943.
Printing paper, Offset. Oxford Paper Company. 400,528; Mar. 16; Serial No. 455,440; published Jan. 5, 1943.

CLASS 38

Cartoons, Series. Chicago Sun Syndicate, Inc. 400,556; Mar. 16; Serial No. 456,712; published Jan. 5, 1943.
Comic strip. McNaught Syndicate, Inc. 400,519; Mar. 16; Serial No. 454,577; published Dec. 29, 1942.
Comic strip in a daily newspaper. Newspaper PM, Inc. 400,570; Mar. 16.
Magazine. Street & Smith Publications, Inc. 400,505; Mar. 16; Serial No. 452,756; published Dec. 29, 1942.
Newspaper section or department. Erich Brandels. 400,553; Mar. 16; Serial No. 456,787; published Jan. 5, 1943.
Periodical. Booktab, Inc. 400,549; Mar. 16; Serial No. 456,862; published Jan. 5, 1943.
Periodical. C. W. Brooks. 400,560; Mar. 16; Serial No. 456,623; published Jan. 5, 1943.
Photo prints. Foto Plus. 400,525; Mar. 16; Serial No. 455,232; published Jan. 5, 1943.
Photoprints and enlargements. C. D. Newton. 163,773; renewed Jan. 30, 1943.
Printed signs and calendars and decalcomania transfers. Brown & Bigelow. 400,518; Mar. 16; Serial No. 454,410; published Dec. 29, 1942.
Publication. U. S. Industrial Alcohol Co. 400,566; Mar. 16.
Publications. American Dairy Publishing Association. 400,565; Mar. 16.
Publications which deals with recipes for cooking. Kellogg Company. 400,511; Mar. 16; Serial No. 453,803; published Dec. 29, 1942.
Radio scripts. Feature Foods, Inc. 400,562; Mar. 16; Serial No. 456,555; published Dec. 29, 1942.
Radio scripts. Gourfain-Cobb Advertising Agency. 400,527; Mar. 16; Serial No. 455,341; published Dec. 29, 1942.

CLASS 39

Coats, suits, jackets, and skirts, Ladies'. Kenneth Tischler, Incorporated. 400,569; Mar. 16.
Dresses, Women's and misses'. H. N. Fried. 400,568; Mar. 16.
Hats. Knox Hat Company. 170,820; renewed July 24, 1943.
Shoes, Women's. Craddock Terry Company. 170,728; renewed July 24, 1943.
Ski suits, beach wear, and sportswear, Children's and women's. Millbrook Manufacturing Corporation. 400,571; Mar. 16.
Sweaters, knitted blouses, and skirts, Women's. Arrowhead Knit Sportswear, Inc. 400,577; Mar. 16.

CLASS 42

Cotton piece goods. Cohn-Hall-Marx Co. 169,956; renewed July 10, 1943.

CLASS 44

Germicidal lamps, Ultra-violet. Tru-Aid Company 400,541; Mar. 16; Serial No. 455,962; published Jan. 5, 1943.

CLASS 46

Bread. L. B. Fellner. 170,804; renewed July 24, 1943.
Bread. Ward Baking Company. 170,794; renewed July 24, 1943.
Bread. Ward Baking Company. 170,801; renewed July 24, 1943.
Bread. Ward Baking Company. 170,938; renewed July 24, 1943.
Bread, and cereal breakfast foods. Ward Baking Company. 170,800; renewed July 24, 1943.
Cakes. Ward Baking Company. 170,894; renewed July 24, 1943.
Candies. Bishop & Company. 164,882; renewed Feb. 27, 1943.
Canned fish. Van Camp Sea Food Company. 169,348; renewed June 12, 1943.
Canned fruits and tomato catsup. Elmhurst Packers, Inc. 400,551; Mar. 16; Serial No. 456,823; published Jan. 5, 1943.
Canned sauerkraut. Castle Company. 170,823; renewed July 24, 1943.
Cheese. F. X. Baumert & Co. Inc. 170,827; renewed July 24, 1943.
Cheese, Tollbia Cheese Manufacturing Corporation. 400,533; Mar. 16; Serial No. 456,373; published Jan 5, 1943.
Coffee. Dwinell-Wright Company. 170,707; renewed July 24, 1943.
Coffee. G. Gund. 170,484; renewed July 17, 1943.
Feed supplement for cattle, hogs, and chickens. Schreiber Milling & Grain Co. 400,540; Mar. 16; Serial No. 455,988; published Jan. 5, 1943.
Feeds and for dog food and ration, Livestock and poultry. Arcady Farms Milling Company. 400,520; Mar. 16; Serial No. 454,845; published Jan. 5, 1943.
Flour, Self-rising biscuit. Piedmont Mills, Inc 165,951; renewed Mar. 27, 1943.
Flour, Wheat. Dunlop Milling Co. 167,062; renewed Apr. 24, 1943.
Flour, Wheat. Wabasha Roller Mill Company. 170,806; renewed July 24, 1943.
Food product. Mead Johnson & Company. 400,561; Mar. 16; Serial No. 456,612; published Jan. 5, 1943.
Foods. B. A. Railton Company. 165,956; renewed Mar. 27, 1943.
Fruit, Fresh citrus. McAllen Citrus Assn. 400,574; Mar. 16.
Grocery goods, Packaged and canned. Ozmun and Company. 400,499; Mar. 16; Serial No. 437,478; published Jan. 5, 1943.
Margarine, Nut. E. F. Drew & Co. 167,215; renewed Apr. 24, 1943.
Olive oil, and green and ripe olives. Co-Operative Olive Products Association, Inc. 400,550; Mar. 16; Serial No. 456,844; published Jan. 5, 1943.
Peanut oil and olive oil, Blend of. M. M. Ansaldi. 400,545; Mar. 16; Serial No. 455,899; published Jan. 5, 1943.
Peanuts, peanut candies, and peanut butter, Salted. Lumis & Company. 169,499; renewed June 19, 1943.
Potato chips. W. P. Ihrie and Sons. 400,572; Mar. 16.
Poultry, Dressed. Northwestern Turkey Growers Association. 400,567; Mar. 16.
Poultry, Dressed. Seymour Packing Company. 171,113; renewed July 31, 1943.
Salad oil. A. Corrao. 400,554; Mar. 16; Serial No. 456,766; published Jan. 5, 1943.
Sirup. Vermont Maple Syrup Company. 168,655; renewed May 29, 1943.
Sirup, Cane and maple-sugar. New England Brewing Company. 170,907; renewed July 24, 1943.
Sugar product containing water-soluble vitamines. Ward Baking Company. 170,816; renewed July 24, 1943.
Sugar product containing water-soluble vitamines. Ward Baking Company. 170,900; renewed July 24, 1943.
Syrup, Concentrated deflavored. Speas Company. 400,539; Mar. 16; Serial No. 456,050; published Jan. 5, 1943.
Vegetable oil. American Cotton Oil Company. 168,644; renewed May 29, 1943.
Vegetables, Dehydrated mixed. G. D. Runnels. 400,548; Mar. 16; Serial No. 456,904; published Jan. 5, 1943.
Vegetables, Fresh. Allen & Howe. 400,552; Mar. 16; Serial No. 456,818; published Jan. 5, 1943.
Vegetables, Fresh. California Lettuce Growers, Inc. 400,557; Mar. 16; Serial No. 456,711; published Jan. 5, 1943.
Wafers and crackers. Century Biscuit Co. 170,918; renewed July 24, 1943.

CLASS 50

Diaphragm material for use in meters, regulators and the like. J. D. Rees. 400,507; Mar. 16; Serial No. 453,032; published Dec. 29, 1942.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 16TH DAY OF MARCH, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Lindner, Rosanne, Upper Darby, Pa. Girdle garter. Re. 22,288; Mar. 16.

Mahoney, Paul L. (See Teague, M. C., and Mahoney.)

Otis, Carl W., Menands, N. Y. Display. Re. 22,289; Mar. 16.

Teague, Merwyn C., Ridgewood, N. J., and P. L. Mahoney, Jackson Heights, assignors to United States Rubber Company, New York, N. Y. Making perforate latex rubber films with or without textile fabric backings. Re. 22,290; Mar. 16.

United States Rubber Company. (See Teague, M. C., and Mahoney, assignors.)

LIST OF PLANT PATENTEES

Anderson, Frederic W., Merced, Calif. Plum. 573; Mar. 16.

Conard-Pyle Company, The. (See Meilland, Francis, assignor.)

Meilland, Francis, Tassin-les-Lyon, France, assignor to The Conard-Pyle Company, West Grove, Pa. Rose plant. 574; Mar. 16.

LIST OF DESIGN PATENTEES

Art Metal Company, The. (See Hrabak, Robert A., assignor.)

Bausch & Lomb Optical Company. (See Bausch, William, assignor.)

Bausch, William, assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Goggles. 135,237; Mar. 16.

Bingham, George H., Jr., Lincoln, assignor to Cambridge Rubber Co., Cambridge, Mass. Rubber shoe. 135,238; Mar. 16.

Birnbaum, Charles, Brooklyn, N. Y. Ring mounting. 135,243; Mar. 16.

Borregard, Ernst, Long Island City, N. Y. Display device for paints or the like. 135,244; Mar. 16.

Britz, Maurice, Chicago, Ill. Ash tray. 135,245; Mar. 16.

Burke, Wilfred H., Hutchinson, Kans. Combined collapsible tube and dispensing closure therefor. 135,246; Mar. 16.

Calnan, James P., Belmont, Mass. Crucifix. 135,247; Mar. 16.

Cambridge Rubber Co. (See Bingham, George H., Jr., assignor.)

Cashin, Bonnie, New York, N. Y. Dress. 135,271; Mar. 16.

Center, Charles L., and W. E. Tarr, South Bend, Ind. Desk. 135,251; Mar. 16.

Conner, Cicero E., Dallas, Tex. Ash tray. 135,248; Mar. 16.

Corley, Ralph A., Mountain Lakes, N. J. Pipe coupling. 135,262; Mar. 16.

Drueke, William F., Jr., Grand Rapids, Mich. Game board. 135,239; Mar. 16.

Drueke, William F., Jr., Grand Rapids, Mich. Game board. 135,240; Mar. 16.

Edison, Thomas A., Incorporated. (See La Forest, Louis Z., assignor.)

Eitel-McCullough, Inc. (See Eitel, W. W., and McCullough, assignors.)

Eitel, William W., and J. A. McCullough, assignors to Eitel-McCullough, Inc., San Bruno, Calif. Vacuum relay. 135,252; Mar. 16.

Feisenthal, Ben, New York, N. Y. Emblem pin. 135,263; Mar. 16.

G-H Specialty Company. (See Meyer, Joseph J., assignor.)

Gaston, Guy E., and H. Stilwell, Baltimore, Md. Plaque base or the like. 135,264; Mar. 16.

Henken, William J., Sioux City, Iowa. Combined radio, clock, and table lamp. 135,265; Mar. 16.

Hrabak, Robert A., Lakewood, assignor to The Art Metal Company, Cleveland, Ohio. Ultraviolet sterilizer. 135,253; Mar. 16.

Hrabak, Robert A., Lakewood, assignor to The Art Metal Company, Cleveland, Ohio. Ultraviolet sterilizer. 135,254; Mar. 16.

Hrabak, Robert A., Lakewood, assignor to The Art Metal Company, Cleveland, Ohio. Ultraviolet sterilizer. 135,255; Mar. 16.

Hrabak, Robert A., Lakewood, assignor to The Art Metal Company, Cleveland, Ohio. Ultraviolet sterilizer. 135,256; Mar. 16.

La Forest, Louis Z., Parsippany-Troy Hills Township, Morris County, assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Dual control for phonographs. 135,266; Mar. 16.

Lamb, Thomas, New York, N. Y. Figure toy or the like. 135,267; Mar. 16.

Larson, Willard A., Preston, Idaho. Building block. 135,257; Mar. 16.

Magnuson, A., et al. (See Magnuson, Raymond A., assignor.)

Magnuson, R. A., et al. (See Magnuson, Raymond A., assignor.)

Magnuson, Raymond A., assignor to R. A. Magnuson, A. Magnuson, and E. Peterson, co-partners, doing business as Vogel-Peterson Co., Chicago, Ill. Garment rack. 135,241; Mar. 16.

Mark Cross Company. (See Murphy, Gerald, assignor.)

McCullough, Jack A. (See Eitel, W. W., and McCullough.)

Meyer, Joseph J., assignor to G-H Specialty Company, Milwaukee, Wis. Dog bed. 135,242; Mar. 16.

Moye, Barbara, New York, N. Y. Dress. 135,272; Mar. 16.

Murphy, Gerald, assignor to Mark Cross Company, New York, N. Y. Knitting bag or the like. 135,258; Mar. 16.

Naranick, Nicholas T., U. S. Army, Casper, Wyo. Ration container. 135,249; Mar. 16.

Palmieri, Libero, New York, N. Y. Washing machine for dishes and glasses. 135,250; Mar. 16.

Pereira, Belmiro, New York, N. Y. Ring. 135,259; Mar. 16.

Pereira, Belmiro, New York, N. Y. Ring or similar article. 135,268; Mar. 16.

Peterson, Evelyn, et al. (See Magnuson, Raymond A., assignor.)

Robinson, John, Los Angeles, Calif. Combined airplane body and propellers. 135,260; Mar. 16.

Sloane, Max. (See Sloane, Nathan and M.)

Sloane, Nathan and M., Brooklyn, N. Y. Handbag. 135,261; Mar. 16.

Stilwell, Harold. (See Gaston, G. E., and Stilwell.)

Vogel-Peterson Co. (See Magnuson, Raymond A., assignor.)

Wasserman, Irving, Brooklyn, N. Y. Lady's slip or similar article. 135,269; Mar. 16.

Willingham, Benjamin H., Nashville, Tenn. Polish kit 135,270; Mar. 16.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 16TH DAY OF MARCH, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abbott, Henry H., Yonkers, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signaling system. 2,314,187; Mar. 16.

Abrams, Victor R., Maplewood, N. J., assignor to The Roto Shaver, Inc., New York, N. Y. Shaving apparatus. 2,314,264; Mar. 16.

Acco Products, Inc. (See Brennan, Daniel A., assignor.)

Ace Carton Corporation. (See Berg, Edward C., assignor.)

Acme Machine Tool Company, The. (See Wettig, Theodore A., assignor.)

Adams, Paul G., Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Lock type reset device. 2,313,908; Mar. 16.

Adler, Benjamin H., Chicago, Ill. Changeable letter sign. 2,313,723; Mar. 16.

Adler, Benjamin H., Chicago, Ill. Changeable letter sign. 2,313,724; Mar. 16.

Air Reduction Company. (See Kreiselman, Joseph, assignor.)

Air-way Electric Appliance Corporation. (See Dow, D. M., and Welles, assignors.)

Akers, Charles W., Nashville, Tenn. Molding apparatus. 2,313,716; Mar. 16.

Akron Brass Manufacturing Company. (See Grant, Jordon W., assignor.)

Albree, George N., Winchester, Mass. Implement for removing detonated primers. 2,314,115; Mar. 16.

Albright, Albert M., Detroit, Mich. Match package holder or the like. 2,314,265; Mar. 16.

Algarsson Engineering Company Limited. (See Algarsson, Grettir, assignor.)

Algarsson, Grettir, assignor to Algarsson Engineering Company Limited, Montreal, Quebec, Canada. Variable pitch airscrew. 2,313,795; Mar. 16.

Alien Property Custodian. (See Capay, Norberto.)

Alien Property Custodian. (See Cotal, Jean, assignor.)

Alien Property Custodian. (See Hoolhorst, Clasinus P. E.)

Alien Property Custodian. (See Savary, Jean-Baptiste R.)

Alien Property Custodian. (See Solsek, André.)

Alien Property Custodian. (See Waseige, Charles R.)

Allen, Raymond P., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Treating calcium silicate. 2,314,188; Mar. 16.

Alley, Rembert C. (See Ogden, H. S., and Alley.)

Allied Chemical & Dye Corporation. (See Clark, Earl W., assignor.)

Allied Chemical & Dye Corporation. (See Morgan, Oliver M., assignor.)

Allied Chemical & Dye Corporation. (See Toone, Gilbert C., assignor.)

Allis, Louis, Company, The. (See Smith, H. L., and Rathbun, assignors.)

Alvey, Glenn H., San Antonio, and F. Hubert, Jr., Houston, assignors to Uvalde Rock Asphalt Company, San Antonio, Tex. Method and apparatus for marbleizing plastic compositions. 2,314,062; Mar. 16.

American Anode Inc. (See Winder, George L., assignor.)

American Armament Corporation. (See Joyce, Bryan P., assignor.)

American Bitumuls Company. (See McCoy, Paul E., assignor.)

American Can Company. (See Dashner, Francis J., assignor.)

American Can Company. (See Hothersall, John M., assignor.)

American Can Company. (See Hunter, John S., assignor.)

American Can Company. (See Taylor, Russell C., assignor.)

American Can Company. (See Then, Edward O., assignor.)

American Chemical Paint Company. (See Jones, Franklin D., assignor.)

American Cyanamid Company. (See Boor, L., and Bourdelais, assignors.)

American Isteg Steel Corporation. (See Macklin, Paul M., assignor.)

American Junior Aircraft Company. (See Lambert, Emile.)

American Radiator & Standard Sanitary Corporation. (See Goerg, Bernard, assignor.)

Amidon, Roy C., St. Johnsville, N. Y., assignor to Vanity Fair Mills, Inc. Knitting machine and method. 2,313,725; Mar. 16.

Anderson, Carl E., East Orange, assignor to Eastern Tool & Mfg. Co., Bloomfield, N. J. Making clasp members for belts and the like. 2,313,859; Mar. 16.

Anderson, Carl G., and D. E. Richardson, Chicago, Ill., assignors to United States Golf Association. Apparatus for testing golf balls. 2,314,063; Mar. 16.

Anderton, Elizabeth. (See Crawford, Clyde, assignor.)

Andlauer, Albert, Wilmington, Del. Volume meter and sampler. 2,313,715; Mar. 16.

Andreasson, Rudolf W., Detroit, Mich. Manufacturing metal cutting tools. 2,314,189; Mar. 16.

Archibald, Francis M., Elizabeth, N. J., assignor to Standard Oil Development Company. Purification of recovered sulphuric acid. 2,313,910; Mar. 16.

Armantrout, Kenneth M., Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill. Transmission control. 2,313,717; Mar. 16.

Armstrong, Edward J., assignor to The Union Fork and Hoe Company, Columbus, Ohio. Self-locking tool shank. 2,313,858; Mar. 16.

Arnold, Edwin E., Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electrohydraulic operator. 2,313,909; Mar. 16.

Ashby, Carl T., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Refrigeration. 2,314,064; Mar. 16.

Atchison, Leonard W., Schenectady, N. Y., assignor to General Electric Company. Refrigerating apparatus 2,314,190; Mar. 16.

Atkinson, Truman L., Ludington, Mich. Window ventilator. 2,313,796; Mar. 16.

Atlantic Rayon Corporation. (See Atwell, Everett C., assignor.)

Atlantic Register Company. (See Potter, Charles W.)

Atwell, Everett C., Cranston, assignor to Atlantic Rayon Corporation, Providence, R. I. Dye-resistant coating composition. 2,313,726; Mar. 16.

Atwell, Everett C., Cranston, assignor to Atlantic Rayon Corporation, Providence, R. I. Compositions and preparing and applying same. 2,313,727; Mar. 16.

Austin, Paul R., and W. E. Lundquist, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Tanning. 2,313,728; Mar. 16.

Averitt, Clyde. (See Leggett, Robert R., Sr., assignor.)

Ayer, Raymond B., Verona, N. J., assignor to Radio Corporation of America. Cathode. 2,314,065; Mar. 16.

Ayers, Edgar H., Schenectady, N. Y., assignor to General Electric Company. Control device. 2,314,191; Mar. 16.

Bach, Henry M., Woodmere, assignor, by mesne assignments to Patents Research Corporation, New York, N. Y. Selective system. 2,313,911; Mar. 16.

Bagot, William R., Alameda, Calif. Wall form. 2,314,116; Mar. 16.

Bahnson, Agnew H., Jr., assignor to The Bahnson Company, Winston-Salem, N. C. Louver construction. 2,313,912; Mar. 16.

Bahnson Company, The. (See Bahnson, Agnew H., Jr., assignor.)

Bailey, Roy E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Blending apparatus. 2,313,797; Mar. 16.

Baldwin Locomotive Works, The. (See Mikhalapov, George S., assignor.)

Baldwin Locomotive Works, The. (See Tate, Malcolm C., assignor.)

Ballantine, P., & Sons. (See Lehmann, O. P. R., and Bostock, assignors.)

Ballou, Benton, and L. W. Waters, Ontario, Calif.; said Waters assignor to said Ballou. Freestone pitter. 2,314,066; Mar. 16.

Balls, Arnold K. (See Jansen, E. F., and Balls.)

Bancraft, Joseph, & Sons Co. (See White, George L., assignor.)

Bank of Montclair, executor, et al. (See Ellis, Carleton.)

Bank of the Manhattan Company, trustee. (See Brogden, Ernest M., assignor.)

Banks, Edward, Jr., Menston, England. Valve for steam heated cabinets. 2,313,798; Mar. 16.

Barnes, Walter C., Lake Bluff, Ill. Track testing apparatus. 2,313,729; Mar. 16.

Barnett, Maxwell M., and J. H. Brown, Jr., Port Sulphur, La., assignors to Freeport Sulphur Company, New York, N. Y. Producing sulphur dioxide-olefine resins. 2,314,067; Mar. 16.

Bassist, Ellis. (See Toland, W. C., and Bassist.)

Baston, Cyril E., Forest Hills, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Locomotive control system. 2,313,913; Mar. 16.

Batchelder, Clifton T., Haverhill, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Gauge for cementing machines. 2,313,914; Mar. 16.

Beam, Vilynn O., Cleveland Heights, assignor to The Bryant Heater Company, Cleveland, Ohio. Throttling regulator. 2,314,266; Mar. 16.

Beckham, Leland J., Geddes, assignor to The Solvay Process Company, New York, N. Y. Manufacture of organic sulphitation products. 2,313,719; Mar. 16.

Beckner, Dwight S., Rushville, Ind. Shielded rotary toothbrush. 2,314,117; Mar. 16.

Beckwith, Wendell K., assignor to Milwaukee Electric Tool Corporation, Milwaukee, Wis. Valve seat grinder. 2,314,028; Mar. 16.

Bedford, Alda V., Collingswood, N. J., assignor to Radio Corporation of America. Synchronizing circuit for television receivers. 2,313,915; Mar. 16.

Behrens, Phillip H., assignor of one-third to C. A. Wilcox, and one-third to G. Phillips, Kearney, Nebr. Ore concentrator. 2,314,192; Mar. 16.

Bell Telephone Laboratories, Incorporated. (See Abbott, Henry H., assignor.)

Bell Telephone Laboratories, Incorporated. (See Curtis, Austen M., assignor.)

Bell Telephone Laboratories, Incorporated. (See Doherty, William H., assignor.)

Bell Telephone Laboratories, Incorporated. (See Gray, Frank, assignor.)

Bell Telephone Laboratories, Incorporated. (See Lundstrom, Alexis A., assignor.)

Bell Telephone Laboratories, Incorporated. (See Rigterink, Merle D., assignor.)

Bemis Bro. Bag Company. (See Ewer, A. C., Brady, and Hanse, assignors.)

Bendix-Westinghouse Automotive Air Brake Company. (See Fitch, Ellery R., assignor.)

Benner, Russell E., Middletown, Conn. Shaving device. 2,314,068; Mar. 16.

Benoit, Joseph P., Alton, Ill., assignor to Owens-Illinois Glass Company. Glass blowing machine. 2,314,303; Mar. 16.

Berg, Edward C., Chicago, assignor to Ace Carton Corporation, Cicero, Ill. Shipping and display carton. 2,313,718; Mar. 16.

Berglund, Emil, et al. (See Carlson, James E., assignor.)

Bergmann, Ernst. (See Zondek, B., and Bergmann.)

Bigelow-Sanford Carpet Co. (See Garrity, Spencer S., assignor.)

Bigelow-Sanford Carpet Co. (See Reinhardt, Henry A., assignor.)

Binkley, Stephen B. (See Doisy, E. A., Thayer, Binkley, McKee, and MacCorquodale.)

Bisson, Edward J., St. Paul, assignor to H. L. Millberg, Minneapolis, Minn. Combined service stall and service cabinet. 2,314,118; Mar. 16.

Blackwell, Richard A., Dearborn, Mich. Bending tool. 2,313,720; Mar. 16.

Blair, Benton W., et al. (See Tyndall, Tomas N., assignor.)

Bletcher, Ralph E. (See Bucknell, E. H., and Bletcher.)

Bloomberg, A. (See Dine, N., and Bloomberg.)

Bloomfield, John J., Burbank, Calif., assignor, by mesne assignments, to Vega Aircraft Corporation. Lockup for torque engaged clutches. 2,314,030; Mar. 16.

Blount, Herbert T., assignor to Mills-Alloys, Inc., Los Angeles, Calif. Abrasive blast. 2,314,069; Mar. 16.

Boesing, Ernest A., Long Beach, Calif., assignor to Buffalo Electro-Chemical Company, Inc., Tonawanda, N. Y. Removing carbon deposits from internal combustion engines. 2,313,730; Mar. 16.

Bogoslowsky, Boris, New York, N. Y. Tensioning device. 2,314,070; Mar. 16.

Bogue, Charles B., San Francisco, Calif. Machine for viewing, cutting, and segregating photographic film. 2,313,860; Mar. 16.

Bond, Donald S., Philadelphia, and W. L. Carlson, Haddonfield, N. J., assignors to Radio Corporation of America. Self-orienting radio direction finder. 2,314,029; Mar. 16.

Bone, Herbert L., and J. W. Livingston, Forest Hills, assignors to The Union Switch & Signal Company, Swissvale, Pa. Generator and mounting means therefor. 2,313,916; Mar. 16.

Boor, Ladislav, New Canaan, and C. H. Bourdelais, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Self-releasing machine drive. 2,314,193; Mar. 16.

Borchardt, Lester F., assignor to General Mills, Inc., Minneapolis, Minn. Chemical treatment apparatus. 2,314,119; Mar. 16.

Borg-Warner Corporation. (See Armantrout, Kenneth M., assignor.)

Borg-Warner Corporation. (See Haigh, Vaughn, assignor.)

Borth, Edward C., Watertown, Wis. Toy gun. 2,313,721; Mar. 16.

Bostock, Raymond N. (See Lehmann, O. P. R., and Bostock.)

Boston Machine Works Company. (See Osgood, Walter P., assignor.)

Bottonari, Samuel A. (See Langguth, P. O., and Bottonari.)

Bourdelais, Chesman H. (See Boor, L., and Bourdelais.)

Bowan, Walter J. (See Mueller, F. H., and Bowan.)

Boyer, Raymond F. (See Matheson, L. A., and Boyer.)

Bradshaw, Russell R., assignor to The Dow Chemical Company, Midland, Mich. Molding plastics. 2,313,985; Mar. 16.

Brady, Charles V. (See Ewer, A. C., Brady, and Hanse.)

Braun, Frederick W., Dearborn, assignor to General Motors Corporation, Detroit, Mich. Press unloader. 2,314,120; Mar. 16.

Breckenridge, Frank, Mansfield, Ohio, and R. J. Ridge, Lansdowne, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Cleaning apparatus. 2,313,984; Mar. 16.

Brennan, Daniel A., deceased, by E. L. Zwickel, Chicago, Ill., executor, assignor to Acco Products, Inc., Long Island City, N. Y. Filing equipment. 2,314,121; Mar. 16.

Brennell, Lawrence F., Chicago, Ill., assignor to Wells Lamont Corporation. Display box. 2,314,304; Mar. 16.

Britton, Edgar C., and G. H. Coleman, assignors to The Dow Chemical Company, Midland, Mich. Amine salts of phenols. 2,313,988; Mar. 16.

Britton, Edgar C., and C. L. Moyle, assignors to The Dow Chemical Company, Midland, Mich. Mono-ethers of chloro-alkyl acetals. 2,314,305; Mar. 16.

Brixner, Frederick W., Gates, assignor to General Railway Signal Company, Rochester, N. Y. Centralized traffic controlling system for railroads. 2,314,267; Mar. 16.

Brogden, Ernest M., Orlando, Fla., assignor to president and directors of the Manhattan Company (sometimes known as Bank of the Manhattan Company), trustee, New York, N. Y. Package, packaging container, and blank therefor. 2,313,731; Mar. 16.

Bronson Reel Company. (See Coxe, J. A., and McMahon, assignors.)

Brower, Rodger L. (See Gutenberg, A. C., and Brower.)

Brown, Harold L., assignor to The Dow Chemical Company, Midland, Mich. Plastic helicoidal structure. 2,313,986; Mar. 16.

Brown Instrument Company, The. (See Jones, Harry S., assignor.)

Brown Instrument Company, The. (See Mallory, Robert L., assignor.)

Brown, John H., Jr. (See Barnett, M. M., and Brown Jr.)

Brown, L. M., Inc. (See Brown, Linwood M., assignor.)

Brown, Linwood M., Pittsburgh, Pa., assignor to L. M. Brown, Inc. Forging machine. 2,313,722; Mar. 16.

Brownlee, Henry H., New York, N. Y. Control of power actuated machinery. 2,313,917; Mar. 16.

Brownlee, Henry H., New York, N. Y. Controlling mechanism for ironing machines. 2,313,918; Mar. 16.

Bruno Patents, Inc. (See Bruno, William A., assignor.)

Bruno, William A., Astoria, assignor to Bruno Patents, Inc., Long Island City, N. Y. Indicating relay assembly. 2,314,122; Mar. 16.

Bryan, Harold W. (See Nicholson, F. H., and Bryan.)

Bryant, Frederick W., Montclair, N. J. Sports shirt. 2,314,072; Mar. 16.

Bryant, George F. (See Yeomans, Lucien L., assignor.)

Bryant Heater Company, The. (See Beam, Vilynn O., assignor.)

Buch, Philip O., Rockaway, N. J., assignor to Stapling Machines Co. Box and packaging. 2,314,194; Mar. 16.

Bucknell, Ernest H., and R. E. Bletcher, assignors, by mesne assignments, to Modern Faucet Co., Los Angeles, Calif. Pressure control fitting. 2,314,071; Mar. 16.

Budd, Edward G., Manufacturing Company. (See Eksergian, R., Horton, Morton, and Skivesen, assignors.)

Budd, Edward G., Manufacturing Co. (See Weightman, William A., assignor.)

Buffalo Electro-Chemical Company. (See Boesing, Ernest A., assignor.)

Bullard, E. P., Company. (See Williamson, Evan D., assignor.)

Bullitt, James B., Jr., Swarthmore, P. B. Evans, Wynnewood, and H. H. Hopkins, Swarthmore, Pa., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Coating composition. 2,313,799; Mar. 16.

Burdick, Ralph V., Albany, N. Y. Receptacle and snap-on cover therefor. 2,314,195; Mar. 16.

Burka, Samuel M. (See Crane, C. J., and Burka.)

Burroughs, Richard H., Jr., Oakland, Calif. Aircraft control. 2,313,800; Mar. 16.

Burt, Alexander D., Haddon Heights, N. J., assignor to Radio Corporation of America. Electrical vibrator device. 2,313,919; Mar. 16.

Bushnell, Charles S., assignor to General Railway Signal Company, Rochester, N. Y. Coded continuous inductive train control system. 2,314,268; Mar. 16.

Butenandt, Adolf, Danzig-Langfuhr, Free State of Danzig, assignor, by mesne assignments, to Schering Corporation, Bloomfield, N. J. Halogenated pregnanolones and pregnandiones. 2,313,732; Mar. 16.

Butterfield, Kenneth C., Grand Rapids, assignor to General Motors Corporation, Detroit, Mich. Press unloader. 2,314,123; Mar. 16.

Buttery, Kenneth T., assignor to Sutherland Paper Company, Kalamazoo, Mich. Dispensing carton. 2,313,987; Mar. 16.

Byron Jackson Co. (See Gran, H. E., and Lundeen, assignors.)

Cadwell, Leon L. (See Williams, B. E., and Cadwell.)
Caldwell, Samuel H., Belmont, Mass., J. J. Jaeger, West Hartford, Conn., and R. Taylor, Great Neck, N. Y., assignors to Niles-Bement-Pond Company, West Hartford, Conn. Tracer for electrically controlled machine tools. 2,313,989; Mar. 16.
Caldwell, Walter T., assignor to The George E. Failing Supply Company, Enid, Okla. Drill pipe joint. 2,313,861; Mar. 16.
Campbell, James K., New York, N. Y. Motor driven shaver. 2,314,073; Mar. 16.
Campbell, Julian A., Long Beach, Calif. Gauge strip. 2,313,920; Mar. 16.
Capay, Norberto, Victorias, Philippine Islands; vested in the Alien Property Custodian. Turnplate for cane sugar mills. 2,314,074; Mar. 16.
Carbide and Carbon Chemicals Corporation. (See Pierson, R. C., and Schepman, assignors.)
Carlin, Herbert J., East Orange, and L. N. Crichton, deceased, by R. M. Crichton, administratrix, Livingston, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Regulator control equipment. 2,313,921; Mar. 16.
Carliss, Oswald S., Fairfield, assignor to The Kron Company, Bridgeport, Conn. Dynamometer force measuring apparatus. 2,313,862; Mar. 16.
Carliss, Oswald S., Fairfield, assignor to The Kron Company, Bridgeport, Conn. Bearing play control device. 2,313,863; Mar. 16.
Carliss, Oswald S., Fairfield, assignor to The Kron Company, Bridgeport, Conn. Bearing construction for force measuring apparatus. 2,314,321; Mar. 16.
Carll, Kenneth W., Boston, Mass. Cutting die. 2,313,801; Mar. 16.
Carlsen, Johan F., Brooklyn, N. Y. Safety raft slip lock. 2,313,802; Mar. 16.
Carlson, James E., assignor of three-tenths to G. E. Erickson and three-tenths to E. Berglund, Minneapolis, Minn. Crossbow gun. 2,313,803; Mar. 16.
Carlson, Wendell L. (See Bond, D. S., and Carlson.)
Carr, Donald E., and H. W. Ritchey, assignors to Union Oil Company of California, Los Angeles, Calif. Asphalt and producing same. 2,314,124; Mar. 16.
Carroll, Burt H., and J. A. Leermakers, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y. Photographic emulsion. 2,313,922; Mar. 16.
Carter Carburetor Corporation. (See Martin, Charles L., assignor.)
Casner, James E., Alpine, Tex. Vehicle suspension. 2,314,076; Mar. 16.
Cave, Henry, assignor to The Fuller Brush Company, Hartford, Conn. Making brushes. 2,314,306; Mar. 16.
Celanese Corporation of America. (See Van Brederode, Henry C., assignor.)
Chamberlin Metal Weather Strip Company. (See Willett, Leon E., assignor.)
Chenicek, Albert G. (See Pollack, M. A., and Chenicek.)
Chromogen, Incorporated. (See Gáspár, Béla, assignor.)
Chubb, Lewis W., Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Measurement of torque and power transmitted by shafting. 2,313,923; Mar. 16.
Chubb, Lewis W., Jr. (See Rogers, H. G., and Chubb, Jr.)
Clark, Earl W., Buffalo, N. Y., assignor to Allied Chemical & Dye Corporation. Diazo composition. 2,314,196; Mar. 16.
Cleaners Specialties, Inc. (See Glover, William C., Jr., assignor.)
Clemson Bros., Inc. (See Clemson, Richard D., assignor.)
Clemson, Richard D., assignor to Clemson Bros., Inc., Middletown, N. Y. Mower. 2,314,077; Mar. 16.
Coca, Arthur F., Oradell, N. J., assignor to Lederle Laboratories, Inc., New York, N. Y. Pharmaceutical composition. 2,314,125; Mar. 16.
Colburn, Richard R., Minneapolis, Minn. Apparatus for pneumatically distributing powdered and granular material. 2,314,031; Mar. 16.
Coldwell, John S., assignor to Globe-Union, Inc., Milwaukee, Wis. Spark plug and making the same. 2,314,128; Mar. 16.
Coleman, Gerald H. (See Britton, Edgar C., and Coleman.)
Colley, George F., assignor of two-thirds to N. S. Poindexter, Winston-Salem, N. C. Battery tool. 2,314,126; Mar. 16.
Colley, George F., and N. S. Poindexter, Winston-Salem, N. C. Tire tool. 2,314,127; Mar. 16.
Colonial Lighting Co. Inc. (See Eknayan, Hrant, assignor.)
Comer, Curtis G. (See Keener, B. A., and Comer.)
Conmar Products Corporation. (See Zerumeith, Rudolph E., assignor.)
Consolidated Aircraft Corporation. (See Smith Frank M., assignor.)
Cooper's, Incorporated. (See Fredericksen, Herman, assignor.)
Cotal, Jean, Paris, France; vested in the Alien Property Custodian. Method and device for grinding cooperating faces of friction members. 2,313,804; Mar. 16.
Cousino, Walter F., Toledo, Ohio, assignor of one-half to A. A. Leclerc, Detroit, Mich. Clinch nut and production. 2,314,075; Mar. 16.
Cox, Woodford, Harrisburg, Ill. Thread protector nuts. 2,314,079; Mar. 16.
Coxe, Joseph A., Los Angeles, Calif., and R. P. McMahon, assignors to Bronson Reel Company, Bronson, Mich. Fishing reel. 2,314,032; Mar. 16.
Crago, Harry R., Schenectady, N. Y., assignor to General Electric Company. Automatic condition responsive control. 2,314,197; Mar. 16.
Crampton Manufacturing Company. (See Pleasant, H. E., and Keller, assignors.)
Crandell, Dean D., assignor to National Gypsum Company, Buffalo, N. Y. Wallboard joint system. 2,313,990; Mar. 16.
Crane, Carl J., Dayton, Ohio. Levelling device. 2,313,733; Mar. 16.
Crane, Carl J., Shreveport, La., and S. M. Burka, Dayton, Ohio. Temperature compensated bubble for panoramic sextant. 2,313,734; Mar. 16.
Cravath, Austin M., San Francisco, Calif., assignor to The Union Switch and Signal Company, Swissvale, Pa. Transmitting apparatus for railway train communication systems. 2,313,924; Mar. 16.
Crawford, Bertha O. (See Crawford, Boyd B. and B. O.)
Crawford, Boyd B. and B. O., Independence, Mo. Colonic irrigator. 2,313,805; Mar. 16.
Crawford, Clyde, Tarrant City, assignor of five per cent to E. Anderton, Birmingham, Ala. Window drier. 2,314,078; Mar. 16.
Crichton, Leslie N. (See Carlin, H. J., and Crichton.)
Crichton, Ruth M., administratrix. (See Carlin, H. J., and Crichton.)
Crise, George W., Columbus, Ohio. Electric bed warmer. 2,313,864; Mar. 16.
Crites, Wilbur J., Bartlesville, Okla., assignor to Phillips Petroleum Company. Coring apparatus. 2,313,806; Mar. 16.
Crowell-Collier Publishing Company, The. (See Lundbye, Axel E., assignor.)
Cunningham, Marion M., South Bend, assignor to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind. Stretching machine. 2,314,318; Mar. 16.
Curran, Morven, Kansas City, Mo. Photographic apparatus. 2,314,033; Mar. 16.
Curry, Gladys P., Boston, Mass. Fingerprinting. 2,313,807; Mar. 16.
Curtin, Leo P., Cranbury, N. J., assignor, by mesne assignments, to Parker Rust-Proof Company, Detroit, Mich. Coating metals by the aid of acid sulphites. 2,313,925; Mar. 16.
Curtis, Austen M., South Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Contact protection device. 2,313,809; Mar. 16.
Cutter-Hammer, Inc. (See Hunter, Richard B., assignor.)
Dadant, Henry C., and R. A. Grout, Hamilton, Ill. Bee comb foundation. 2,313,735; Mar. 16.
Dain Manufacturing Company of Iowa. (See Hill, George B., assignor.)
Daley, William E., Alameda, Calif. Caster truck. 2,314,129; Mar. 16.
Dalton, Harold R., Teaneck Township, Bergen County, N. J. Copy and recording paper. 2,313,808; Mar. 16.
Dalton, Harold R., Teaneck, N. J. Copying and recording medium. 2,313,810; Mar. 16.
Daniel, Robert E., Birmingham, Ala., assignor to United States Pipe and Foundry Company. Centrifugal casting apparatus. 2,313,926; Mar. 16.
Daniels, Alfred P. (See Hall, W. C., Jr., and Le Gette, assignors.)
Dashner, Francis J., Oak Park, Ill., assignor to American Can Company, New York, N. Y. Fluxing composition. 2,313,736; Mar. 16.
Davis, Peter J., Streatham, London, England. Chair. 2,314,130; Mar. 16.
De Csaby, László, Tulsequah Township, British Columbia, Canada. Gas generator. 2,314,131; Mar. 16.
De Haas, Moyer P. (See Matheson, L. A., Hach, and De Haas.)
De Laval Separator Company, The. (See Hapgood, Cyrus H., assignor.)
Delray Manufacturing Company. (See Duffy, Thomas I., assignor.)
De Reamer, William J., Crown Point, assignor to Mapes Consolidated Manufacturing Company, Griffith, Ind. Device for use in packing cans and the like. 2,314,198; Mar. 16.
De Roo, William C., assignor to Hart & Cooley Manufacturing Company, Holland, Mich. Grille bar key. 2,314,034; Mar. 16.
De Sherbinin, William N., Mount Kisco, N. Y. Device for viewing transparent objects. 2,313,737; Mar. 16.
Dickey, Joseph B., and J. G. McNally, assignors to Eastman Kodak Company, Rochester, N. Y. Azo dye. 2,313,738; Mar. 16.
Dillon, Irving W., Melrose, Mass. Gauge for internal screw threads. 2,314,199; Mar. 16.
Dine, Norman, and A. Bloomberg, assignors to T. Sieger, New York, N. Y. Anatomical support. 2,314,080; Mar. 16.
Disney, Walt, Productions. (See Garity, W. E., and Hawkins, assignors.)
Doherty, William H., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. High frequency amplifier. 2,314,132; Mar. 16.

Doisy, Edward A., Webster Groves, S. A. Thayer, Kirkwood, S. B. Binkley, Richmond Heights, R. W. McKee, St. Louis, Mo., and D. W. MacCorquodale, Highland Park, Ill., assignors to President and Board of Trustees of St. Louis University, St. Louis, Mo. Naphthalenic compounds. 2,313,739; Mar. 16.
Domtje, Emanuel C., Kalamazoo, Mich. Turf spiking machine. 2,314,035; Mar. 16.
Dorfman, Hiller D., Forest Hills, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Solderless connector. 2,313,927; Mar. 16.
Dough-King, Inc. (See Lagnard, Alexander S. T., assignor.)
Dow Chemical Company, The. (See Bradshaw, Russell R., assignor.)
Dow Chemical Company, The. (See Britton, E. C., and Coleman, assignors.)
Dow Chemical Company, The. (See Britton, E. C., and Moyle, assignors.)
Dow Chemical Company, The. (See Brown, Harold L., assignor.)
Dow Chemical Company, The. (See Loose, William S., assignor.)
Dow Chemical Company, The. (See Matheson, Lorne A., assignor.)
Dow Chemical Company, The. (See Matheson, L. A., and Boyer, assignors.)
Dow Chemical Company, The. (See Matheson, L. A., Hach, and De Haas, assignors.)
Dow Chemical Company, The. (See McDonald, John C., assignor.)
Dow Chemical Company, The. (See Stone, John B., assignor.)
Dow Chemical Company, The. (See Taylor, F. L., and Livak, assignors.)
Dow Chemical Company, The. (See Topping, Carl E., assignor.)
Dow, Dewey M., and G. D. Welles, assignors to Air-Way Electric Appliance Corporation, Toledo, Ohio. Vacuum cleaner. 2,314,081; Mar. 16.
Drake, Newman H., Essex Fells, N. J., assignor to Snelling Bros. & Drake, New York, N. Y. Winch. 2,314,200; Mar. 16.
Dressel, Clement A. (See Dressel, Segal and C. A.)
Dressel, Segal and C. A., Los Angeles, Calif. Manufacturing roofing trim. 2,314,036; Mar. 16.
Dubner, Harry J., Forest Hills, N. Y. Foundation garment. 2,313,811; Mar. 16.
Duffy, James F., assignor to Duffy Manufacturing Company, Holland, Mich. Scuff plate. 2,313,812; Mar. 16.
Duffy Manufacturing Company. (See Duffy, James F., assignor.)
Duffy, Thomas I., assignor to Delray Manufacturing Company, Detroit, Mich. Crankshaft mounting. 2,314,133; Mar. 16.
Dupler, Raymond R., Toledo, Ohio. Globe clock. 2,314,269; Mar. 16.
Du Pont, E. I., de Nemours & Company. (See Austin, P. R., and Lundquist, assignors.)
Du Pont, E. I., de Nemours & Company. (See Bullitt, J. B., Jr., Evans, and Hopkins, assignors.)
Du Pont, E. I., de Nemours & Company. (See Engelmann, M., and Pikl, assignors.)
Du Pont, E. I., de Nemours & Company. (See Hanford, W. E., and Salzberg, assignors.)
Du Pont, E. I., de Nemours & Company. (See Hennion, George F., assignor.)
Du Pont, E. I., de Nemours & Company. (See Sullivan, Roy W., assignor.)
Dworkin, Jacob, Rochester, N. Y. Pocket fountain brush. 2,313,865; Mar. 16.
Dyer, John B., assignor to General Motors Corporation, Dayton, Ohio. Domestic appliance. 2,313,928; Mar. 16.
Eastern Tool & Mfg. Co. (See Anderson, Carl E., assignor.)
Eastman Kodak Company. (See Carroll, B. H., and Leermakers, assignors.)
Eastman Kodak Company. (See Dickey, J. B., and McNally, assignors.)
Easy Washing Machine Corporation. (See Scheele, Charles C., assignor.)
Ebbert, Daniel F., Wheeling, W. Va. Collapsible bed. 2,313,813; Mar. 16.
Eisler, Charles, South Orange, N. J. Conveyer for glass vials. 2,313,814; Mar. 16.
Eitel-McCullough, Inc. (See Eitel, W. W., and McCullough, assignors.)
Eitel, William W., San Bruno, and J. A. McCullough, Millbrae, assignors to Eitel-McCullough, Inc., San Bruno, Calif. Cathode structure. 2,314,037; Mar. 16.
Eknayan, Hrant, Weehawken, assignor to Colonial Lighting Co. Inc., North Bergen, N. J. Gaseous discharge device. 2,314,134; Mar. 16.
Ekonomiregister Inc. (See Nyberg, Ernst V., assignor.)
Eksergian, Rupen, Media, and R. H. Horton, J. W. Morton, and N. K. Skivesen, assignors to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Truck construction. 2,313,740; Mar. 16.
Electrical Testing Laboratories. (See Temple, Trevor, assignor.)
Electronbeam, Incorporated. (See Zisholz, Herbert, assignor.)
Electro-Sharp Mfg. Co. (See Boderick, Arthur J., assignor.)
Elliott, Theodore, Winchester, Mass. Ski binding. 2,314,270; Mar. 16.
Ellis, Bertram, executor, et al. (See Ellis, Carleton.)
Ellis, Carleton, deceased, C. Ellis, Jr., B. Ellis, and Bank of Montclair, executors, assignors to Ellis Laboratories, Inc. Printing ink. 2,314,307; Mar. 16.
Ellis, Carleton, deceased, C. Ellis, Jr., B. Ellis, and Bank of Montclair, executors, assignors to Ellis Laboratories, Inc. Urea-aldehyde adhesive composition. 2,314,308; Mar. 16.
Ellis, Carleton, Jr., executor, et al. (See Ellis, Carleton.)
Ellis Laboratories, Inc. (See Ellis, Carleton, assignor.)
Ellison, Leslie J. (See Richards, E. A., and Ellison.)
Elsey, Howard M., Oakmont, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Testing refrigerating apparatus. 2,314,201; Mar. 16.
Elting, August O., Chicago, Ill. Fluorescent tube mounting. 2,314,038; Mar. 16.
Engelmann, Max, Wilmington, Del., and J. Pikl, Pitman, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Organic compounds and making the same. 2,313,741; Mar. 16.
Engelmann, Max, Wilmington, Del., and J. Pikl, Pitman, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Treating textile fiber. 2,313,742; Mar. 16.
Evans, Peter B. (See Bullitt, J. B., Jr., Evans, and Hopkins.)
Evans, Theodore W., K. E. Marple, and E. C. Shokal, Oakland, assignors to Shell Development Company, San Francisco, Calif. Production of epoxide ethers. 2,314,039; Mar. 16.
Ewer, Arthur C., Brooklyn, N. Y., C. V. Brady, Webster Groves, Mo., and R. W. Hanse, Freeport, N. Y., assignors to Bemis Bro. Bag Company, St. Louis, Mo. Fabric tubing. 2,314,202; Mar. 16.
Fabian, Constantine F., Brookfield, and J. B. Lee, assignors to Lee Bros. Hats, Inc., Danbury, Conn. Process of and composition for waterproofing permeable materials. 2,314,135; Mar. 16.
Failing, George E., Supply Company, The. (See Caldwell, Walter T., assignor.)
Fairbairn, Eric P., Coventry, assignor to The General Electric Company Limited, London, England. Telephone system. 2,313,815; Mar. 16.
Fairclough, Edward, assignor to Willard Storage Battery Company, Cleveland, Ohio. Battery separator. 2,314,203; Mar. 16.
Fairhurst, Leonard G., assignor to Rotol Airscrews Limited, Gloucester, England. Airscrew. 2,314,136; Mar. 16.
Farrell, Harold R., et al. (See Krause, Victor W., assignor.)
Field, Howard, Jr., Los Angeles, assignors to North American Aviation Inc., Inglewood, Calif. Hydraulic press. 2,314,082; Mar. 16.
Finch, James L., Patchogue, N. Y., assignor to Radio Corporation of America. Low capacity filament transformer system. 2,314,083; Mar. 16.
Fingold, Reuben, Pittsburgh, Pa. Threaded container closure. 2,313,816; Mar. 16.
Finlayson, Alexander S., Hopewell, Va., assignor to Hercules Powder Company, Wilmington, Del. Manufacture of cellulose ethers. 2,313,866; Mar. 16.
Fischer & Porter Company, The. (See Porter, George K., assignor.)
Fitch, Ellery R., assignor to Bendix-Westinghouse Automotive Air Brake Company, Pittsburgh, Pa. Brake mechanism. 2,313,991; Mar. 16.
Fogarty, George E. (See Smith, E. R., and Fogarty.)
Fontecilla, Manuel, Dayton, Ohio. Loose leaf binding device. 2,314,204; Mar. 16.
Forschner, Vilem, New York, N. Y. Shoe. 2,314,205; Mar. 16.
Fredericksen, Herman, assignor to Cooper's, Incorporated, Kenosha, Wis. Undergarment. 2,313,992; Mar. 16.
Freeport Sulphur Company. (See Harnett, M. M., and Brown, Jr., assignors.)
Frey, Frederick E., assignor to Phillips Petroleum Company, Bartlesville, Okla. Converting hydrocarbons. 2,314,040; Mar. 16.
Friden Calculating Machine Co. (See Friden, Carl M., assignor.)
Friden, Carl M., Pleasanton, Calif., assignor to Friden Calculating Machine Co., Inc. Calculating machine. 2,313,817; Mar. 16.
Fried, Armin, Los Angeles, Calif. Tool for chamfering, recessing, and the like. 2,314,084; Mar. 16.
Fuchs, Julius, assignor of forty-five per cent to J. Verhun, Cleveland, Ohio. Carburetor for explosion engines. 2,313,929; Mar. 16.
Fuel Refining Corporation. (See Otto, Carl, assignor.)
Fuller Brush Company, The. (See Cave, Henry, assignor.)
Fuller, Everett W., and E. M. Nygaard, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Diesel fuel. 2,314,137; Mar. 16.

Galsman, Henry J., Hartsdale, N. Y., assignor to Gillette Safety Razor Company, Boston, Mass. Razor blade. 2,313,818; Mar. 16.

Galstaun, Lionel S. (See Hyde, H. Y., Viland, and Galstaun.)

Garbe, Rudolph H., Forest Park, and F. S. Wesley, Downers Grove, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Thread tapping apparatus. 2,314,138; Mar. 16.

Garberding, Waldo L., Chicago, Ill. Automatic die stop structure. 2,314,271; Mar. 16.

Garity, William E., and J. N. A. Hawkins, Los Angeles, assignors to Walt Disney Productions, Burbank, Calif. Sound recording system. 2,313,867; Mar. 16.

Garlinghouse, Leslie H., Los Angeles, Calif. Acetylene tank cap. 2,313,868; Mar. 16.

Garrity, Spencer S., Amsterdam, N. Y., assignor to Bigelow-Sanford Carpet Co., Inc., Thompsonville, Conn. Axminster loom tube frame. 2,314,139; Mar. 16.

Gáspár, Béla, Hollywood, Calif., assignor to Chromogen, Incorporated. Organic sulphur and selenium compounds. 2,313,993; Mar. 16.

Gates Manufacturing Company. (See Kline, Joseph M., assignor.)

Gayring, Wallace F., Minoa, assignor to The Prosperity Company, Inc., Syracuse, N. Y. Two hand control. 2,313,869; Mar. 16.

Gebauer, Charles L., Shaker Heights, assignor to The Gebauer Chemical Company, Cleveland, Ohio. Device for dispensing liquid in the form of spray. 2,313,930; Mar. 16.

Gebauer Chemical Company, The. (See Gebauer, Charles L., assignor.)

Gee, Norman E., Narberth, Pa. Drive unit for locomotives. 2,314,085; Mar. 16.

Geiselman, Ralph A., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electrical regulating system. 2,313,931; Mar. 16.

Genck, Worthington D. (See Hennessey, R. J., Genck, and Guyer.)

General Electric Company. (See Atchison, Leonard W., assignor.)

General Electric Company. (See Ayers, Edgar H., assignor.)

General Electric Company. (See Crago, Harry, R., assignor.)

General Electric Company. (See Grobel, Lloyd P., assignor.)

General Electric Company. (See Gurewitsch, Anatole M., assignor.)

General Electric Company. (See Hausler, George M., assignor.)

General Electric Company. (See Karash, Walter J., assignor.)

General Electric Company. (See Lichtenfels, Ira W., assignor.)

General Electric Company. (See McConnell, Andrew J., assignor.)

General Electric Company. (See McLenegan, David W., assignor.)

General Electric Company. (See Ogden, H. S., and Alley, assignors.)

General Electric Company. (See Owens, Joseph W., assignor.)

General Electric Company. (See Pratt, William H., assignor.)

General Electric Company. (See Reed, William A., assignor.)

General Electric Company. (See Salisbury, John K., assignor.)

General Electric Company. (See Taylor, Laurens A., assignor.)

General Electric Company. (See Traver, Oliver C., assignor.)

General Electric Company Limited, The. (See Fairbairn, Eric P., assignor.)

General Mills, Inc. (See Bochardt, Lester F., assignor.)

General Motors Corporation. (See Braun, Frederick W., assignor.)

General Motors Corporation. (See Butterfield, Kenneth C., assignor.)

General Motors Corporation. (See Dyer, John B., assignor.)

General Motors Corporation. (See Gerard, F. W., Rataiczak, and Schweller, assignors.)

General Railway Signal Company. (See Brixner, Frederick W., assignor.)

General Railway Signal Company. (See Bushnell, Charles S., assignor.)

General Railway Signal Company. (See Judge, Thomas J., assignor.)

General Railway Signal Company. (See Little, R. J., and Judge, assignors.)

General Railway Signal Company. (See Pickell, Clark A., assignor.)

Geneva Processes, Inc. (See McLean, William A., assignor.)

Gerard, Frank W., Oakwood, F. I. Rataiczak, and S. M. Schweller, assignors to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,313,932; Mar. 16.

Glenger, Albert C., Chiloquin, Oreg. Tractor plane. 2,313,934; Mar. 16.

Giffords, Harry, New York, N. Y. Heating system. 2,314,086; Mar. 16.

Gillette Safety Razor Company. (See Galsman, Henry J., assignor.)

Globe-Union, Inc. (See Coldwell, John S., assignor.)

Glover, William C., Jr., Raytown, assignor to Cleaners Specialties, Inc., Kansas City, Mo. Cleaning machine for cuffs of trousers and the like. 2,313,935; Mar. 16.

Goddard, Marcus J. (See Nagy, P., and Goddard.)

Goerg, Bernard, Bronxville, assignor to American Radiator & Standard Sanitary Corporation, New York, N. Y. Heating apparatus. 2,313,933; Mar. 16.

Goetzman, Carl A. (See Weber, J., Jr., C. F., L. H., W. F., F. H., E. W., and L. G., and Goetzman.)

Golden, Hayden, Kewanee, Ill. Foot corrector. 2,313,870; Mar. 16.

Golden State Company. (See Peebles, David D., assignor.)

Goodhue, Lyle D. (See Sullivan, W. N., and Goodhue.)

Goodrich, B. F., Company, The. (See Allen, Raymond P., assignor.)

Grant, Jordan W., Portsmouth, Va., assignor to Akron Brass Manufacturing Company, Inc., Wooster, Ohio. Spray nozzle. 2,313,994; Mar. 16.

Grau, Albert D., Tacoma, Wash. Juice extracting device. 2,314,206; Mar. 16.

Grau, Herbert E., and C. A. Lundeen, Vernon, assignors to Byron Jackson Co., Huntington Park, Calif. Pipe tong. 2,313,743; Mar. 16.

Gray, Frank, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge apparatus. 2,313,819; Mar. 16.

Graziano, Joseph, Newburgh, assignor of one-twentieth to L. Madrazo, Flushing, and one-twentieth to J. Russo, White Plains, N. Y. Engine fuel vaporizer. 2,134,140; Mar. 16.

Grobel, Lloyd P., Schenectady, N. Y., assignor to General Electric Company. Shaft seal. 2,314,207; Mar. 16.

Groskritz, George, Hartford, assignor to United Aircraft Corporation, East Hartford, Conn. Valve setting template. 2,313,936; Mar. 16.

Grout, Roy A. (See Dadant, H. C., and Grout.)

Grubb, Henry M. (See Tucker, E. B., and Grubb.)

Grudin, Louis, New York, N. Y. Apparatus for photographically reproducing display type lines and the like. 2,314,272; Mar. 16.

Gunderson, Ralph R., Detroit, Mich. Liquid tapping and blowing loss eliminator. 2,314,273; Mar. 16.

Gurewitsch, Anatole M., Schenectady, N. Y., assignor to General Electric Company. Shaft lock. 2,314,208; Mar. 16.

Gurries, Albert G., Gilroy, Calif. Lift for implement frames. 2,314,041; Mar. 16.

Gutenberg, Andrew C., and R. L. Brower, Milwaukee, Wis. Vacuum controlling device for carburetors. 2,314,141; Mar. 16.

Guyer, Reynolds. (See Hennessey, R. J., Genck, and Guyer.)

Haas, Carl F. (See Yost, I. A., and Haas.)

Hach, Floyd C. (See Matheson, L. A., Hach, and De Haas.)

Haigh, Vaughn, Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill. Transmission control. 2,314,042; Mar. 16.

Hall, Burton C., Mansfield, Conn. Level. 2,314,209; Mar. 16.

Hall, James E., Columbus, Ohio. Method and apparatus for weatherproofing aggregate and the like. 2,313,820; Mar. 16.

Hall, Willard C., Jr., and E. L. Le Gette, assignors to A. P. Daniels, Los Angeles, Calif. Frequency doubler device. 2,313,938; Mar. 16.

Hallowell, Howard T., assignor to Standard Pressed Steel Co., Jenkintown, Pa. Self-locking setscrew. 2,314,274; Mar. 16.

Hammond Bag & Paper Company. (See Springborn, John F., assignor.)

Handel, Stanley T., New York, N. Y., assignor to The Verplex Company, Essex, Conn. Record holder. 2,313,821; Mar. 16.

Haney, Stanley C., Chicago, Ill., assignor to Sinclair Refining Company, New York, N. Y. Catalytic hydrogenation. 2,314,142; Mar. 16.

Hanford, Raymond C., Aurora, Ohio. Work scheduling means. 2,314,275; Mar. 16.

Hanford, Raymond C., Aurora, Ohio. Work scheduling apparatus. 2,314,276; Mar. 16.

Hanford, William E., and P. L. Salzberg, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Polythiourea. 2,313,871; Mar. 16.

Hanhart, Walter. (See Straub, F., and Hanhart.)

Hanse, Robert W. (See Ewer, A. C., Brady, and Hanse.)

Hanson, Gordon B., Houston, Tex., assignor, by mesne assignments, to Petrolite Corporation, Ltd., Wilmington, Del. Method and apparatus for electrically treating oils. 2,313,939; Mar. 16.

Hapgood, Cyrus H., Nutley, N. J., assignor to The De Laval Separator Company, New York, N. Y. Automatic pulsator for milking machines. 2,313,822; Mar. 16.

Harrigan, Wesley, Milwaukee, Wis. Bowling ball support. 2,313,823; Mar. 16.

Hart & Cooley Manufacturing Company. (See De Roo, William C., assignor.)

Hartmann Trunk Company. (See Ritter, Alois A., assignor.)

Hausler, George M., Ballston Lake, N. Y., assignor to General Electric Company. Condition responsive control. 2,314,210; Mar. 16.

Hausler, George M., Ballston Lake, N. Y., assignor to General Electric Company. Condition responsive control. 2,314,211; Mar. 16.

Hawkins, John N. A. (See Garity, W. E., and Hawkins.)

Hays, Robert F., Jr., Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Starting relay circuit for fluorescent lamps. 2,313,744; Mar. 16.

Hays, Robert F., Jr., Bloomfield, N. J., and C. H. Hodgkins, Fairfield, Conn., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Thermal switch for fluorescent lamps. 2,313,745; Mar. 16.

Hazeltine Corporation. (See Lewis, Harold M., assignor.)

Hazelton, George, and C. H. James, Leicester, England, assignors to United Shoe Machinery Corporation, Flemington, N. J. Heel groove molding machine. 2,313,937; Mar. 16.

Heany Industrial Ceramic Corporation. (See Heany, John A., assignor.)

Heany, John A., New Haven, Conn., assignor to Heany Industrial Ceramic Corporation, Rochester, N. Y. Making magnesia ceramics. 2,313,746; Mar. 16.

Heller, George, Englewood, N. J., assignor of one-half to H. M. Herbener, Thomasville, Ga. Producing magazines. 2,314,087; Mar. 16.

Heller, George, Englewood, N. J., assignor of one-half to H. M. Herbener, Thomasville, Ga. Magazine or the like. 2,314,088; Mar. 16.

Hendricks, John C., Jr., R. L. Snideman, and D. P. Wheeler, Elkhart, Ind. Carrier. 2,314,143; Mar. 16.

Hennessey, Russell J., W. D. Genck, and R. Guyer, assignors to Waldorf Paper Products Company, St. Paul, Minn. Shirt protector. 2,314,213; Mar. 16.

Hennion, George F., South Bend, Ind., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Nitration of cyclic organic compounds. 2,314,212; Mar. 16.

Herbener, Henry M. (See Heller, George, assignor.)

Hercules Powder Company. (See Finlayson, Alexander S., assignor.)

Hercules Powder Company. (See Traylor, William N., assignor.)

Herzer, Alfred E. (See Meier, Karl H., assignor.)

Hess, Frederic O., Germantown, and J. W. Townsend, assignors to The Selas Company, Philadelphia, Pa. Aircraft heater. 2,314,089; Mar. 16.

Hettrick Manufacturing Company, The. (See Lee, Robert E., assignor.)

Heyne, Clarence A. (See Jackson, A. S., and Heyne.)

Hicks, Chester C., Indianapolis, Ind. Break device for hinge supports. 2,314,144; Mar. 16.

Hiiblom, Samuel E., Chicago, Ill., assignor to International Harvester Company. Sweep rake. 2,314,214; Mar. 16.

Hiiblom, Samuel E., Chicago, Ill., assignor to International Harvester Company. Mower. 2,314,215; Mar. 16.

Hiiblom, Samuel E., Chicago, Ill., assignor to International Harvester Company. Control means for agricultural implements. 2,314,216; Mar. 16.

Hill, George B., assignor to Dain Manufacturing Company of Iowa, Ottumwa, Iowa. Feed cutter. 2,313,872; Mar. 16.

Hirsch, Joel H., assignor to The Vickers Petroleum Co. of Delaware, Wichita, Kans. Catalytic cracking and reclamation of catalysts. 2,313,940; Mar. 16.

Hobbs, Marvin, Chicago, Ill., assignor to E. H. Scott Radio receiver. 2,314,309; Mar. 16.

Hoch, Walter A., Forest Hills, assignor to New York Pressing Iron Co. Inc., New York, N. Y. Garment pressing machine. 2,313,824; Mar. 16.

Hodgkins, Charles H. (See Hays, R. F., Jr., and Hodgkins.)

Hoffman, Allan C. (See Lusher, A. C., and Hoffman.)

Holm, Carl B., Englewood, N. J., assignor to International Braid Company. Display box. 2,313,747; Mar. 16.

Hoolhorst, Clasinus P. E., Bloemendaal, Netherlands; vested in the Alien Property Custodian. Drum press. 2,313,996; Mar. 16.

Hopkins, Horace M. (See Bullitt, J. B., Jr., Evans, and Hopkins.)

Horton, Reuben H. (See Eksergian, R., Horton, Morton, and Skivesen.)

Hothersall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Can making machine. 2,313,748; Mar. 16.

Hothersall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Forming can parts. 2,313,749; Mar. 16.

Hothersall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Lining can ends. 2,313,750; Mar. 16.

Howard, George G. (See Lusher, A. C., Tompkins, and Howard.)

Howe, Harold, Rowayton, Conn. Folding ironing table and the like. 2,314,043; Mar. 16.

Hubert, Fred, Jr. (See Alvey, G. H., and Hubert, Jr.)

Huff, Arthur E., Lemay, assignor to Monsanto Chemical Company, St. Louis, Mo. Leavening preparation. 2,314,090; Mar. 16.

Hughes, Daniel K., assignor to The National Cash Register Company, Dayton, Ohio. Interlock. 2,313,873; Mar. 16.

Huling, Charles F. (See Monnot, Robert, assignor.)

Hume, Gertrude, Claremont, Calif. Educational shoe for children. 2,313,874; Mar. 16.

Humphrey, Stanley M., and M. M. A. Seeloff, assignors to The Taylor-Winfield Corporation, Warren, Ohio. Press welder construction. 2,313,941; Mar. 16.

Hunter, John S., Oak Park, Ill., assignor to American Can Company, New York, N. Y. Fluxing device. 2,313,751; Mar. 16.

Hunter, Richard B., Shorewood, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Crane limit switch. 2,313,995; Mar. 16.

Hunting, Arthur J., Eureka, Calif. Bathtub structure. 2,314,044; Mar. 16.

Hurd, Ira S., Jenkintown, assignor to Röhm & Haas Company, Philadelphia, Pa. Glazing fabric. 2,314,277; Mar. 16.

Hyde, Herschel Y., Associated, C. K. Viland, Martinez, and L. S. Galstaun, assignors to Tide Water Associated Oil Company, San Francisco, Calif. Treatment of hydrocarbon gases. 2,314,217; Mar. 16.

Hydraulic Brake Company. (See Loweke, Erwin F., assignor.)

Imperial Brass Manufacturing Company, The. (See Kellems, Edgar E., assignor.)

Imperial Chemical Industries Limited. (See Smith, T. A., and Thompson, assignors.)

Industrial Patents Corporation. (See Rinehart, Cleo A., assignor.)

Industrial Patents Corporation. (See Walter, Charles T., assignor.)

Industrial Patents Corporation. (See Williams, Beverly E., assignor.)

Industrial Patents Corporation. (See Williams, B. E., and Cadwell, assignors.)

Ingersoll-Rand Company. (See Jimerson, Francis A., assignor.)

International Braid Company. (See Holm, Carl B., assignor.)

International Business Machines Corporation. (See Watson, Thomas J., assignor.)

International Harvester Company. (See Hiiblom, Samuel E., assignor.)

International Harvester Company. (See Morris, David M., assignor.)

International Harvester Company. (See Mott, Carl W., assignor.)

International Harvester Company. (See Welty, Albert B., assignor.)

International-Stacey Corporation. (See Selberg, John P., assignor.)

International Standard Electric Corporation. (See Litton, Charles V., assignor.)

International Standard Electric Corporation. (See Richards, E. A., and Ellison, assignors.)

Jackson, Albert S., Wood River, and C. A. Heyne, Alton, Ill., assignors to Owens-Illinois Glass Company. Bottle testing apparatus. 2,314,310; Mar. 16.

Jackson, James O., Crafton, Pa. Pressure storage tank. 2,313,997; Mar. 16.

Jaeger, Jacob J. (See Caldwell, S. H., Jaeger, and Taylor.)

James, Cyril H. (See Hazelton, G., and James.)

James, Lester E. deceased; M. B. James, Swampscott, Mass., administratrix, assignor to United Shoe Machinery Corporation, Flemington, N. J. Mechanical movement. 2,314,278; Mar. 16.

James, Mary B., administratrix. (See James, Lester E.)

Jansen, Eugene F., Takoma Park, and A. K. Balls, Washington, D. C., dedicated to the free use of the People in the territory of the United States. Proteolytic enzyme process. 2,313,875; Mar. 16.

Jasco, Incorporated. (See Kellog, H. B., and Lightbown, assignors.)

Jelinek, Ulrich, Elizabeth, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Making balls. 2,313,876; Mar. 16.

Jimerson, Francis A., Athens, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Safety device. 2,314,218; Mar. 16.

Johnson, Erick G., Rock Island, Ill. Battery clamp. 2,314,219; Mar. 16.

Johnson, Floyd D., Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Relay system. 2,313,942; Mar. 16.

Johnson, John R. (See Smith, C. B., and Johnson.)

Johnson, Joseph M., Birmingham, Ala. Traffic rate finding machine. 2,313,998; Mar. 16.

Johnson, Lane, Milwaukee, Wis., assignor to S. V. H. Corporation, Lake Forest, Ill. Hair remover. 2,314,220; Mar. 16.

Johnson, William, Council Bluffs, Iowa. Means to protect lawns and fields. 2,314,045; Mar. 16.

Jones, Franklin D., Upper Darby, assignor to American Chemical Paint Company, Ambler, Pa. Regulating the growth of plants. 2,314,091; Mar. 16.

Jones, Harry S., assignor to The Brown Instrument Company, Philadelphia, Pa. Control apparatus. 2,313,943; Mar. 16.

Jones, Sam P., Dallas, Tex. Method of and system for vaporizing hydrocarbon liquids. 2,314,279; Mar. 16.

Joyce, Bryan P., East Orange, N. J., assignor to American Armament Corporation, New York, N. Y. Wheeled vehicle. 2,313,877; Mar. 16.

Judge, Thomas J. (See Little, R. J., and Judge.)

Judge, Thomas J., assignor to General Railway Signal Company, Rochester, N. Y. Coded track circuit signaling system. 2,314,280; Mar. 16.

Kalajian, Harry J., assignor to Harley C. Loney Company, Detroit, Mich. Removing tool for balance weights. 2,314,145; Mar. 16.

Kalter, Harold E., assignor to The Troxel Manufacturing Company, Elyria, Ohio. Cycle saddle. 2,314,046; Mar. 16.

Kamborian, Jacob S., West Newton, Mass. Shoe lasting apparatus. 2,314,047; Mar. 16.

Karash, Walter J., Annapolis, Md., assignor to General Electric Company. Apparatus for starting and controlling electric discharge devices. 2,314,311; Mar. 16.

Kardos, John and W., Perth Amboy, N. J. Tamping machine. 2,313,825; Mar. 16.

Kardos, William. (See Kardos, John and W.)

Katz, Morris, Bronx, N. Y. Cellulosic ribbon spool and constructing the same. 2,314,146; Mar. 16.

Keener, Barnett A., New Lebanon, and C. G. Comer, Dayton, Ohio. Portable welding unit. 2,313,944; Mar. 16.

Kellems, Edgar E., Pasadena, Calif., assignor to The Imperial Brass Manufacturing Company, Chicago, Ill. Flaring and swedging tool. 2,314,221; Mar. 16.

Keller, Fred M. (See Pleasant, H. E., and Keller.)

Keller, William H., Inc. (See Shaff, Ernest H., assignor.)

Kellog, Henry B., Union City, and I. E. Lightbown, Elizabeth, N. J., assignors, by mesne assignments, to Jasco, Incorporated. Age resistor for rubber compositions. 2,313,945; Mar. 16.

Kelly, Norval R., Douglaston, Long Island, N. Y., assignor to Radio Corporation of America. Device for simulating certain sound effects. 2,314,092; Mar. 16.

Kemper, Maxwell F., Los Angeles, Calif. Tunnel cementing apparatus. 2,313,826; Mar. 16.

Kennedy Van Saun Mfg. & Eng. Corporation. (See Pyle, John V., assignor.)

Kingdom of The Netherlands, Post Office Administration. (See Van Dunren, Hendrik C. A., assignor.)

Kishline, Floyd F., assignor to Nash-Kelvinator Corporation, Kenosha, Wis. Steering linkage. 2,313,946; Mar. 16.

Kline, Joseph M., assignor to Gates Manufacturing Company, Indianapolis, Ind. Universal seat back cover. 2,313,878; Mar. 16.

Klinkum, Anna J. M., New York, N. Y. Screen and grating for stereoscopic pictures. 2,313,947; Mar. 16.

Knapp, William C., East Orange, N. J., assignor to Mattison Machine Works, Rockford, Ill. Grinding method and apparatus. 2,314,312; Mar. 16.

Knott, Emmet K., Seattle, Wash. Pumping apparatus. 2,314,281; Mar. 16.

König, Joseph, London, England. Projecting images with flickering effect. 2,314,222; Mar. 16.

Krause, Victor W., assignor of one-third to H. R. Farrell, Rockford, and one-third to E. A. Shellman, Grand Rapids, Mich. Eyeglass. 2,313,879; Mar. 16.

Kreiselman, Joseph, Washington, D. C., assignor to Air Reduction Company, Incorporated, New York, N. Y. Apparatus for administering oxygen. 2,313,999; Mar. 16.

Kron Company, The. (See Carliss, Oswald S., assignor.)

Ladewig, Archie E., Waukesha, Wis. Bottle washing apparatus. 2,314,048; Mar. 16.

Lagaard, Alexander S. T., assignor to Dough-King, Inc., Minneapolis, Minn. Doughnut machine. 2,313,949; Mar. 16.

Lambert, Emile, Concordia, Kans., assignor to N. E. Walker, D. E. Walker, and L. B. Walker, doing business under name and style American Junior Aircraft Company, Portland, Oreg. Gliding dart. 2,313,948; Mar. 16.

Lamia, Joseph L., et al. (See Tyndall, Tomas N., assignor.)

Landon, Vernon D., Haddonfield, N. J., assignor to Radio Corporation of America. Automatic radio direction finder. 2,314,093; Mar. 16.

Lane, Madge S., Chicago, Ill. Pin. 2,314,223; Mar. 16.

Langdon, Ira B., Stockton, Calif. Cigarette. 2,314,147; Mar. 16.

Langguth, Paul O., and S. A. Bottonari, Wilkinsburg, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Potential device. 2,313,950; Mar. 16.

Lapointe Machine Tool Company, The. (See Phaneuf, Wilrose J., assignor.)

Larson, Harry, Oakland, Calif. Automatic multiple sash window. 2,313,827; Mar. 16.

Lasky, Mervyn C., Los Angeles, Calif. Dental bridge. 2,314,094; Mar. 16.

Lawrence, Raymond J., Brookfield, Ill. Gas range valve closing means. 2,314,095; Mar. 16.

Le Clair, Titus G., Chicago, Ill. Automatic printing metering system. 2,313,752; Mar. 16.

Leclerc, Albert A. (See Cousino, Walter F., assignor.)

Lederle Laboratories, Inc. (See Coca, Arthur F., assignor.)

Lee Bros. Hats, Inc. (See Fabian, C. F., and Lee, assignors.)

Lee, James B. (See Fabian, C. F., and Lee.)

Lee, Robert E., Toledo, Ohio, assignor to The Hettrick Manufacturing Company. Hunting coat. 2,314,226; Mar. 16.

Leece, Bennett M., Shaker Heights, assignor to The Leece-Neville Company, Cleveland, Ohio. Regulator unit and mounting. 2,314,225; Mar. 16.

Leece-Neville Company, The. (See Leece, Bennett M., assignor.)

Leermakers, John A. (See Carroll, B. H., and Leermakers.)

Lefere, Alidor, assignor to Lefere Forge & Machine Company, Jackson, Mich. Press fixture. 2,314,148; Mar. 16.

Lefere Forge & Machine Company. (See Lefere, Alidor, assignor.)

Le Gette, Everett L. (See Hall, W. C., Jr., and Le Gette.)

Leggett, Robert R., Sr., assignor of forty-five per cent to C. Averitt, Fort Worth, Tex. Concrete wall form. 2,313,880; Mar. 16.

Lehmann, Otto P. R., East Orange, and R. N. Bostock, Upper Montclair, assignors to P. Ballantine & Sons, Newark, N. J. Cap marking mechanism for container capping machines. 2,313,828; Mar. 16.

Leino, Eino M., Helsingfors, assignor to O. Y. W. Schauman A. B., Jyvaskyla, Finland. Searing machine. 2,314,049; Mar. 16.

Leippe, Richard M., East Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Watthour meter. 2,313,951; Mar. 16.

Lenke, George H., Elmhurst, assignor of one-half to J. J. Ohlis, Oak Park, Ill. Wall construction. 2,314,224; Mar. 16.

Le Tourneau, R. G., Inc. (See Le Tourneau, Robert G., assignor.)

Le Tourneau, Robert G., Peoria, Ill., assignor to R. G. Le Tourneau, Inc. Antiskid roadway. 2,313,829; Mar. 16.

Leverenz, Humboldt W., South Orange, N. J., assignor to Radio Corporation of America. Luminescent lamp. 2,314,096; Mar. 16.

Levin, Ezra, Chicago, Ill. Treating cereal grain germ. 2,314,282; Mar. 16.

Levine, David I., assignor to Lisson-Melen Co., Lynn, Mass. Spring assembly. 2,314,050; Mar. 16.

Lewis, Harold M., Great Neck, N. Y., assignor to Hazeltine Corporation. Attenuator circuit. 2,313,952; Mar. 16.

Lewis, Robert H., West Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Theftproof meter cover. 2,313,881; Mar. 16.

Lichtenfels, Ira W., St. Louis, Mo., assignor to General Electric Company. Railway control analyzer. 2,314,283; Mar. 16.

Lieberherr, Hans, assignor to Sulzer Frères, Société Anonyme, Winterthur, Switzerland. Coupling for transmitting torques. 2,314,227; Mar. 16.

Lightbown, Irving E. (See Kellog, H. G., and Lightbown.)

Limbach, Patick E. (See Peters, Albert G., assignor.)

Lipscomb, Robert U., and W. G. Reid, El Paso, Tex. Automatic center adjuster. 2,314,149; Mar. 16.

Lisson-Melen Co. (See Levine, David I., assignor.)

Litman, Morris, Springfield, Mass. Receptacle. 2,313,882; Mar. 16.

Little, Robert J., Gates, and T. J. Judge, assignors to General Railway Signal Company, Rochester, N. Y. Polar relay. 2,314,228; Mar. 16.

Litton, Charles V., Redwood City, Calif., assignor to International Standard Electric Corporation, New York, N. Y. Equipotential cathode. 2,314,097; Mar. 16.

Livak, John E. (See Taylor, F. L., and Livak.)

Livingston, John W. (See Bone, H. L., and Livingston.)

Loney, Harley C., Company. (See Kalajian, Harry J., assignor.)

Loose, William S., assignor to The Dow Chemical Company, Midland, Mich. Treating magnesium and its alloys. 2,313,753; Mar. 16.

Loose, William S., assignor to The Dow Chemical Company, Midland, Mich. Protecting magnesium and its alloys from corrosion. 2,313,754; Mar. 16.

Loose, William S., assignor to The Dow Chemical Company, Midland, Mich. Producing protective coatings upon magnesium and its alloys. 2,313,755; Mar. 16.

Loose, William S., assignor to The Dow Chemical Company, Midland, Mich. Electroplating magnesium. 2,313,756; Mar. 16.

Loughborough, William K., Madison, Wis., assignor to Claude R. Wickard, as Secretary of Agriculture of the United States of America, and to his successors in office. Resinifying ligno-cellulosic material. 2,313,953; Mar. 16.

Loweke, Erwin F., assignor to Hydraulic Brake Company, Detroit, Mich. Fluid pressure system. 2,314,150; Mar. 16.

Lowther, William P., Inglewood, Calif. Sheet metal clamp. 2,313,883; Mar. 16.

Lund, Alvin O. (See Martin, P. M., and Lund.)

Lundbye, Axel E., assignor to The Crowell-Collier Publishing Company, Springfield, Ohio. Doctor blade. 2,313,820; Mar. 16.

Lundeen, Chester A. (See Grau, H. E., and Lundeen.)

Lundquist, William E. (See Austin, P. R., and Lundquist.)

Lundstrom, Alexis A., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signaling system. 2,314,229; Mar. 16.

Lunken, Edmund H., Springfield Township, Hamilton County, Ohio. Window guard and screen. 2,314,230; Mar. 16.

Lurcott, Winfred N. (See Sterne, L. H., and Lurcott.)

Lusher, Albert C., Waterbury, and A. C. Hoffman, Milldale, assignors to Scovill Manufacturing Company, Waterbury, Conn. High pressure hose coupling. 2,314,000; Mar. 16.

Lusher, Albert C., E. H. Tompkins, and G. G. Howard, assignors to Scovill Manufacturing Company, Waterbury, Conn. High pressure hose coupling. 2,314,001; Mar. 16.

Lusher, Albert C., E. H. Tompkins, F. R. Reutter, and G. G. Howard, assignors to Scovill Manufacturing Company, Waterbury, Conn. Manufacturing and assembling high pressure couplings. 2,314,002; Mar. 16.

MacCorquodale, Donald W. (See Doisy, E. A., Thayer, Binkley, McKee, and MacCorquodale.)

Macklin, Paul M., Tuckahoe, N. Y., assignor, by mesne assignments, to American Isteg Steel Corporation. Twisting machine. 2,314,151; Mar. 16.

Mader, Emil A., assignor of one-half to J. Spargo, Detroit, Mich. Counterbalanced louver construction. 2,314,003; Mar. 16.

Madrazo, Louis, et al. (See Graziano, Joseph, assignor.)

Malek, Morris S., Bronx, assignor of one-half to McCurrach Organization Incorporated, New York, N. Y. Label tacking machine. 2,313,832; Mar. 16.

Mallory, Robert L., Houston, Tex., assignor to The Brown Instrument Company, Philadelphia, Pa. Control instrument. 2,314,152; Mar. 16.

Mapes Consolidated Manufacturing Company. (See De Reamer, William J., assignor.)

Marcus, Samuel, South Orange, assignor to Voices, Inc., Bayonne, N. J. Selective voice for toys. 2,314,153; Mar. 16.

Mariani, George V., San Antonio, Tex. Beverage dispensing device. 2,313,954; Mar. 16.

Marmet, Fred C., Canoga Park, Calif. Device for restricting movement of an animal's neck and head. 2,313,833; Mar. 16.

Marple, Kenneth E. (See Evans, T. W., Marple, and Shokal.)

Marschke, Reinhold B., St. Paul, Minn. Folding stairway. 2,314,004; Mar. 16.

Martin, Charles L., assignor to Carter Carburetor Corporation, St. Louis, Mo. Fluid motor. 2,314,005; Mar. 16.

Martin, Merrell R., Gilbertsville, Ky. Roller lifter. 2,314,284; Mar. 16.

Martin, Paul M., Chicago, Ill., and A. O. Lund, East Orange, assignors to Westinghouse Electric Elevator Company, Jersey City, N. J. Elevator control system. 2,313,955; Mar. 16.

Martin, Randolph K., Cambridge, Mass., assignor to Polaroid Corporation, Dover, Del. Display device. 2,313,831; Mar. 16.

Maschinenfabrik Schärer. (See Siegelthaler, Walter, assignor.)

Mathaus, Lillian W., Atlanta, Ga. Collapsible crib. 2,313,834; Mar. 16.

Matheson, Lorne A., assignor to The Dow Chemical Company, Midland, Mich. Electric arc apparatus. 2,314,006; Mar. 16.

Matheson, Lorne A., and R. F. Boyer, assignors to The Dow Chemical Company, Midland, Mich. Vinylidene chloride composition stable to light. 2,313,757; Mar. 16.

Matheson, Lorne A., F. C. Hach, and M. P. De Haas, assignors to The Dow Chemical Company, Midland, Mich. Electric arc apparatus. 2,314,007; Mar. 16.

Matthews, Norris W., Caldwell, Ohio. Electric meter. 2,313,758; Mar. 16.

Mattison Machine Works. (See Knapp, William C., assignor.)

Mattoon, Laura E., San Francisco, Calif. Collapsible package carrier. 2,313,884; Mar. 16.

Maurer, Claren S., Toledo, Ohio. Scale integrating mechanism. 2,314,011; Mar. 16.

McCabe, Ira E., Chicago, Ill. Temperature controlling system. 2,313,835; Mar. 16.

McCarthy, Timothy F., Indiana, Pa. Loading apparatus. 2,314,008; Mar. 16.

McCarthy, Timothy F., Indiana, Pa. Loading apparatus. 2,314,009; Mar. 16.

McCleary, Lorin D., Indianapolis, Ind. Laundry machine. 2,314,155; Mar. 16.

McConnell, Andrew J., Upper Darby, Pa., assignor to General Electric Company. Protective system. 2,314,231; Mar. 16.

McCoy, Clarence E., Western Springs, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Work feeding apparatus. 2,314,154; Mar. 16.

McCoy, Paul E., assignor to American Bitumuls Company, San Francisco, Calif. Bituminous composition and making the same. 2,313,759; Mar. 16.

McCullough, Jack A. (See Eirel, W. W., and McCullough.)

McCurrach Organization Incorporated. (See Malek, Morris S., assignor.)

McDonald, John C., assignor to The Dow Chemical Company, Midland, Mich. Rolling magnesium-base alloys. 2,314,010; Mar. 16.

McDonald, Mary C. (See McDonald, Raymond, assignor.)

McDonald, Raymond, assignor to M. C. McDonald, Philadelphia, Pa. Making shoes. 2,314,098; Mar. 16.

McGrane, Norman M., Long Beach, assignor to Western Precipitation Corporation, Los Angeles, Calif. Dispersion mill. 2,313,956; Mar. 16.

McKee, Ralph W. (See Doisy, E. A., Thayer, Binkley, McKee, and MacCorquodale.)

McLean, William A., assignor to Geneva Processes, Inc., Geneva, N. Y. Mixing device. 2,313,760; Mar. 16.

McLenegan, David W., Caldwell, N. J., assignor to General Electric Company. Air conditioning control system and apparatus. 2,314,232; Mar. 16.

McMahon, Richard P. (See Coxe, J. A., and McMahon.)

McMenamin, Joseph, Philadelphia, Pa. Coffee percolator. 2,313,761; Mar. 16.

McNally, James G. (See Dickey, J. B., and McNally.)

McSween, William E., Cleveland, Ohio. Fluorescent light socket. 2,314,233; Mar. 16.

Meier, Karl H., assignor to A. E. Herzer, Zurich, Switzerland. Frame antenna arrangement. 2,314,234; Mar. 16.

Meyers, Henry C., Irwin, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Vapor electric device. 2,313,957; Mar. 16.

Micro Switch Corporation. (See Riche, Arthur L., assignor.)

Midgett, Rollie L., San Antonio, Tex. Automatic well test seal. 2,313,762; Mar. 16.

Mikhalapov, George S., Village of Hunting Valley, Ohio, assignor to The Baldwin Locomotive Works. Spot welding machine. 2,314,099; Mar. 16.

Millberg, Harry L. (See Bisson, Edward J., assignor.)

Miller, Max B., & Co. (See Tuttle, Malcolm H., assignor.)

Miller, Robert P., San Gabriel, Calif. Pump. 2,313,826; Mar. 16.

Mills-Alloys, Inc. (See Blount, Herbert T., assignor.)

Milwaukee Electric Tool Corporation. (See Beckwith, Wendell K., assignor.)

Mishawaka Rubber and Woolen Manufacturing Company. (See Cunningham, Marion M., assignor.)

Mishawaka Rubber and Woolen Manufacturing Company. (See Sarkisian, Nishan S., assignor.)

Modern Faucet Co. (See Bucknell, E. H., and Bletcher, assignors.)

Monitor Process Corporation. (See Tamminga, William, assignor.)

Monnot, Robert, San Carlos, assignor of one-half to C. F. Huling, Mountain View, Calif. Valve lock remover and catcher. 2,313,885; Mar. 16.

Monsanto Chemical Company. (See Huff, Arthur F., assignor.)

Morgan, Oliver M., Snyder, N. Y., assignor to Allied Chemical & Dye Corporation. Cleaning metal surfaces. 2,314,285; Mar. 16.

Morris, David M., Richmond, Ind., assignor to International Harvester Company. Power lift. 2,314,235; Mar. 16.

Morse, Herbert B. (See Porter, Rotheus B., Jr., assignor.)

Morton, John W. (See Eksergian, R., Horton, Morton, and Skivesen.)

Mott, Carl W., La Grange, Ill., assignor to International Harvester Company. High pressure hose fitting. 2,314,236; Mar. 16.

Moyle, Clarence L. (See Britton, E. C., and Moyle.)

Mueller Co. (See Mueller, F. H., and Bowman, assignors.)

Mueller, Frank H., and W. J. Bowan, assignors to Mueller Co., Decatur, Ill. Drilling apparatus. 2,314,012; Mar. 16.

Mueller, Frank H., and W. J. Bowan, assignors to Mueller Co., Decatur, Ill. Drilling apparatus. 2,314,013; Mar. 16.

Mueller, Frank H., and W. J. Bowan, assignors to Mueller Co., Decatur, Ill. Drilling apparatus. 2,314,014; Mar. 16.

Muller, Jacques, Crepieu Ain, France. Laminated sole construction. 2,314,237; Mar. 16.

Naab, George, assignor to H. Naab, Atlanta, Ga. Fire escape attachment for ladders. 2,313,958; Mar. 16.

Naab, Henry. (See Naab, George, assignor.)

Nagy, Paul, Richmond, and M. J. Goddard, Newberry, England. Electronic valve device. 2,313,886; Mar. 16.

Nash-Kelvinator Corporation. (See Kishline, Floyd F., assignor.)

Nash-Kelvinator Corporation. (See Sladky, Joseph F., assignor.)

National Cash Register Company, The. (See Hughes, Daniel K., assignor.)

National Cash Register Company, The. (See Nelson, Gunnar, assignor.)

National Cash Register Company, The. (See Williams, Paul H., assignor.)

National Gypsum Company. (See Crandell, Dean D., assignor.)

Nelson, Gunnar, assignor to The National Cash Register Company, Dayton, Ohio. Mechanical relay. 2,313,959; Mar. 16.

New York Pressing Iron Co. Inc. (See Hoch, Walter A., assignor.)
Nicholson, Frank H., and H. W. Bryan, Penn Township, Allegheny County, assignors to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,313,887; Mar. 16.
Niles-Bement-Pond Company. (See Caldwell, S. H., Jaeger, and Taylor, assignors.)
Niles-Bement-Pond Company. (See Shaw, Robert D., assignor.)
Nissim, Raoul, London, England. Electric arc furnace with removable hearth or roof. 2,313,837; Mar. 16.
Nordquist, Robert G., assignor to Patent License Corporation, Chicago, Ill. Mirror illumination. 2,313,838; Mar. 16.
North American Aviation Inc. (See Field, Howard, Jr., assignor.)
Nyberg, Ernst V., Stockholm, Sweden, assignor, by mesne assignments, to Ekonomiregister Inc., New York, N. Y. Consecutive numbering mechanism for calculating machines. 2,314,156; Mar. 16.
Nygaard, Edwin M. (See Fuller, E. W., and Nygaard.)
O'Brien, Joseph F., Jersey City, N. J., assignor to John B. Pierce Foundation, New York, N. Y. Electrical wiring system. 2,313,960; Mar. 16.
O'Brien, Vincent R., St. Paul, Minn. Bread and work board and sink construction. 2,314,157; Mar. 16.
Ogden, Harry S., and R. C. Alley, Erie, Pa., assignors to General Electric Company. Control system and device. 2,314,239; Mar. 16.
Ogleshee, Wendell, Lakewood, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electric discharge lamp circuit. 2,313,961; Mar. 16.
Ohlis, Julius J., Oak Park, Ill. Glass panel construction. 2,314,238; Mar. 16.
Ohlis, Julius J. (See Lenke, George H., assignor.)
Olcott, Charles A., West Milford, N. J. Gear drive for centrifugal machines. 2,314,286; Mar. 16.
Olsen, Anders C., Gwynedd, Pa. Building construction. 2,313,839; Mar. 16.
Olsen, Louis E., Cleveland, Ohio. Nut assembly. 2,313,763; Mar. 16.
Oman, Nils J., Merchantville, N. J., assignor to Radio Corporation of America. Audio frequency amplifier. 2,313,962; Mar. 16.
Osgood, Walter P., Malden, assignor to Boston Machine Works Company, Lynn, Mass. Coating machine. 2,314,051; Mar. 16.
Otis, Erial B., assignor to The Wallace Press, Chicago, Ill. Stop mechanism for web feed. 2,313,888; Mar. 16.
Otto, Carl, New York, N. Y., assignor to Fuel Refining Corporation, Dover, Del. Operating coke ovens. 2,313,764; Mar. 16.
Owens-Illinois Glass Company. (See Benoit, Joseph P., assignor.)
Owens-Illinois Glass Company. (See Jackson, A. S., and Heyne, assignor.)
Owens-Illinois Glass Company. (See Smith, C. B., and Johnson, assignors.)
Owens, Joseph W., Schenectady, N. Y., assignor to General Electric Company. Control device. 2,314,240; Mar. 16.
Panagopoulos, John, Youngstown, Ohio. Apparatus for dispensing beverages. 2,314,100; Mar. 16.
Parker Rust-Proof Company. (See Curtin, Leo P., assignor.)
Parks, Walter J., Shaker Heights, Ohio. Gyratory screen. 2,313,765; Mar. 16.
Parsons, Stuart W., assignor to The Stanley Works, New Britain, Conn. Counterbalance for overhead doors. 2,314,015; Mar. 16.
Patent License Corporation. (See Nordquist, Robert G., assignor.)
Patents Research Corporation. (See Bach, Henry M., assignor.)
Patrick, Joshua, Detroit, Mich. Tool. 2,313,963; Mar. 16.
Peatrophone Corporation. (See Van Deventer, Harry R., assignor.)
Peebles, David D., Berkeley, assignor to Golden State Company, Ltd., San Francisco, Calif. Spray drying apparatus and method. 2,314,159; Mar. 16.
People, in the territory of the United States, Dedicated to the free use of the. (See Jansen, E. F., and Balls, assignors.)
Peredson, Harold N., Huntington Park, Calif. Closure and spout. 2,314,052; Mar. 16.
Peters, Albert G., assignor of one-third to P. E. Leimbach, and one-third to B. J. Manley, Powell, Wyo. Control valve. 2,314,158; Mar. 16.
Peters, Alva E., Olney, Ill. Pipe nipple tool. 2,314,016; Mar. 16.
Peters & Russell, Inc. (See Russell, Linus E., assignor.)
Petrolite Corporation. (See Hanson, Gordon B., assignor.)
Pfanstiehl, Carl, Highland Park, Ill., assignor to Pfanstiehl Chemical Company. Container for phonograph needles and the like. 2,313,766; Mar. 16.
Pfanstiehl Chemical Company. (See Pfanstiehl, Carl, assignor.)
Pfingsten, August F. (See Slotsky, S. J., and Pfingsten.)
Phaneuf, Wilrose J., assignor to The Lapointe Machine Tool Company, Hudson, Mass. Roughing broach. 2,314,160; Mar. 16.
Phillips, Gilbert, et al. (See Behrens, Phillip H., assignor.)
Phillips Petroleum Company. (See Bailey, Roy E., assignor.)
Phillips Petroleum Company. (See Crites, Wilbur J., assignor.)
Phillips Petroleum Company. (See Frey, Frederick E., assignor.)
Phipps, Charles A., Hartsdale, N. Y. Hair drying apparatus. 2,314,101; Mar. 16.
Pickell, Clark A., assignor to General Railway Signal Company, Rochester, N. Y. Railway signaling system. 2,314,241; Mar. 16.
Pierce, John B., Foundation. (See O'Brien, Joseph F., assignor.)
Pierce, Lawrence, Edgewood, and J. W. Samzelius, Forest Hills, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electric switch. 2,313,964; Mar. 16.
Pierson, Paul R. (See Rugg, H. H., and Pierson.)
Pierson, Ralph C., and W. G. Schepman, Indianapolis, Ind., assignors to Carbide and Carbon Chemicals Corporation. Cylinder supporting and protecting device. 2,313,965; Mar. 16.
Pikl, Josef. (See Engelmann, M., and Pikl.)
Pittman, Ralph R., and C. H. Walsh, Pine Bluff, Ark. Power directional fused network. 2,314,017; Mar. 16.
Pittsburgh Plate Glass Company. (See Pollack, M. A., and Chenicek, assignors.)
Pleasant, Herman E., Grand Rapids, and F. M. Keller, assignors to Crampton Manufacturing Company, Holland, Mich. Valve actuating lever. 2,313,840; Mar. 16.
Poch, Waldemar J., Moorestown, N. J., assignor to Radio Corporation of America. Cathode ray tube system. 2,313,966; Mar. 16.
Poindexter, Nat S. (See Colley, George F., assignor.)
Poindexter, Nathaniel S. (See Colley, G. F., and Poindexter.)
Polaroid Corporation. (See Martin, Randolph K., assignor.)
Polaroid Corporation. (See Rogers, H. G., and Chubb, Jr., assignors.)
Pollack, Maxwell A., Akron, and A. G. Chenicek, Barberton, Ohio, assignors to Pittsburgh Plate Glass Company, Allegheny County, Pa. Hydrolysis of allyl halides. 2,313,767; Mar. 16.
Poole, Russell W., Edgerton, Ohio. Apparatus for scoring and cutting veneers. 2,314,102; Mar. 16.
Pope, Demetrios K., Gary, Ind. Balancing machine. 2,314,287; Mar. 16.
Porter, George K., assignor, by mesne assignments, to Fischer & Porter Company, Hatboro, Pa. Rotameter and the like. 2,313,889; Mar. 16.
Porter, Rothens B., Jr., Malden, assignor to Herbert B. Morse, Wellesley Hills, Mass. Preparation of emulsions for waterproofing and fireproofing purposes. 2,314,242; Mar. 16.
Potter, Charles W., assignor, by mesne assignments, to Atlantic Register Company, Waltham, Mass. Sheet magazine and feeding device for typewriting machines. 2,314,243; Mar. 16.
Pratt, William H., Lynn, Mass., assignor to General Electric Company. Volt-ampere demand recorder. 2,314,244; Mar. 16.
President and Board of trustees of St. Louis University. (See Doisy, E. A., Thayer, Binkley, McKee, and MacCorquodale, assignors.)
President and Directors of the Manhattan Company, trustee. (See Brogden, Ernest M., assignor.)
Progressive Welder Company. (See Van Eck, Cornelius B., assignor.)
Prosperity Company, Inc., The. (See Gayring, Wallace F., assignor.)
Putt, Donald L., Fairfield, Ohio. Control lever. 2,313,768; Mar. 16.
Pyle, John V., Pleasantville, assignor to Kennedy-Van Saun Mfg. & Eng. Corporation, New York, N. Y. Steam generator. 2,313,841; Mar. 16.
Quaker Oats Company, The. (See Winterkorn, Hans F., assignor.)
Radio Corporation of America. (See Ayer, Raymond B., assignor.)
Radio Corporation of America. (See Bedford, Alda V., assignor.)
Radio Corporation of America. (See Bond, D. S., and Carlson, assignors.)
Radio Corporation of America. (See Burt, Alexander D., assignor.)
Radio Corporation of America. (See Finch, James L., assignor.)
Radio Corporation of America. (See Kelly, Norval R., assignor.)
Radio Corporation of America. (See Landon, Vernon D., assignor.)
Radio Corporation of America. (See Leverenz, Humboldt W., assignor.)
Radio Corporation of America. (See Oman, Nils J., assignor.)
Radio Corporation of America. (See Poch, Waldemar J., assignor.)
Radio Corporation of America. (See Rankin, John A., assignor.)
Radio Corporation of America. (See Read, Sidney, Jr., assignor.)

Radio Corporation of America. (See Roe, John H., assignor.)
Radio Corporation of America. (See Rose, George M., Jr., assignor.)
Radio Corporation of America. (See Shardlow, Lawrence R., assignor.)
Radio Corporation of America. (See Usselman, George L., assignor.)
Radio Corporation of America. (See Wendt, Karl R., assignor.)
Radio Corporation of America. (See Young, Charles J., assignor.)
Raizner, Nathan, New York, N. Y. Lighting fixture. 2,314,103; Mar. 16.
Rankin, John A., Port Washington, N. Y., assignor to Radio Corporation of America. Frequency modulated wave generator. 2,314,161; Mar. 16.
Ratniczak, Francis I. (See Gerard, F. W., Ratniczak, and Schweller.)
Rathbun, Frank J. (See Smith, H. L., and Rathbun.)
Rathbun, Merrell L., Salamanca, N. Y. Closed receptacle or case. 2,314,245; Mar. 16.
Ray, William A., Los Angeles, Calif. Fluid control valve. 2,313,890; Mar. 16.
Read, Sidney, Jr., Haddonfield, N. J., assignor to Radio Corporation of America. Cathode ray oscillograph for recording transients. 2,313,967; Mar. 16.
Reece, Herbert A., Cleveland Heights, Ohio. Apparatus and method for the control of air flow through furnace tuyères. 2,313,769; Mar. 16.
Reed, William A., West Caldwell, N. J., assignor to General Electric Company. Oil rate control for burners. 2,314,288; Mar. 16.
Reich, Ernest, Quakertown, Pa. Heating device. 2,313,968; Mar. 16.
Reid, William G. (See Lipscomb, R. U., and Reid.)
Reinhardt, Henry A., Longmeadow, Mass., assignor to Bigelow-Sanford Carpet Co., Inc., Thompsonville, Conn. Floor covering and manufacture. 2,314,162; Mar. 16.
Reutter, Frederick R. (See Lusher, A. C. Tompkins, Reutter, and Howard.)
Richards, Edward A., and L. J. Ellison, London, England, assignors to International Standard Electric Corporation, New York, N. Y. Selenium rectifier. 2,314,104; Mar. 16.
Richardson, Donald E. (See Anderson, C. G., and Richardson.)
Riche, Arthur L., assignor to Micro Switch Corporation, Freeport, Ill. Control apparatus. 2,313,969; Mar. 16.
Ridge, Raymond J. (See Breckenridge, F., and Ridge.)
Rigterink, Merle D., Forest Hills, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Steatite type ceramic material. 2,313,842; Mar. 16.
Rinehart, Cleo A., assignor to Industrial Patents Corporation, Chicago, Ill. Casing treatment. 2,314,313; Mar. 16.
Ringrose, Joseph E., Redmond, Oreg. Poultry wing feather stripper. 2,313,770; Mar. 16.
Ritchey, Harold W. (See Carr, D. E., and Ritchey.)
Ritter, Alois A., assignor to Hartmann Trunk Company, Racine, Wis. Buckle. 2,314,246; Mar. 16.
Roderick, Arthur J., assignor to Electro-Sharp Mfg. Co., Portland, Maine. Method of and apparatus for sharpening electric razors and the like. 2,313,970; Mar. 16.
Roe, John H., Merchantville, N. J., assignor to Radio Corporation of America. Television system. 2,313,971; Mar. 16.
Rogers, Howard G., Wellesley Hills, and L. W. Chubb, Jr., Sharon, assignors to Polaroid Corporation, Cambridge, Mass. Apparatus for applying light-polarizing material to curved surfaces. 2,313,891; Mar. 16.
Röhm & Haas Company. (See Hurd, Ira S., assignor.)
Rose, George M., Jr., East Orange, N. J., assignor to Radio Corporation of America. Making headers. 2,314,105; Mar. 16.
Rosenberg, Max, and J. Weissblatt, New York, N. Y. Lubricating attachment. 2,314,163; Mar. 16.
Rossman, Allen M., Wilmette, Ill. Electric switch. 2,313,771; Mar. 16.
Rothermel, Royden A., London, England. Making storage battery separators. 2,314,053; Mar. 16.
Roto Shaver, Inc., The. (See Abrams, Victor R., assignor.)
Rotol Airscrews Limited. (See Fairhurst, Leonard G., assignor.)
Rugg, Harold H., and P. R. Pierson, Wilkinsburg, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Bus structure. 2,313,972; Mar. 16.
Runyan, Bernie A., Quenemo, Kans. Animal trap. 2,314,247; Mar. 16.
Rushing, Frank C., Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Low frequency resilient mounting. 2,313,893; Mar. 16.
Russell, Arthur L., Boston, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Bonding by adhesive. 2,313,892; Mar. 16.
Russell, Linus E., assignor to Peters & Russell, Inc., Springfield, Ohio. Exhaust pipe shroud. 2,313,772; Mar. 16.
Russo, Jack, et al. (See Graziano, Joseph, assignor.)
Rutledge, Robert G., Ann Arbor, Mich. Stove construction. 2,314,248; Mar. 16.
S. V. H. Corporation. (See Johnson, Lane, assignor.)
Salisbury, John K., Schenectady, N. Y., assignor to General Electric Company. Elastic fluid turbine. 2,314,289; Mar. 16.
Salzberg, Paul L. (See Hanford, W. E., and Salzberg.)
Samiran, David, Fairfield, Ohio. Air eliminator. 2,313,773; Mar. 16.
Samzelius, John W. (See Pierce, L., and Samzelius.)
Sanderson, John W., La Jolla, Calif. Coffee maker. 2,314,018; Mar. 16.
Sanna, Charles A. (See Sanna, Filip L. and C. A.)
Sanna Dairy Engineers. (See Sanna, Filip L. and C. A., assignors.)
Sanna, Filip L., Madison, and C. A. Sanna, Gary, Ind., assignors to Sanna Dairy Engineers, Madison, Wis. Injector apparatus. 2,313,894; Mar. 16.
Sarkisian, Nishan S., assignor to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind. Garment curing method. 2,314,164; Mar. 16.
Savary, Jean-Baptiste R., Paris, France; vested in the Alien Property Custodian. Safety razor having adjustable guards. 2,313,895; Mar. 16.
Schauman, O. Y. Wilh., A. B. (See Leino, Eino M., assignor.)
Scheible, Eugene S., Fort Worth, Tex. Oil accelerator. 2,313,896; Mar. 16.
Scheele, Charles C., assignor to Easy Washing Machine Corporation, Syracuse, N. Y. Rubber coupling. 2,314,315; Mar. 16.
Schepman, Willis G. (See Pierson, R. C., and Schepman.)
Schering Corporation. (See Butenandt, Adolf, assignor.)
Schlesman, Carleton H., Camden, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Feed device. 2,314,316; Mar. 16.
Schornstein, L. A., and R. M., Galveston, Tex. Hat package. 2,314,106; Mar. 16.
Schornstein, Raphael M. (See Schornstein, Leopold A. and R. M.)
Schweller, Sylvester M. (See Gerard, F. W., Ratniczak, and Schweller.)
Scott, E. H. (See Hobbs, Marvin, assignor.)
Scott, Gilbert W., Jacksonville, Ill. Lathe. 2,314,055; Mar. 16.
Scott, Lloyd H., Garden City, N. Y. Terminal for electrical conductors. 2,313,774; Mar. 16.
Scott, Lloyd H., Garden City, N. Y. Terminal for electrical conductors. 2,313,775; Mar. 16.
Scott-Paine, Hubert, and D. R., Thomas, Hythe, England; said Thomas assignor to said Scott-Paine. Steering gear for vehicles. 2,314,165; Mar. 16.
Scoville Manufacturing Company. (See Lusher, A. C., and Hoffman, assignors.)
Scoville Manufacturing Company. (See Lusher, A. C., Tompkins, and Howard, assignors.)
Scoville Manufacturing Company. (See Lusher, A. C., Tompkins, Reutter, and Howard, assignors.)
Secretary of Agriculture of the United States of America, Claude R. Wickard, and to his successors in office. (See Sullivan, W. N., and Goodhue, assignors.)
Seeloff, Melvin M. A. (See Humphrey, S. M., and Seeloff.)
Segal, Samuel, Brooklyn, N. Y. Toilet paper holder. 2,313,776; Mar. 16.
Selas Company, The. (See Hess, F. O., and Townsend, assignors.)
Selberg, John P., Los Angeles, Calif., assignor to International-Stacey Corporation, Columbus, Ohio. Portable derrick. 2,313,897; Mar. 16.
Selvig, John N., Westfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Mixing apparatus. 2,314,166; Mar. 16.
Seneca Falls Machine Company. (See Smith, E. R., and Fogarty, assignors.)
Servel, Inc. (See Ashby, Carl T., assignor.)
Shaff, Ernest H., assignor to W. H. Keller, Inc., Grand Haven, Mich. Riveting tool. 2,313,843; Mar. 16.
Shardlow, Lawrence R., North Arlington, N. J., assignor to Radio Corporation of America. Ceramic insulator. 2,314,107; Mar. 16.
Shaw, John E. B., Chicago, Ill. Parental injection device. 2,314,167; Mar. 16.
Shaw, Robert D., Bloomfield, assignor to Niles-Bement-Pond Company, West Hartford, Conn. Control system. 2,314,019; Mar. 16.
Shea, John A., Jersey City, N. J. Making pens. 2,313,777; Mar. 16.
Shea, John A., Jersey City, N. J. Making pen nibs. 2,313,778; Mar. 16.
Shea, John A., Jersey City, N. J. Pen nib and making same. 2,313,779; Mar. 16.
Shea, John A., Jersey City, N. J. Making pens. 2,314,054; Mar. 16.
Shell Development Company. (See Evans, T. W., Marple, and Shokal, assignors.)
Shellman, Ernest A., et al. (See Krause, Victory W., assignor.)
Sherman, Ralston M., Glastonbury, Conn. Cooking stove. 2,314,249; Mar. 16.
Shokal, Edward C. (See Evans, T. W., Marple, and Shokal.)

Siegenthaler, Walter, assignor to Maschinenfabrik Schärer, Erlenbach, Zurich, Switzerland. Spool transfer device for winding machines. 2,314,020; Mar. 16.
Sieger, Tesse. (See Dine, N., and Bloomberg, assignors.)
Silva, Frank C., San Jose, Calif. Fruit halving and pitting. 2,313,898; Mar. 16.
Silverman, Ralph, Pittsburgh, Pa. Electric power megaphone system. 2,314,108; Mar. 16.
Sinclair Refining Company. (See Haney, Stanley C., assignor.)
Skivesen, Nils K. (See Ekserglan, R., Horton, Morton, and Skivesen.)
Sladky, Joseph F., Racine, assignor to Nash-Kelvinator Corporation, Kenosha, Wis. Manual control device. 2,314,021; Mar. 16.
Slotsky, Sam J., Sioux City, and A. F. Pfingsten, Rock Rapids, Iowa. Toy Racing boat. 2,314,057; Mar. 16.
Smith, Charles B., and J. R. Johnson, Alton, Ill., assignor to Owens-Illinois Glass Company. Glass molding machine. 2,314,290; Mar. 16.
Smith, Charles C., Cranford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Strand handling apparatus. 2,314,168; Mar. 16.
Smith, Edwin R., and G. E. Fogarty, assignor to Seneca Falls Machine Company, Seneca Falls, N. Y. Release device for taper lathes. 2,314,250; Mar. 16.
Smith, Frank M., Dearborn, Mich., assignor, by mesne assignments, to Consolidated Aircraft Corporation, San Diego, Calif. Wing frame assembly fixture. 2,314,319; Mar. 16.
Smith, Harold E., assignor to The T. L. Smith Company, Milwaukee, Wis. Concrete mixer. 2,314,169; Mar. 16.
Smith, Harold L., and F. J. Rathbun, assignors to The Louis Allis Company, Milwaukee, Wis. Dynamoelectric machine. 2,313,899; Mar. 16.
Smith, Leon, Payson, Utah. Automatic poultry feeder. 2,314,109; Mar. 16.
Smith, Trevor A., and R. H. Thompson, Spondon, near Derby, England, assignors to Imperial Chemical Industries Limited. Pulverizing granular materials. 2,314,251; Mar. 16.
Smith, T. L., Company, The. (See Smith, Harold E., assignor.)
Smith, Walter H., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Regulating system. 2,313,974; Mar. 16.
Snideman, Richard L. (See Hendricks, J. C., Jr., Snideman and Wheeler.)
Snelling Bros. & Drake. (See Drake, Newman H., assignor.)
Snyder, Charles R., Miami Beach, Fla. Carburetor. 2,314,170; Mar. 16.
Snyder, Charles R., Miami Beach, Fla. Accelerating control for carburetors. 2,314,171; Mar. 16.
Snyder Research, Inc. (See Snyder, Robert E., assignor.)
Snyder, Robert E., Pasadena, Calif., assignor to Snyder Research, Inc. Ductile tubing connector. 2,313,780; Mar. 16.
Sobek, André, Paris, France; vested in the Alien Property Custodian. Rotary vane vacuum pump or compressor. 2,314,056; Mar. 16.
Society of Chemical Industry in Basle. (See Straub, F., and Hanhart, assignors.)
Socony-Vacuum Oil Company. (See Fuller, E. W., and Nygaard, assignors.)
Socony-Vacuum Oil Company. (See Schlesman, Carleton H., assignor.)
Soltan, Alexander, Port Jarvis, assignor of one-half to P. W. Valentine, Brooklyn, N. Y. Cementing machine. 2,314,172; Mar. 16.
Solvay Process Company, The. (See Beckham, Leland J., assignor.)
Sorensen, Andrew J., Edgewood, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electrical relay. 2,313,973; Mar. 16.
Southern Wood Preserving Company. (See Vaughan, Joseph A., assignor.)
Southern Wood Preserving Company. (See Vaughan, J. A., and Vinson, assignors.)
Spargo, John. (See Mader, Emil A., assignor.)
Spear, Wendell C., Wapakoneta, and H. Welch, Lima, Ohio, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electric motor system. 2,313,975; Mar. 16.
Speer Resistor Corporation. (See Veley, Hugh N., assignor.)
Sperlich, Herman A., Detroit, Mich. Ironing machine support. 2,314,173; Mar. 14.
Springborn, John F., assignor to Hammond Bag & Paper Company, Wellsburg, W. Va. Device for closing and carrying containers. 2,314,252; Mar. 16.
Stalker, Edward A., Ann Arbor, Mich. Pump. 2,314,058; Mar. 16.
Stampfel, Frank J., Midvale, Utah. Continuous vacuum filter. 2,314,110; Mar. 16.
Standard Oil Company. (See Tucker, E. B., and Grubb, assignors.)
Standard Oil Development Company. (See Archibald, Francis M., assignor.)
Standard Pressed Steel Co. (See Hollowell, Howard T., assignor.)
Stanley Works, The. (See Parsons, Stuart W., assignor.)
Stapling Machines Co. (See Buch, Philip O.)
Steiner, Edward C., Paterson, N. J., assignor to Wright Aeronautical Corporation. Valve lock. 2,314,059; Mar. 16.
Steinman, David B., New York, N. Y. Universal stereo attachment for projectors and cameras. 2,314,174; Mar. 16.
Stemme, Charles A., Large, Pa. Step-in method of operating open hearth furnaces. 2,313,900; Mar. 16.
Sterne, Leopold H., New York, N. Y., and W. N. Lurcott, Elizabeth, N. J.; said Lurcott assignor to said Sterne. Polishing machine. 2,313,781; Mar. 16.
Stewart, Virgil F., Cleveland, Ohio. Fluid controlled transmission. 2,314,253; Mar. 16.
Stone, John B., Tulsa, Okla., assignor to The Dow Chemical Company, Midland, Mich. Treatment of wells. 2,314,022; Mar. 16.
Straub, Fritz, Kaiseraugst, and W. Hanhart, Riehen, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Substantive azo dyestuffs and process of making same. 2,314,023; Mar. 16.
Sullivan, Roy W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Precipitation. 2,313,844; Mar. 16.
Sullivan, William N., Washington, D. C., and L. D. Goodhue, Berwyn, Md., assignors to Claude R. Wickard, as Secretary of Agriculture of the United States of America, and to his successors in office. Apparatus for dispersing insecticides. 2,313,976; Mar. 16.
Sulzer Frères, Société Anonyme. (See Lieberherr, Hans, assignor.)
Summers, Caleb E., Orchard Lake, Mich. Internal combustion engine. 2,314,175; Mar. 16.
Sundholm, Edwin P., Albert City, Iowa. Lubricant dispensing device. 2,313,845; Mar. 16.
Sutherland Paper Company. (See Buttery, Kenneth T., assignor.)
Sylvania Electric Products Inc. (See Van Dyke, Walter H., assignor.)
Takach, Joseph P., West New Brighton, N. Y. Medicine spoon. 2,313,977; Mar. 16.
Talalay, Joseph A., Boston, Mass. Apparatus for producing porous or spongy articles of rubber or rubber like materials. 2,314,176; Mar. 16.
Tamarin, Bernard J., Philadelphia, Pa. Electric vacuum cleaner. 2,314,177; Mar. 16.
Tamminga, William, Bronx, N. Y., assignor to Monitor Process Corporation, Jersey City, N. J. Dispensing device. 2,313,846; Mar. 16.
Tate, Malcolm C., Stamford, Conn., assignor to The Baldwin Locomotive Works. Load weighing system. 2,314,178; Mar. 16.
Taylor, Fred L., and J. E. Livak, assignors to The Dow Chemical Company, Midland, Mich. Substituted phenol. 2,313,782; Mar. 16.
Taylor, Laurens A., Schenectady, N. Y., assignor to General Electric Company. Control device. 2,314,291; Mar. 16.
Taylor, Richard. (See Caldwell, S. H., Jaeger, and Taylor.)
Taylor, Russell C., Greenwich, Conn., assignor to American Can Company, New York, N. Y. Container. 2,313,783; Mar. 16.
Taylor-Winfield Corporation, The. (See Humphrey, S. M., and Secloff, assignors.)
Teague, Monroe M., Lenoir, N. C. Woodworking machine. 2,314,179; Mar. 16.
Temple, Trevor, Tappan, assignor to Electrical Testing Laboratories, New York, N. Y. Device for testing focal plane camera shutters. 2,314,254; Mar. 16.
Texas Company, The. (See Watson, Claude W., assignor.)
Thayer, Sidney A. (See Dolsy, E. A., Thayer, Binkley, McKee, and MacCorquodale.)
Then, Edward O., Newark, N. J., assignor to American Can Company, New York, N. Y. Container. 2,313,784; Mar. 16.
Thiele, Berthold, assignor to E. R. Wagner Manufacturing Company, Milwaukee, Wis. Hasp. 2,314,180; Mar. 16.
Thomas, Derrick R. (See Scott-Paine, H., and Thomas.)
Thomas, Joseph R., Chicago, Ill. Folding cabinet bed. 2,313,847; Mar. 16.
Thompson, Ronald H. (See Smith, T. A., and Thompson.)
Tide Water Associated Oil Company. (See Hyde, H. Y., Viland, and Galstaun, assignors.)
Toepfer, Adolph H., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Oscillograph viewing device. 2,313,978; Mar. 16.
Toland, William C., trustee. (See Toland, W. C., and Bassist.)
Toland, William C., and E. Bassist, assignors to W. C. Toland, trustee, Brookline, Mass. Printing plate. 2,313,848; Mar. 16.
Tompkins, Emerson H. (See Lusher, A. C., Tompkins, and Howard.)
Toone, Gilbert C., Hamburg, N. Y., assignor to Allied Chemical & Dye Corporation. Production of alkyl aryl sulphonates. 2,314,255; Mar. 16.

Topping, Carl E., Jackson, assignor to The Dow Chemical Company, Midland, Mich. Magnesium base alloy. 2,314,024; Mar. 16.
Townsend, John W. (See Hass, F. O., and Townsend.)
Traver, Oliver C., Drexel Hill, Pa., assignor to General Electric Company. Electric arc-extinguishing apparatus. 2,314,292; Mar. 16.
Traylor, William N., Hattiesburg, Miss., assignor to Hercules Powder Company, Wilmington, Del. Refining of rosin esters. 2,313,901; Mar. 16.
Trickson, G. E., et al. (See Carlson, James E., assignor.)
Troxel Manufacturing Company, The. (See Kalter, Harold E., assignor.)
Tucker, Elton B., Highland, Ind., and H. M. Grubb, assignors to Standard Oil Company, Chicago, Ill. Coating mineral aggregates. 2,314,111; Mar. 16.
Tuma, James L., Chicago, Ill. Swimming appliance. 2,313,979; Mar. 16.
Turchan, Manuel, Dearborn, and C. Walker, Detroit, Mich. Hydraulic duplicating lathe attachment. 2,313,849; Mar. 16.
Turner, Chester D., Haverhill, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe and making shoes. 2,313,902; Mar. 16.
Turner, Harold R., Greenville, S. C. Bobbin stripper. 2,313,785; Mar. 16.
Turner, James H. (See Welch, Russel, assignor.)
Tuttle, Malcolm H., New Rochelle, N. Y., assignor to Max B. Miller & Co., Inc., New York, N. Y. Coking petroleum residues or the like. 2,314,112; Mar. 16.
Tyndall, Tomas N., Yosemite National Park, Calif., assignor of forty-five per cent to B. W. Blair, Bronxville, and ten per cent to J. L. Lamia, Flushing, N. Y. Knapsack construction. 2,314,293; Mar. 16.
Union Fork and Hoe Company, The. (See Armstrong, Edward J., assignor.)
Union Oil Company of California. (See Carr, D. E., and Ritchey, assignors.)
Union Switch & Signal Company. (See Bone, H. L., and Livingston, assignors.)
Union Switch & Signal Company, The. (See Cravath, Austin M., assignor.)
Union Switch & Signal Company, The. (See Nicholson, F. H., and Bryan, assignors.)
Union Switch & Signal Company, The. (See Sorensen, Andrew J., assignor.)
Union Switch & Signal Company, The. (See Van Horn, James J., assigner.)
United Aircraft Corporation. (See Groskritz, George, assignor.)
United Shoe Machinery Corporation. (See Batchelder, Clifton T., assignor.)
United Shoe Machinery Corporation. (See Hazelton, G., and James, assignors.)
United Shoe Machinery Corporation. (See James, Lester E., assignor.)
United Shoe Machinery Corporation. (See Russell, Arthur L., assignor.)
United Shoe Machinery Corporation. (See Turner, Chester D., assignor.)
United States Golf Association. (See Anderson, C. G., and Richardson, assignors.)
United States Pipe and Foundry Company. (See Daniel, Robert E., assignor.)
Usselman, George L., Port Jefferson, N. Y., assignor to Radio Corporation of America. Radio transmitter. 2,313,850; Mar. 16.
Uvalde Rock Asphalt Company. (See Alvey, G. H., and Hunnert, Jr., assignors.)
Valentine, Percy W. (See Soltan, Alexander, assignor.)
Van Brederode, Henry C., Bronxville, N. Y., assignor to Celanese Corporation of America. Dim-out material. 2,313,904; Mar. 16.
Van Daam, Gerrit, Buffalo, N. Y. Electric heater. 2,313,786; Mar. 16.
Van Deventer, Harry R., assignor to Peatrophone Corporation, New York, N. Y. Operating phonographs. 2,313,851; Mar. 16.
Van Deventer, Harry R., assignor to Peatrophone Corporation, New York, N. Y. Telephone system employing phonographs. 2,313,852; Mar. 16.
Van Duuren, Hendrik C. A., Wassenaar, assignor to Kingdom of The Netherlands, Post Office Administration, The Hague, Netherlands. Printing telegraph systems. 2,313,980; Mar. 16.
Van Dyke, Walter H., Peabody, Mass., assignor to Sylvania Electric Products Inc. Lamp exhaust method. 2,313,788; Mar. 16.
Van Eck, Cornelius B., Grand Rapids, assignor to Progressive Welder Company, Detroit, Mich. Welding gun. 2,314,320; Mar. 16.
Van Horn, James J., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Remote control system. 2,313,903; Mar. 16.
Vanity Fair Mills, Inc. (See Amidon, Roy C., assignor.)
Vaughan, Joseph A., assignor to Southern Wood Preserving Company, Atlanta, Ga. Method of and apparatus for cleaning and dehydrating olly wood preservatives. 2,314,256; Mar. 16.
Vaughan, Joseph A., and J. C. Vinson, assignors to Southern Wood Preserving Company, Atlanta, Ga. Apparatus for and method of cleaning and partially dehydrating olly wood preservatives. 2,314,257; Mar. 16.
Vaughn, Sidney P., Ackerman, Miss. Cleaning device and making same. 2,313,787; Mar. 16.
Vega Aircraft Corporation. (See Bloomfield, John J., assignor.)
Veley, Hugh N., assignor to Speer Resistor Corporation, St. Marys, Pa. Resistor and making the same. 2,313,853; Mar. 16.
Verhun, Jacob. (See Fuchs, Julius, assignor.)
Verplex Company, The. (See Handel, Stanley T., assignor.)
Vickers Petroleum Co. of Delaware, The. (See Hirsch, Joel H., assignor.)
Victoreen, John A., Cleveland Heights, Ohio. Electrical apparatus. 2,314,060; Mar. 16.
Viland, Clare K. (See Hyde, H. Y., Viland, and Galstaun.)
Vinson, Joseph C. (See Vaughan, J. A., and Vinson.)
Voices, Inc. (See Marcus, Samuel, assignor.)
Vredenburg, Edric W., Oakland, Calif. Weighing mechanism. 2,314,299; Mar. 16.
Wagner, E. R., Manufacturing Company. (See Thiele, Berthold, assignor.)
Waldorf Paper Products Company. (See Hennessey, R. J., Geneck, and Guyer, assignors.)
Walker, Curtis. (See Turchan, M., and Walker.)
Walker, Dora E., et al. (See Lambert, Emile, assignor.)
Walker, L. B., et al. (See Lambert, Emile, assignor.)
Walker, N. E., et al. (See Lambert, Emile, assignor.)
Wallace Press, The. (See Otis, Erial B., assignor.)
Wallin, Loren, Wadesboro, N. C. Hypodermic needle rack. 2,313,905; Mar. 16.
Wallny, John G., Landskrona, Sweden. Apparatus for filtering and washing solid matter. 2,314,294; Mar. 16.
Walsh, Carroll H. (See Pittman, R. R., and Walsh.)
Walter, Charles T., assignor to Industrial Patents Corporation, Chicago, Ill. Poultry chilling. 2,314,317; Mar. 16.
Wampfler, Jacob, Riegelsville, Pa. Vehicle traction device and tire lug. 2,314,295; Mar. 16.
Wanner, Carlo, Barcelona, Spain. Apparatus for treating cement raw material and the like. 2,314,296; Mar. 16.
Wasegie, Charles R., Rueil, France; vested in the Alien Property Custodian. Variable pitch aerial propeller. 2,314,025; Mar. 16.
Washburn Company, The. (See Zuck, Albert L., assignor.)
Waters, Lawrence W. (See Ballou, B., and Waters.)
Watson, Athelstan T., Cabimas, Estado Zulia, Venezuela. Gas lift oil well pump intermitter. 2,314,113; Mar. 16.
Watson, Claude W., Tuckahoe, assignor, by mesne assignments to The Texas Company, New York, N. Y. Isomerization. 2,314,297; Mar. 16.
Watson, Thomas J., New Canaan, Conn., assignor to International Business Machines Corporation, New York, N. Y. Sorting machine of the manual control type. 2,314,258; Mar. 16.
Weber, Charles F. (See Weber, John, Jr., C. F., L. H., W. F., F. H., E. W., and L. G., and Goetzman.)
Weber, Edward W. (See Weber, John, Jr., C. F., L. H., W. F., F. H., E. W., and L. G., and Goetzman.)
Weber, Frank H. (See Weber, John, Jr., C. F., L. H., W. F., F. H., E. W., and L. G., and Goetzman.)
Weber, John, Jr., C. F., L. H., W. F., F. H., E. W., and L. G., and C. A. Goetzman, Muscatine, Iowa. Self-shank button drilling machine. 2,313,981; Mar. 16.
Weber, Leonard G. (See Weber, John, Jr., C. F., L. H., W. F., F. H., E. W., and L. G., and Goetzman.)
Weber, Louis H. (See Weber, John, Jr., C. F., L. H., W. F., F. H., E. W., and L. G., and Goetzman.)
Weber, Walter F. (See Weber, John, Jr., C. F., L. H., W. F., F. H., E. W., and L. G., and Goetzman.)
Weightman, William A., assignor to Edward G. Budd Manufacturing Co., Philadelphia, Pa. Welding apparatus. 2,313,789; Mar. 16.
Weissblatt, Joseph. (See Rosenberg, M., and Weissblatt.)
Welch, Henry. (See Spear, W. C., and Welch.)
Welch, Russel, assignor of one-half to J. H. Turner, Detroit, Mich. Tank mounting. 2,314,298; Mar. 16.
Welles, George D. (See Dow, D. M., and Welles.)
Wells Lamont Corporation. (See Brennell, Lawrence F., assignor.)
Weltman, Charles, Brooklyn, N. Y. Doll's eyes. 2,313,854; Mar. 16.
Welty, Albert B., Moline, Ill., assignor to International Harvester Company. Harvester-thresher. 2,314,259; Mar. 16.
Wendt, Karl R., Audubon, N. J., assignor to Radio Corporation of America. Electrical delay circuit. 2,313,906; Mar. 16.
Wesley, Frank S. (See Garbe, R. H., and Wesley.)
Western Electric Company. (See Garbe, R. H., and Wesley, assignors.)
Western Electric Company. (See McCoy, Clarence E., assignor.)
Western Electric Company. (See Selvig, John N., assignor.)
Western Electric Company. (See Smith, Charles C., assignor.)
Western Precipitation Corporation. (See McGrane, Norman M., assignor.)

Westinghouse Electric Elevator Company. (See Martin, P. M., and Lund, assignors.)
Westinghouse Electric & Manufacturing Company. (See Adams, Paul G., assignor.)
Westinghouse Electric & Manufacturing Company. (See Arnold, Edwin E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Baston, Cyril E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Breckenridge, F., and Ridge, assignors.)
Westinghouse Electric & Manufacturing Company. (See Carlin, H. J., and Crichton, assignors.)
Westinghouse Electric & Manufacturing Company. (See Chubb, Lewis W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Dorfman, Hiller D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Elsey, Howard M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Geiselman, Ralph A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hays, Robert F., Jr., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hays, R. F., Jr., and Hodgkins, assignors.)
Westinghouse Electric & Manufacturing Company. (See Jelinek, Ulrich, assignor.)
Westinghouse Electric & Manufacturing Company. (See Johnson, Floyd D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Langguth, P. O., and Bottonari, assignors.)
Westinghouse Electric & Manufacturing Company. (See Leippe, Richard M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Lewis, Robert H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Meyers, Henry C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Oglesbee, Wendell, assignor.)
Westinghouse Electric & Manufacturing Company. (See Pierce, L., and Samzellus, assignors.)
Westinghouse Electric & Manufacturing Company. (See Rugg, H. H., and Pierson, assignors.)
Westinghouse Electric & Manufacturing Company. (See Rushing, Frank C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Smith, Walter H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Spear, W. C., and Welch, assignors.)
Westinghouse Electric & Manufacturing Company. (See Toepfer, Adolph F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Yost, I. A., and Haas, assignors.)
Wettig, Theodore A., assignor to The Acme Machine Tool Company, Cincinnati, Ohio. Toolholder. 2,314,314; Mar. 16.
Whaley, George W., Van Nuys, Calif. Adapter for flashlight and revolver. 2,314,061; Mar. 16.
Wheeler, Donald P. (See Hendricks, J. C., Jr., Snideman, and Wheeler.)
White, George L., assignor to Joseph Bancroft & Sons Co., Wilmington, Del. Fabric finishing machine. 2,314,114; Mar. 16.
Wickliffe, Charles A., Washington, D. C. Apparatus for recording and reproducing sound. 2,313,790; Mar. 16.
Widger, Max C., Corvallis, Oreg. Deseeding and cleaning machine. 2,313,791; Mar. 16.
Wiggins, John H., Chicago, Ill. Tank roof drain. 2,313,855; Mar. 16.
Wiggins, John H., Chicago, Ill. Side wall shoe supporting means for floating tank roof seals. 2,313,856; Mar. 16.
Wilcox, C. A., et al. (See Behrens, Phillip H., assignor.)
Willard Storage Battery Company. (See Fairclough, Edward, assignor.)
Willett, Leon E., assignor to Chamberlin Metal Weather Strip Company, Detroit, Mich. Window screen or blind. 2,314,026; Mar. 16.
Williams, Beverly E., assignor to Industrial Patents Corporation, Chicago, Ill. Aging meat. 2,314,301; Mar. 16.
Williams, Beverly E., and L. L. Caldwell, assignors to Industrial Patents Corporation, Chicago, Ill. Chilling meat. 2,314,300; Mar. 16.
Williams, Paul H., assignor to The National Cash Register Company, Dayton, Ohio. Accounting machine. 2,313,982; Mar. 16.
Williamson, Evan D., assignor to E. D. Bullard Company, San Francisco, Calif. Siren. 2,314,260; Mar. 16.
Wilson, Joseph P., Columbia, S. C. Necktie engaging collar. 2,313,857; Mar. 16.
Winder, George L., Cuyahoga Falls, assignor to American Anode Inc., Akron, Ohio. Making blood pressure bags and other articles. 2,313,792; Mar. 16.
Winder, George L., Cuyahoga Falls, assignor to American Anode Inc., Akron, Ohio. Making distensible bag catheters. 2,314,262; Mar. 16.
Winterkorn, Hans F., Columbus, Mo., assignor to The Quaker Oats Company, Chicago, Ill. Bituminous material. 2,314,181; Mar. 16.
Witt, Harry C., Boston, Mass. Atomizer. 2,314,263; Mar. 16.
Woltanski, Stanley, Chicago, Ill. Window shade roller and curtain rod bracket. 2,313,907; Mar. 16.
Wood, Stuart G., Rockford, Ill. Wire stripping tool. 2,313,793; Mar. 16.
Wright Aeronautical Corporation. (See Steiner, Edward C., assignor.)
Yates, Lloyd E., St. Louis, Mo. Sorting case. 2,313,794; Mar. 16.
Yeomans Brothers Company. (See Yeomans, Charles, assignor.)
Yeomans, Charles, Hubbard Woods, Ill., assignor to Yeomans Brothers Company. Leveling support for sewage distributors. 2,314,182; Mar. 16.
Yeomans, Lucien L., assignor of one-half to G. F. Bryant, Chicago, Ill. Machining metal blanks. 2,314,183; Mar. 16.
Yost, Irvine A., Lakewood, and C. F. Haas, Cleveland, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Lamp fixture. 2,313,983; Mar. 16.
Young, Charles J., Ardmore, Pa., assignor to Radio Corporation of America. Facsimile transmitter. 2,314,027; Mar. 16.
Younghusband, James L., Chicago, Ill. Lipstick device. 2,314,261; Mar. 16.
Zeruneith, Rudolph E., Jersey City, assignor to Conmar Products Corporation, Bayonne, N. J. Staple forming and setting machine. 2,314,184; Mar. 16.
Ziebolz, Herbert, assignor to Electronbeam, Incorporated, Chicago, Ill. Electronic translating device. 2,314,302; Mar. 16.
Zondek, Bernhard, Rehavia, Jerusalem, and E. Bergmann, Rehovoth, Palestine. Manufacture of progesterone. 2,314,185; Mar. 16.
Zuck, Albert L., Rockford, Ill., assignor to The Washburn Company, Worcester, Mass. Flour sifter. 2,314,186; Mar. 16.
Zwickel, Elmer L., executor. (See Brennan, Daniel A.)

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 16TH DAY OF MARCH, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Garter, Girdle. R. Lindner. Re. 22,288; Mar. 16.

Display. C. W. Otis. Re. 22,289; Mar. 16.

Rubber films with or without textile fabric backings, Making perforate latex. M. C. Teague and P. L. Mahoney. Re. 22,290; Mar. 16.

LIST OF PLANT INVENTIONS

Plant, Rose. F. Meilland. 574; Mar. 16.

Plum. F. W. Anderson. 573; Mar. 16.

LIST OF DESIGN INVENTIONS

Airplane body and propellers, Combined. J. Robinson. 135,260; Mar. 16.
Bag or the like, Knitting. G. Murphy. 135,258; Mar. 16.
Bed, Dog. J. J. Meyer. 135,242; Mar. 16.
Block, Building. W. A. Larson. 135,257; Mar. 16.
Board game. W. F. Drueke, Jr. 135,239–40; Mar. 16.
Container, Ration. N. T. Naranick. 135,249; Mar. 16.
Coupling, Pipe. R. A. Corley. 135,262; Mar. 16.
Crucifix. J. P. Calnan. 135,247; Mar. 16.
Desk. C. I. Center and W. E. Tarr. 135,251; Mar. 16.
Display device for paints or the like. E. Borregard. 135,244; Mar. 16.
Dress. B. Cashin. 135,271; Mar. 16.
Dress. B. Moye. 135,272; Mar. 16.
Dual control for phonographs. L. Z. La Forest. 135,266; Mar. 16.
Goggles. W. Bausch. 135,237; Mar. 16.
Handbag. N. and M. Sloane. 135,261; Mar. 16.
Kit, Polish. B. H. Willingham. 135,270; Mar. 16.
Mounting, Ring. C. Birnbaum. 135,243; Mar. 16.
Pin, Emblem. B. Felsenthal. 135,263; Mar. 16.
Plaque base or the like. G. E. Gaston and H. Stilwell. 135,264; Mar. 16.
Rack, Garment. R. A. Magnuson. 135,241; Mar. 16.
Radio, clock, and table lamp, Combined. W. J. Henken. 135,265; Mar. 16.
Relay, Vacuum. W. W. Eitel and J. A. McCullough. 135,252; Mar. 16.
Ring. B. Pereira. 135,259; Mar. 16.
Ring or similar article. B. Pereira. 135,268; Mar. 16.
Shoe, Rubber. G. H. Bingham, Jr. 135,238; Mar. 16.
Slip or similar article, Lady's. I. Wasserman. 135,269; Mar. 16.
Sterilizer, Ultraviolet. R. A. Hrabak. 135,253–6; Mar. 16.
Toy or the like, Figure. T. Lamb. 135,267; Mar. 16.
Tray, Ash. M. Britz. 135,245; Mar. 16.
Tray, Ash. C. E. Connor. 135,248; Mar. 16.
Tube and dispensing closure therefor, Combined collapsible. W. H. Burke. 135,246; Mar. 16.
Washing machine for dishes and glasses. L. Palmieri. 135,250; Mar. 16.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 16TH DAY OF MARCH, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasive blast. H. T. Blount. 2,314,069; Mar. 16.
Accelerating control for carburetors. C. R. Snyder. 2,314,171; Mar. 16.
Accounting machine. P. H. Williams. 2,313,982; Mar. 16.
Acetylene tank cart. L. H. Garlinghouse. 2,313,868; Mar. 16.
Adapter for flashlight and revolver. G. W. Whaley. 2,314,061; Mar. 16.
Adhesive composition, Urea-aldehyde. C. Ellis. 2,314,308; Mar. 16.
Aerial propellers, Variable pitch. C. R. Waseige. 2,314,025; Mar. 16.
Age resistor for rubber compositions. H. B. Kellog and I. E. Lightbown. 2,313,945; Mar. 16.
Air conditioning control system and apparatus. D. W. McLenegan. 2,314,232; Mar. 16.
Air eliminator. D. Samiran. 2,313,773; Mar. 16.
Aircraft control. R. H. Burroughs, Jr. 2,313,809; Mar. 16.
Aircraft heater. F. O. Hess and J. W. Townsend. 2,314,089; Mar. 16.
Airscrew. L. G. Fairhurst. 2,314,136; Mar. 16.
Airscrew, Variable pitch. G. Algarsson. 2,313,795; Mar. 16.
Alkyl aryl sulphonates, Production of. G. C. Toone. 2,314,255; Mar. 16.
Alloy: *See*—
Magnesium base alloy.
Alloys, Rolling magnesium-base. J. C. McDonald. 2,314,010; Mar. 16.
Amine salts of phenols. E. C. Britton and G. H. Coleman. 2,313,988; Mar. 16.
Amplifier, Audio frequency. N. J. Oman. 2,313,962; Mar. 16.
Amplifier, High frequency. W. H. Doherty. 2,314,132; Mar. 16.
Anatomical support. N. Dine and A. Bloomberg. 2,314,080; Mar. 16.
Animal trap. B. A. Runyan. 2,314,247; Mar. 16.
Antenna arrangement, Frame. K. M. H. Meier. 2,314,234; Mar. 16.
Apparatus for administering oxygen. J. Kreiselman. 2,313,999; Mar. 16.
Apparatus for applying light-polarizing material to curved surfaces. H. G. Rogers and L. W. Chubb, Jr. 2,313,891; Mar. 16.
Apparatus for cutting and scoring veneers. R. W. Poole. 2,314,102; Mar. 16.
Apparatus for dispensing beverages. J. Panagopoulos. 2,314,100; Mar. 16.
Apparatus for dispersing insecticides. W. N. Sullivan and L. D. Goodhue. 2,313,976; Mar. 16.
Apparatus for filtering and washing solid matter. J. G. Wallny. 2,314,294; Mar. 16.
Apparatus and method for the control of air flow through furnace tuyères. H. A. Reece. 2,313,769; Mar. 16.
Apparatus for and method of cleaning and partially dehydrating oily wood preservatives. J. A. Vaughan and J. C. Vinson. 2,314,257; Mar. 16.
Apparatus for photographically reproducing display type lines and the like. L. Grudin. 2,314,272; Mar. 16.
Apparatus for pneumatically distributing powdered and granular material. R. R. Colburn. 2,314,031; Mar. 16.
Apparatus for producing porous or spongy articles of rubber or rubber like materials. J. A. Talalay. 2,314,176; Mar. 16.
Apparatus for recording and reproducing sound. C. A. Wickliffe. 2,313,790; Mar. 16.
Apparatus for starting and controlling electric discharge devices. W. J. Karash. 2,314,311; Mar. 16.
Apparatus for testing golf balls. C. G. Anderson and D. E. Richardson. 2,313,063; Mar. 16.
Apparatus for treating cement raw materials and the like. C. Wanner. 2,314,296; Mar. 16.
Appliance, Swimming. J. L. Tuma. 2,313,979; Mar. 16.
Asphalt and producing same. D. E. Carr and H. W. Ritchey. 2,314,124; Mar. 16.
Assembly fixture, Wing frame. F. M. Smith. 2,314,319; Mar. 16.
Atomizer. H. C. Witt. 2,314,263; Mar. 16.
Attenuator circuit. H. M. Lewis. 2,313,952; Mar. 16.
Automatic poultry feeder. L. Smith. 2,314,109; Mar. 16.
Automatic printing metering system. T. G. Le Clair. 2,313,752; Mar. 16.
Automatic pulsator for milking machines. C. H. Hapgood. 2,313,822; Mar. 16.
Axminster loom tube frame. S. S. Garrity. 2,314,139; Mar. 16.
Balancing machine. D. K. Pope. 2,314,287; Mar. 16.
Balls, Making. U. Jelinek. 2,313,876; Mar. 16.
Bathtub structure. A. J. Hunting. 2,314,044; Mar. 16.
Battery clamp. E. G. Johnson. 2,314,219; Mar. 16.
Battery separator. E. Fairclough. 2,314,203; Mar. 16.
Battery separators, Making storage. R. A. Rothermel. 2,314,053; Mar. 16.
Battery tool. G. F. Colley. 2,314,126; Mar. 16.
Bearing construction for force measuring apparatus. O. S. Carliss. 2,314,321; Mar. 16.
Bearing play control device. O. S. Carliss. 2,313,863; Mar. 16.
Bed, Collapsible. D. F. Ebbert. 2,313,813; Mar. 16.
Bed, Folding cabinet. J. R. Thomas. 2,313,847; Mar. 16.
Bee comb foundation. H. C. Dadant and R. A. Grout. 2,313,735; Mar. 16.
Bending tool. R. A. Blackwell. 2,313,720; Mar. 16.
Binding device, Loose leaf. M. Fontecilla. 2,314,204; Mar. 16.
Bituminous composition and making the same. P. E. McCoy. 2,313,759; Mar. 16.
Bituminous material. H. F. Winterkorn. 2,314,181; Mar. 16.
Blade, Doctor. A. E. Lundbye. 2,313,830; Mar. 16.
Blending apparatus. R. E. Bailey. 2,313,797; Mar. 16.
Blood pressure bags and other articles, Making. G. L. Winder. 2,313,792; Mar. 16.
Boat, Toy racing. S. J. Slotsky and A. F. Pfingsten. 2,314,057; Mar. 16.
Bobbin stripper. H. R. Turner. 2,313,785; Mar. 16.
Bonding by adhesive. A. L. P. Russell. 2,313,892; Mar. 16.
Bottle testing apparatus. A. S. Jackson and C. A. Heyne. 2,314,310; Mar. 16.
Bottle washing apparatus. A. E. Ladewig. 2,314,048; Mar. 16.
Bowling ball support. W. Harrigan. 2,313,823; Mar. 16.
Box: *See*—
Display box.
Box and packaging. P. O. Buch. 2,314,194; Mar. 16.
Bracket: *See*—
Window shade roller and curtain rod bracket.
Brake device for hinge supports. C. C. Hicks. 2,314,144; Mar. 16.
Brake mechanism. E. R. Fitch. 2,313,991; Mar. 16.
Broach, Roughing. W. J. Phaneuf. 2,314,160; Mar. 16.
Brushes, Making. H. Cave. 2,314,306; Mar. 16.
Buckle. A. A. Ritter. 2,314,246; Mar. 16.
Building construction. A. C. Olsen. 2,313,839; Mar. 16.
Bus structure. H. H. Rugg and P. R. Pierson. 2,313,972; Mar. 16.
Cabinet: *See*—
Service stall and service cabinet.
Calcium silicate, Treating. R. P. Allen. 2,314,188; Mar. 16.
Calculating machine. C. M. Friden. 2,313,817; Mar. 16.
Can ends, Lining. J. M. Hothersall. 2,313,750; Mar. 16.
Can making machine. J. M. Hothersall. 2,313,748; Mar. 16.
Can parts, Forming. J. M. Hothersall. 2,313,749; Mar. 16.
Cap marking mechanism for container capping machines. O. P. R. Lehmann and R. N. Bostock. 2,313,828; Mar. 16.
Carbon deposits from internal combustion engines, Removing. E. A. Boesing. 2,313,730; Mar. 16.
Carburetor. C. R. Snyder. 2,314,170; Mar. 16.
Carburetor for explosion engines. J. Fuchs. 2,313,929; Mar. 16.
Carrier: *See*—
Collapsible package carrier.
Carrier. J. C. Hendricks, Jr., R. L. Snideman and D. P. Wheeler. 2,314,143; Mar. 16.
Carton, Dispensing. K. T. Buttery. 2,313,987; Mar. 16.
Carton, Shipping and display. E. C. Berg. 2,313,718; Mar. 16.
Case: *See*—
Closed receptacle or case. Sorting case.
Caster truck. W. E. Daley. 2,314,129; Mar. 16.
Casing treatment. C. A. Rinehart. 2,314,313; Mar. 16.
Catalytic cracking and reclamation of catalysts. J. H. Hirsch. 2,313,940; Mar. 16.
Catalytic hydrogenation. S. C. Haney. 2,314,142; Mar. 16.
Catheters, Making distensible bag. G. L. Winder. 2,314,262; Mar. 16.
Cathode. R. B. Ayer. 2,313,065; Mar. 16.
Cathode, Equipotential. C. V. Litton. 2,314,097; Mar. 16.

Cathode ray oscillograph for recording transients. S. Read, Jr. 2,313,967; Mar. 16.
Cathode ray tube system. W. J. Poch. 2,313,966; Mar. 16.
Cathode structure. W. W. Eitel and J. A. McCullough. 2,314,037; Mar. 16.
Cellulose ethers, Manufacture of. A. S. Finlayson. 2,313,866; Mar. 16.
Cellulosic ribbon spool and constructing the same. M. Katz. 2,314,146; Mar. 16.
Cementing machine. A. Soltan. 2,314,172; Mar. 16.
Center adjuster, Automatic. R. C. Lipscomb and W. G. Reid. 2,314,149; Mar. 16.
Centrifugal casting apparatus. R. E. Daniel. 2,313,926; Mar. 16.
Ceramic insulators. L. R. Shardlow. 2,314,107; Mar. 16.
Cereal grain germ, Treating. E. Levin. 2,314,282; Mar. 16.
Chair. P. J. Davis. 2,314,130; Mar. 16.
Changeable letter sign. B. H. Adler. 2,313,723–4; Mar. 16.
Chemical treatment apparatus. L. F. Borchardt. 2,314,110; Mar. 16.
Cigarette. I. B. Langdon. 2,314,147; Mar. 16.
Circuit: *See*—
Attenuator circuit. Electrical delay circuit.
Electric discharge lamp circuit.
Circuit for relay lamps, Starting relay. R. F. Hays, Jr. 2,313,744; Mar. 16.
Circuit for television receivers, Synchronizing. A. V. Bedford. 2,313,915; Mar. 16.
Clamp: *See*—
Battery clamp. Sheet metal clamp.
Clasp members for belts and the like, Making. C. E. Anderson. 2,313,859; Mar. 16.
Cleaner: *See*—
Electric vacuum cleaner. Vacuum cleaner.
Cleaning apparatus. F. Breckenridge and R. J. Ridge. 2,313,984; Mar. 16.
Cleaning device and making same. S. P. Vaughn. 2,313,787; Mar. 16.
Cleaning machine for cuffs of trousers and the like. W. C. Glover, Jr. 2,313,935; Mar. 16.
Clinch nut and production. W. F. Casino. 2,314,075; Mar. 16.
Clock, Globe. R. R. Dupler. 2,314,269; Mar. 16.
Closed receptacle or case. M. L. Rathbun. 2,314,245; Mar. 16.
Closure and spout. H. N. Perelson. 2,314,052; Mar. 16.
Coat, Hunting. R. E. Lee. 2,314,226; Mar. 16.
Coating composition, Dye-resistant. E. C. Atwell. 2,313,726; Mar. 16.
Coating composition. J. B. Bullitt, Jr., P. B. Evans, and H. H. Hopkins. 2,313,790; Mar. 16.
Coating machine. W. P. Osgood. 2,314,051; Mar. 16.
Coating metals by the aid of acid sulphites. L. P. Curtin. 2,313,925; Mar. 16.
Coffee maker. J. W. Sanderson. 2,314,018; Mar. 16.
Coffee percolator. J. McMenamin. 2,313,761; Mar. 16.
Collapsible package carrier. L. E. Mattoon. 2,313,884; Mar. 16.
Compositions and method of preparing and applying same. E. C. Atwell. 2,313,727; Mar. 16.
Concrete mixer. H. E. Smith. 2,314,169; Mar. 16.
Condition responsive control. G. M. Hausler. 2,314,210–11; Mar. 16.
Connector: *See*—
Ductile tubing connector. Solderless connector.
Consecutive numbering mechanism for calculating machines. E. V. Nyberg. 2,314,156; Mar. 16.
Container. R. C. Taylor. 2,313,783; Mar. 16.
Container. E. O. Thien. 2,313,784; Mar. 16.
Container closure, Threaded. R. Fingold. 2,313,816; Mar. 16.
Container for phonograph needles and the like. C. Pfanstiehl. 2,313,766; Mar. 16.
Continuous vacuum filter. F. J. Stampfel. 2,314,110; Mar. 16.
Control apparatus. H. S. Jones. 2,313,943; Mar. 16.
Control apparatus. A. L. Riche. 2,313,969; Mar. 16.
Control device. E. H. Ayers. 2,314,191; Mar. 16.
Control device. J. W. Owens. 2,314,240; Mar. 16.
Control device. L. A. Taylor. 2,314,291; Mar. 16.
Control device, Manual. J. F. Sladky. 2,314,021; Mar. 16.
Control instrument. R. L. Mallory. 2,314,152; Mar. 16.
Control lever. D. L. Putt. 2,313,768; Mar. 16.
Control means for agricultural implements. S. E. Hillblom. 2,314,216; Mar. 16.
Control of power actuated machinery. H. H. Brownlee. 2,313,917; Mar. 16.
Control system. R. D. Shaw. 2,314,019; Mar. 16.
Control system and device. H. S. Ogden and R. C. Alley. 2,314,239; Mar. 16.
Control, Two hand. W. F. Gayring. 2,313,869; Mar. 16.
Control valve. A. G. Peters. 2,314,158; Mar. 16.
Controlling mechanism for ironing machines. H. H. Brownlee. 2,313,918; Mar. 16.
Conveyer for glass vials. C. Eisler. 2,313,814; Mar. 16.
Copying and recording medium. H. R. Dalton. 2,313,810; Mar. 16.
Coring apparatus. W. J. Crites. 2,313,806; Mar. 16.
Counterbalance for overhead doors. S. W. Parsons. 2,314,015; Mar. 16.
Counterbalanced louver construction. E. A. Mader. 2,314,003; Mar. 16.
Coupling: *See*—
High pressure hose coupling. Rubber coupling.
Coupling for transmitting torques. H. Lieberherr. 2,314,227; Mar. 16.
Couplings, Manufacturing and assembling high pressure. A. C. Lusher, E. H. Tompkins, F. R. Rentter, and G. G. Howard. 2,314,002; Mar. 16.
Cover: *See*—
Theftproof meter cover. Universal seat back cover.
Crane limit switch. R. B. Hunter. 2,313,995; Mar. 16.
Crank shaft mounting. T. I. Duffy. 2,314,133; Mar. 16.
Crib, Collapsible. L. W. Mathaus. 2,313,834; Mar. 16.
Cutter: *See*—
Feed cutter.
Cutting die. K. W. Karll. 2,313,801; Mar. 16.
Cylinder supporting and protective device. R. C. Pierson and W. G. Schepman. 2,313,965; Mar. 16.
Dart, Gliding. E. Lambert. 2,313,948; Mar. 16.
Dental bridge. M. C. Lasky. 2,314,094; Mar. 16.
Derrick, Portable. J. P. Selberg. 2,313,897; Mar. 16.
Deseeding and cleaning machine. M. C. Widger. 2,313,791; Mar. 16.
Device for closing and carrying containers. J. F. Springborn. 2,314,252; Mar. 16.
Device for dispensing liquid in the form of spray. C. L. Gebauer. 2,313,930; Mar. 16.
Device for restricting movement of an animal's neck and head. F. C. Marmet. 2,313,833; Mar. 16.
Device for simulating certain sound effects. N. R. Kelly. 2,314,092; Mar. 16.
Device for testing focal plane camera shutters. T. Temple. 2,314,254; Mar. 16.
Device for use in packing cans and the like. W. J. De Reamer. 2,314,198; Mar. 16.
Device for viewing transparent objects. W. N. de Sherbinin. 2,313,737; Mar. 16.
Diazo composition. E. W. Clark. 2,314,196; Mar. 16.
Die: *See*—
Cutting die.
Die stop structure, Automatic. W. L. Garberding. 2,314,271; Mar. 16.
Dispensing device. W. Tamminga. 2,313,846; Mar. 16.
Dispensing device, Beverage. G. V. Mariani. 2,313,954; Mar. 16.
Dispersion mill. N. M. McGrane. 2,313,956; Mar. 16.
Display box. L. F. Brennell. 2,314,304; Mar. 16.
Display box. C. B. Holm. 2,313,747; Mar. 16.
Display device. R. K. Martin. 2,313,831; Mar. 16.
Doll's eyes. C. Weltman. 2,313,854; Mar. 16.
Domestic appliance. J. B. Dyer. 2,313,928; Mar. 16.
Doubler device, Frequency. W. C. Hall, Jr., and E. L. Le Gette. 2,313,938; Mar. 16.
Doughnut machine. A. S. T. Lagaard. 2,313,949; Mar. 16.
Drain, Tank roof. J. H. Wiggins. 2,313,855; Mar. 16.
Drier: *See*—
Window drier.
Drill pipe joint. W. T. Caldwell. 2,313,861; Mar. 16.
Drilling apparatus. F. H. Mueller and W. J. Bowan. 2,314,012–14; Mar. 16.
Drilling machine, Self-shank button. J., Jr., C. F., L. H., W. F., F. H., E. W., and L. G. Weber, and C. A. Goetzman. 2,313,981; Mar. 16.
Drum press. C. P. E. Hoolhorst. 2,313,996; Mar. 16.
Ductile tubing connector. R. E. Snyder. 2,313,780; Mar. 16.
Dye, Azo. J. B. Dickey and J. G. McNally. 2,313,738; Mar. 16.
Dyestuffs and making same, Substantive azo. F. Straub and W. Hanhart. 2,314,023; Mar. 16.
Dynamoelectric machine. H. L. Smith and F. J. Rathbun. 2,313,899; Mar. 16.
Dynamometer force measuring apparatus. O. S. Carliss. 2,313,862; Mar. 16.
Electric arc apparatus. L. A. Matheson. 2,314,006; Mar. 16.
Electric arc apparatus. L. A. Matheson, F. C. Hach, and M. P. De Haas. 2,314,007; Mar. 16.
Electric arc-extinguishing apparatus. O. C. Traver. 2,314,299; Mar. 16.
Electric arc furnace with removable hearth or roof. R. Nissim. 2,313,837; Mar. 16.
Electric bed warmer. G. W. Crise. 2,313,864; Mar. 16.
Electric device, Vapor. H. C. Meyers. 2,313,957; Mar. 16.
Electric discharge lamp circuit. W. Oglesbee. 2,313,961; Mar. 16.
Electric heater. G. Van Daam. 2,313,786; Mar. 16.
Electric meter. N. W. Matthews. 2,313,758; Mar. 16.
Electric motor system. W. C. Spear and H. Welch. 2,313,975; Mar. 16.
Electric power megaphone system. R. Silverman. 2,314,108; Mar. 16.
Electric razors and the like, Method of and apparatus for sharpening. A. J. Roderick. 2,313,970; Mar. 16.
Electric switch. L. Pierce and J. W. Sammellus. 2,313,964; Mar. 16.
Electric switch. A. M. Rossman. 2,313,771; Mar. 16.

Electric vacuum cleaner. B. J. Tamarin. 2,314,177; Mar. 16.
Electrical apparatus. J. A. Victoreen. 2,314,060; Mar. 16.
Electrical delay circuit. K. R. Wendt. 2,313,906; Mar. 16.
Electrical regulating system. R. A. Geiselman. 2,313,931; Mar. 16.
Electrical relay. A. J. Sorensen. 2,313,973; Mar. 16.
Electrical vibrator device. A. D. Burt. 2,313,919; Mar. 16.
Electrical wiring system. J. F. O'Brien. 2,313,960; Mar. 16.
Electrohydraulic operator. E. E. Arnold. 2,313,909; Mar. 16.
Electron discharge apparatus. F. Gray. 2,313,819; Mar. 16.
Electronic translating device. H. Ziebolz. 2,314,302; Mar. 16.
Electronic valve device. P. Nagy and M. J. Goddard. 2,313,886; Mar. 16.
Electroplating magnesium. W. S. Loose. 2,313,756; Mar. 16.
Elevator control system. P. M. Martin and A. O. Lund. 2,313,955; Mar. 16.
Emulsions for waterproofing and fireproofing purposes, Preparation of. R. B. Porter, Jr. 2,314,242; Mar. 16.
Engine: *See*—
Internal combustion engine
Engine fuel vaporizer. J. Graziano. 2,314,140; Mar. 16.
Ethers, Production of epoxide. T. W. Evans, K. E. Marple, and E. C. Shokal. 2,314,039; Mar. 16.
Exhaust pipe shroud. L. E. Russell. 2,313,772; Mar. 16.
Eyeglass. V. W. Krause. 2,313,879; Mar. 16.
Fabric finishing machine. G. L. White. 2,314,114; Mar. 16.
Fabric, Glazing. I. S. Hurd. 2,314,277; Mar. 16.
Fabric tubing. A. C. Ewer, C. V. Brady, and R. W. Hanse. 2,314,202; Mar. 16.
Feed cutter. G. B. Hill. 2,313,872; Mar. 16.
Feed device. C. H. Schlesman. 2,314,316; Mar. 16.
Feeder: *See*—
Automatic poultry feeder.
Filing equipment. D. A. Brennan. 2,314,121; Mar. 16.
Filter: *See*—
Continuous vacuum filter.
Fingerprinting. G. P. Curry. 2,313,807; Mar. 16.
Fire escape attachment for ladders. G. Naab. 2,313,958; Mar. 16.
Fishing reel. J. A. Coxe and R. P. McMahon. 2,314,032; Mar. 16.
Flaring and swedging tool. E. E. Kellems. 2,314,221; Mar. 16.
Floor covering and method of manufacture. H. A. Reinhardt. 2,314,162; Mar. 16.
Fluid control valve. W. A. Ray. 2,313,890; Mar. 16.
Fluid controlled transmission. V. F. Stewart. 2,314,253; Mar. 16.
Fluid motor. C. L. Martin. 2,314,005; Mar. 16.
Fluid pressure system. E. F. Loweke. 2,314,150; Mar. 16.
Fluorescent tube mounting. A. O. Elting. 2,314,038; Mar. 16.
Fluxing composition. F. J. Dasbner. 2,313,736; Mar. 16.
Fluxing device. J. S. Hunter. 2,313,751; Mar. 16.
Foot corrector. H. Golden. 2,313,870; Mar. 16.
Forging machine. L. M. Brown. 2,313,722; Mar. 16.
Frame: *See*—
Axminster loom tube frame
Frequency modulated wave generator. J. A. Rankin. 2,314,161; Mar. 16.
Friction members, Method and device for grinding cooperating faces of. J. Cotal. 2,313,804; Mar. 16.
Fruit halving and pitting. F. C. Silva. 2,313,898; Mar. 16.
Fuel, Diesel. E. W. Fuller and E. M. Nygaard. 2,314,137; Mar. 16.
Furnaces, Step-in method of operating open hearth. C. A. Stemme. 2,313,900; Mar. 16.
Garment curing method. N. S. Sarkisian. 2,314,164; Mar. 16.
Garment, Foundation. H. J. Dubner. 2,313,811; Mar. 16.
Garment pressing machine. W. A. Hoch. 2,313,824; Mar. 16.
Gas generator. L. de Csaby. 2,314,131; Mar. 16.
Gaseous discharge device. H. Eknayan. 2,314,134; Mar. 16.
Gauge for cementing machines. C. T. Batchelder. 2,313,914; Mar. 16.
Gauge for internal screw threads. I. W. Dillon. 2,314,199; Mar. 16.
Gauge strip. J. A. Campbell. 2,313,920; Mar. 16.
Gear drive for centrifugal machines. C. A. Olcott. 2,314,286; Mar. 16.
Generator: *See*—
Frequency modulated wave generator.
Gas generator.
Steam generator.
Generator and mounting means therefor. H. L. Bone and J. W. Livingston. 2,313,916; Mar. 16.
Glass blowing machine. J. P. Benoit. 2,314,303; Mar. 16.
Glass molding machine. C. B. Smith and J. R. Johnson. 2,314,290; Mar. 16.
Granular materials, Pulverizing. T. A. Smith and R. H. Thompson. 2,314,251; Mar. 16.
Grinding method and apparatus. W. C. Knapp. 2,314,312; Mar. 16.
Gun, Crossbow. J. E. Carlson. 2,313,803; Mar. 16.
Gyratory screen. W. J. Parks. 2,313,765; Mar. 16.
Hair drying apparatus. C. A. Phipps. 2,314,101; Mar. 16.
Hair remover. L. Johnson. 2,314,220; Mar. 16.
Halogenated pregnanolones and pregnandiones. A. Butenandt. 2,313,732; Mar. 16.
Harvester-thresher. A. B. Welty. 2,314,259; Mar. 16.
Hasp. B. Thiele. 2,314,180; Mar. 16.
Headers, Making. G. M. Rose, Jr. 2,314,105; Mar. 16.
Heater: *See*—
Aircraft heater.
Electric heater.
Heating apparatus. B. Goerg. 2,313,933; Mar. 16.
Heating device. E. Reich. 2,313,968; Mar. 16.
Heating system. H. Giffords. 2,314,086; Mar. 16.
Heel groove molding machine. G. Hazelton and C. H. James. 2,313,937; Mar. 16.
High pressure hose coupling. A. C. Lusher and A. C. Hoffman. 2,314,000; Mar. 16.
High pressure hose coupling. A. C. Lusher, E. H. Tompkins, and G. G. Howard. 2,314,001; Mar. 16.
Holder: *See*—
Record holder.
Tool holder.
Toilet paper holder.
Holder or the like, Match package. A. M. Albright. 2,314,265; Mar. 16.
Hose fitting, High pressure. C. W. Mott. 2,314,236; Mar. 16.
Hydraulic press. H. Field, Jr. 2,314,082; Mar. 16.
Hydrocarbon gases, Treatment of. H. Y. Hyde, C. K. Viland, and L. S. Galstaun. 2,314,217; Mar. 16.
Hydrocarbon liquids, Method of and system for vaporizing. S. P. Jones. 2,314,279; Mar. 16.
Hydrocarbons, Converting. F. E. Frey. 2,314,040; Mar. 16.
Hydrolysis of allyl halides. M. A. Pollack and A. G. Chenicek. 2,313,767; Mar. 16.
Hypodermic needle rack. L. Wallin. 2,313,905; Mar. 16.
Ink, Printing. C. Ellis. 2,314,307; Mar. 16.
Internal combustion engine. C. E. Summers. 2,314,175; Mar. 16.
Images with flickering effect, Projection. J. König. 2,314,222; Mar. 16.
Implement for removing detonated primers. G. N. Albree. 2,314,115; Mar. 16.
Injector apparatus. F. L. and C. A. Sauna. 2,313,894; Mar. 16.
Interlock. D. K. Hughes. 2,313,873; Mar. 16.
Ironing machine support. H. A. Sperlich. 2,314,173; Mar. 16.
Ironing table and the like, Folding. H. Howe. 2,314,043; Mar. 16.
Irrigator, Coloric. B. B. and B. O. Crawford. 2,313,805; Mar. 16.
Isomerization. C. W. Watson. 2,314,297; Mar. 16.
Joint: *See*—
Drill pipe joint.
Juice extracting device. A. D. Grau. 2,314,206; Mar 16.
Key, Grille bar. W. C. De Roo. 2,314,034; Mar. 16.
Knapsack construction. T. N. Tyndall. 2,314,293; Mar. 16.
Knitting machine and method. R. C. Amidon. 2,313,725; Mar. 16.
Label tacking machine. M. S. Malek. 2,313,832; Mar. 16.
Laminated sole construction. J. Muller. 2,314,237; Mar. 16.
Lamp: *See*—
Luminescent lamp.
Lamp exhaust method. W. H. Van Dyke. 2,313,788; Mar. 16.
Lamp fixture. I. A. Yost and C. F. Haas. 2,313,983; Mar. 16.
Lathe. G. W. Scott. 2,314,055; Mar. 16.
Lathe attachment, Hydraulic duplicating. M. Turchan and C. Walker. 2,313,849; Mar. 16.
Laundry machine. L. D. McCleary. 2,314,155; Mar. 16.
Lawns and fields, Means to protect. W. Johnson. 2,314,045; Mar. 16.
Leavening preparation. A. E. Huff. 2,314,090; Mar. 16.
Level. B. C. Hall. 2,314,209; Mar. 16.
Leveling support for sewage distributors. C. Yeomans. 2,314,182; Mar. 16.
Levelling device. C. J. Crane. 2,313,733; Mar. 16.
Lever, Valve actuating. H. E. Pleasant and E. M. Keller. 2,313,840; Mar. 16.
Lift for implement frames. A. G. Gurries. 2,314,041; Mar. 16.
Lifter: *See*—
Roller lifter.
Lighting fixture. N. Raizner. 2,314,103; Mar. 16.
Ligno-cellulosic material, Resinifying. W. K. Loughborough. 2,313,953; Mar. 16.
Lipstick device. J. L. Younghusband. 2,314,261; Mar. 16.

Liquid tapping and blowing loss eliminator. R. R. Gunderson. 2,314,273; Mar. 16.
Load weight system. M. C. Tate. 2,314,178; Mar. 16.
Loading apparatus. T. F. McCarthy. 2,314,008–9; Mar. 16.
Lock: *See*—
Safety raft slip lock.
Valve lock.
Shaft lock.
Lock type reset device. P. G. Adams. 2,313,908; Mar. 16.
Lock-up for torque engaged clutches. J. J. Bloomfield. 2,314,030; Mar. 16.
Locomotive control system. C. E. Baston. 2,313,913; Mar. 16.
Locomotives, Drive unit for. N. E. Gee. 2,314,085; Mar. 16.
Louver construction. A. H. Bahnson, Jr. 2,313,912; Mar. 16.
Low frequency resilient mounting. F. C. Rushing. 2,313,893; Mar. 16.
Lubricant dispensing device. E. P. Sundholm. 2,313,845; Mar. 16.
Lubricating attachment. M. Rosenberg and J. Weissblatt. 2,314,163; Mar. 16.
Luminescent lamp. H. W. Leverenz. 2,314,096; Mar. 16.
Machine drive, Self releasing. L. Boor and C. H. Bourdelais. 2,314,193; Mar. 16.
Machine for viewing, cutting, and segregating photographic film. C. B. Bogue. 2,313,860; Mar. 16.
Magazine or the like. G. Heller. 2,314,088; Mar. 16.
Magazines, Producing. G. Heller. 2,314,087; Mar. 16.
Magnesia ceramics, Making. J. A. Heany. 2,313,746; Mar. 16.
Magnesium base alloy. C. E. Topping. 2,314,024; Mar.
Magnesium and its alloys from corrosion, Protecting. W. S. Loose. 2,313,754; Mar. 16.
Magnesium and its alloys, Producing protective coatings W. S. Loose. 2,313,755; Mar. 16.
Magnesium and its alloys, Treating. W. S. Loose. 2,313,753; Mar. 16.
Marbelizing plastic compositions, Method and apparatus for. G. H. Alvey and F. Hubert, Jr. 2,314,062; Mar. 16.
Material, Dim-out. H. C. Van Brederode. 2,313,904; Mar. 16.
Material, Steatite type ceramic. M. D. Rigterink. 2,313,842; Mar. 16.
Meat, Aging. B. E. Williams. 2,314,301; Mar. 16.
Meat, Chilling. B. E. Williams and L. L. Cadwell. 2,314,300; Mar. 16.
Mechanical movement. L. E. James. 2,314,278; Mar. 16.
Metal blanks, Machining. L. I. Yeomans. 2,314,183; Mar. 16.
Metal cutting tools, Manufacturing. R. W. Amdreasson. 2,314,189; Mar. 16.
Metal surfaces, Cleaning. O. M. Morgan. 2,314,285; Mar. 16.
Meter: *See*—
Electric meter.
Watthour meter.
Meter and sampler, Volume. A. Andlauer. 2,313,715; Mar. 16.
Method and apparatus for cleaning and dehydrating oily wood preservatives. J. A. Vaughan. 2,314,256; Mar. 16.
Mill: *See*—
Dispersion mill.
Mineral aggregates, Coating. E. B. Tucker and H. M. Grubb. 2,314,111; Mar. 16.
Mirror illumination. R. G. Nordquist. 2,313,838; Mar. 16.
Mixer: *See*—
Concrete mixer.
Mixing apparatus. J. N. Selvig. 2,314,166; Mar. 16.
Mixing device. W. A. McLean. 2,313,760; Mar. 16.
Molding apparatus. C. W. Akers. 2,313,716; Mar. 16.
Mono-ethers of chloro-alkyl acetals. E. C. Britton and C. L. Moyle. 2,314,305; Mar. 16.
Motor: *See*—
Fluid motor.
Mounting: *See*—
Crank shaft mounting.
Fluorescent tube mounting.
Low frequency resilient mounting.
Regulator unit and mounting.
Tank mounting.
Mower. R. D. Clemson. 2,314,077; Mar. 16.
Mower. S. E. Hiblom. 2,314,215; Mar. 16.
Naphthalenic compounds. E. A. Doisy, S. A. Thayer, S. B. Binkley, R. W. McKee, and D. W. MacCorquodale. 2,313,739; Mar. 16.
Necktie engaging collar. J. P. Wilson. 2,313,857; Mar. 16.
Nozzle, Spray. J. W. Grant. 2,313,994; Mar. 16.
Nut assembly. L. E. Olsen. 2,313,763; Mar. 16.
Oil accelerator. E. S. Scheble. 2,313,896; Mar. 16.
Oil rate control burners. W. A. Reed. 2,314,288; Mar. 16.
Oil well pump intermitter, Gas lift. A. T. Watson. 2,314,113; Mar. 16.
Oils, Method and apparatus for electrically treating. G. B. Hanson. 2,313,939; Mar. 16.
Ore concentrator. P. H. Behrens. 2,314,192; Mar. 16.
Organic compound and making the same. M. Engelmann and J. Pikl. 2,313,741; Mar. 16.
Organic compounds, Nitration of cyclic. G. F. Hennion. 2,314,212; Mar. 16.
Organic sulphitation products, Manufacture of. L. J. Beckham. 2,313,719; Mar. 16.
Organic sulphur and selenium compounds. B. Gáspár. 2,313,993; Mar. 16.
Oscillograph viewing device. A. H. Toepfer. 2,313,978; Mar. 16.
Ovens, Operating coke. C. Otto. 2,313,764; Mar. 16.
Package, Hat. L. A and R. M. Schornstein. 2,314,106; Mar. 16.
Package, packaging container, and blank therefor. E. M. Brogden. 2,313,731; Mar. 16.
Panel construction, Glass. J. J. Ohlis. 2,314,238; Mar. 16.
Paper, Copy and recording. H. R. Dalton. 2,313,808; Mar. 16.
Parenteral injection device. J. E. B. Shaw. 2,314,167; Mar. 16.
Pen nib and making same. J. A. Shea. 2,313,779; Mar. 16.
Pen nibs, Making. J. A. Shea. 2,313,778; Mar. 16.
Pens, Making. J. A. Shea. 2,313,777; Mar. 16.
Pens, Making. J. A. Shea. 2,314,054; Mar. 16.
Petroleum resides or the like, Coking. M. H. Tuttle. 2,314,112; Mar. 16.
Pharmaceutical composition. A. F. Coca. 2,314,125; Mar. 16.
Phenols, Substituted. F. L. Taylor and J. E. Livak. 2,313,782; Mar. 16.
Phonographs, Operating. H. R. Van Deventer. 2,313,851; Mar. 16.
Photographic apparatus. M. Curran. 2,314,033; Mar. 16.
Photographic emulsion. B. H. Carroll and J. A. Leermakers. 2,313,922; Mar. 16.
Pin. M. S. Lane. 2,314,223; Mar. 16.
Pipe nipple tool. A. E. Peters. 2,314,016; Mar. 16.
Pitter, Freestone. B. Ballou and L. W. Waters. 2,314,066; Mar. 16.
Plants, Regulating the growth of. F. D. Jones. 2,314,091; Mar. 16.
Plastic helicoidal structure. H. L. Brown. 2,313,986; Mar. 16.
Plastics, Molding. R. R. Bradshaw. 2,313,985; Mar. 16.
Plate, Scuff. J. F. Duffy. 2,313,812; Mar. 16.
Pocket fountain brush. J. Dworkin. 2,313,865; Mar. 16.
Polar relay. R. J. Little and T. J. Judge. 2,314,228; Mar. 16.
Polishing machine. L. H. Sterne and W. N. Lurcott. 2,313,781; Mar. 16.
Polythioureas. W. E. Hanford and P. L. Salzberg. 2,313,871; Mar. 16.
Potential device. P. O. Langguth and S. A. Bottonari. 2,313,950; Mar. 16.
Poultry chilling. C. T. Walter. 2,314,317; Mar. 16.
Power directional fused network. R. R. Pittman and C. H. Walsh. 2,314,017; Mar. 16.
Power lift. D. M. Morris. 2,314,235; Mar. 16.
Precipitation. R. W. Sullivan. 2,313,844; Mar. 16.
Press: *See*—
Drum press.
Hydraulic press.
Press fixture. A. Lefere. 2,314,148; Mar. 16.
Press unloader. F. W. Braun. 2,314,120; Mar. 16.
Press unloader. K. C. Butterfield. 2,314,123; Mar. 16.
Press welder construction. S. M. Humphrey and M. M. A. Seeloff. 2,313,941; Mar. 16.
Pressure control fitting. E. H. Bucknell and R. E. Bletcher. 2,314,071; Mar. 16.
Pressure storage tank. J. O. Jackson. 2,313,997; Mar. 16.
Printing plate. W. C. Toland and E. Bassist. 2,313,848; Mar. 16.
Progesterone, Manufacture of. B. Zondek and E. Bergmann. 2,314,185; Mar. 16.
Protection device, Contact. A. M. Curtis. 2,313,809; Mar. 16.
Protective system. A. J. McConnell. 2,314,231; Mar. 16.
Protector: *See*—
Shirt protector.
Proteolytic enzyme process. E. F. Jansen and A. K. Balls. 2,313,875; Mar. 16.
Pump. R. P. Miller. 2,313,836; Mar. 16.
Pump. E. A. Stalker. 2,314,058; Mar. 16.
Pumping apparatus. E. K. Knott. 2,314,281; Mar. 16.
Rack: *See*—
Hypodermic needle rack.
Radio direction finder, Automatic. V. D. Landon. 2,314,093; Mar. 16.
Radio direction finder, Self-orienting. D. S. Bond and W. L. Carlson. 2,314,029; Mar. 16.
Radio receiver. M. Hobbs. 2,314,309; Mar. 16.
Radio transmitter. G. L. Usselman. 2,313,850; Mar. 16.
Railway control analyzer. I. W. Lichtenfels. 2,314,283; Mar. 16.
Railway signaling system. C. A. Pickell. 2,314,241; Mar. 16.
Railway traffic controlling apparatus. F. H. Nicholson and H. W. Bryan. 2,313,887; Mar. 16.
Rake, Sweep. S. E. Hiblom. 2,314,214; Mar. 16.

Razor blade. H. J. Gaisman. 2,313,818; Mar. 16.
Razor having adjustable guards, Safety. J.-B. R. Savary. 2,313,895; Mar. 16.
Receptacle. M. Litman. 2,313,882; Mar. 16.
Receptacle and snap-on cover therefor. R. V. Burdick. 2,314,195; Mar. 16.
Record holder. S. T. Handel. 2,313,821; Mar. 16.
Recorder, Volt-ampere demand. W. H. Pratt. 2,314,244; Mar. 16.
Rectifiers, Selenium. E. A. Richards and L. J. Ellison. 2,314,104; Mar. 16.
Reel: *See*—
Fishing reel.
Refrigerating apparatus. F. W. Gerard, F. I. Rataiczak, and S. M. Schweller. 2,313,932; Mar. 16.
Refrigeration. C. T. Ashby. 2,314,064; Mar. 16.
Refrigerating apparatus. L. W. Atchison. 2,314,190; Mar. 16.
Refrigerating apparatus, Testing. H. M. Elsey. 2,314,201; Mar. 16.
Regulating system. W. H. Smith. 2,313,974; Mar. 16.
Regulator: *See*—
Throttling regulator.
Regulator control equipment. H. J. Carlin and L. N. Crichton. 2,313,921; Mar. 16.
Regulator unit and mounting. B. M. Leece. 2,314,225; Mar. 16.
Relay assembly, Indicating. W. A. Bruno. 2,314,122; Mar. 16.
Relay, Mechanical. G. Nelson. 2,313,959; Mar. 16.
Relay system. F. D. Johnson. 2,313,942; Mar. 16.
Release device for taper lathes. E. R. Smith and G. E. Fogarty. 2,314,250; Mar. 16.
Remote control system. J. J. Van Horn. 2,313,903; Mar. 16.
Resin esters, Refining of. W. N. Traylor. 2,313,901; Mar. 16.
Resistor and making the same. H. N. Veley. 2,313,853; Mar. 16.
Responsive control, Automatic condition. H. R. Crago. 2,314,197; Mar. 16.
Riveting tool. E. H. Shaff. 2,313,843; Mar. 16.
Roadway, Antiskid. R. G. Le Tourneau. 2,313,829; Mar. 16.
Roller lifter. M. R. Martin. 2,314,284; Mar. 16.
Roofing trim, Manufacturing S. and C. A. Dressel. 2,314,036; Mar. 16.
Rotameter and the like. G. K. Porter. 2,313,889; Mar. 16.
Rubber coupling. C. C. Scheele. 2,314,315; Mar. 16.
Saddle, Cycle. H. E. Kalter. 2,314,046; Mar. 16.
Safety device. F. A. Jimerson. 2,314,218; Mar. 16.
Safety raft slip lock. J. F. Carlsen. 2,313,802; Mar. 16.
Scale integrating mechanism. C. S. Maurer. 2,314,011; Mar. 16.
Scarfing machine. E. M. Leino. 2,314,049; Mar. 16.
Screen: *See*—
Gyratory screen.
Window guard and screen.
Screen and grating for stereoscopic pictures. A. J. M. Klinkum. 2,313,947; Mar. 16.
Seal, Automatic well test. R. L. Midgett. 2,313,762; Mar. 16.
Seal, Shaft. L. P. Grobel. 2,314,207; Mar. 16.
Selective system. H. M. Bach. 2,313,911; Mar. 16.
Separator: *See*—
Battery separator.
Service stall and service cabinet, Combined. E. J. Bisson. 2,314,118; Mar. 16.
Setscrew, Self-locking. H. T. Hallowell. 2,314,274; Mar. 16.
Shaft lock. A. M. Gurewitsch. 2,314,208; Mar. 16.
Shaver, Motor driven. J. K. Campbell. 2,314,073; Mar. 16.
Shaving apparatus. V. R. Abrams. 2,314,264; Mar. 16.
Shaving device. R. E. Benner. 2,314,068; Mar. 16.
Sheet magazine and feeding device for typewriting machines. C. W. Potter. 2,314,243; Mar. 16.
Sheet metal clamp. W. P. Lowther. 2,313,883; Mar. 16.
Shirt protector. R. J. Hennessey, W. D. Genck, and R. Guyer. 2,314,213; Mar. 16.
Shirt, Sports. F. W. Bryant. 2,314,072; Mar. 16.
Shoe. V. Forschner. 2,314,205; Mar. 16.
Shoe and making shoes. C. D. Turner. 2,313,902; Mar. 16.
Shoe for children, Educational. G. Hume. 2,313,874; Mar. 16.
Shoe lasting apparatus. J. S. Kamborian. 2,314,047; Mar. 16.
Shoes, Making. R. McDonald. 2,314,098; Mar. 16.
Sifter, Flour. A. L. Zuck. 2,314,186; Mar. 16.
Sign: *See*—
Changeable letter sign.
Signaling system. H. H. Abbott. 2,314,187; Mar. 16.
Signaling system. A. A. Lundstrom. 2,314,229; Mar. 16.
Signaling system, Coded track circuit. T. J. Judge. 2,314,280; Mar. 16.
Siren. E. D. Williamson. 2,314,260; Mar. 16.
Ski binding. T. Elliott. 2,314,270; Mar. 16.
Socket, Fluorescent light. W. E. McSween. 2,314,233; Mar. 16.
Solderless connector. H. D. Dorfman. 2,313,927; Mar. 16.
Sorting case. L. E. Yates. 2,313,794; Mar. 16.
Sorting machine of the manual control type. T. J. Watson. 2,314,258; Mar. 16.
Sound recording system. W. E. Garity and J. N. A. Hawkins. 2,313,867; Mar. 16.
Spark plug and making the same. J. S. Coldwell. 2,314,128; Mar. 16.
Spoon, Medicine. J. P. Takach. 2,313,977; Mar. 16.
Spool transfer device for winding machines. W. Siegenthaler. 2,314,020; Mar. 16.
Spot welding machine. G. S. Mikhalapov. 2,314,099; Mar. 16.
Spray drying apparatus and method. D. D. Peebles. 2,314,159; Mar. 16.
Spring assembly. D. L. Levine. 2,314,050; Mar. 16.
Stairway, Folding. R. B. Marschke. 2,314,004; Mar. 16.
Staple forming and setting machine. R. E. Zeruneith. 2,314,184; Mar. 16.
Steam generator. J. V. Pyle. 2,313,841; Mar. 16.
Steering gear for vehicles. H. Scott-Paine and D. R. Thomas. 2,314,165; Mar. 16.
Steering linkage. F. F. Kishline. 2,313,946; Mar. 16.
Stove construction. R. G. Rutledge. 2,314,248; Mar. 16.
Stove, Cooking. R. M. Sherman. 2,314,249; Mar. 16.
Strand handling apparatus. C. C. Smith. 2,314,168; Mar. 16.
Stretching machine. M. M. Cunningham. 2,314,318; Mar. 16.
Stripper, Poultry wing feather. J. E. Ringrose. 2,313,770; Mar. 16.
Sulphur dioxide-olefine resins, Producing. M. M. Barnett and J. H. Brown, Jr. 2,314,067; Mar. 16.
Sulphuric acid, Purification of recovered. F. M. Archibald. 2,313,910; Mar. 16.
Support: *See*—
Anatomical support.
Ironing machine support.
Bowling ball support.
Supporting means for floating tank roof seals, Side wall shoe. J. H. Wiggins. 2,313,856; Mar. 16.
Switch: *See*—
Crane limit switch.
Electric switch.
Switch for fluorescent lamps, Thermal. R. F. Hays, Jr., and C. H. Hodgkins. 2,313,745; Mar. 16.
Tamping machine. J. and W. Kardos. 2,313,825; Mar. 16.
Tank: *See*—
Press storage tank.
Tank mounting. R. Welch. 2,314,298; Mar. 16.
Tanning. P. R. Austin and W. E. Lundquist. 2,313,728; Mar. 16.
Telegraph systems, Printing. H. C. A. Van Duuren. 2,313,980; Mar. 16.
Telephone system. E. P. Fairbairn. 2,313,815; Mar. 16.
Telephone system employing phonographs. H. R. Van Deventer. 2,313,852; Mar. 16.
Television system. J. H. Roe. 2,313,971; Mar. 16.
Temperature compensated bubble for panoramic sextants. C. J. Crane and S. M. Burka. 2,313,734; Mar. 16.
Temperature controlling system. I. E. McCabe. 2,313,835; Mar. 16.
Tensioning device. B. Bogoslowsky. 2,314,070; Mar. 16.
Terminal for electrical conductors. L. H. Scott. 2,313,774–5; Mar. 16.
Textile fiber, Treating. M. Engelmann and J. Piki. 2,313,742; Mar. 16.
Theftproof meter cover. R. H. Lewis. 2,313,881; Mar. 16.
Thread protector nuts. W. Cox. 2,314,079; Mar. 16.
Thread tapping apparatus. R. H. Garbe and F. S. Wesley. 2,314,138; Mar. 16.
Throttling regulator. V. O. Beam. 2,314,266; Mar. 16.
Tire tool. G. F. Colley and N. S. Poindexter. 2,314,127; Mar. 16.
Toilet paper holder. S. Segal. 2,313,776; Mar. 16.
Tong, Pipe. H. E. Grau and C. A. Lundeen. 2,313,743; Mar. 16.
Tool: *See*—
Battery tool.
Riveting tool.
Bending tool.
Tire tool.
Flaring and swedging tool.
Wire stripping tool.
Pipe nipple tool.
Tool. J. Patrick. 2,313,963; Mar. 16.
Tool for balance weights, Removing. H. J. Kalajian. 2,314,145; Mar. 16.
Tool for chamfering, recessing and the like. A. Fried. 2,314,084; Mar. 16.
Tool holder. T. A. Wettig. 2,314,314; Mar. 16.
Tool shank, Self-locking. E. J. Armstrong. 2,313,858; Mar. 16.
Toothbrush, Shielded rotary. D. S. Beckner. 2,314,117; Mar. 16.
Torque and power transmitted by shafting, Measurement of. L. W. Chubb. 2,313,923; Mar. 16.
Toy gun. E. C. Borth. 2,313,721; Mar. 16.
Tracer for electrically controlled machine tools. S. H. Caldwell, J. J. Jaeger, and R. Taylor. 2,313,989; Mar. 16.
Track testing apparatus. W. C. Barnes. 2,313,729; Mar. 16.
Tractor plane. A. C. Gienger. 2,313,934; Mar. 16.
Traffic controlling system for railroads, Centralized. F. W. Brixner. 2,314,267; Mar. 16.
Traffic rate finding machine. J. M. Johnson. 2,313,998; Mar. 16.

Train control system, Coded continuous inductive. C. S. Bushnell. 2,314,268; Mar. 16.
Transformer system, Low capacity filament. J. L. Finch. 2,314,083; Mar. 16.
Transmission control. K. M. Armantrout. 2,313,717; Mar. 16.
Transmission control. V. Haigh. 2,314,042; Mar. 16.
Transmitter, Facsimile. C. J. Young. 2,314,027; Mar. 16.
Transmitting apparatus for railway train communication systems. A. M. Cravath. 2,313,924; Mar. 16.
Trap: *See*—
Animal trap.
Truck construction. R. Eksergian, R. H. Horton, J. W. Morton, and N. K. Skivesen. 2,313,740; Mar. 16.
Tunnel cementing apparatus. M. F. Kemper. 2,313,826; Mar. 16.
Turbine, Elastic fluid. J. K. Salisbury. 2,314,289; Mar. 16.
Turf spiking machine. E. C. Dontje. 2,314,035; Mar. 16.
Turnplate for cane sugar mills. N. Capay. 2,314,074; Mar. 16.
Twisting machine. P. M. Macklin. 2,314,151; Mar. 16.
Undergarment. H. Fredericksen. 2,313,992; Mar. 16.
Universal seat back cover. J. M. Kline. 2,313,878; Mar. 16.
Universal stereo attachment for projectors and cameras. D. B. Steinman. 2,314,174; Mar. 16.
Vacuum cleaner. D. M. Dow and G. D. Welles. 2,314,081; Mar. 16.
Vacuum controlling device for carburetors. A. C. Gutenberg and R. L. Brower. 2,314,141; Mar. 16.
Vacuum pump or compressor, Rotary vane. A. Sobek. 2,314,056; Mar. 16.
Valve: *See*—
Control valve.
Fluid control valve.
Valve closing means, Gas range. R. J. Lawrence. 2,314,095; Mar. 16.
Valve for steam heated cabinets. E. Banks, Jr. 2,313,798; Mar. 16.
Valve lock. E. C. Steiner. 2,314,059; Mar. 16.
Valve lock remover and catcher. R. Monnot. 2,313,885; Mar. 16.
Valve seat grinder. W. K. Beckwith. 2,314,028; Mar. 16.
Valve setting template. G. Groskritz. 2,313,936; Mar. 16.
Vehicle: *See*—
Wheeled vehicle.
Vehicle suspension. J. E. Casner. 2,314,076; Mar. 16.
Vehicle traction device and tire lug. J. Wampfler. 2,314,295; Mar. 16.
Ventilator, Window. T. L. Atkinson. 2,313,796; Mar. 16.
Vinylidene chloride composition stable to light. L. A. Matheson and R. F. Boyer. 2,313,757; Mar. 16.
Voice for toys, Selective. S. Marcus. 2,314,153; Mar. 16.
Wall board joint system. D. D. Crandell. 2,313,990; Mar. 16.
Wall construction. G. H. Lenke. 2,314,224; Mar. 16.
Wall form. W. R. Bagot. 2,314,116; Mar. 16.
Wall form, Concrete. R. R. Leggett, Sr. 2,313,880; Mar. 16.
Waterproofing permeable material, Process of and composition for. C. F. Fabian and J. B. Lee. 2,314,135; Mar. 16.
Watthour meter. R. M. Leippe. 2,313,951; Mar. 16.
Weatherproofing, aggregate and the like, Method and apparatus. J. E. Hall. 2,313,820; Mar. 16.
Web feed, Stop mechanism for. E. B. Otis. 2,313,888; Mar. 16.
Weighing mechanism. E. W. Vredenburg. 2,314,299; Mar. 16.
Welding apparatus. W. A. Weightman. 2,313,789; Mar. 16.
Welding gun. C. B. Van Eck. 2,314,320; Mar. 16.
Welding unit, Portable. B. A. Keener and C. G. Comer. 2,313,944; Mar. 16.
Wells, Treatment of. J. B. Stone. 2,314,022; Mar. 16.
Wheeled vehicle. B. P. Joyce. 2,313,877; Mar. 16.
Winch. N. H. Drake. 2,314,200; Mar. 16.
Window, Automatic multiple sash. H. Larson. 2,313,827; Mar. 16.
Window drier. C. Crawford. 2,314,078; Mar. 16.
Window guard and screen. E. H. Lunken. 2,314,230; Mar. 16.
Window screen or blind. L. E. Willett. 2,314,026; Mar. 16.
Window shade roller and curtain rod bracket. S. Woltanski. 2,313,907; Mar. 16.
Wire stripping tool. S. G. Wood. 2,313,793; Mar. 16.
Woodworking machine. M. M. Teague. 2,314,179; Mar. 16.
Work board and sink construction, Bread and. V. R. O'Brien. 2,314,157; Mar. 16.
Work scheduling apparatus. R. C. Hanford. 2,314,276; Mar. 16.
Work scheduling means. R. C. Hanford. 2,314,275; Mar. 16.
Work speeding apparatus. C. E. McCoy. 2,314,154; Mar. 16.

CLASSIFICATION OF PATENTS

ISSUED MARCH 16, 1943

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

1— 2: 2,314,184
2— 42: 2,313,811
94: 2,314,226
115: 2,314,072
137: 2,313,857
313: Re.22,288
4— 67: 2,313,840
185: 2,314,044
187: 2,314,157
5— 99: 2,313,834
149: 2,313,847
157: 2,313,813
273: 2,314,050
327: 2,314,080
6— 10: 2,313,735
8— 44: 2,314,196
116: 2,313,742
9— 21: 2,313,979
23: 2,313,802
10— 86: 2,314,075
87: 2,314,016
129: 2,314,138
12— 7: 2,314,047
42: 2,313,937
80: 2,313,914
142: 2,313,902
2,314,098
145: 2,313,892
146: 2,313,870
13— 9: 2,313,837
15— 15: 2,313,935
16: 2,314,177
23: 2,314,117
133: 2,313,865
157: 2,314,081
244: 2,313,787
16— 198: 2,314,015
17— 11.1: 2,313,770
18— 10: 2,314,062
39: 2,314,176
53: 2,314,164
57: Re.22,290
58: 2,313,792
2,314,262
59: 2,313,985
20— 42: 2,313,827
22— 65: 2,313,926
23— 66: 2,313,844
173: 2,313,910
24— 13: 2,314,265
155: 2,314,223
206: 2,314,246
25— 41: 2,313,716
2,313,825
131: 2,313,880
2,314,116
28— 4: 2,314,162
19: 2,313,785
29— 1.21: 2,314,183
3: 2,313,859
57: 2,314,314
85: 2,314,126
89: 2,314,319
89.5: 2,313,804
95.1: 2,314,160
148: 2,314,105
148.4: 2,313,876
157: 2,314,002
30— 43: 2,314,068
2,314,073
2,314,264
71: 2,313,895
326: 2,313,977
351: 2,313,818
31— 61: 2,313,822
32— 5: 2,314,094
33— 111: 2,313,920
174: 2,314,149
181: 2,313,936

33— 199: 2,314,199
206: 2,313,733
207: 2,314,209
211: 2,313,734
34— 77: 2,314,101
35— 1: 2,313,874
24: 2,314,275
2,314,276
36— 16: 2,314,205
30: 2,314,237
38— 40: 2,313,917
2,313,918
52: 2,314,114
117: 2,314,043
40— 130: Re.22,289
132: 2,313,737
140: 2,313,723
2,313,724
41— 26: 2,313,807
43— 61: 2,314,247
44— 57: 2,314,137
46— 81: 2,313,948
95: 2,314,057
167: 2,313,854
187: 2,314,153
47— 58: 2,314,091
61: Pl.Pt.574
62: Pl.Pt.573
49— 19: 2,314,290
2,314,303
51— 9: 2,314,069
94: 2,314,312
122: 2,313,781
186: 2,314,220
241: 2,314,028
285: 2,313,970
53— 3: 2,313,761
2,314,018
56— 25: 2,314,215
2,314,216
27: 2,314,214
253: 2,314,077
58— 44: 2,314,269
60— 52: 2,314,082
54.6: 2,314,150
61— 66: 2,314,200
62— 1: 2,314,279
108.5: 2,313,932
116: 2,314,190
119.5: 2,314,064
64— 11: 2,314,085
30: 2,314,227
66— 1: 2,313,725
68— 20: 2,314,155
23: 2,313,928
2,313,984
72— 16: 2,313,990
42: 2,314,224
2,314,238
46: 2,313,839
73— 21: 2,313,715
51: 2,314,201
2,314,310
53: 2,314,287
209: 2,313,889
74— 1: 2,313,959
64: 2,314,278
100: 2,314,165
189.5: 2,314,253
471: 2,313,768
503: 2,314,021
75— 61: 2,313,900
168: 2,314,024
76— 108: 2,314,189
77— 40: 2,314,012
2,314,014
73.5: 2,314,084
78— 10: 2,314,148
31: 2,313,722

78— 48: 2,313,843
79— 11: 2,313,981
81— 3: 2,313,885
9.5: 2,313,793
15: 2,314,034
82— 14: 2,313,849
2,314,250
33: 2,313,963
83— 11: 2,313,956
2,314,251
85— 5: 2,313,883
32: 2,314,079
86— 37: 2,314,115
88— 16.6: 2,314,174
24: 2,314,229
28.93: 2,313,947
49: 2,313,879
65: 2,313,831
89— 40: 2,313,877
90— 62: 2,313,989
91— 36: 2,313,891
51: 2,314,051
2,314,172
53: 2,314,168
94— 5: 2,313,829
95— 4.5: 2,314,272
7: 2,313,922
11: 2,314,033
97— 48: 2,314,035
50: 2,314,041
98— 99.7: 2,313,796
119: 2,313,912
2,314,003
99— 80: 2,314,282
95: 2,314,090
107: 2,314,301
174: 2,314,300
175: 2,314,313
194: 2,314,317
100— 47: 2,313,996
2,314,074
101—149.2: 2,313,848
169: 2,313,880
103— 84: 2,313,909
149: 2,314,281
240: 2,313,836
105— 96.1: 2,313,916
197: 2,313,740
106— 15: 2,314,242
58: 2,313,746
62: 2,313,842
2,314,107
268: 2,314,135
269: 2,314,124
273: 2,314,111
277: 2,313,709
306: 2,314,188
107— 1: 2,313,894
14: 2,313,949
111— 5: 2,314,045
52: 2,314,235
112— 104: 2,313,832
122: 2,314,163
262: 2,314,202
113— 32: 2,313,777
2,313,778
2,313,779
2,314,054
50: 2,314,120
2,314,123
80: 2,313,750
95: 2,313,751
117— 54: 2,313,820
76: 2,313,727
166: 2,314,277
119— 96: 2,313,883
121— 34: 2,314,218
38: 2,313,824
157: 2,314,005

122— 479: 2,313,841
123— 122: 2,314,140
169: 2,314,128
191: 2,314,175
198: 2,313,730
124— 25: 2,313,803
35: 2,313,721
126— 5: 2,314,249
30: 2,314,248
42: 2,314,095
110: 2,314,089
307: 2,313,933
128— 159: 2,313,992
205: 2,313,999
227: 2,313,805
272: 2,314,167
129— 1: 2,314,204
4: 2,314,121
16.1: 2,313,998
130— 13: 2,313,791
27: 2,314,259
131— 9: 2,314,147
136— 148: 2,314,053
149: 2,314,203
137— 68: 2,314,158
69: 2,313,773
78: 2,314,071
2,314,166
144: 2,313,890
153: 2,313,798
2,314,141
2,314,152
165: 2,313,797
138— 46.5: 2,313,772
139— 426: 2,313,904
141— 7: 2,314,048
142— 15: 2,314,055
143— 42: 2,314,049
144— 215: 2,314,102
278: 2,314,179
309: 2,313,953
2,314,036
146— 3: 2,314,206
28: 2,314,056
30: 2,313,898
123: 2,313,872
148— 6: 2,313,755
2,313,925
11.5: 2,314,010
25: 2,313,736
149— 5: 2,313,728
151— 15: 2,313,763
32: 2,314,274
153— 2: 2,314,151
38: 2,313,720
73: 2,313,748
2,313,749
79: 2,314,221
154— 1: 2,314,318
155— 5.23: 2,314,046
88: 2,314,130
182: 2,313,878
157— 6: 2,314,127
158— 28: 2,313,943
36.3: 2,314,288
159— 4: 2,314,159
160— 92: 2,314,230
371: 2,314,026
161— 7: 2,314,113
10: 2,314,109
164— 20: 2,314,271
29: 2,313,801
61: 2,313,986
68: 2,313,860
166— 10: 2,313,762
167— 58: 2,314,125
81: 2,313,739
170—135.5: 2,314,136
163: 2,313,795

170— 163: 2,314,025
171— 34: 2,313,758
2,313,908
95: 2,313,967
2,313,978
2,314,244
119: 2,313,921
2,313,931
2,313,950
2,313,957
209: 2,313,893
229: 2,313,974
252: 2,313,899
264: 2,313,951
172— 152: 2,313,955
239: 2,313,913
279: 2,314,239
281: 2,313,968
173— 259: 2,313,927
3,314,219
269: 2,313,774
2,313,775
328: 2,314,225
2,314,233
334.1: 2,313,960
174— 52: 2,314,038
148: 2,313,972
175— 183: 2,313,729
2,314,283
294: 2,313,809
2,313,942
2,314,017
2,314,231
320: 2,313,973
2,314,228
366: 2,314,104
176— 2: 2,313,788
41: 2,314,007
122: 2,314,096
124: 2,313,744
2,313,961
2,314,254
2,314,311
126: 2,314,134
177— 7: 2,314,260
311: 2,313,975
329: 2,314,122
353: 2,314,187
2,314,267
178— 7.5: 2,313,915
11: 2,314,027
44: 2,313,906
2,313,911
179— 1: 2,314,108
6: 2,313,852
18: 2,314,229
81: 2,313,815
100.3: 2,313,867
171: 2,313,962
2,314,132
171.5: 2,313,886
2,314,161
188— 152: 2,313,991
189— 15: 2,313,897
192— .02: 2,314,019
41: 2,314,030
105: 2,313,717
2,314,042
131: 2,313,869
195— 66: 2,313,875
196— 10: 2,314,040
15: 2,314,256
2,314,257
43: 2,314,142
52: 2,313,940
197— 133: 2,313,888
198— 19: 2,314,154
135: 2,313,814
220: 2,314,008

198— 220: 2,314,009
200— 47: 2,313,995
67: 2,313,964
83: 2,314,191
2,314,210
2,314,240
90: 2,313,919
104: 2,314,291
113: 2,313,969
122: 2,313,745
140: 2,314,211
147: 2,314,292
162: 2,313,771
201— 76: 2,313,853
202— 12: 2,313,764
14: 2,314,112
201— 32: 2,313,756
35: 2,313,753
56: 2,313,754
145: 2,314,285
190: 2,313,939
311: 2,314,119
206— 9: 2,314,106
44: 2,313,718
2,313,747
2,313,766
2,314,304
56: 2,314,261
59: 2,314,146
65: 2,314,198
209— 120: 2,314,063
122: 2,314,258
326: 2,313,765
357: 2,314,186
482: 2,314,192
210— 57: 2,313,896
71: 2,314,286
197: 2,314,294
200: 2,314,110
211— 10: 2,313,794
40: 2,313,821
69: 2,313,905
214— 17: 2,314,316
215— 43: 2,313,816
217— 14: 2,314,194
219— 4: 2,313,789
2,313,941
2,314,099
2,314,320
19: 2,313,908
38: 2,313,786
46: 2,313,864
220— 1: 2,313,997
23: 2,314,245
26: 2,313,856
40: 2,313,881
60: 2,314,195
85: 2,313,855
221— 47.5: 2,313,845
60: 2,314,052
62: 2,313,784
114: 2,313,846
223— 71: 2,314,213
224— 25: 2,313,944
45: 2,314,143
225— 3: 2,314,100
2,314,273
40: 2,313,954
226— 68: 2,313,828
227— 8: 2,313,958
228— 50: 2,314,004
229— 7: 2,313,783
16: 2,313,731
17: 2,313,987
230— 116: 2,313,934
122: 2,314,058
153: 2,314,056
234— 5.5: 2,313,752
235— 60: 2,314,156

235— 62: 2,313,817
2,313,982
144: 2,313,873
236— 9: 2,314,197
44: 2,314,232
80: 2,314,266
91: 2,313,835
237— 19: 2,314,086
240— 4.2: 2,313,838
6: 2,313,983
6.41: 2,314,061
78: 2,314,103
242— 41: 2,314,020
45: 2,314,070
55.2: 2,313,776
84.6: 2,314,032
118: 2,314,139
244— 82: 2,313,800
246— 3: 2,313,903
8: 2,313,924
33: 2,314,241
2,314,280
63: 2,313,887

246— 63: 2,314,268
248— 13: 2,314,173
259: 2,313,907
350: 2,313,823
249— 42: 2,314,209
250— 8: 2,313,980
11: 2,314,029
2,314,093
2,314,234
17: 2,313,850
20: 2,313,952
2,314,309
27: 2,313,819
2,313,966
2,313,971
2,314,083
2,314,302
27.5: 2,314,037
2,314,060
2,314,065
2,314,097
2,314,059
251— 144:
252— 8.55: 2,314,022

253— 77: 2,314,289
254— 1: 2,314,284
131: 2,314,145
255— 35: 2,313,743
72: 2,313,806
259— 8: 2,313,760
161: 2,314,169
260— 2: 2,313,871
20: 2,313,726
22: 2,313,799
28: 2,314,181
37: 2,314,307
71: 2,314,308
79: 2,313,945
92.5: 2,313,757
94.5: 2,314,067
103: 2,313,901
143: 2,314,023
193: 2,313,738
231: 2,313,866
348: 2,314,039
397.1: 2,314,185
397.3: 2,313,732

260— 403: 2,313,741
505: 2,314,255
513: 2,313,719
563: 2,313,988
566: 2,313,993
613: 2,314,305
619: 2,313,782
640: 2,313,767
645: 2,314,212
676: 2,314,217
683.5: 2,314,297
261— 12: 2,314,131
15: 2,313,976
43: 2,313,929
50: 2,314,170
51: 2,314,171
263— 28: 2,314,296
265— 12: 2,314,193
25: 2,313,923
27: 2,314,178
47: 2,314,011
62: 2,313,862
266— 30: 2,313,769

267— 11: 2,314,076
270— 37: 2,314,087
271— 42: 2,314,243
272— 14: 2,314,092
274— 46: 2,313,790
2,313,851
279— 103: 2,314,013
280— 5: 2,314,298
11.35: 2,314,270
11.37: 2,314,293
37: 2,313,884
53: 2,313,868
61: 2,314,129
96: 2,313,946
281— 25: 2,314,088
282— 28: 2,313,808
2,313,810
285— 54: 2,314,315
84: 2,314,000
2,314,001
2,314,236
122: 2,313,780
146: 2,313,861

286— 9: 2,314,207
287— 114: 2,314,208
292— 209: 2,314,180
294— 1: 2,314,252
71: 2,313,882
296— 1: 2,313,812
299— 54: 2,314,182
88: 2,314,263
89: 2,313,930
145: 2,313,994
154: 2,314,078
300— 21: 2,314,306
302— 17: 2,313,826
49: 2,314,031
305— 8: 2,314,295
306— 41: 2,313,858
308— 2: 2,313,863
2,314,321
179.5: 2,314,133
311— 64: 2,314,144
312— 100: 2,313,965
140.4: 2,314,118
314— 33: 2,314,006

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

2,313,731: 229— 16
2,313,740: 105—197
2,313,746: 106— 58
2,313,748: 153— 73
2,313,749: 153— 73
2,313,757: 260—92.5
2,313,766: 206— 44
2,313,772: 138—46.5
2,313,787: 15—244
2,313,796: 98—99.7

2,313,801: 164— 29
2,313,807: 41— 26
2,313,815: 179— 81
2,313,817: 235— 62
2,313,818: 30—351
2,313,820: 117— 54
2,313,846: 221—114
2,313,881: 220— 40
2,313,884: 280— 37
2,313,898: 146— 30

2,313,929: 261— 43
2,313,945: 260— 79
2,313,948: 46— 81
2,313,965: 312—100
2,313,985: 18— 59
2,313,993: 260—566
2,314,003: 98—119
2,314,013: 279—103
2,314,015: 16—198
2,314,019: 192—.02

2,314,032: 242—84.6
2,314,035: 97— 48
2,314,067: 260—94.5
2,314,071: 137— 78
2,314,124: 106—269
2,314,147: 131— 9
2,314,155: 68— 20
2,314,162: 28— 4
2,314,163: 112—122
2,314,167: 128—272

2,314,170: 261— 50
2,314,171: 261— 51
2,314,190: 62—116
2,314,194: 217— 14
2,314,202: 112—262
2,314,205: 36— 16
2,314,235: 111— 52
2,314,246: 24—206
2,314,249: 126— 5
2,314,257: 196— 15

2,314,289: 253— 77
2,314,295: 305— 8
2,314,296: 263— 28
2,314,302: 250— 27
2,314,317: 99—194

U. S. GOVERNMENT PRINTING OFFICE: 1943

U. S. Court of Customs and Patent Appeals

IN RE SWENSON ET AL.

No. 4,595. Decided December 1, 1942

[— F.(2d) —]

1. APPLICATION—RENEWAL—SUBJECT TO EXAMINATION LIKE AN ORIGINAL APPLICATION.

"An application when renewed is subject to all of the hazards as to patentability of the claims that exist in an application coming before the Examiner for the first time. Rule 176 states: '• • • The renewal application will • • • be subject to examination like an original application.' See *LeBrox v. Nix*, 38 App. D. C. 494, 180 O. G. 1139."

2. CLAIMS—"MARKUSH" TYPE.

The doctrine of *Ex parte Markush*, 340 O. G. 839, 1925 C. D. 126, "as consistently followed in the Patent Office," *Held* "proper, liberal and wholesome."

3. SAME—SAME.

"It was held by the tribunals below that an improper Markush grouping resided in the phrase 'a reducing agent selected from the group consisting of sulfur, coal, carbon, charcoal, starch, wood flour, sugar and glycerine.' Applying the Markush doctrine to the claims containing such grouping it is at once apparent that sulfur, which is an element, cannot possibly have any common characteristic with the other seven reducing agents except that it will perform the same function as the other agents. This is not sufficient."

4. SAME—SAME.

"It may be proper • • • that each of the said seven agents can be included in the coined expression 'carbonaceous reducing agent'. But sulfur is not to be found classifiable as a member of such a kind or class of reducing agents, and therefore its inclusion with carbonaceous reducing agents vitiates all of the claims in which it appears, and under the Markush doctrine those claims were properly rejected."

5. SAME—ALTERNATIVE—RULE 41.

"If the reducing agents set out in the claims are to be considered each as a separate species, the claims are likewise improper in form as being alternative because they cover more than three species which is all that may be claimed in a single application in accordance with Patent Office Rule 41."

6. PATENTABILITY—METHOD OF COLORING ROOFING GRANULES AND PRODUCT.

Certain claims of appellants' application relating to a method of coloring roofing granules and to the colored granules *Held* to have been rightly rejected as containing improper Markush groups, and other claims thereof *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

Mr. Harold J. Kinney (*Mr. Chas. S. Grindle* of counsel) for Swenson et al.

Mr. W. W. Cochran (*Mr. E. L. Reynolds* of counsel) for the Commissioner of Patents.

JACKSON, *J.*:

Appellants on November 13, 1934, filed their application in the United States Patent Office for a patent for new and useful improvements in a process for treating mineral substances and for the resultant product.

The Primary Examiner succinctly described the alleged invention as follows:

The alleged invention relates to a method of coloring roofing granules, which are to be used for covering asphalt coated roofing. The granules, which are sand, slate or other stone, are coated with a ceramic glaze composition containing a chromate or dichromate and a reducing agent, such as sulfur, coal, charcoal, starch, wood-flour, glycerine, etc. This glaze is fired and fused on the granules; during the firing the chromate or dichromate is reduced by the reducing agent to form chromic oxide, an insoluble green pigment. The color of the pigment produced varies from blue-green to yellow green depending on the type of chromate or dichromate employed and the amount of reducing agent in the glaze. The process may be also used with a glaze composition containing chromic oxide and a reducing agent, in which case the reducing agent prevents the oxidation of the insoluble green chromic oxide to water soluble chromates and dichromates.

The application was allowed with seventeen claims October 30, 1937. Subsequently, the application was renewed containing the previously allowed claims and new claims, all of which were finally rejected by the Examiner. Following the final rejection an amendment was filed, cancelling certain claims, substituting some of the claims and amending others. The applicants appealed from the final rejection, bringing to the Board of Appeals for review the decision of the Examiner rejecting claims 58, 59, 74 to 84 inclusive, 86, and 89 to 117 inclusive of the amended renewal application, but before the Board, withdrew the appeal as to claims 58, 59, 90, 111, and 113 to 116 inclusive. The appeal as to those claims was dismissed by the Board, which left for consideration claims 74 to 84 inclusive, 86, 89, 91 to 110 inclusive, 112, and 117. The Board in its decision of January 8, 1941, affirmed the decision of the Examiner rejecting all of the claims before it. On February 26, 1941, appellants filed their notice of appeal to this court and on March 13, 1941, filed a continuing application, Serial No. 383,168, to the application herein, which continuing application is involved in a copending patent appeal No. 4,766, which is decided concurrently herewith.

In this court appellants moved to dismiss the appeal as to claims 74 to 77 inclusive, 80, 83, 84, 91, 94 to 96 inclusive, 98 to 110 inclusive, 112, and 117, which motion will be granted. The claims retained in the present appeal are claims 78, 79, 81, 82, 86, 89, 92, 93, and 97 of which claims 78 and 86 are illustrative and read as follows:

78. In the manufacture of colored granules coated with a fused glaze coating of the order of blue-green, normal green, yellow-green, the step or steps which comprise coating and reacting a water-soluble salt containing the radical of oxygen and chromium, fluxing the glaze forming ingredients under at least roasting temperatures in the presence of a reducing agent selected from the group consisting of sulfur, coal, carbon, charcoal, starch, wood flour, sugar and glycerine.

86. Colored granules comprising heat-resistant base granules coated with a green colored ceramic glaze containing a water-insoluble green oxide of chromium pigment, said glaze being substantially free of water-soluble chromates and dichromates.

The involved claims were rejected as unpatentable over the prior art and claims 78, 79, 81, 82, 92, 93, and 97 were further rejected as containing improper "Markush" groups.

The cited references are: Fisher, 1,766,814, June 24, 1930; Fisher, 1,782,648, November 25, 1930; Brown, 1,831,784, November 10, 1931; Baggs et al., 1,959,149, May 15, 1934.

[1] Appellants in their brief contend that because claims 78, 79, 81, 82, 92, 93, and 97 were not questioned as to their form by the Examiner who first passed upon them, the Examiner and the Board in their subsequent action erred in rejecting these claims on the ground that they are improper "Markush" groups. There is no merit to such a contention, for the reason that an application when renewed is subject to all of the hazards as to patentability of the claims that exist in an application coming before the Examiner for the first time. Rule 176 states:

"• • • The renewal application will • • • be subject to examination like an original application." See *LeBrou v. Nix*, 38 App. D. C. 494, 180 O. G. 1139.

As an exception to the long established practice in the Patent Office rejecting claims which in form are alternative, for the reason that they do not definitely set out the invention but only state that the invention may reside in any one of several specified alternatives, *Ex parte Reid et al.*, 15 O. G. 882, 1879 C. D. 70; *Ex parte McDougal*, 18 O. G. 130, 1880 C. D. 147, is the doctrine first enunciated by the Commissioner of Patents in the case of *Ex parte Markush*, 340 O. G. 839, 1925 C. D. 126. Hence the term "Markush" claim. In that case a petition was filed with the Commissioner challenging the action of the Examiner objecting to the form of certain claims as being alternative. The applicant in his application had stated he discovered that the coupling of a diazo compound of aniline or its homologues or the halogen substitutes thereof with halogen substituted pyrazolones would produce dyes of exceptional fastness. The Examiner objected to the form of the claims, holding them to be alternative in that they included a diazotized solution of aniline or its homologues or halogen substitutes. Thereupon, to avoid the objection as to alternativeness the term "mono-amine" was substituted. The Examiner held that term to be too broad for the reason that it would include compounds which would not work in the combination set out in the application and also that only aniline and its homologues had been disclosed. To meet this objection, the applicant substituted for "mono-amine" in the same claims the phrase "material selected from the group consisting of aniline, homologues of aniline and halogen substitutes of aniline." The Examiner objected to the use of that phrase for the reason that in his opinion it evaded the alternative form without in fact avoiding alternativeness, and he also stated that the phrase was not the expression of a generic term. From that objection the petition to the Commissioner was filed.

The Commissioner in his decision noted the Examiner had admitted the expression "mono-amine" to be truly generic but held that it was an example of a generic term which included a number of substances not all of which could be used in the combination stated, instancing aliphatic mono-amines and pyridine mono-amines. The Commissioner then held, that if there were a true subgeneric term, which would include the elements which the applicant found useful and exclude those which are not, that the use of such term is proper and does not make the claim in which it is used alternative. He also held that if there be no known subgeneric term then the applicant might employ a generic term limited to the elements found to be operative. The Commissioner, in summary, said:

"In place of the expression originally used, which the Examiner objected to as alternative, applicant substituted a generic term, which was objected to as too broad, and he is now attempting to coin a subgeneric expression—viz., a group comprising certain substances."

The claims containing the coined subgeneric expression were therefore held to be unobjectionable as to form.

There has since been no deviation by the Patent Office from the doctrine set out in the Markush case supra, and in subsequent decisions it has been, in our opinion, properly interpreted.

In the case of *Ex parte Palmer and Fulton*, 398 O. G. 707, 1930 C. D. 3, it was stated as follows:

It was not intended to rule in the Markush case that any substances which would accomplish applicant's purpose might be included in the claim in the form stated, irrespective of whether those substances could properly be regarded as species of a known genus or subgenus or whether they were so related that the discovery of the desired property in one would suggest its existence in the other, so that the granting of a patent specific to one might justify the refusal of a patent on an application specific to another.

In the case of *Ex parte Larson*, 422 O. G. 3, 1932 C. D. 17, it was held that although the situation there presented was not the same as that appearing in the Markush case supra, the principle involved in the latter case was applicable to the facts in the former. In that case certain claims were rejected as alternative which contained the following language:

a heated catalyst consisting of the reduction product of a fused mixture of copper oxide and an oxide of one of the elements of the group manganese, tungsten, zinc, cadmium and molybdenum.

The Board held that since applicant had disclosed, used and claimed only the metallic oxides which would work in his process he had "made them equivalents and a related group in said process." It will be noted that the group contains only metallic oxides of the stated elements and in view of this of course the grouping was proper.

In the case of *Ex parte Burke*, 441 O. G. 509, 1934 C. D. 6, it was held that:

The Markush decision was not designed to give an applicant generally a different kind of patent claim from that enjoyed prior to the decision and surely did not contemplate the joinder under one group of a plurality of substances solely because they could all be made use of to a common end in a process or composition. The Markush group was limited, and properly so, to substances having in addition a community of chemical or physical characteristics definitely recognized in scientific classification.

In the case of *Ex parte Dahlen*, 441 O. G. 510, 1934, C. D. 9, the Commissioner stated as follows:

• • • Where the substances, though serving a common end in a given process (or composition), are so dissimilar or nonrelated chemically or physically that it would be repugnant to accepted principles of scientific classification to associate them together as a generic or subgeneric group, the Markush formula cannot be used, and [as] was held in *Ex parte Palmer et al.*, 1930 C. D. 3; 398 O. G. 707.

[2] We are of opinion that the doctrine of the Markush case, as consistently followed in the Patent Office, is proper, liberal and wholesome.

We can see no inconsistency in the application of this doctrine in the case of *Ex parte Dean*, 38 U. S. P. Q. 499, as is contended by appellants. In that case, the Board of Appeals held that the applicant might voluntarily omit one member of a chemical group even if the omitted member might have been included. The mere fact that the Board believed the cases of Ex parte Burke and Ex parte Dahlen, supra, were not intended to apply to a case of that character does not by any means create a doubt concerning the application of the Markush doctrine in a proper case.

[3] In the instant case it was held by the tribunals below that an improper Markush grouping resided in the phrase

"a reducing agent selected from the group consisting of sulfur, coal, carbon, charcoal, starch, wood flour, sugar and glycerine."

Applying the Markush doctrine to the claims containing such grouping it is at once apparent that sulfur, which is an element, cannot possibly have any common characteristic with the other seven reducing agents except that it will perform the same function as the other agents. This is not sufficient. Ex parte Palmer and Fulton, supra.

[4] [5] It may be proper, as was held by the Board of Appeals in the said companion appeal No. 4,766, that each of the said seven agents can be included in the coined expression "carbonaceous reducing agent." But sulfur is not to be found classifiable as a member of such a kind or class of reducing agents, and therefore its inclusion with carbonaceous reducing agents vitiates all of the claims in which it appears, and under the Markush doctrine those claims were properly rejected. Furthermore, if the reducing agents set out in the claims are to be considered each as a separate species, the claims are likewise improper in form as being alternative because they cover more than three species which is all that may be claimed in a single application in accordance with Patent Office Rule 41.

[6] Having concluded that claims 78, 79, 81, 82, 92, 93, and 97 have been rightly rejected as containing improper Markush groups, it is not necessary to discuss the rejection of those claims in view of the prior art.

One of the grounds for the rejection of claims 86 and 89 was that they are readable on either the Brown reference or the Fisher patent, 1,766,814. Claim 89 differs from claim 86 only in that it claims a waterproof roofing in which are embedded in a layer of adhesive the granules of claim 86.

The Fisher patent, 1,766,814, relates to a process for coloring granular material, particularly slate, as a surfacing for prepared roofing. According to the specification the granules can be so processed that the product may be dark glazed green, dull red glazed, glazed black or brownish black, and that the colored granules upon the surface of which a sodium silicate glass is formed by the process will withstand the weather. In his process for producing green granules the patentee states that he uses a mixture of sodium silicate, chromic oxide, borax and water. When the mixture has been applied to the slate granules they are heated in a kiln to a temperature of between 1500 and 1800 degrees Fahrenheit. The chromic oxide produces the green coating.

The Brown patent relates to rock granule surfacing material and its manufacture and to roofing surfaced therewith. The basic raw material is granules of rock such as quartzite, mica schist, gaulster or other rock or material susceptible of coloring or glazing by the process. Different colors may be produced on the granules by means of the application of different substances. For green colors the patentee may employ, among other metallic coloring agents, sodium dichromate in an aqueous solution of a fluxing salt such as sodium nitrate or sodium carbonate. The granules after having been coated are heated to a drying degree and then fired in a kiln or furnace in a temperature sufficient to cause fusion of the glaze and combination thereof with the granules,

"thus producing solid solutions of metallic silicates of the characteristic color due to the presence of the particular metal or metals employed in the glaze."

Claims 86 and 89 are product claims and are directed to green colored granules, the coloring being in the coating glaze containing a water-insoluble green oxide of chromium pigment, and substantially free of water-soluble chromates and dichromates. These claims were not included among the seventeen claims allowed in the first instance. Each of those allowed claims contained what we have heretofore held to be an improper Markush grouping. In his statement rejecting claims 86 and 89 the Examiner stated as follows:

• • • Glazes containing chrome oxide as the sole pigment are fully disclosed by Fisher (1) and Brown. The limitation that the glaze is substantially free from water-soluble chromates and dichromates cannot impart patentability to these claims, since it is obviously desirable that the color be pure chromic oxide and that water-soluble ingredients be absent. Furthermore, the granules of Fisher (1) and Brown are considered to be substantially free of water-soluble chromates and dichromates; this will be especially true after exposure to the weather for some time, whereupon the water-soluble salts will be washed out by rain.

The Board, in affirming the said rejection by the Examiner, stated as follows:

• • • Taking the Brown patent, for example, it discloses imparting a glaze of any color desired to granules by interfusing fluxing or glazing agents with their surfaces. For green colors, potassium or sodium dichromate is employed in the color glaze solution. The granules are wet or impregnated with the soluble glaze fired and cooled. The patentee states that the glazed and colored particles thus obtained are quite impervious to moisture from the atmosphere and to oils from the roofing to which they are applied, that the compounds formed in the firing operation completely coat the granules with an insoluble gloss-like coating or surface glaze so that their color is insoluble and highly permanent with high weather-resisting properties generally characteristic of ceramic glazes. It is considered that this Brown disclosure renders claims 86, 89, and 104 unpatentable.

It is noted that neither claim 86 nor claim 89 makes mention of any reducing agent. It is apparent that the coating of the Brown patent must derive its green color from oxide of chromium. The patentee states his glaze and color are insoluble and it therefore follows that his coating contains water-insoluble green oxide of chromium free from water-soluble chromates and dichromates. There is no further limitation in claims 86 and 89.

The Fisher patent, 1,766,814, likewise describes a coating on granules containing green chromic

oxide and which is free from chromates. The patentee states that his coatings will withstand the weather, and it would therefore follow, in our opinion, that the chromic oxide cannot be water-soluble. We think that claims 86 and 89 are fully anticipated by either the Brown or the Fisher, 1,766,814, references, and the decision of the tribunals of the Patent Office should be affirmed.

The motion to dismiss the appeal as to claims 74 to 77 inclusive, 80, 83, 84, 91, 94 to 96 inclusive, 98 to 110 inclusive, 112, and 117 is granted, and the decision of the Board of Appeals affirming that of the Examiner denying patentability to claims 78, 79, 81, 82, 86, 89, 92, 93, and 97 is affirmed.

Affirmed.

Changes in Classification

Order No. 3,703, February 23, 1943, directs:

In *class 21, Preserving, Disinfecting, and Sterilizing* (Division 44), cancel the following subclasses and their definitions:

Methods
Wood treatment
9 Seasoning and drying
11 Vulcanizing,

The above subclasses were erroneously ordered canceled in Bulletin No. 82, page 5, Order No. 3,618. The patents have been placed for the most part in class 34, Drying and Gas or Vapor Contact with Solids, subclasses 9.5, 13.4, 13.8, 16.5, hereinafter established or other appropriate subclasses under Processes, class 117, Coating; Processes and Miscellaneous Products, appropriate subclasses and 144, Woodworking, subclass 309.

In *class 24, Buckles, Buttons, Clasps, Etc.* (Division 5), establish the following subclasses and definitions:

Cord and rope holders
122.3 Sheathed strand,
122.6 Plural-strand cord or rope,

122.3. Devices under subclass 115 specially designed for gripping or holding a sheathed strand, i. e., a cord, rope, or other flexible strand which is enclosed in a tubular covering therefor. The term "covering" as herein used, includes, for example, coatings of fibrous, plastic, or other material, and also armors or sheaths formed of wires concentrically arranged about a central core-strand.

Search this class, subclass—
122.6—for cord or rope holders specialized for gripping or holding plural-strand cords or ropes other than those of the armored or central core type.

Search Classes—
173—ELECTRICITY, CONNECTORS.
174—ELECTRICITY, CONDUCTORS AND INSULATORS, subclasses 74 to 94, for connector and terminal devices for armored sheathed, or insulated electrical conductors.

122.6. Devices under subclass 115 specialized for gripping or holding cords or ropes which are formed from a plurality of strands twisted together or otherwise assembled into a unitary structure. These devices are characterized by having a structure or mode of operation (*a*) which requires or causes the separation (as by untwisting, bending back, etc.) of the individual strands of the cord, rope, or cable, or (*b*) in which individual strands of a cord, rope, or cable are separately gripped or held.

Search this class, subclass—
122.3—for similar devices when some of the strands of the cord, rope, or cable are arranged to form an armor or covering for a central core.

Search Classes—
173—ELECTRICITY, CONNECTORS.
174—ELECTRICITY, CONDUCTORS AND INSULATORS, subclasses 74 to 90, for connectors and terminal devices for plural-strand electrical conductors.

The patents in these subclasses have been taken for the most part from class 24, Buckles, Buttons, Clasps, etc., subclass 115, 123 to 126 inclusive, 129, 132, and 136.

In *class 34, Drying and Gas or Vapor Contact with Solids* (Division 49), establish the following subclasses and definitions:

Processes
With contacting of material treated with liquids or solids
9.5 Wood treated,
With operation on treated material other than drying
With cooling
13.4 Wood treated,
13.8 Wood treated,
With vacuum and/or gas or vapor pressure varying or control and/or fluid sealing
16.5 Wood treated,

9.5. Processes under subclass 9 in which the material undergoing treatment is wood.
Note.—The term "wood" excludes all comminuted forms (as pulp, fibers, shreds, etc.) and products made therefrom.

13.4. Processes under subclass 13 in which the material undergoing treatment is wood.
Note.—See the note to subclass 9.5.

13.8. Processes under subclass 12 in which the material undergoing treatment is wood.
Note.—See the note to subclass 9.5.

16.5. Processes under subclass 15 in which the material undergoing treatment is wood.
Note.—See the note to subclass 9.5.

The patents in the above subclasses have been taken for the most part from class 21, Preserving, Disinfecting, and Sterilizing, subclasses 9 and 11, abolished in this order.

In *class 99, Foods and Beverages* (Division 1), abolish the following subclass with its definition:

Apparatus
Emulsifying
Homogenizing
268 Methods

The patents formerly contained in this subclass have been placed for the most part in class 99, Foods and Beverages, appropriate subclasses, particularly subclasses 60, 63, 122, and 144, and class 252, Compositions, appropriate subclasses, particularly subclasses 314 and 359.

In *class 167, Medicines, Poisons, and Cosmetics* (Division 63), abolish the following subclass and its definition:

Poisons
44 Neutralizing compositions

The patents formerly contained in this subclass have been placed for the most part in class 252, Compositions, subclass 182 and its indented subclasses.

In *class 260, Chemistry, Carbon Compounds* (Divisions 31, 50, and 63), establish the following subclasses and definitions:

Synthetic resins
Polymerized unsaturated compounds
Polyacryl or polyalkacryl
Interpolymers
84.5 With diolefines or cyclo- or halo-diolefines,
Polyvinyl
Interpolymers
86.5 With diolefines or cyclo- or halo-diolefines,
Carbocyclic or acyclic
Fats, fatty oils, ester-type waxes or higher fatty acids
405.5 Unsaturation,
405.6 Isomerization,
Purification of fats, oils, and waxes
By physical treatment only
428.5 With solvent.
Hydrocarbons
Acyclic
Unsaturated
Olefines from hydrocarbons
683.2 With isomerization,
683.3 By dehydrogenation.

84.5 Products under subclass 84 in the preparation of which an acyclic or alicyclic conjugated diolefine or halogenated diolefine, such as, for example, butadiene-1,3, cyclopentadiene and 2-halo-butadiene-1,3, is employed.
Note.—This subclass includes, for example, the buna N type of synthetic rubber.

86.5 Products under subclass 86 in the preparation of which an acyclic or alicyclic conjugated diolefine or halogenated diolefine is employed.
Note.—This subclass includes, for example, the buna S type of synthetic rubber.

405.5. Processes under subclass 398 directed to the introduction of double bonds into a fat, oil, et cetera, such as, for example, the dehydration of castor oil, including the products resulting therefrom.
Search this class, subclass—
696—and the notes thereto, for unsaturation of other carbon compounds.

405.6 Processes under subclass 398 directed to the molecular rearrangement of a fat, oil, et cetera, such as, for example, the conversion of unconjugated fatty compounds to conjugated fatty compounds, and the conversion of oleic acid to elaidic acid, including the products resulting therefrom.

428.5. Processes under subclass 428 which include the use of a solvent.
Search this class, subclass—
426—for purification or separation processes utilizing an organic solvent and a basic substance.

683.2. Processes under subclass 683 which include the molecular rearrangement of hydrocarbons.

683.3. Processes under subclass 683 wherein saturated hydrocarbons are dehydrogenated to form olefines.
Search this class, subclass—
696—for dehydrogenating processes of general application.

The patents contained in subclass 84.5 have been taken from class 260, Chemistry, Carbon Compounds, subclass 84; those contained in subclass 86.5 have been taken from class 260, subclass 86; the patents in subclasses 405.5 and 405.6 have been taken for the most part from class 260, subclass 398; the patents in subclass 428.5 have been taken from subclass 428; and the patents contained in subclasses 683.2 and 683.3 have been taken from class 260, Chemistry, Carbon Compounds, subclass 683.

In *class 1, Nailing and Stapling* (Division 11), subclass 49.1, at the end of the definition, add:

Search Class—
128—SURGERY, subclass 337, for surgical clips.

In *class 16, Miscellaneous Hardware* (Division 20), subclass 110.5, under Search Classes, in the reference to class 145, Woodworking Tools, change "subclass 62 and indented subclass" to *subclasses 62 through 64*.

In *class 21, Preserving, Disinfecting, and Sterilizing* (Division 44), subclass 7, cancel the notes and substitute:

Search Classes—
20—WOODEN BUILDINGS, subclass 100, for preserving piles by encasing.
34—DRYING AND GAS OR VAPOR CONTACT WITH SOLIDS, for processes of preserving wood by drying or by gas or vapor contact.
117—COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, for coating and impregnating of wood.
144—WOODWORKING, subclass 309, for processes of preserving wood combined with mechanical shaping thereof.

In *class 30, Cutlery* (Division 53), subclass 40, add:

Search Classes—
206—SPECIAL RECEPTACLES AND PACKAGES, subclass 16, for blade magazines per se, where no combination or cooperation with the razor is claimed.
312—SUPPORTS, CABINET STRUCTURES, particularly subclass 35 and indented subclasses, for dispensing cabinets.

In *class 34, Drying and Gas or Vapor Contact with Solids* (Division 49), subclass 9, note 10, change "subclass 705" to *subclasses 110 and 705* and in subclass 58, under note (4), add:

209—CLASSIFYING, SEPARATING, AND ASSORTING SOLIDS, subclass 120.

In *class 49, Glass* (Division 5), main class definition, in (6) Search Classes, in the reference to class 226, Filling and Closing Portable Receptacles, add the following before the words "and subclass 80": *even though the closing is by glass working means or steps,*.

In *class 68, Textiles, Fluid Treating Apparatus* (Division 27), subclass 131, in note (1), change "impelling" to *impulsing*.

In *class 82, Turning* (Division 13), main class definition, number the first paragraph *I* and before "Search Classes" add:

II. This class is also the generic class for the subject matter of the following subclass:

45 **Centerers**

and in the definition of subclass 45, add *or during* before "mounting" and cancel "on lathe-centers".

In *class 85, Driven, Headed, and Screw-Threaded Fastenings* (Division 57), main class definition, add:

Search Class—
236—RAILWAYS, SURFACE TRACK, subclass 366 and indented subclasses, for spikes and bolts, whose structure restricts them to cooperation with substantially modified track elements.

In *class 99, Foods and Beverages* (Division 63), subclass 63, cancel the search reference to subclass 268; in subclass 123, add the following note:

Note.—The expression "fatty material" as employed in this class denotes the triglycerides of higher fatty acids.;

and in subclass 264, rewrite note 1 to read as follows:

(1) Note.—For methods of emulsifying edible substances, **search this class**, appropriate subclasses, particularly subclasses 60, 63, 122, and 144, and for general or miscellaneous processes of emulsification of non-food materials or apparatus or agents therefor, **search class** 252, COMPOSITIONS.

In *class 115, Marine Propulsion* (Division 60), subclass 1, cancel the notes and substitute:

Search Classes—
114—SHIPS, particularly subclasses 40 through 43, for ice boats adapted to be used in water and usually provided with runners, with or without ice propelling means.
180—MOTOR VEHICLES, appropriate subclasses, for vehicles disclosed for both land and water travel, where the features specializing the same for water travel are not claimed.
280—LAND VEHICLES, subclass 200 and indented subclasses, for velocipedes.

In *class 117, Coating; Processes and Miscellaneous Products* (Division 38), subclass 1, cancel the note thereto and substitute:

Search Classes—
229—PAPER RECEPTACLES, subclass 83, for envelopes having sealing flaps containing a dye to indicate unauthorized tampering.
283—PRINTED MATTER, subclass 8, and indented subclasses, for safety paper or printed matter having fraud preventing characteristics wherein there are structural features other than the coating or impregnant.

In *class 128, Surgery* (Division 55), subclass 337, at the end of the definition, add:

Search Class—
1—NAILING AND STAPLING, subclass 49.1, for surgical clip appliers.

In *class 144, Woodworking* (Division 29), subclass 309, cancel the note and substitute:

Search Classes—
8—BLEACHING AND DYEING; FLUID TREATMENT AND CHEMICAL MODIFICATION OF TEXTILES AND FIBERS, for wood dyeing and bleaching.
21—PRESERVING, DISINFECTING, AND STERILIZING, subclass 7, for miscellaneous wood preserving processes not involving mechanical shaping.
34—DRYING AND GAS OR VAPOR CONTACT WITH SOLIDS, for processes of treating wood by gases or vapors or for drying in any way.
117—COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, for wood coating or impregnating.
202—DISTILLATION, for wood distillation.
260—CHEMISTRY, CARBON COMPOUNDS, subclass 110, for extraction of pine resins from wood.

In *class 154, Laminated Fabric and Analogous Manufactures* (Division 55), subclass 2.77, in the note thereto, change "subclasses 83 and 84" to *subclass 83 and indented subclasses.*

In *class 167, Medicines, Poisons, and Cosmetics* (Division 63), subclass 13, note (4), rewrite the reference to class 252 as follows:

See class 252, COMPOSITIONS, subclass 182 and its indented subclasses for chemical agents or materials for neutralizing poisons and subclass 260 and its indented subclasses for adsorbents or absorbents for removing poisons from air or other gases.

In *class 198, Conveyers-Power Driven* (Division 4), subclass 128, add (1.6) note:

(1.6) Note.—Class 209, CLASSIFYING, SEPARATING, AND ASSORTING SOLIDS, subclass 120, for throwers used in assorting.

In *class 206, Special Receptacles and Packages* (Division 27), subclass 16, add:

(1) Note.—Razor blade magazines are here where no combination or cooperation with the razor is claimed.

Search Class—
30—CUTLERY, subclass 40, for blade magazines where characteristics cooperative with a razor are claimed.

In *class 210, Liquid Separation or Purification* (Division 49), main class definition, third paragraph, in the reference to class 252, Compositions, after "adsorbents" and before the comma (,) insert *or to act chemically*; in subclass 17, under (2) Search Class, add:

137—WATER DISTRIBUTION, subclass 164 and the indented subclasses.;

and in subclass 203, rewrite the definition as follows:

203. Materials peculiarly adapted for use in a filter where such materials have no chemical or significant adsorbent action on the liquid filtered.

Search Classes—
106—COMPOSITIONS, COATING OR PLASTIC, for plastic compositions in general.
117—COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, for coated or impregnated fabrics in general.
252—COMPOSITIONS, appropriate subclasses, particularly subclass 175 and indented subclasses, for water-softening or purifying compositions, subclass 182 and indented subclasses, for filter materials which exert a chemical action and subclass 260 and indented subclasses, for filter materials which exert a significant adsorbent action on the liquids filtered.

In *class 229, Paper Receptacles* (Division 40), subclass 83, add the following search note:

Search Classes—
117—COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, subclass 1, for coated or impregnated bases having fraud preventing or detecting characteristics where there is no significant structure apart from the coating, such as, for example, "safety paper", as well as the processes for preparing the same.
283—PRINTED MATTER, subclass 8 and indented subclasses, for safety paper or printed matter having fraud preventing characteristics wherein there are structural features other than the coating or impregnant.

In *class 238, Railways, Surface Track* (Division 34), subclass 366, add:

Search Class—
85—DRIVEN, HEADED, AND SCREW-THREADED FASTENINGS, subclass 10 and indented subclasses, for spikes of general application.

In *class 252, Compositions* (Division 64), subclass 359, under "Search Classes", in the reference to class 99, Foods and Beverages, change "268" to *267* and cancel "processes or".

In *class 257, Heat Exchange* (Division 32), subclass 29, in note (1), cancel the last sentence of the note.

In *class 260, Chemistry, Carbon Compounds* (Divisions 6, 31, 50, 63), subclass 93, note 2, first paragraph, change "84" (second occurrence) to *84.5* and "86" (second occurrence) to *86.5*;

in subclass 398, first paragraph, change "functional" to *carbonylic* and cancel "nitriles"; and add note (2.5):

(2.5) Note.—The treatment of fats, oils, et cetera, in which there is a decomposition to form essentially products not classifiable, per se, in subclass 398 or indented subclasses, is excluded, being classified under the appropriate subclass, e. g., the chain cleavage of ricinoleic acid or castor oil to form dicarboxylic acids, for which see subclass 537.;

in subclass 404, in note (1) after "nitrate group", add: *in addition to the non-oxo-carbonylic group*, and add the following note:

(3) Note.—See subclass 464, for higher fatty acid nitriles.;

in subclass 406, add the following note:

(3) Note.—See subclass 537, for dicarboxylic acids resulting from oxidative cleavage of a fat, oil, et cetera.;

in subclass 503, rewrite the definition and note as follows:

503. Compounds under subclass 500 which contain a sulfo group (SO_3H) bonded to carbon, or a salt thereof.

Search this class, subclasses—
98—for sulfo compounds of natural resins or derivatives.
370—and indented subclasses for sulfo containing anthraquinones.
392 and **394**—for sulfo containing triphenylmethanes.
400—and indented subclasses, for sulfo containing fats, fatty oils, ester-type waxes or higher fatty acids.
470 and **481**—for sulfo containing esters.
500—for organic sulfamic acids.;

in subclass 537, in the note, after "fatty acids" add: *without cleavage*; in subclass 683, cancel "the pyrolysis of ethane into ethylene".;

in subclass 696, add:

Search this class, subclasses—
405.5—for the preparation of drying oils from non-drying oils by unsaturation.
683.3—for dehydrogenation of saturated hydrocarbons to form olefines.;

in subclass 704, note 1, change "subclass 428" to *subclasses 428 and 428.5*;

and in subclass 705, note 1, before "473.5" insert *428.5*.

In *class 283, Printed Matter* (Division 53), subclass 8, add the following note:

(3) Note.—See class 229, PAPER RECEPTACLES, subclass 83, for envelopes having sealing flaps containing a telltale dye for indicating unauthorized tampering.

TRADE-MARKS

OFFICIAL GAZETTE, MARCH 16, 1943

[VOL. 548. No. 3]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 455,714. TERREBONNE BULB CORPORATION, New Orleans, La. Filed Sept. 23, 1942.

PELICAN

FOR PLANT BULBS.
Claims use since Aug. 2, 1942.

Ser. No. 455,787. CHROMIUM MINING & SMELTING CORPORATION, LIMITED, Sault Ste. Marie, Canada. Filed Sept. 26, 1942.

COPPER-X

Applicant disclaims the word "Copper" apart from the mark.
FOR EXOTHERMIC METALLURGICAL COPPER ALLOYING MATERIALS.
Claims use since Jan. 5, 1940.

Ser. No. 455,788. CHROMIUM MINING & SMELTING CORPORATION, LIMITED, Sault Ste. Marie, Canada. Filed Sept. 26, 1942.

FER-X

FOR EXOTHERMIC METALLURGICAL IRON ALLOYING MATERIALS.
Claims use since Oct. 16, 1939.

Ser. No. 455,789. CHROMIUM MINING & SMELTING CORPORATION, LIMITED, Sault Ste. Marie, Canada. Filed Sept. 26, 1942.

NICKEL-X

Applicant disclaims the word "Nickel" apart from the mark.
FOR EXOTHERMIC METALLURGICAL NICKEL ALLOYING MATERIALS.
Claims use since Jan. 5, 1940.

Ser. No. 455,790. CHROMIUM MINING & SMELTING CORPORATION, LIMITED, Sault Ste. Marie, Canada. Filed Sept. 26, 1942.

SIL-X

FOR EXOTHERMIC METALLURGICAL SILICON ALLOYING MATERIALS.
Claims use since Mar. 16, 1940.

Ser. No. 456,501. WOOD & HYDE COMPANY, Gloversville, N. Y. Filed Oct. 28, 1942.

Peerdo

FOR GLOVE LEATHER.
Claims use since Sept. 1, 1942.

Ser. No. 457,011. RÖHM & HAAS COMPANY, Philadelphia, Pa. Filed Nov. 24, 1942.

PLEXENE

FOR SYNTHETIC RESINOUS MATERIALS IN THE FORM OF SHEETS, RODS, TUBES, OR MOLDING COMPOUNDS.
Claims use since Nov. 13, 1942.

Ser. No. 457,144. REICHHOLD CHEMICALS, INC., Detroit, Mich. Filed Nov. 30, 1942.

AGRIPOL

FOR SYNTHETIC RUBBER.
Claims use since Nov. 20, 1942.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 449,882. PAUL W. BONEWITZ, doing business as P. W. Bonewitz Company, Burlington, Iowa, assignor to The Rex Company, Burlington, Iowa, a corporation of Iowa. Filed Dec. 31, 1941.

MIKRO SAN

FOR ACID CLEANER COMPOSITION.
Claims use since July 15, 1941.

Ser. No. 449,883. PAUL W. BONEWITZ, doing business as P. W. Bonewitz Company, Burlington, Iowa, assignor to The Rex Company, Burlington, Iowa, a corporation of Iowa. Filed Dec. 31, 1941.

MIKRO STAT

FOR ACID CLEANER COMPOSITION.
Claims use since July 15, 1941.

Ser. No. 451,717. IDA JACKSON, doing business as Jackson of London Products, New York, N. Y. Filed Mar. 18, 1942.

JACKSON'S

REVIVA

Applicant disclaims the name "Jackson's" apart from the mark.
FOR PREPARATION FOR REMOVING SPOTS AND LIQUOR, HEAT, WATER AND PAINT MARKS, AND FOR CLEANING FINISHED SURFACES.
Claims use since July 15, 1939.

Ser. No. 457,274. DOWNY PRODUCTS COMPANY, Orange, N. J. Filed Dec. 8, 1942.

DUCKLING SPONGE

No claim is made to the word "Sponge" apart from the mark.
FOR ABRASIVE PADS.
Claims use since Aug. 8, 1941.

Ser. No. 457,388. ECONOMICS LABORATORY, INCORPORATED, St. Paul, Minn. Filed Dec. 14, 1942.

Soilax

FOR CLEANSING COMPOUND HAVING WATER SOFTENING PROPERTIES, A CLEANING COMPOUND FOR WALL WASHING, PAINT CLEANING, AND GENERAL USE, A CLEANING COMPOUND FOR WINDOWS, MIRRORS, BRASS FIXTURES, PAINTED AND VARNISHED WOODWORK, DISHES, ENAMEL WARE, KITCHEN UTENSILS, GLASSWARE, SILVERWARE, AND FOR A WASHING AND CLEANING COMPOUND USED ALONE AND IN ADDITION TO SOAP FOR THE CLEANING OF CLOTHES.
Claims use since Dec. 1, 1923; and since Oct. 1, 1937, in present lettering.

Ser. No. 457,521. COLE LABORATORIES, INC., Long Island City, N. Y. Filed Dec. 19, 1942.

Cole-Solv

Applicant disclaims the word "Cole" apart from the mark.
FOR CHEMICAL PRODUCT IN LIQUID FORM USED AS A CLEANSER FOR GENERAL CLEANING AND HOUSEHOLD USE.
Claims use since Nov. 20, 1942.

Ser. No. 457,989. OIL SPECIALTIES & REFINING CO., INC., Brooklyn, N. Y. Filed Jan. 18, 1943.

SCOUREE

FOR METAL POLISH.
Claims use since 1880.

Ser. No. 458,054. BILLY B. VAN, doing business as Billy B. Van Sales Company, Newport, N. H. Filed Jan. 20, 1943.

Sweet Saturday Night

FOR TOILET SOAP.
Claims use since Dec. 12, 1942.

CLASS 5

ADHESIVES

Ser. No. 458,116. INDUSTRIAL TAPE CORPORATION, New Brunswick, N. J. Filed Jan. 23, 1943.

ELECTAPE

FOR PRESSURE SENSITIVE ADHESIVE TAPES.
Claims use since Sept. 10, 1935.

Ser. No. 458,154. INDUSTRIAL TAPE CORPORATION, New Brunswick, N. J. Filed Jan. 25, 1943.

UTILITAPE

FOR PRESSURE SENSITIVE ADHESIVE TAPES.
Claims use since June 1, 1932.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 445,386. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y. Filed July 16, 1941.

D-19

FOR PHOTOGRAPHIC CHEMICALS—NAMELY, DEVELOPERS.
Claims use since Nov. 2, 1939.

Ser. No. 445,387. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y. Filed July 16, 1941.

D-52

FOR PHOTOGRAPHIC CHEMICALS—NAMELY, DEVELOPERS.
Claims use since May 5, 1932.

Ser. No. 445,388. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y. Filed July 16, 1941.

D-76

FOR PHOTOGRAPHIC CHEMICALS—NAMELY, DEVELOPERS.
Claims use since June 12, 1934.

Ser. No. 450,289. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland. Filed Jan. 17, 1942.

LINGUETS

FOR PREPARATIONS CONTAINING ACTIVE HORMONAL COMPOUNDS IN THE FORM OF TABLETS, PILLS, LOZENGES, CACHETS, CAPSULES, PASTILLES, BONBONS, FOR ABSORPTION BY THE ORAL MUCOSA IN HORMONAL (TESTICULAR, OVARIAN, AND ADRENAL) DEFICIENCIES AND CONDITIONS IN WHICH A CONTINUED SUPPLY OF THE HORMONE IS DESIRABLE.
Claims use since June 16, 1941.

Ser. No. 450,551. RUST MASTER CHEMICAL CORPORATION, Boston, Mass. Filed Jan. 28, 1942.

Leak Master

FOR STOP LEAK COMPOUNDS.
Claims use since Jan. 24, 1942.

Ser. No. 454,237. PITTSBURGH PLATE GLASS COMPANY, Pittsburgh, Pa. Filed July 15, 1942.



FOR CAUSTIC SODA, SODA ASH, LIQUID CHLORINE, BICARBONATE OF SODA, MODIFIED SODAS, AND CAUSTIC ASH.
Claims use since Feb. 1, 1941.

Ser. No. 455,413. CADY-PARKER MEDICINE CO., Valdosta and Waycross, Ga. Filed Sept. 8, 1942.

CADY'S C.C.R.



The portrait is that of Franklin P. Cady, deceased.
FOR PREPARATION FOR THE TREATMENT OF ASTHMA, HAYFEVER, COUGHS, COLDS, WHOOPING COUGH, BRONCHITIS, CATARRH, AND CROUP.
Claims use since Jan. 15, 1905.

Ser. No. 456,960. PARSONS AMMONIA COMPANY, INC., New York, N. Y. Filed Nov. 21, 1942.

C. C. PARSONS HOUSEHOLD CLEANSER

Applicant is the owner of registration No. 60,715, for the name "C. C. Parsons'" issued under the 10-year clause of the 1905 act, and is likewise the owner of registrations No. 58,397 and No. 61,007 for the word "Household," also issued under the 10-year clause. The

drawing is lined for green and yellow. No claim is made to the word "Cleanser" apart from the mark.
FOR AN AMMONIA SUBSTITUTE.
Claims use since Nov. 5, 1942.

Ser. No. 457,434. JOSEPH H. SCHLESINGER, D. D. S., doing business as Eagle Chemical Co., New York, N. Y. Filed Dec. 16, 1942.

Neutrolate

FOR LIQUID ADAPTED FOR NEUTRALIZATION OF ACIDS EXUDING FROM DENTAL CEMENT.
Claims use since Nov. 14, 1933.

Ser. No. 457,473. LEROY G. JENNINGS, New York, N. Y. Filed Dec. 17, 1942.

WINTER-GREENLUB

No claim is made to the term "Winter-Green" apart from the mark.
FOR MEDICINAL SALVES FOR THE RELIEF OF NASAL, THROAT, AND CHEST IRRITATIONS.
Claims use since August, 1942.

Ser. No. 457,565. THE PENNSYLVANIA SALT MANUFACTURING COMPANY, Philadelphia, Pa. Filed Dec. 22, 1942.

SPOT-CLOR

No claim is made to the word "Spot" except as shown.
FOR SPOTTING COMPOUNDS HAVING BLEACHING PROPERTIES.
Claims use since Nov. 10, 1942.

Ser. No. 457,696. W. H. BARBER COMPANY, Minneapolis, Minn. Filed Jan. 1, 1943.

RUST-NIX

GREATER SERVICE

Applicant disclaims all wording except "Nix" apart from the mark.
FOR CORROSION AND RUST PREVENTIVE FOR COOLING SYSTEMS OF INTERNAL COMBUSTION ENGINES.
Claims use since Nov. 20, 1942.

Ser. No. 457,843. WILLIAM C. VAUGHAN, Minor Hill, Tenn. Filed Jan. 9, 1943.

GERM-O-DED

The word "Germ," per se, is disclaimed apart from the mark.
FOR PREPARATION FOR THE TREATMENT OF ATHLETE'S FOOT, ECZEMA, BOILS, ITCH, BARBER'S ITCH, POISON OAK, DEW POISON, SKIN DISEASES, AND SORES.
Claims use since 1938.

Ser. No. 457,850. THE J. B. FORD COMPANY, Wyandotte, Mich. Filed Jan. 11, 1943.

Xtra-Chlor

FOR GERMICIDE AND DEODORANT.
Claims use since July, 1942.

Ser. No. 457,859. MANHATTAN KREOLE PRODUCTS, INC., doing business also as Sani-Sealed Laboratories, Brooklyn, N. Y. Filed Jan. 11, 1943.

SANI-SAN

FOR SOAP SHAMPOOS—NAMELY, TAR SOAP SHAMPOO, OLIVE SOAP SHAMPOO, CASTILE SOAP SHAMPOO, COCOANUT SOAP SHAMPOO, AND HENNA SOAP SHAMPOO; BAY RUM, SUN TAN OIL, NAIL POLISH REMOVER, WITCH HAZEL, HAND LOTION, AFTER SHAVE LOTION, HAIR DRESSING, AND TRANSPARENT WAVE SET.
Claims use since Mar. 21, 1942.

Ser. No. 457,875. GEIGY COMPANY, INC., New York, N. Y. Filed Jan. 12, 1943.

TINON

FOR DYES FOR TEXTILE PURPOSES.
Claims use since Mar. 9, 1933.

Ser. No. 457,904. JEAN VIVAUDOU & Co. INC., New York, N. Y. Filed Jan. 13, 1943.

MOTH finale

No claim is made to the word "Moth" apart from the mark.
FOR MOTH EXTERMINATING PREPARATION.
Claims use since Dec. 1, 1942.

Ser. No. 457,926. AIR REDUCTION SALES COMPANY, New York, N. Y. Filed Jan. 15, 1943.

AIRCO

FOR BRAZING AND WELDING FLUX.
Claims use since November, 1918.

Ser. No. 458,038. JOHN HORVATH, Passaic, N. J. Filed Jan. 20, 1943.

LONE-TON-DON

FOR PALLIATIVE FOR THE TREATMENT OF ASTHMA, CATARRH OF THE LIVER AND LUNGS, AND HEMORRHOIDS.
Claims use since Dec. 26, 1942.

Ser. No. 458,092. COTY, INC., New York, N. Y. Filed Jan. 22, 1943.

CASSIS

FOR FACE POWDER, DUSTING POWDER, TOILET WATER, PERFUME, SUNTAN OIL, SKIN AND HAIR LOTIONS, BRILLIANTINE, ROUGE COMPACTS, POWDER COMPACTS, LIPSTICKS, SACHET POWDERS, FACE CREAMS, BATH SALTS, TALCUM POWDERS, ROUGES.
Claims use since Jan. 13, 1943.

Ser. No. 458,093. COTY, INC., New York, N. Y. Filed Jan. 22, 1943.

CASSONADE

FOR FACE POWDER, DUSTING POWDER, TOILET WATER, PERFUME, SUNTAN OIL, SKIN AND HAIR LOTIONS, BRILLIANTINE, ROUGE COMPACTS, POWDER COMPACTS, LIPSTICKS, SACHET POWDERS, FACE CREAMS, BATH SALTS, TALCUM POWDERS, ROUGES.
Claims use since Jan. 13, 1943.

Ser. No. 458,094. COTY, INC., New York, N. Y. Filed Jan. 22, 1943.

TEINDOR

FOR FACE POWDER, DUSTING POWDER, TOILET WATER, PERFUME, SUNTAN OIL, SKIN AND HAIR LOTIONS, BRILLIANTINE, ROUGE COMPACTS, POWDER COMPACTS, LIPSTICKS, SACHET POWDERS, FACE CREAMS, BATH SALTS, TALCUM POWDERS, ROUGES.
Claims use since Jan. 13, 1943.

Ser. No. 458,147. W. H. & L. D. BETZ, Frankford, Philadelphia, Pa. Filed Jan. 25, 1943.

MAROCOL

FOR CHEMICAL COMPOUND FOR CONDITIONING BOILER WATER.
Claims use since Jan. 3, 1943.

Ser. No. 458,170. BURROUGHS WELLCOME & Co. (U. S. A.) INC., New York, N. Y. Filed Jan. 26, 1943.

'HYPOLOID'

FOR ACETYLCHOLINE BROMIDE, AMINOPHYLLINE, BISMUTH METAL, BISMUTH SALICYLATE IN OIL, BISMUTH SALICYLATE WITH CREOSOTE AND CAMPHOR, CAFFEINE WITH SODIUM BENZOATE, CALCIUM LEVULINATE, CAMPHOR, DIGOXIN, EMETINE HYDROCHLORIDE, EPHEDRINE HYDROCHLORIDE, EPHEDRINE SULFATE, EPINEPHRINE HYDROCHLORIDE, "EPININE" (3:4-DIHYDROXYPHENYLETHYLMETHYLAMINE) HYDROCHLORIDE, "ERGAMINE" (HISTAMINE) ACID PHOSPHATE, ERGONOVINE, "ERNUTIN" (ERGOTOXINE ETHANESULFONATE, "ERGAMINE" (HISTAMINE) DIETHANESULFONATE, AND "TYRAMINE" ETHANESULFONATE), HISTIDINE HYDROCHLORIDE, HYOSCINE HYDROBROMIDE, "INFUNDIN" (POSTERIOR LOBE OF THE PITUITARY GLAND), IRON AND ARSENIC, MENADIONE, MORPHINE HYDROCHLORIDE, NICOTINIC ACID AMIDE, PYRIDOXINE HYDROCHLORIDE, QUININE AND URETHANE, SCOPOLAMINE HYDROBROMIDE, SODIUM CACODYLATE, SODIUM MORRHUATE, STILBESTROL, STROPHANTHIN, THIAMINE HYDROCHLORIDE, VITAMIN B_1 HYDROCHLORIDE.
Claims use since January, 1917.

Ser. No. 458,202. STERNS, LIMITED, London, England. Filed Jan. 27, 1943.

Sternocleanse

FOR MEDICATED PREPARATIONS FOR THE PREVENTION OR TREATMENT OF DERMATITIS.
Claims use since 1939.

CLASS 10

FERTILIZERS

Ser. No. 444,949. CLYDE VAUGHN, doing business as Pestless Products Company, Pasadena, Calif. Filed June 28, 1941.

Likwid Gro

The word "Likwid" is disclaimed apart from the mark.
FOR FERTILIZER.
Claims use since Jan. 5, 1939.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 450,338. NATIONAL MACHINE PRODUCTS COMPANY, Detroit, Mich. Filed Jan. 20, 1942.

MARSDEN HUGLOCK NUTS

The words "Marsden" and "Nuts" are disclaimed apart from the mark.
FOR LOCK-NUTS.
Claims use since Dec. 10, 1941.

Ser. No. 456,191. HUGH H. LOGAN, doing business as Logan Manufacturing Company, Glendale, Calif. Filed Oct. 14, 1942.

WIZARD

FOR SHOWER BATH EQUIPMENT—NAMELY, SHOWER HEADS.
Claims use since July 27, 1936.

Ser. No. 457,493. A. B. CHANCE COMPANY, Centralia, Mo. Filed Dec. 18, 1942.

TIPS

FOR GROUNDING CLAMPS, GROUNDING RODS, GROUNDING CLUSTER SUPPORTS, TERMINAL LUGS, GROUND ROD CLAMPS, GROUNDING CABLES, SPLICES AND FERRULES, BUS BAR CLAMPS, JUMPER CLAMPS, AND TAPPER HANGERS.
Claims use since Jan. 1, 1926.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 457,602. COPPERWELD STEEL COMPANY, Glassport, Pa. Filed Dec. 26, 1942.

COPPCO

FOR STEEL PRODUCTS—NAMELY, STEEL BARS.
Claims use since Dec. 3, 1942.

Ser. No. 457,655. PLASTIC METALS, INC., Johnstown, Pa. Filed Dec. 30, 1942.

Plast-Sponge

The word "Sponge" is disclaimed apart from the mark.
FOR POWDERED IRON.
Claims use since June 12, 1941.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 455,597. LIGGETT & MYERS TOBACCO COMPANY, New York, N. Y. Filed Sept. 17, 1942. Under 10-year proviso.

GRANGER

Applicant is the owner of Reg. No. 194,263.
FOR SMOKING TOBACCO.
Claims use since 1871.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 452,310. EVERETT N. MCDONNELL, doing business as McDonnell & Miller, Chicago Ill. Filed Apr. 13, 1942.



FOR SNAP SWITCHES.
Claims use since Jan. 19, 1939.

Ser. No. 455,016. COOK ELECTRIC COMPANY, Chicago, Ill. Filed Aug. 21, 1942.

MOUNT

FOR APPARATUS IN TELEPHONE SYSTEMS—NAMELY, SUB-STATION PROTECTORS, CENTRAL-OFFICE DISTRIBUTING FRAMES, PROTECTED AND UNPROTECTED TERMINAL UNITS, AND UTILITY PROTECTORS.
Claims use since July 31, 1942.

Ser. No. 457,340. EVERETT N. MCDONNELL, doing business as McDonnell & Miller, Chicago, Ill. Filed Dec. 11, 1942.

"Doing One MM Thing Well"

FOR ELECTRIC SWITCHES OPERABLE TO CUT OFF FUEL SUPPLY TO BOILERS AND THE LIKE UNDER LOW WATER CONDITIONS OF THE LATTER, ELECTRIC FLOW SWITCHES RESPONSIVE TO FLOW OF FLUID, LIQUID LEVEL RESPONSIVE PUMP CONTROL ELECTRIC SWITCHES, AND ELECTRICAL PARTS THEREOF.
Claims use since Dec. 22, 1924.

Ser. No. 457,472. LELAND H. HOVE, doing business as Hove Engineering Co., Minneapolis, Minn. Filed Dec. 17, 1942.

SPARK-O-LINER

The word "Liner" is disclaimed apart from the mark.
FOR SPRING STEEL BEARING RACES FOR INTERNAL COMBUSTION ENGINE DISTRIBUTORS.
Claims use since June 21, 1941.

Ser. No. 457,503. MICRO SWITCH CORPORATION, Freeport, Ill. Dec. 18, 1942.

HI-ALT

FOR ELECTRIC SWITCHES.
Claims use since July 1, 1942.

Ser. No. 457,525. P. R. MALLORY & CO., INC., Indianapolis, Ind. Filed Dec. 19, 1942.

ELKONIUM

FOR ELECTRIC CONTACTS.
Claims use since February, 1929.

Ser. No. 457,536. JAMES L. BERNARD, JR., doing business as Communication Products Co., Jersey City, N. J. Filed Dec. 21, 1942.

AUTO-DRYAIRE

The word "Dryaire" is disclaimed apart from the mark.
FOR ELECTRO-CHEMICAL APPARATUS FOR THE DEHYDRATION OF AIR AND FOR SUPPLYING AIR UNDER PRESSURE, FOR USE, AS AN EXAMPLE, IN THE GAS CONDITIONING OF CONCENTRIC (CO-AXIAL) ELECTRIC LINES EMPLOYED IN THE TRANSMISSION OF WIDE-BAND INTELLIGENCE, IN THE ARTS OF TELEVISION, MULTIPLE TELEGRAPH, TELEPHONY, AND FACSIMILE.
Claims use since Oct. 15, 1942.

Ser. No. 457,813. THE NATIONAL TELEPHONE SUPPLY COMPANY, Cleveland, Ohio. Filed Jan. 8, 1943.

Nicotap

FOR CONNECTING DEVICES OR SLEEVES FOR ELECTRIC WIRES AND CABLES USED IN COMMUNIATION, LIGHT, AND POWER FIELDS.
Claims use since Mar. 18, 1942.

Ser. No. 457,923. TIMES TELEPHOTO EQUIPMENT INC., New York, N. Y. Filed Jan. 14, 1943.

Timefax

FOR ELECTROSENSITIVE RECORDING AND COPYING PAPER FOR USE WITH ELECTRICAL RECORDING APPARATUS (INCLUDING ELECTRICAL FACSIMILE RECORDERS, COPYING OR DUPLICATING MACHINES EMPLOYING A CURRENT-CONDUCTING STYLUS, ET CETERA.)
Claims use since Dec. 1, 1942.

Ser. No. 457,954. INDUSTRIAL ELECTRONICS CORPORATION, Newark, N. J. Filed Jan. 16, 1943.

MAGNO-TRONIC

FOR FLUORESCENT, VAPOR, PORTABLE LAMP UNIT.
Claims use since Jan. 4, 1943.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 458,110. THE ATHLETIC SUPPLY COMPANY, Toledo, Ohio. Filed Jan. 23, 1943.

No-WHIPBASK

FOR BASKETBALL GOAL NETS.
Claims use since Aug. 1, 1939.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 456,770. GILLETTE SAFETY RAZOR COMPANY, Boston, Mass. Filed Nov. 12, 1942.

EL DORADO

FOR SAFETY RAZORS.
Claims use since 1924.

Ser. No. 456,771. GILLETTE SAFETY RAZOR COMPANY, Boston, Mass. Filed Nov. 12, 1942.

DIPLOMAT

FOR SAFETY RAZORS.
Claims use since 1929.

Ser. No. 457,428. EDWARD WECK & COMPANY, INC., Brooklyn, N. Y. Filed Dec. 15, 1942. Under 10-year proviso.

WECK

FOR CUTLERY—NAMELY, POCKET KNIVES, KITCHEN KNIVES, TABLE KNIVES OF BASE METAL, SCISSORS, RAZORS, AND RAZOR BLADES.
Claims use since 1893.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 457,704. HAMILTON MANUFACTURING COMPANY, Two Rivers, Wis., and Rahway, N. J. Filed Jan. 1, 1943. Under section 5b of the act of 1905 as amended in 1920.

HAMILTON

Applicant is the owner of trade-mark registration No. 398,431, effected under the 10-year proviso.
FOR CABINET MECHANICAL CLOTHES DRYERS.
Claims use since June 1, 1941.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 453,285. WALTHAM WATCH COMPANY, Waltham, Mass. Filed May 26, 1942. Under section 5b of the act of 1905 as amended in 1920.

WALTHAM

FOR MEASURING, RECORDING, AND INDICATING DEVICES—NAMELY, SPEEDOMETERS, ODOMETERS, TACHOMETERS, AND COUNTERS, AND PARTS THEREOF.
Claims use since November, 1915.

Ser. No. 456,126. FERDINAND C. LATROBE, Baltimore, Md. Filed Oct. 10, 1942.

TRANSPHOTO

FOR LIGHT-SENSITIVE STATIONERY FOR USE IN PRODUCTION OF MINIATURE FILMS OF PHOTOGRAPHS AND CORRESPONDENCE.
Claims use since Oct. 9, 1942.

Ser. No. 456,902. PARK J. RIES, doing business as Ries Camera Co., Hollywood, Calif. Filed Nov. 18, 1942.

PHOTOPLANE

FOR TRIPOD HEADS EMPLOYED AS AN ADJUSTABLE MOUNTING FOR CAMERAS, TELESCOPES, SURVEYING INSTRUMENTS, AND OTHER FORMS OF SCIENTIFIC APPARATUS.
Claims use since Jan. 20, 1941.

Ser. No. 457,509. PRECISION SCIENTIFIC CO., Chicago, Ill. Filed Dec. 18, 1942.

PS

FOR LABORATORY EQUIPMENT—NAMELY, FOR OVENS, INCUBATORS, WATER BATHS, STERILIZERS, WATER STILLS, ELECTRIC HEATERS, ELECTRIC HOT PLATES, CENTRIFUGES, SEROLOGICAL TESTING EQUIPMENT, SHAKING MACHINES, PETROLEUM VISCOSIMETERS, AUTOCLAVES, NITROGEN DETERMINATION APPARATUS, GAS METERS, AND CALORIMETERS.
Claims use since January, 1935.

Ser. No. 457,520. WESTERN INDUSTRIAL ENGINEERING CO., Los Angeles, Calif. Filed Dec. 18, 1942.

FERROSCOPE

FOR MAGNETIC INSPECTION APPARATUS FOR DETECTING SUBSURFACE DEFECTS IN ARTICLES BY FLOWING A LIQUID MIXTURE CONTAINING FINELY DIVIDED PARAMAGNETIC MATERIAL THEREOVER.
Claims use since July 15, 1940.

Ser. No. 457,941. ASSOCIATED RESEARCH INCORPORATED, Chicago, Ill. Filed Jan. 16, 1943.

HYPOT

FOR ELECTRICAL MEASURING INSTRUMENTS, SPECIFICALLY APPARATUS FOR DETERMINING THE VOLTAGE AT WHICH ELECTRICAL INSULATION BREAKS DOWN.
Claims use since Nov. 15, 1937; and since Feb. 3, 1942, in form shown.

Ser. No. 457,942. ASSOCIATED RESEARCH INCORPORATED, Chicago, Ill. Filed Jan. 16, 1943.

VIBROGROUND

FOR ELECTRICAL MEASURING INSTRUMENTS, SPECIFICALLY INSTRUMENTS FOR MEASURING THE RESISTANCE OF ELECTRICAL GROUNDING CONNECTION TO THE EARTH.
Claims use since Apr. 12, 1940; and since Feb. 3, 1942, in the form shown.

Ser. No. 457,943. ASSOCIATED RESEARCH INCORPORATED, Chicago, Ill. Filed Jan. 16, 1943.

VIBROTEST

FOR ELECTRICAL MEASURING INSTRUMENTS, SPECIFICALLY INSTRUMENTS FOR MEASURING THE ELECTRICAL RESISTANCE OF ELECTRICAL INSULATION.
Claims use since Feb. 28, 1939; and since Feb. 3, 1942, in form shown.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 456,868. ELREX WATCH COMPANY, INC., New York, N. Y. Filed Nov. 17, 1942.

ELREX

FOR WATCHES.
Claims use since Nov. 2, 1942.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 455,388. W. A. BALLINGER & Co., San Francisco, Calif. Filed Sept. 7, 1942.

BALCORD

FOR MOPS AND MOP HEADS.
Claims use since May, 1937.

Ser. No. 455,389. W. A. BALLINGER & Co., San Francisco, Calif. Filed Sept. 7, 1942.

BALTWINE

FOR MOPS AND MOP HEADS.
Claims use since May, 1937.

Ser. No. 455,390. W. A. BALLINGER & Co., San Francisco, Calif. Filed Sept. 7, 1942.

MILROVE

FOR MOPS AND MOP HEADS.
Claims use since May, 1938.

Ser. No. 457,646. WALGREEN CO., Chicago, Ill. Filed Dec. 29, 1942.

ORA·TON

FOR TOOTH BRUSHES.
Claims use since Dec. 13, 1940.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 450,161. HALL-NEAL FURNACE CO., Indianapolis, Ind. Filed Jan. 12, 1942.

VICTOR

Applicant is the owner of the U. S. trade-mark registrations No. 168,465, granted May 22, 1923, and No. 341,630, granted Dec. 15, 1936.
FOR MOTOR DRIVEN OIL BURNERS FOR FIRING DOMESTIC OR HOUSEHOLD FURNACES OF THE WARM AIR, STEAM, OR HOT WATER TYPE.
Claims use since Mar. 1, 1936.

Ser. No. 454,103. PETRO-CHEM DEVELOPMENT COMPANY, New York, N. Y. Filed July 8, 1942.

ISO-FLOW

The word "Flow" is disclaimed apart from the mark.
FOR FLUID BURNING FURNACES.
Claims use since May 9, 1940.

CLASS 37

PAPER AND STATIONERY

Ser. No. 454,247. CURTIS 1000 INCORPORATED, St. Paul, Minn. Filed July 16, 1942.

CURTIS 1000 LABEL

The word "Curtis" is disclaimed apart from the mark.
FOR CORRESPONDENCE AND MAILING ENVELOPES.
Claims use since June 25, 1942.

Ser. No. 457,153. L. HYMAN & SONS, New York, N. Y. Filed Dec. 1, 1942.

HY-MARK

FOR PAPER PRODUCTS—NAMELY, BOND PAPER.
Claims use since 1920.

Ser. No. 457,285. REMINGTON RAND INC., Buffalo, N. Y. Filed Dec. 8, 1942.

TIP TOP

FOR GUIDES FOR CARD AND CORRESPONDENCE INDEXES.
Claims use since Apr. 10, 1941.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 457,692. TUNE-DEX, INC., New York, N. Y. Filed Dec. 31, 1942.

TUNE-DEX

FOR SERIES OF THEMATIC INDEX CARDS EMPLOYING THE USE OF MUSIC ON ONE SIDE OF THE CARD AND INFORMATION ON THE OTHER SIDE.
Claims use since Sept. 3, 1940.

CLASS 39

CLOTHING

Ser. No. 451,354. WOOL INDUSTRIES RESEARCH ASSOCIATION, Leeds, England. Filed Mar. 2, 1942. Under the act of February 20, 1905, as amended June 10, 1938.

WOOLINDRAS

FOR MEN'S, WOMEN'S, BOYS', GIRLS', AND IN-

PANTS' WEARING APPAREL MADE WHOLLY OF WOOL—NAMELY, OVERCOATS, CAPES, CLOAKS, MANTLES, DETACHABLE LININGS FOR OVERCOATS AND RAINCOATS, JACKETS (INCLUDING BLOUSE-TYPE JACKETS), SLEEVED WAISTCOATS, WAISTCOATS, COATS, BLAZERS, BOLEROS, SWEATERS, JERSEYS, JUMPERS, PULLOVERS, CARDIGANS, BEDJACKETS, TROUSERS, SLACKS, BREECHES, JODPHURS, SHORTS, SKIRTS, DRESSES, GOWNS, FROCKS, TUNICS, GYM TUNICS, SHIRTS, SHIRT-BLOUSES, SHAWLS, PLAIDS, SCARVES, MUFFLERS, ONE-PIECE OUTER GARMENTS, ROMPERSUITS, OVERALLS, DRESSING GOWNS, HOUSE COATS, PYJAMA SUITS, SLEEPING SUITS, NIGHT SHIRTS, NIGHTDRESSES, UNDERWEAR, PETTICOATS, SLIPS, VESTS, PANTS, LEGINETTES, SHORT PANTIES, GAITER OVERALLS, CAMISOLES, BODY BELTS, HALF HOSE, ANKLE SOCKS, BED-SOCKS, STOCKINGS, THREE-QUARTER HOSE, COLLARS, CUFFS, TIES, SLEEVES, BATHING GOWNS, BATHING COSTUMES, BATHING TRUNKS, GLOVES, MITTENS, GAITERS, KNEE CAPS, BOOTS, KILTS, DIVIDED SKIRTS, OVERTROUSERS, TRUNKS, KNICKERS, LEGLESS PANTS, SHOES, CAPS, HATS AND OTHER HEADGEAR.
Claims use since Jan. 1, 1939.

Ser. No. 452,240. CURRICK & LEIKEN CO. INC., New York, N. Y. Filed Apr. 9, 1942.

C·L
Weskits

The word "Weskits" is disclaimed apart from the mark.
FOR VESTS AND JACKETS FOR MEN, WOMEN, AND CHILDREN.
Claims use since May 1, 1941.

Ser. No. 457,138. DAN MILLSTEIN, INC., New York, N. Y. Filed Nov. 30, 1942.

KARENDOWN
EXCLUSIVE with
Fashion Colony

The words "Exclusive with" and "Fashion" are disclaimed apart from the mark.
FOR LADIES' AND MISSES' COATS AND SUITS.
Claims use since Apr. 7, 1942.

Ser. No. 457,568. WIMELBACHER & RICE, New York, N. Y. Filed Dec. 22, 1942.

"DUO ANGEL SUEDE"

No claim is made to the word "Suede."
FOR LEATHER AND FABRIC GLOVES.
Claims use since 1935.

Ser. No. 457,915. INTERNATIONAL SHOE CO., St. Louis, Mo. Filed Jan. 14, 1943.

FLUVLERS

FOR BOOTS AND SHOES OF LEATHER, FABRIC AND/OR COMBINATIONS THEREOF.
Claims use since Dec. 20, 1941.

Ser. No. 457,933. GILBERT SHOE CO., Thiensville, Wis. Filed Jan. 15, 1943.

Kali-sten-iks

FOR CHILDREN'S SHOES CONSTRUCTED OF LEATHER, RUBBER, OR FABRIC OR A COMBINATION OF THESE MATERIALS.
Claims use since Apr. 17, 1926.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 456,385. JOHN FRIER, doing business as The Alox Manufacturing Company, St. Louis, Mo. Filed Oct. 24, 1942.

ALOX

FOR SHOE LACES.
Claims use since Apr. 1, 1919.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 454,632. FISBA FABRICS, INC., New York, N. Y. Filed July 31, 1942.



FOR COTTON PIECE GOODS.
Claims use since January, 1939.

Ser. No. 456,097. COHN-HALL-MARX CO., New York, N. Y. Filed Oct. 9, 1942.

SUN-RIPE COLORS

The word "Colors" is disclaimed.
FOR PIECE GOODS OF WOOLEN, RAYON, AND/OR SILK, AND MIXTURES THEREOF.
Claims use since Sept. 15, 1942.

Ser. No. 456,197. RIVERSIDE & DAN RIVER COTTON MILLS, INC., Danville, Va., and New York, N. Y. Filed Oct. 14, 1942.

SKYTOP

FOR PIECE GOODS OF COTTON, RAYON AND MIXTURES THEREOF FOR SHIRTS, SLACKS, TROUSERS AND SPORTSWEAR.
Claims use since July 1, 1939.

Ser. No. 456,940. FORSTMANN WOOLEN CO., Passaic, N. J. Filed Nov. 20, 1942.

Astraleen

FOR WOOLEN PIECE GOODS.
Claims use since Nov. 1, 1942.

Ser. No. 457,415. WM. F. FRETZ & SON, Doylestown, Pa., assignor to Eastman Kodak Company, Rochester, N. Y. Filed Dec. 15, 1942.

Corteeka

FOR RAYON PIECE GOODS.
Claims use since Nov. 30, 1942.

Ser. No. 457,416. WM. F. FRETZ & SON, Doylestown, Pa., assignor to Eastman Kodak Company, Rochester, N. Y. Filed Dec. 15, 1942.

Arteeka

FOR RAYON PIECE GOODS.
Claims use since Nov. 30, 1942.

Ser. No. 457,455. WELLINGTON SEARS COMPANY, INCORPORATED, New York, N. Y. Filed Dec. 16, 1942.

GRENADIER

FOR GABARDINE PIECE GOODS MADE ALL OR IN PART OF COTTON, WOOL, RAYON, OR SILK SUITABLE TO BE MADE INTO GARMENTS.
Claims use since Aug. 1, 1936.

Ser. No. 457,474. LESEM BACH & CO. INCORPORATED, New York, N. Y. Filed Dec. 17, 1942.

BACKADERE

FOR PIECE GOODS OF RAYON, WOOL, COTTON, SILK MATERIALS AND ANY COMBINATION OF SAME, IN THE GRAY FINISHED, PROCESSED, DYED, AND MANUFACTURED.
Claims use since Nov. 20, 1942.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 447,846. M. & M. LIMITED, Newark, N. J. Filed Oct. 16, 1941.

um-m-m

FOR CANDY.
Claims use since Sept. 15, 1941.

Ser. No. 453,885. AMERICAN STORES COMPANY, Philadelphia, Pa. Filed June 26, 1942.

Gold Seal



Applicant is owner of U. S. Reg. No. 250,385, issued Dec. 11, 1928.
FOR CORN FLAKES, WHEAT CEREAL, WHEAT PUFFS, RICE PUFFS, AND SHREDDED WHEAT.
Claims use on corn flakes and shredded wheat since April, 1942; and on wheat cereal, wheat puffs, and rice puffs since January, 1941.

Ser. No. 454,145. MCCALL & COMPANY, LIMITED, Gerrards Cross, England. Filed July 10, 1942.

PAYSANDU
OX TONGUES
LONDON

No claim is made to "Paysandu," "Ox Tongues," "Made in Brazil," "McCall & Co., Limited, London" apart from the mark shown.
FOR OX TONGUES PRESERVED IN TINS.
Claims use since 1889.

Ser. No. 456,738. FABRICA DE PIMENTAO A. ALENTEJANA LDA., Lisbon, Portugal. Filed Nov. 11, 1942.

Red Pottery
PAPRIKA

The word "Paprika" is not claimed apart from the mark.
FOR PAPRIKA IN ITS NATURAL STATE, EX-

PORTED IN LARGE SACKS HOLDING ONE HUNDRED AND TEN POUNDS NET, WHICH IS RESOLD IN BULK IN THE SAME CONTAINERS FOR MANUTURING PURPOSES AND TO BE SOLD UNDER PRIVATE BRANDS.
Claims use since July 12, 1941.

Ser. No. 457,605. E & L COMPANY, Los Angeles, Calif. Filed Dec. 26, 1942.

ELECTED

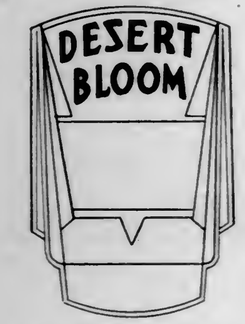
FOR FRESH VEGETABLES, FRESH DECIDUOUS FRUITS AND FRESH CITRUS FRUITS.
Claims use since Sept. 15, 1942.

Ser. No. 457,766. MILLER CEREAL MILLS, INCORPORATED, Omaha, Nebr. Filed Jan. 5, 1943.

BAR-B-KUBES

No claim is made to the word "Kubes" apart from the mark.
FOR DOG FOOD SOLD IN MEAL, PELLET, AND CUBE FORM.
Claims use since January, 1934.

Ser. No. 457,847. F. E. BOYDEN-HANSEN CO., LTD., Alameda, Calif. Filed Jan. 11, 1943.



No claim is made to the representation of a label apart from the mark.
FOR HONEY.
Claims use since Jan. 1, 1933.

Ser. No. 457,960. MCCORMICK & CO., INCORPORATED, Baltimore, Md. Filed Jan. 16, 1943.

BAKING MAGIC

FOR IMITATION FOOD FLAVORING EXTRACTS.
Claims use since Aug. 28, 1942.

Ser. No. 457,970. E. E. DAVIS, doing business as E. E. Davis Packing Co., Phoenix, Ariz. Filed Jan. 18, 1943.

SUN CHIEF

FOR FRESH VEGETABLES.
Claims use since Nov. 20, 1942.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 456,804. OXTEX CORPORATION, Newark, N. J. Filed Nov. 13, 1942.

OXTEX

FOR ARTIFICIAL LEATHER.
Claims use since Nov. 16, 1935.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

MARCH 16, 1943

400,499. LINE OF PACKAGED AND CANNED GROCERY GOODS—NAMELY, ROLLED OATS, CANNED TOMATOES, CANNED SPINACH, CANNED GREEN BEANS, STRAWBERRY PRESERVES, AND PEANUT BUTTER. OZMUN AND COMPANY, Lawton, Okla.
Filed November 1, 1940. Serial No. 437,478. PUBLISHED JANUARY 5, 1943. Class 46.

400,500. FOOT TREADLE ELECTRIC SWITCHES. SIMONDS MACHINE COMPANY, INC., Southbridge, Mass.
Filed June 18, 1941. Serial No. 444,659. PUBLISHED SEPTEMBER 15, 1942. Class 21.

400,501. QUIZ GAME PLAYED WITH CARDS AND EQUIPMENT, THE CARDS BEARING QUESTIONS ON VARIOUS SUBJECTS, EVENTS, ETC. ANTHONY EDWARDS, Merced, Calif.
Filed November 10, 1941. Serial No. 448,505. PUBLISHED JANUARY 5, 1943. Class 22.

400,502. CAULKING CEMENT AND RUBBER CEMENT. PHILCO CORPORATION, Philadelphia, Pa.
Filed February 11, 1942. Serial No. 450,903. PUBLISHED JANUARY 5, 1943. Class 5.

400,503. CIGARETTE CASES, CIGAR CASES AND CASES OR POUCHES MADE WHOLLY OR IN PART OF LEATHER FOR TOBACCO. FISCH AND COMPANY, LTD., Los Angeles, Calif.
Filed March 28, 1942. Serial No. 451,970. PUBLISHED DECEMBER 29, 1942. Class 8.

400,504. FLOWER SEEDS AND GARDEN SEEDS M. BEATRICE GILBERT, Galesburg, Ill.
Filed April 30, 1942. Serial No. 452,690. PUBLISHED DECEMBER 29, 1942. Class 1.

400,505. MAGAZINE. STREET & SMITH PUBLICATIONS, INC., New York, N. Y.
Filed May 2, 1942. Serial No. 452,756. PUBLISHED DECEMBER 29, 1942. Class 38.

400,506. TOBACCO ASH RECEPTACLES. THE CADET SMOKESTANDS COMPANY, Des Moines, Iowa.
Filed May 6, 1942. Serial No. 452,821. PUBLISHED DECEMBER 29, 1942. Class 8.

400,507. DIAPHRAGM MATERIAL IN THE NATURE OF A CLOSELY WOVEN TREATED FABRIC SOLD IN THE PIECE OR ROLL FOR USE IN METERS, REGULATORS AND THE LIKE. J. DUNLAP REES, doing business as Hess Rees Company, Erie, Pa.
Filed May 15, 1942. Serial No. 453,032. PUBLISHED DECEMBER 29, 1942. Class 50.

400,508. NECKLACES, BRACELETS, FINGER RINGS, JEWELRY CLIPS, BROOCHES, EARRINGS, AND OTHER ARTICLES OF MEN'S AND WOMEN'S COSTUME JEWELRY NOT INCLUDING WATCHES. JOSEPH H. MEYER BROS., Brooklyn, N. Y.
Filed May 16, 1942. Serial No. 453,059. PUBLISHED DECEMBER 29, 1942. Class 28.

400,509. WATCHES, WATCH CASES, AND WATCH MOVEMENTS. THE GRUEN WATCH COMPANY, Cincinnati, Ohio.
Filed June 10, 1942. Serial No. 453,582. PUBLISHED DECEMBER 29, 1942. Class 27.

400,510. FINGER RINGS, COLLAR HOLDERS, BRACELETS FOR WATCHES, AND TIE CHAINS. EISENSTADT MANUFACTURING COMPANY, St. Louis, Mo.
Filed June 11, 1942. Serial No. 453,596. PUBLISHED JANUARY 5, 1943. Class 28.

400,511. PUBLICATIONS ISSUED FROM TIME TO TIME, THE SUBJECT MATTER OF WHICH DEALS WITH RECIPES FOR COOKING. KELLOGG COMPANY, Battle Creek, Mich.
Filed June 22, 1942. Serial No. 453,803. PUBLISHED DECEMBER 29, 1942. Class 38.

400,512. PLASTIC COLLAPSIBLE TUBE CONTAINERS. THE WATERBURY BUTTON COMPANY, Waterbury, Conn.
Filed July 3, 1942. Serial No. 454,046. PUBLISHED JANUARY 5, 1943. Class 2.

400,513. RECEPTACLES OF CEMENT OR CONCRETE —NAMELY, TANKS FOR WATER, OIL OR GASOLINE, AQUARIUMS, AND BIRD BATHS. THE PRELOAD COMPANY, Boston, Mass.
Filed July 3, 1942. Serial No. 454,041. PUBLISHED JANUARY 5, 1943. Class 2.

400,514. WATCHES. KARL PLEPLA, New York, N. Y.
Filed July 6, 1942. Serial No. 454,073. PUBLISHED DECEMBER 29, 1942. Class 27.

400,515. GUTTA PERCHA, INDIA-RUBBER, BALATA, AND SYNTHETIC RUBBER. THE TELEGRAPH CONSTRUCTION & MAINTENANCE COMPANY, LIMITED, London, England.
Filed July 9, 1942. Serial No. 454,125. PUBLISHED JANUARY 5, 1943. Class 1.

400,516. EXTRUDED PLASTIC TUBING FOR CONDUITS AND RELATED USES. EXTRUDED PLASTICS, INC., Norwalk, Conn.
Filed July 20, 1942. Serial No. 454,332. PUBLISHED JANUARY 5, 1943. Class 35.

400,517. PHONOGRAPHS, PHONOGRAPH TURN TABLES, PHONOGRAPH MOTOR BOARD ASSEMBLIES, PHONOGRAPH TONE ARMS, PHONOGRAPH NEEDLES, PHONOGRAPH RECORDING BLANKS, AND PHONOGRAPH RECORDING APPARATUS. PHILCO CORPORATION, Philadelphia, Pa.
Filed July 21, 1942. Serial No. 454,375. PUBLISHED JANUARY 5, 1943. Class 36.

400,518. PRINTED SIGNS AND CALENDARS AND DECALCOMANIA TRANSFERS. BROWN & BIGELOW, St. Paul, Minn.
Filed July 22, 1942. Serial No. 454,410. PUBLISHED DECEMBER 29, 1942. Class 38.

400,519. COMIC STRIP PUBLISHED PERIODICALLY. THE MCNAUGHT SYNDICATE, INC., New York, N. Y.
Filed July 29, 1942. Serial No. 454,577. PUBLISHED DECEMBER 29, 1942. Class 38.

400,520. LIVESTOCK AND POULTRY FEEDS AND FOR DOG FOOD AND RATION. ARCADY FARMS MILLING COMPANY, Chicago, Ill.
Filed August 11, 1942. Serial No. 454,845. PUBLISHED JANUARY 5, 1943. Class 46.

400,521. WATCHES, WATCH CASES, AND WATCH MOVEMENTS. THE GRUEN WATCH COMPANY, Cincinnati, Ohio.
Filed August 18, 1942. Serial No. 454,967. PUBLISHED JANUARY 5, 1943. Class 27.

400,522. WOODEN HOUSEHOLD AND OFFICE FURNITURE. CALVERT COGGESHALL, New York, N. Y.
Filed August 19, 1942. Serial No. 454,978. PUBLISHED JANUARY 5, 1943. Class 32.

400,523. SOLENOID CONTACTORS, RADIO RELAYS, ELECTRIC CIRCUIT ADAPTER PLUGS, ELECTRIC SOCKETS FOR MICROPHONES AND CAMERAS, ETC. GUARDIAN ELECTRIC MANUFACTURING CO., Chicago, Ill.
Filed August 19, 1942. Serial No. 454,983. PUBLISHED JANUARY 5, 1943. Class 21.

400,524. WATCHES, CLOCKS, TIMERS IN THE NATURE OF PRECISION START AND STOP WATCHES, WATCH PARTS, AND CLOCK PARTS, WATCH CASES, AND WATCH MOVEMENTS. LONGINES-WITTNAUER WATCH CO., INC., New York, N. Y.
Filed August 28, 1942. Serial No. 455,164. PUBLISHED DECEMBER 29, 1942. Class 27.

400,525. PHOTO PRINTS. FOTO PLUS, Fort Lee, N. J.
Filed September 1, 1942. Serial No. 455,232. PUBLISHED JANUARY 5, 1943. Class 38.

400,526. STRINGS FOR VIOLINS, VIOLAS, CELLOS, DOUBLE BASSES, GUITARS, AND UKULELES. SCHERL & ROTH, INC., Cleveland, Ohio.
Filed September 2, 1942. Serial No. 455,284. PUBLISHED JANUARY 5, 1943. Class 36.

400,527. RADIO SCRIPTS PUBLISHED FROM TIME TO TIME AND SOLD IN THE TRADE AS SUCH. GOURFAIN-CORB ADVERTISING AGENCY, Chicago, Ill.
Filed September 4, 1942. Serial No. 455,341. PUBLISHED DECEMBER 29, 1942. Class 38.

400,528. OFFSET PRINTING PAPER. OXFORD PAPER COMPANY, New York, N. Y.
Filed September 9, 1942. Serial No. 455,440. PUBLISHED JANUARY 5, 1943. Class 37.

400,529. CARDBOARD FOOD SERVICE TRAYS. CANTEEN FOOD SERVICE, NOT INC., Chicago, Ill.
Filed September 21, 1942. Serial No. 455,641. PUBLISHED JANUARY 5, 1943. Class 2.

400,530. CARDBOARD FOOD SERVICE TRAYS. CANTEEN FOOD SERVICE, NOT INC., Chicago, Ill.
Filed September 21, 1942. Serial No. 455,642. PUBLISHED JANUARY 5, 1943. Class 2.

400,531. BUILDING PAPER HAVING ORNAMENTAL DESIGNS PRINTED THEREON. COOK PAINT & VARNISH COMPANY, North Kansas City, Mo.
Filed September 21, 1942. Serial No. 455,647. PUBLISHED JANUARY 5, 1943. Class 12.

400,532. BED SPRINGS, MATTRESSES, BEDS, COUCHES, COTS, PILLOWS AND CUSHIONS, PORCH GLIDERS, METAL CHAIRS, AND LOUNGES. BARCALO MANUFACTURING COMPANY, Buffalo, N. Y.
Filed October 24, 1942. Serial No. 456,380. PUBLISHED JANUARY 5, 1943. Class 32.

400,533. CHEESE. TOLIBIA CHEESE MANUFACTURING CORPORATION, Fond du Lac, Wis.
Filed October 23, 1942. Serial No. 456,373. PUBLISHED JANUARY 5, 1943. Class 46.

400,534. ELECTRICALLY-OPERATED LABORATORY OVEN. FISHER SCIENTIFIC COMPANY, Pittsburgh, Pa.
Filed October 22, 1942. Serial No. 456,334. PUBLISHED JANUARY 5, 1943. Class 26.

400,535. COMBINATION CALENDAR AND ENGAGEMENT BOOK. F. W. WOOLWORTH CO., INC., New York, N. Y.
Filed October 12, 1942. Serial No. 450,162. PUBLISHED JANUARY 5, 1943. Class 37.

400,536. ELECTRICAL APPARATUS—NAMELY, INSULATED ELECTRICAL CONDUCTOR HOLDER FOR ELECTRODES AND PARTS THEREOF. JAMES H. FULLER, doing business as Golden Rod Equipment Co., San Francisco, Calif.
Filed October 12, 1942. Serial No. 456,142. PUBLISHED JANUARY 5, 1943. Class 21.

400,537. MECHANICAL AND ELECTRICAL SOUND REPRODUCING DEVICES OF THE RECORD TYPE, PHONOGRAPH RECORDS, PHONOGRAPH RECORD ALBUMS, AND PHONOGRAPH RECORD ENVELOPES. DECCA RECORDS, INC., New York, N. Y.
Filed October 9, 1942. Serial No. 456,098. PUBLISHED JANUARY 5, 1943. Class 36.

400,538. ELECTRIC ENERGY TRANSLATING DEVICES—NAMELY, ELECTRIC LAMPS, ELECTRON TUBES, AND COMPONENT PARTS THEREOF. SYLVANIA ELECTRIC PRODUCTS INC., Salem, Mass.
Filed October 7, 1942. Serial No. 456,055. PUBLISHED JANUARY 5, 1943. Class 21.

400,539. CONCENTRATED DEFLAVORED SYRUP CONTAINING LEVULOSE, DEXTROSE, AND SUCROSE WHICH IS DERIVED FROM APPLES FOR GENERAL USE IN LIEU OF HONEY, SUGAR, ETC. SPEAS COMPANY, Kansas City, Mo.
Filed October 7, 1942. Serial No. 456,050. PUBLISHED JANUARY 5, 1943. Class 46.

400,540. FEED SUPPLEMENT FOR CATTLE, HOGS, AND CHICKENS CONTAINING VITAMINS, VEGETABLE AND ANIMAL PROTEINS. SCHREIBER MILLING & GRAIN CO., St. Joseph, Mo.
Filed October 5, 1942. Serial No. 455,988. PUBLISHED JANUARY 5, 1943. Class 46.

400,541. ULTRA-VIOLET GERMICIDAL LAMPS USED FOR DESTROYING AIR-BORNE BACTERIA. THE TRU-AD COMPANY, Los Angeles, Calif.
Filed October 3, 1942. Serial No. 455,962. PUBLISHED JANUARY 5, 1943. Class 44.

400,542. BOND PAPER. THE ALLING & CORY COMPANY, Rochester, N. Y.
Filed October 3, 1942. Serial No. 455,946. PUBLISHED DECEMBER 29, 1942. Class 37.

400,543. BOND PAPER. THE ALLING & CORY COMPANY, Rochester, N. Y.
Filed October 3, 1942. Serial No. 455,944. PUBLISHED DECEMBER 29, 1942. Class 37.

400,544. PAPER FASTENERS. GREEN - KRIEGSMAN PAPER CO., INC., New York, N. Y.
Filed October 2, 1942. Serial No. 455,915. PUBLISHED JANUARY 5, 1943. Class 37.

400,545. BLEND OF PEANUT OIL AND OLIVE OIL. MICHAEL MARESCA ANSALDI, doing business as The Good Samaritan, New York, N. Y.
Filed October 2, 1942. Serial No. 455,899. PUBLISHED JANUARY 5, 1943. Class 46.

400,546. PAPER AND PAPER PRODUCTS—NAMELY, LETTER PAPER, BLANK STOCK AND BOND CERTIFICATES, AND BLANK RECORD LISTS FOR STOCKS AND BONDS. RAY A. WHEELER, Foxboro, Mass.
Filed September 26, 1942. Serial No. 455,811. PUBLISHED DECEMBER 29, 1942. Class 37.

400,547. PLASTIC JEWELRY FOR PERSONAL ADORNMENT NOT INCLUDING WATCHES. ATLAS CREATIONS INC., New York, N. Y.
Filed September 26, 1942. Serial No. 455,779. PUBLISHED DECEMBER 29, 1942. Class 28.

400,548. DEHYDRATED MIXED VEGETABLES IN POWDER OR TABLET FORM. GARLAND DEE RUNNELS, New York, N. Y.
Filed November 18, 1942. Serial No. 456,904. PUBLISHED JANUARY 5, 1943. Class 46.

400,549. PERIODICAL. BOOKTAB, INC., New York, N. Y.
Filed November 17, 1942. Serial No. 456,862. PUBLISHED JANUARY 5, 1943. Class 38.

400,550. OLIVE OIL AND GREEN AND RIPE OLIVES IN TIN AND GLASS. CO-OPERATIVE OLIVE PRODUCTS ASSOCIATION, INC., Fresno, Calif.
Filed November 16, 1942. Serial No. 456,844. PUBLISHED JANUARY 5, 1943. Class 46.

400,551. CANNED FRUITS AND TOMATO CATSUP. ELMHURST PACKERS, INC., Oakland, Calif.
Filed November 14, 1942. Serial No. 456,823. PUBLISHED JANUARY 5, 1943. Class 46.

400,552. FRESH VEGETABLES. ALLEN & HOWE, Yuma, Ariz.
Filed November 14, 1942. Serial No. 456,818. PUBLISHED JANUARY 5, 1943. Class 46.

400,553. NEWSPAPER SECTION OR DEPARTMENT. ERICH BRANDEIS, New York, N. Y.
Filed November 13, 1942. Serial No. 456,787. PUBLISHED JANUARY 5, 1943. Class 38.

400,554. SALAD OIL. ANTONIO CORRAO, doing business as Universal Salad Oil Co., Brooklyn, N. Y.
Filed November 12, 1942. Serial No. 456,766. PUBLISHED JANUARY 5, 1943. Class 46.

400,555. ADHESIVE CEMENT. CHRYSLER CORPORATION, Highland Park, Mich.
Filed November 12, 1942. Serial No. 456,765. PUBLISHED JANUARY 5, 1943. Class 5.

400,556. SERIES CARTOONS. THE CHICAGO SUN SYNDICATE, INC., Chicago, Ill.
Filed November 9, 1942. Serial No. 456,712. PUBLISHED JANUARY 5, 1943. Class 38.

400,557. FRESH VEGETABLES. CALIFORNIA LETTUCE GROWERS, INC., Guadalupe, Calif.
Filed November 9, 1942. Serial No. 456,711. PUBLISHED JANUARY 5, 1943. Class 46.

400,558. TOY CUT OUT FIGURES OF PAPER BOARD. VICTORY TOY COMPANY, Chicago, Ill.
Filed November 7, 1942. Serial No. 456,704. PUBLISHED JANUARY 5, 1943. Class 22.

400,559. ELECTROPLATING RACKS. SPECIAL CHEMICALS CORPORATION, New York, N. Y., assignor to Lionel Cinamon and Bessie P. Cinamon, doing business as Special Chemicals Company, New York, N. Y.
Filed November 7, 1942. Serial No. 456,699. PUBLISHED JANUARY 5, 1943. Class 21.

400,560. PERIODICAL. CLEONÆ W. BROOKS, Lexington, Ky.
Filed November 3, 1942. Serial No. 456,623. PUBLISHED JANUARY 5, 1943. Class 38.

400,561. FOOD PRODUCT FOR INFANTS, INVALIDS, AND ADULTS, COMPOSED OF OATMEAL ENRICHED WITH VITAMIN AND MINERAL SUPPLEMENTS, THOROUGHLY COOKED AND DRIED. MEAD JOHNSON & COMPANY, Evansville, Ind.
Filed November 2, 1942. Serial No. 456,612. PUBLISHED JANUARY 5, 1943. Class 46.

400,562. RADIO SCRIPTS PUBLISHED FROM TIME TO TIME, AND SOLD IN THE TRADE AS SUCH. FEATURE FOODS, INC., Chicago, Ill.
Filed October 31, 1942. Serial No. 456,555. PUBLISHED DECEMBER 29, 1942. Class 38.

400,563. GAME COMPRISING A BOARD AND MOVABLE PLAYING PIECES. SARGO COMPANY, New York, N. Y.
Filed October 27, 1942. Serial No. 456,472. PUBLISHED JANUARY 5, 1943. Class 22.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

400,564. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) T. G. SCHMEISER CO., Fresno, Calif. Filed Aug. 16, 1941. Serial No. 446,307.

TILL on' PAK

FOR EARTH WORKING IMPLEMENTS AND SPECIFICALLY A COMBINATION SOIL CULTIVATOR AND PACKER.
Claims use since May 13, 1941.

400,565. (CLASS 38. PRINTS AND PUBLICATIONS.) AMERICAN DAIRY PUBLISHING ASSOCIATION, Chicago, Ill. Filed Sept. 29, 1941. Serial No. 447,384.

American Dairyman

FOR PUBLICATIONS RELATING TO THE DAIRY INDUSTRY AND CATTLE BREEDING PUBLISHED FROM TIME TO TIME.
Claims use since Aug. 5, 1941.

400,566. (CLASS 38. PRINTS AND PUBLICATIONS.) U. S. INDUSTRIAL ALCOHOL CO., New York, N. Y. Filed Oct. 22, 1941. Serial No. 448,019.

U.S. Items

FOR A PERIODICAL PUBLICATION.
Claims use since on or about Sept. 8, 1941.

400,567. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NORTHWESTERN TURKEY GROWERS ASSOCIATION, Salt Lake City, Utah. Filed Nov. 4, 1941. Serial No. 448,393.



FOR DRESSED POULTRY.
Claims use since July 21, 1941.

400,568. (CLASS 39. CLOTHING.) HARRY N. FRIED, doing business as H. N. Fried & Company, Chicago, Ill. Filed Dec. 13, 1941. Serial No. 449,453.

Deanna Day

FOR WOMEN'S AND MISSES' DRESSES.
Claims use since Dec. 1, 1941.

400,569. (CLASS 39. CLOTHING.) KENNETH TISCHLER INCORPORATED, New York, N. Y. Filed Dec. 17, 1941. Serial No. 449,561.

Lerwick Tweeds

FOR LADIES' COATS, SUITS, JACKETS, AND SKIRTS.
Claims use since Jan. 15, 1938.

400,570. (CLASS 38. PRINTS AND PUBLICATIONS.) THE NEWSPAPER PM, INC., Brooklyn, N. Y., assignor, by mesne assignments, to Field Publications, New York, N. Y., a limited partnership composed of Marshall Field and Marshall Field, Jr. Filed Dec. 26, 1941. Serial No. 449,776.

VIC JORDAN

FOR A COMIC STRIP IN A DAILY NEWSPAPER.
Claims use since Dec. 1, 1941.

400,571. (CLASS 39. CLOTHING.) MILLBROOK MANUFACTURING CORPORATION, New York, N. Y. Filed Mar. 9, 1942. Serial No. 451,498.

Glenlock

FOR CHILDREN'S AND WOMEN'S SKI SUITS, BEACH WEAR—NAMELY, SLACKS, SHORTS, SKIRTS, PLAY SUITS, SHIRTS, AND COVERALLS; AND SPORTSWEAR—NAMELY, SKIRTS, JACKETS, SLACKS, SHIRTS, SHORTS, SKI PANTS, SKI JACKETS, RIDING PANTS, AND SNOW SUITS.
Claims use since Dec. 1, 1941.

400,572. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. P. IHRIE AND SONS, Baltimore, Md. Filed Mar. 13, 1942. Serial No. 451,600.



FOR POTATO CHIPS.
Claims use since 1937.

400,573. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) P. R. MALLORY & CO., INC., Indianapolis, Ind. Filed Apr. 11, 1942. Serial No. 452,289.

P. R. MALLORY & CO. Inc.
MALLORY

FOR ELECTRICAL AND RADIO PRODUCTS—NAMELY, ELECTRIC CONDENSERS, ELECTRIC VIBRATORS, AND VIBRATOR-OPERATED ELECTRIC POWER SUPPLY DEVICES, ELECTRIC POWER CONTROLS, ELECTRIC RECTIFIERS, BATTERY CHARGERS, ELECTRIC SWITCHES, ELECTRIC CONTACTS, ELECTRIC RESISTANCES, POTENTIOMETERS, RHEOSTATS, VOLUME CONTROLS AND PARTS THEREOF, TUNING DEVICES, ELECTRIC FILTER DEVICES, ELECTRIC PLUGS AND JACKS, POTENTIAL CELLS, GRID BIAS DEVICES, TERMINALS, TERMINAL STRIPS, ELECTRIC CONNECTORS, RADIO OUTLETS, DIAL AND PILOT LIGHTS AND ACCESSORIES, DIAL PLATES, ELECTRIC WELDING EQUIPMENT, WELDING ELECTRODES OF THE TYPE NOT CONSUMED IN THE WELDING OPERATION, WELDING ELECTRODE HOLDERS.
Claims use since July, 1936.

400,574. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MCALLEN CITRUS ASSN., McAllen, Tex. Filed Apr. 11, 1942. Serial No. 452,290.

PALM CITY

FOR FRESH CITRUS FRUIT.
Claims use since Jan. 13, 1942.

400,575. (CLASS 32. FURNITURE AND UPHOLSTERY.) ABRAHAM & STRAUS, INC., Brooklyn, N. Y. Filed Apr. 27, 1942. Serial No. 452,591.

GAYLORD

FOR BEDS AND VENETIAN BLINDS.
Claims use since October, 1940.

400,576. (CLASS 32. FURNITURE AND UPHOLSTERY.) ABRAHAM & STRAUS, INC., Brooklyn, N. Y. Filed Apr. 27, 1942. Serial No. 452,592.

Overbrook

FOR UPHOLSTERED LIVING ROOM FURNITURE—NAMELY, SOFAS AND CHAIRS.
Claims use since July, 1940.

400,577. (CLASS 39. CLOTHING.) ARROWHEAD KNIT SPORTSWEAR, INC., New York, N. Y. Filed Nov. 12, 1942. Serial No. 456,762.

Carla Crane

FOR WOMEN'S SWEATERS, KNITTED BLOUSES, AND SKIRTS.
Claims use since March, 1941.

400,578. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) TRUSCON LABORATORIES, INC., Detroit, Mich. Filed Nov. 23, 1942. Serial No. 456,993.

opal-tone

FOR DECORATIVE PAINT.
Claims use since February, 1936.

400,579. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE LIONEL CORPORATION, New York, N. Y. Filed Jan. 12, 1943. Serial No. 457,877.

CHEM-LAB

FOR TOY CHEMICAL SETS.
Claims use since Aug. 1, 1941.

TRADE-MARK REGISTRATIONS RENEWED

23,420. **GARLOCK.** PACKING FOR MACHINERY. Registered July 25, 1893. GARLOCK PACKING CO. Renewed July 25, 1943, to The Garlock Packing Company, Palmyra, N. Y., a corporation of New York, assignee.

102,464. **"S" AND DRAWING.** SPRINGS FOR GENERAL USE. Registered December 19, 1922. SANDVIKENS JERNVERKS AKTIEBOLAG, Sandvikens, Sweden, a corporation of Sweden. Renewed December 19, 1942.

163,773. **FOX-TONE.** PHOTOPRINTS AND ENLARGEMENTS MADE ON GLOSSY PAPER. Registered January 30, 1923. CARL D. NEWTON, doing business as The Fox Company. Renewed January 30, 1943, to The Fox Company, San Antonio, Tex., a corporation of Texas, successor.

163,890. **"GUTHRIE & CO. LD." AND DRAWING.** CERTAIN METAL GOODS. Registered February 6, 1923. GUTHRIE & CO., LIMITED, Singapore, Straits Settlements, and London, England, a limited company of the Straits Settlements. Renewed February 6, 1943.

163,891. **"GUTHRIE & CO. LTD." AND DRAWING.** CERTAIN METAL GOODS. Registered February 6, 1923. GUTHRIE & CO., LIMITED, Singapore, Straits Settlements, and London, England, a limited company of the Straits Settlements. Renewed February 6, 1943.

163,892. **"GUTHRIE & CO. LD." AND DRAWING.** CERTAIN CUTLERY AND TOOLS. Registered February 6, 1923. GUTHRIE & CO., LIMITED, Singapore, Straits Settlements, and London, England, a limited company of the Straits Settlements. Renewed February 6, 1943.

163,893. **"GUTHRIE & CO. LTD." AND DRAWING.** CERTAIN CUTLERY AND TOOLS. Registered February 6, 1923. GUTHRIE & CO., LIMITED, Singapore, Straits Settlements, and London, England, a limited company of the Straits Settlements. Renewed February 6, 1943.

163,909. **VIKING.** SAW BLADES. Registered February 6, 1923. AKTIEBOLAGET LIDKÖPINGS SÅGBLADSFABRIK. Renewed February 6, 1943, to Aktiebolaget Lidköpings Vikingsågar, Lidköping, Sweden, a corporation of Sweden, successor.

163,997. **BILTMORE.** BEDSTEADS, MATTRESSES, AND SPRINGS. Registered February 6, 1923. CHARLES P. ROGERS & CO., INC., New York, N. Y. Renewed February 6, 1943, to Charles P. Rogers & Co., Inc., Mount Vernon, N. Y., a corporation of New York.

163,998. **ST. REGIS.** BEDSTEADS, SPRINGS, AND MATTRESSES. Registered February 6, 1923. CHARLES P. ROGERS & CO., INC., New York, N. Y. Renewed February 6, 1943, to Charles P. Rogers & Co., Inc., Mount Vernon, N. Y., a corporation of New York.

163,999. **WALDORF.** BEDSTEADS, SPRINGS, AND MATTRESSES. Registered February 6, 1923. CHARLES P. ROGERS & CO., INC., New York, N. Y. Renewed February 6, 1943, to Charles P. Rogers & Co., Inc., Mount Vernon, N. Y., a corporation of New York.

164,004. **FILDMORE.** MATTRESSES, PILLOWS, AND BOX SPRINGS. Registered February 6, 1923. THE INTERNATIONAL BEDDING COMPANY, Baltimore, Md., a corporation of Maryland. Renewed February 6, 1943.

164,005. **JANICE.** MATTRESSES, PILLOWS, AND BOX SPRINGS. Registered February 6, 1923. THE INTERNATIONAL BEDDING COMPANY, Baltimore, Md., a corporation of Maryland. Renewed February 6, 1943.

164,006. **LONGMORE.** MATTRESSES, PILLOWS, AND BOX SPRINGS. Registered February 6, 1923. THE INTERNATIONAL BEDDING COMPANY, Baltimore, Md., a corporation of Maryland. Renewed February 6, 1943.

164,008. **DAINTY.** MATTRESSES, PILLOWS, AND BOX SPRINGS. Registered February 6, 1923. THE INTERNATIONAL BEDDING COMPANY, Baltimore, Md., a corporation of Maryland. Renewed February 6, 1943.

164,009. **COLONIAL.** MATTRESSES, PILLOWS, AND BOX SPRINGS. Registered February 6, 1923. THE INTERNATIONAL BEDDING COMPANY, Baltimore, Md., a corporation of Maryland. Renewed February 6, 1943.

164,010. **ENDURO.** MATTRESSES, PILLOWS, AND BOX SPRINGS. Registered February 6, 1923. THE INTERNATIONAL BEDDING COMPANY, Baltimore, Md., a corporation of Maryland. Renewed February 6, 1943.

164,012. **LILY.** MATTRESSES, PILLOWS, AND BOX SPRINGS. Registered February 6, 1923. THE INTERNATIONAL BEDDING COMPANY, Baltimore, Md., a corporation of Maryland. Renewed February 6, 1943

164,262. **OPTIMUS.** CERTAIN NAMED ELECTROPLATING AND POLISHING APPARATUS. Registered February 13, 1923. A. P. MUNNING & CO. Renewed February 13, 1943, to Hanson-Van Winkle-Munning Company, Matawan, N. J., a corporation of New Jersey, assignee.

164,292. **"THE WORLDS" AND DRAWING.** HEADACHE POWDERS, NEURALGIA POWDERS, COLD POWDERS, AND ANTIFEVER POWDERS. Registered February 20, 1923. EDWARD B. MCCANNE, doing business as Denver Pharmacal Co. Renewed February 20, 1943, to Edward B. McCanne, Denver, Colo.

164,811. **"GALLAHERS RICH DARK" AND DRAWING.** SMOKING TOBACCO, CIGARETTES, CIGARS, AND SNUFF. Registered February 27, 1923. GALLAHER LIMITED, Belfast, Northern Ireland, a United Kingdom corporation. Renewed February 27, 1943.

164,882. **CHERINUT.** CANDIES. Registered February 27, 1923. BISHOP & COMPANY, Los Angeles, Calif. Renewed February 27, 1943, to National Biscuit Company, New York, N. Y., a corporation of New Jersey, assignee.

165,010. **JUSTRITE.** SOLDERING IRONS. Registered February 27, 1923. JUSTRITE MANUFACTURING COMPANY, Chicago, Ill., a corporation of Illinois. Renewed February 27, 1943.

165,783. **PARKER.** FOUNTAIN PENS AND MECHANICAL PENCILS. Registered March 20, 1923. THE PARKER PEN COMPANY, Janesville, Wis., a corporation of Wisconsin. Renewed March 20, 1943.

165,787. **CRYSTAL.** SAL SODA, BAKING SODA, WATER SOFTENERS, AND BORAX. Registered March 20, 1923. DETROIT SODA PRODUCTS COMPANY, Detroit, Mich. Renewed March 20, 1943, to Detroit Soda Products Company, Wyandotte, Mich., a corporation of Michigan.

165,951. **BREAKFAST BELL.** SELF-RISING BISCUIT FLOUR. Registered March 27, 1923. PIEDMONT MILLS, INC., Lynchburg, Va., a corporation of Virginia. Renewed March 27, 1943.

165,956. **NATURAL.** CERTAIN NAMED FOODS. Registered March 27, 1923. B. A. RAILTON COMPANY, Chicago, Ill., a corporation of Illinois. Renewed March 27, 1943.

166,199. **UNI-LAK.** CERTAIN NAMED PAINT PRODUCTS USED IN FINISHING HEELS AND BOTTOMS OF SHOES. Registered March 27, 1923. KIRKE B. MATHES, doing business as The Uni-Lak Company, Batavia, N. Y. Renewed March 27, 1943, to Kepec Chemical Corporation, Milwaukee, Wis., a corporation of Wisconsin, successor.

166,782. **WEXTEEL.** CUTLERY—NAMELY, POCKETKNIVES, KITCHEN KNIVES, TABLE KNIVES OF BASE METAL, SCISSORS, RAZORS, AND RAZOR BLADES. Registered April 17, 1923. EDWARD WECK & SON, INC., New York, N. Y. Renewed April 17, 1943, to Edward Weck & Company, Inc., Brooklyn, N. Y., a corporation of New York, by change of name.

166,786. **"AMPCO" AND DRAWING.** TWIST DRILLS, MILLING CUTTERS, AND REAMERS. Registered April 17, 1923. AMERICAN MACHINE PRODUCTS CO., Detroit, Mich. Renewed April 17, 1943, to Ampco Twist Drill Co., Jackson, Mich., a corporation of Michigan, by change of name and consolidation.

166,814. **VISLOK.** NUTS AND BOLTS. Registered April 17, 1923. VISLOK, LIMITED. Renewed April 17, 1943, to Vislok Engineering, Limited, London, England, a corporation of the United Kingdom of Great Britain and Northern Ireland, assignee.

167,062. **"MOON FLOUR" AND DRAWING.** WHEAT FLOUR. Registered April 24, 1923. DUNLOP MILLING CO., Clarksville, Tenn. Renewed April 24, 1943, to Dunlop Milling Company, Inc., New York, N. Y., a corporation of Tennessee, assignee.

167,067. **FARADON.** ELECTRICAL CONDENSERS. Registered April 24, 1923. WIRELESS SPECIALTY APPARATUS COMPANY, New York, N. Y., and Boston, Mass. Renewed April 24, 1943, to Radio Corporation of America, New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

167,215. **WINSALL.** NUT MARGARINE. Registered April 24, 1923. E. F. DREW & CO., INC., New York, N. Y. Renewed April 24, 1943, to The Glidden Company, Cleveland, Ohio, a corporation of Ohio, assignee.

167,446. **ARABY.** SOAP. Registered May 1, 1923. LEVER BROTHERS COMPANY, Cambridge, Mass., a corporation of Maine. Renewed May 1, 1943.

167,591. **RCA.** CERTAIN NAMED RADIO APPARATUS. Registered May 1, 1923. RADIO CORPORATION OF AMERICA. Renewed May 1, 1943, to Radio Corporation of America, New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

168,644. **EMPIRE.** VEGETABLE OIL FOR SALAD AND COOKING. Registered May 29, 1923. THE AMERICAN COTTON OIL COMPANY, Union Township, near Guttenberg, N. J., and New York, N. Y. Renewed May 29, 1943, to Lever Brothers Company, Cambridge, Mass., a corporation of Maine, assignee.

168,655. **VERMONT'S PRIDE.** SIRUP MADE FROM CANE AND MAPLE SUGAR. Registered May 29, 1923. VERMONT MAPLE SYRUP COMPANY, INC., Essex Junction, Vt. Renewed May 29, 1943, to General Foods Corporation, New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

168,722. **BORKIT.** ROLL CASES FOR CONTAINING AUGERS AND BITS. Registered May 29, 1923. THE IRWIN AUGER BIT COMPANY, Wilmington, Ohio, a corporation of Ohio. Renewed May 29, 1943.

168,723. **BORCASE.** BOXES FOR CONTAINING AUGERS AND BITS. Registered May 29, 1923. THE IRWIN AUGER BIT COMPANY, Wilmington, Ohio, a corporation of Ohio. Renewed May 29, 1943.

168,803. **SHELL GEAREX.** LUBRICATING OILS. Registered May 29, 1923. SHELL COMPANY OF CALIFORNIA. Renewed May 29, 1943, to Shell Oil Company, Incorporated, San Francisco, Calif., a corporation of Virginia, assignee.

168,954. **"SWEETHEART NOVIA" AND DRAWING.** TOILET SOAPS. Registered May 29, 1923. FRANK GAIUS BURKE, doing business as Manhattan Soap Company. Renewed May 29, 1943, to Manhattan Soap Company, Inc., New York, N. Y., a corporation of New York, assignee.

169,178. **LISK.** METAL CULINARY, HOUSEHOLD, AND DAIRY UTENSILS. Registered June 12, 1923. LISK MANUFACTURING COMPANY, LTD., Canandaigua, N. Y., a corporation of New York. Renewed June 12, 1943.

169,221. **INGERSOLL.** MILLING FIXTURES, MILLING-CUTTER GRINDERS, MILLING CUTTERS, AND MILLING MACHINES. Registered June 12, 1923. THE INGERSOLL MILLING MACHINE COMPANY, Rockford, Ill., a corporation of Illinois. Renewed June 12, 1943.

169,348. **COVADONGA.** CANNED FISH. Registered June 12, 1923. VAN CAMP SEA FOOD COMPANY, Los Angeles, Calif. Renewed June 12, 1943, to Van Camp Sea Food Co. Inc., Terminal Island, Calif., a corporation of California, successor.

169,450. **TROJAN.** ELECTRICAL MOTOR HORNS. Registered June 19, 1923. UNITED ELECTRICAL MANUFACTURING CO., Adrian, Mich. Renewed June 19, 1943, to Bersted Manufacturing Company, Fostoria, Ohio, a corporation of Ohio, assignee.

169,480. **FIFI.** SOAP. Registered June 19, 1923. COLGATE & COMPANY. Renewed June 19, 1943, to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware, assignee.

169,499. **KRISPEANUT.** SALTED PEANUTS, PEANUT CANDIES, AND PEANUT BUTTER. Registered June 19, 1923. LUMMIS & COMPANY, Philadelphia, Pa., a corporation of New Jersey. Renewed June 19, 1943.

169,757. **"FLORIENT" AND DRAWING.** PERFUMES, PERFUMED POWDERS, AND TOILET WATERS. Registered July 3, 1923. COLGATE & COMPANY. Renewed July 3, 1943, to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware, assignee.

169,781. **"COALINE" AND DRAWING.** SOAP FOR TOILET, BATH, LAUNDRY, AND ALL DETERGENT PURPOSES. Registered July 3, 1923. FRANK GAIUS BURKE, doing business as Manhattan Soap Company. Renewed July 3, 1943, to Manhattan Soap Company, Inc., New York, N. Y., a corporation of New York, assignee.

169,956. **PIN WHEEL CREPE.** COTTON PIECE GOODS. Registered July 10, 1923. COHN-HALL-MARX CO., New York, N. Y., a corporation of New York. Renewed July 10, 1943.

170,042. **FALLS CITY.** SHOVELS, SPADES, AND SCOOPS. Registered July 10, 1923. AMES SHOVEL & TOOL COMPANY, Jersey City, N. J., and Boston, Mass. Renewed July 10, 1943, to Ames Baldwin Wyoming Co., Parkersburg, West Virginia, a corporation of Delaware, assignee.

170,419. **OZ.** BOARD GAME PLAYED WITH MOVABLE PIECES. Registered July 17, 1923. PARKER BROTHERS, Portland, Maine, and Salem, Mass. Renewed July 17, 1943, to Parker Brothers, Incorporated, Salem, Mass., a corporation of Maine.

170,476. **HERO.** CERTAIN NAMED TOOLS AND IMPLEMENTS. Registered July 17, 1923. MARKT & HAMMACHER COMPANY, New York, N. Y., a corporation of New Jersey. Renewed July 17, 1943.

170,484. **NIGHT CAP.** COFFEE. Registered July 17, 1923. GEORGE GUND, doing business as Hygienic Coffee Company, Cleveland, Ohio. Renewed July 17, 1943, to General Foods Corporation, New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

170,642. **CON-O-LITE.** BURIAL VAULTS. Registered July 17, 1923. CON-O-LITE CORPORATION, Cortland, N. Y., a corporation of New York. Renewed July 17, 1943.

170,676. **"LUX" AND DRAWING.** SOAP AND SOAP POWDER. Registered July 17, 1923. LEVER BROTHERS COMPANY, Cambridge, Mass., a corporation of Maine. Renewed July 17, 1943.

170,707. **"TIP-TOP".** COFFEE. Registered July 24, 1923. DWINELL-WRIGHT COMPANY, Boston, Mass., a corporation of Massachusetts. Renewed July 24, 1943.

170,728. **SLOAN'S REST CURE ARCH RENEWER.** WOMEN'S SHOES OF LEATHER OR FABRIC OR A COMBINATION THEREOF. Registered July 24, 1923. CRADDOCK TERRY COMPANY. Renewed July 24, 1943, to Craddock-Terry Shoe Corporation, Lynchburg, Va., a corporation of Virginia, assignee.

170,794. **NUTRAVIT.** BREAD. Registered July 24, 1923. WARD BAKING COMPANY, New York, N. Y., a corporation of New York. Renewed July 24, 1943.

170,800. **SUPER.** BREAD, AND CEREAL BREAKFAST FOODS. Registered July 24, 1923. WARD BAKING COMPANY, New York, N. Y., a corporation of New York. Renewed July 24, 1943.

170,801. **SUPER-LOAF.** BREAD. Registered July 24, 1923. WARD BAKING COMPANY, New York, N. Y., a corporation of New York. Renewed July 24, 1943.

170,804. **"HARVEST KING" AND DRAWING.** BREAD. Registered July 24, 1923. LOUIS B. FELLNER, Belleville, Ill. Renewed July 24, 1943.

170,806. **JOSIE.** WHEAT FLOUR. Registered July 24, 1923. WABASHA ROLLER MILL COMPANY, Wabasha, Minn., a corporation of Minnesota. Renewed July 24, 1943.

170,816. **SYRAVITA.** A SUGAR PRODUCT CONTAINTAINING WATER-SOLUBLE VITAMINS. Registered July 24, 1923. WARD BAKING COMPANY, New York, N. Y., a corporation of New York. Renewed July 24, 1943.

170,820. **VAGABOND.** HATS FOR MEN, WOMEN, AND CHILDREN. Registered July 24, 1923. KNOX HAT COMPANY, INC., New York, N. Y. Renewed July 24, 1943, to Hat Corporation of America, Norwalk, Conn., a corporation of Delaware, assignee.

170,823. **CASTLE.** CANNED SAUERKRAUT. Registered July 24, 1923. CASTLE COMPANY, Lyons, N. Y., a corporation of New York. Renewed July 24, 1943.

170,827. **REPRESENTATION OF CAVALRY OFFICER ON A HORSE.** CHEESE. Registered July 24, 1923. F. X. BAUMERT & CO. INC. Renewed July 24, 1943, to The Borden Company, New York, N. Y., a corporation of New Jersey, assignee by mesne assignments.

170,894. **PAR-TEA.** CAKES. Registered July 24, 1923. WARD BAKING COMPANY, New York, N. Y., a corporation of New York. Renewed July 24, 1943.

170,900. **VITASYRA.** A SUGAR PRODUCT CONTAINING WATER-SOLUBLE VITAMINS USED IN THE MANUFACTURE OF BREAD, CAKE, ETC. Registered July 24, 1923. WARD BAKING COMPANY, New York, N. Y., a corporation of New York. Renewed July 24, 1943.

170,907. **"CAMPFIRE" AND DRAWING.** CANE AND MAPLE-SUGAR SIRUP. Registered July 24, 1923. NEW ENGLAND BREWING COMPANY, doing business as Haffenreffer & Co., Jersey City, N. J., and Boston, Mass. Renewed July 24, 1943, to Haffenreffer & Co., Inc., Boston, Mass., a corporation of Massachusetts, assignee.

170,918. **"THE WORLD'S BEST" AND DRAWING.** WAFERS AND CRACKERS. Registered July 24, 1923. CENTURY BISCUIT CO., Indianapolis, Ind., a corporation of Indiana. Renewed July 24, 1943.

170,923. **OUT-O-WALL.** REGISTERS FOR HEATING PURPOSES. Registered July 24, 1923. ROCK ISLAND REGISTER COMPANY, Rock Island, Ill., a corporation of Illinois. Renewed July 24, 1943.

170,938. **SUPERBRED.** BREAD. Registered July 24, 1923. WARD BAKING COMPANY, New York, N. Y., a corporation of New York. Renewed July 24, 1943.

171,113. **"VICTOR" AND DRAWING.** DRESSED POULTRY. Registered July 31, 1923. THE SEYMOUR PACKING COMPANY, Topeka, Kans., a corporation of Kansas. Renewed July 31, 1943.

REISSUES

MARCH 16, 1943

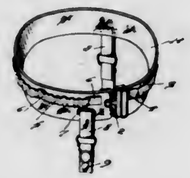
22,288

GIRDLE GARTER

Rosanne Linder, Upper Darby, Pa.

Original No. 2,223,216, dated November 26, 1940, Serial No. 263,102, March 21, 1939. Application for reissue September 18, 1942, Serial No. 459,067

5 Claims. (Cl. 2—313)



1. A device for holding down a body garment, comprising a non-elastic band of greater diameter at its top than at its bottom and having its inner face smooth and unobstructed and converging downwardly to conform to the contour of the thigh above the top of the stocking and to thereby have its upward movement on the thigh limited, and elastic strips extending circumferentially of the band and each secured at spaced points to the outer face of the band and being free thereof intermediate said points, and adapted to receive tabs depending from a body garment.

22,289

DISPLAY

Carl W. Otis, Menands, N. Y.

Original No. 2,174,446, dated September 26, 1939, Serial No. 51,952, November 27, 1935. Application for reissue September 5, 1941, Serial No. 409,754

8 Claims. (Cl. 40—130)



1. In a display device, a base, a transparent display tube carried by said base and containing a liquid, a heating device associated with the base for agitating said liquid, and a bored liquid displacing means positioned inside the display tube in close proximity to said heating means.

6. In a bubbling device, a pellucid tube containing a vaporizable liquid which is boiled during the operation of said device, said tube including a large reservoir for said liquid and a small reservoir for said liquid disposed wholly below said large reservoir, means to heat the liquid in said small reservoir, and means providing restricted communication between said reservoirs, said communicating means being disposed wholly below said large reservoir and wholly above said small reservoir, said communicating means having an open cross-sectional area normal to the direction of the flow of bubbles emanating from said small reservoir when said liquid is boiled, which said cross-sectional area is smaller than the cross-sectional area in said large and said small reservoirs normal to said direction of flow, so that the heat applied to said small reservoir will not be dissipated rapidly enough by circulation of said liquid between said large and said small reservoirs to prevent the liquid in said small reservoir from being brought to its boiling point.

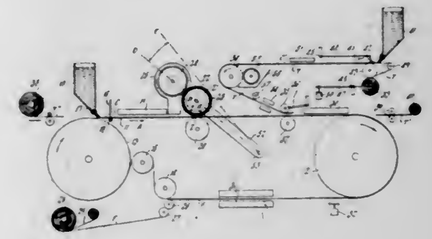
22,290

METHOD OF MAKING PERFORATE LATEX RUBBER FILMS WITH OR WITHOUT TEXTILE FABRIC BACKINGS

Merwyn C. Teague, Ridgewood, N. J., and Paul L. Mahoney, Jackson Heights, N. Y., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey

Original No. 2,289,151, dated July 7, 1942, Serial No. 369,476, December 10, 1940. Application for reissue January 27, 1943, Serial No. 473,740

15 Claims. (Cl. 18—57)



15. The method of making perforate latex rubber films comprising the steps of applying a coating of latex to a stretched elastic surface, extending pins through said coating while the coating is in a plastic and substantially non-elastic condition, removing said pins from said coating

while the coating possesses such viscosity that the openings produced thereby in said coating remain therein at ordinary conditions of pressure after the pins are removed, releasing at least some of the tension on said stretched surface and thereby contracting said coating, treating said coating to convert it into an elastic rubber film, and removing said film from said surface.

PLANT PATENTS

GRANTED MARCH 16, 1943

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

573
PLUM
Frederic W. Anderson, Merced, Calif.
No Drawing. Application November 19, 1941, Serial No. 419,697
1 Claim. (Cl. 47—62)

A new variety of plum tree as herein disclosed, characterized by producing fruit identical with the well known President Plum except that it ripens approximately two weeks later and thus prolongs the harvesting and marketing season of this standard variety.

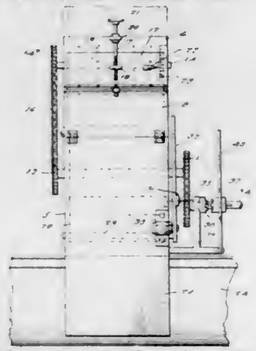
574
ROSE PLANT
Francis Meilland, Tassin-les-Lyon, France, assignor to The Conard-Pyle Company, West Grove, Pa.
Application May 14, 1942, Serial No. 442,958
1 Claim. (Cl. 47—61)

A new and distinct variety of rose plant of the hybrid tea class, characterized as to novelty by its compactness of growth and abundant foliage, together with the unique and striking color combination of both the blooms and foliage, substantially as shown and described.

PATENTS

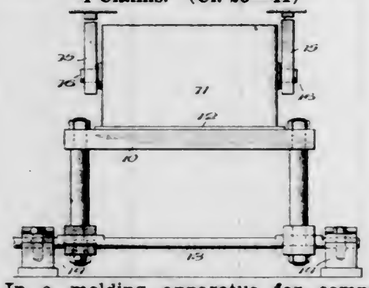
GRANTED MARCH 16, 1943

2,313,715
VOLUME METER AND SAMPLER
Albert Andlauer, Wilmington, Del.
Application October 10, 1941, Serial No. 414,513
4 Claims. (Cl. 73—21)



1. A feed meter of the character described comprising a case, an inlet at the top of the case, an agitator in the inlet, an overshot feed moving drum rotatably mounted in the case, a conveyor trough underlying the case and having communication with the interior thereof, a test box located adjacent the trough, and a gate for diverting feed from said drum either into the trough or the test box.

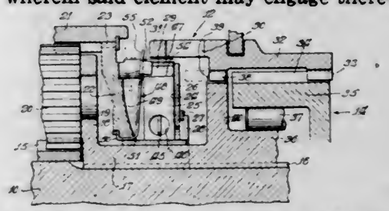
2,313,716
MOLDING APPARATUS
Charles W. Akers, Nashville, Tenn.
Application April 6, 1942, Serial No. 437,883
4 Claims. (Cl. 25—41)



1. In a molding apparatus for compacting material in a mold cavity, the combination of a mold box open at its top, a support on which said box is seated, means for vertically reciprocating and laterally rocking said support and box seated thereon, and co-operating guides and guideways at opposite ends of said box constituting the pivotal center on which the support and box is rocked and restraining lateral movement of said box and its support.

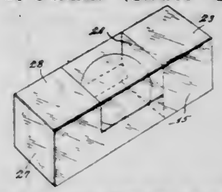
2,313,717
TRANSMISSION CONTROL
Kenneth M. Armantrout, Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application July 24, 1941, Serial No. 403,837
15 Claims. (Cl. 192—105)

2. In a centrifugal positive clutch including a centrifugal force responsive coupling element and a clutch member shiftable to and from a position wherein said element may engage therewith



to establish a drive, means rendered effective by shifting of said member away from said position, for holding said coupling element out of contact with said clutch member.

2,313,718
SHIPPING AND DISPLAY CARTON
Edward C. Berg, Chicago, Ill., assignor to Ace Carton Corporation, Cicero, Ill., a corporation of Illinois
Application August 28, 1939, Serial No. 292,207
10 Claims. (Cl. 206—44)
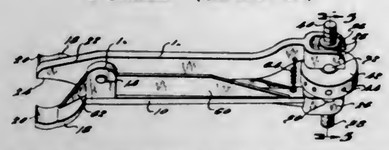


1. A shipping and display carton formed of sheet material comprising a plurality of spaced compartments having continuous bottom and side walls and individual top and end walls, each of said individual end walls having flap sections lying along said side walls within said spaced compartments, opposed end walls of said spaced compartments together with the continuous bottom and side walls thereof forming an open-top compartment therebetween, and the portions of said bottom and side walls which form said open-top compartment intermediate said spaced compartments having weakened portions for severing said carton into separate sections thereby to eliminate said open-top compartment and retain said spaced compartments in the form of separate and complete cartons.

2,313,719
MANUFACTURE OF ORGANIC SULPHITATION PRODUCTS
Leland James Beckham, Geddes, N. Y., assignor to The Solvay Process Company, New York, N. Y., a corporation of New York
No Drawing. Application January 19, 1942, Serial No. 427,327
11 Claims. (Cl. 260—513)

1. The process which comprises reacting the addition product of an organic compound containing at least one non-aromatic C=C linkage and an oxide of the group consisting of nitrogen trioxide and nitrogen tetroxide with an alkali sulphite.

2,313,720
BENDING TOOL
Richard Allan Blackwell, Dearborn, Mich.
Application April 25, 1940, Serial No. 331,519
3 Claims. (Cl. 153—38)



1. In a bending tool, a pair of lever members, spaced abutments carried by one of said members, a stud pivotally interconnecting said abutments and the other lever member, spaced jaw members carried by the member having the abutments, a single jaw member carried by the other lever member and positioned to lie intermediate the spaced jaw members, spaced abutments carried by each of the lever members remote from the jaw members, an actuating wheel having oppositely extending threaded members motion transmitting means engaging the threaded members and abutments, and resilient means interposed between the lever members adjacent said abutments to yieldingly maintain said abutments of the lever members in engagement with the motion transmitting means.

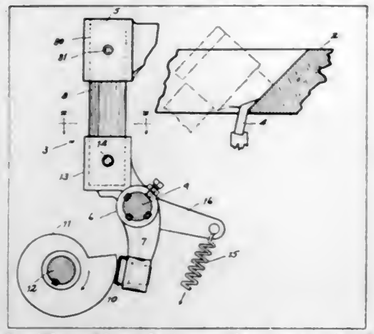
2,313,721
TOY GUN
Edward C. Borth, Watertown, Wis.
Application November 18, 1940, Serial No. 366,151
1 Claim. (Cl. 124—35)



A rubber band lock and release means for a toy gun comprising a frictionally controlled pivoted wheel having radial spokes merging into a hub forming rounded socket, a spring controlled pivoted trigger having a rounded nose for engagement with a hub socket, the nose being provided with an offset spoke engaging flat head portion, whereby the wheel is positioned and locked for the reception of a band upon its exposed spoke, the said spoke being held in its band receiving position against movement in either direction.

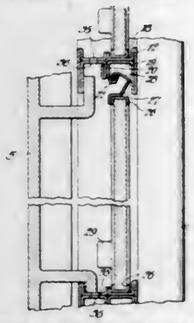
2,313,722
FORGING MACHINE
Linwood M. Brown, Pittsburgh, Pa., assignor to L. M. Brown, Inc., a corporation of Delaware
Application September 26, 1940, Serial No. 358,449
1 Claim. (Cl. 78—31)

In a forging machine including a die mounted for powerful and rapid reciprocation under the effects of a spring and a rotating cam, the invention herein described consisting of a die-reciprocating lever that includes in structure a pivotally mounted rocker member formed of relatively rigid material, said rocker member having an upwardly extending portion with a socket whose side walls are substantially parallel, and a downwardly extending arm adapted to co-operate with said cam, and a helve formed of relatively compressible and elastic material, said helve at one end carrying said die and at opposite end being compressed under a pressure of several thousand pounds in said socket and thereby



united with said socket member in a shock-enduring union.

2,313,723
CHANGEABLE LETTER SIGN
Benjamin H. Adler, Chicago, Ill.
Application June 13, 1940, Serial No. 340,330
14 Claims. (Cl. 40—140)



1. In a changeable display sign, a combination including a framework comprising uprights and spaced horizontal members attached to said uprights, a plurality of translucent panels removably supported by said framework, said horizontal members being channels having substantially an H-shaped cross-section, the upwardly facing channel thereof being adapted to receive the lower edge of a panel, the downwardly facing channel having a flange extending interiorly thereof, and flanges on the upper edges of said panels whereby to cooperate with said first named flanges to pivotally support said panels.

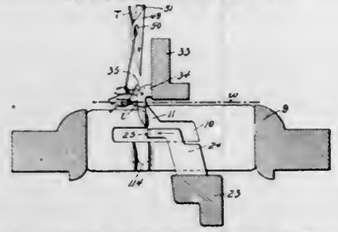
2,313,724
CHANGEABLE LETTER SIGN
Benjamin H. Adler, Chicago, Ill.
Application June 24, 1940, Serial No. 342,121
12 Claims. (Cl. 40—140)



5. In a changeable display sign, a framework

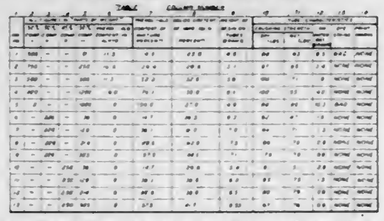
including uprights and spaced horizontal members attached to said uprights, translucent panels pivotally attached to said uprights, and letters removably supported by said horizontal members.

2,313,725
KNITTING MACHINE AND METHOD
Roy C. Amidon, St. Johnsville, N. Y., assignor to Vanity Fair Mills, Inc., a corporation of Pennsylvania
Application March 4, 1941, Serial No. 381,717
40 Claims. (Cl. 66—1)



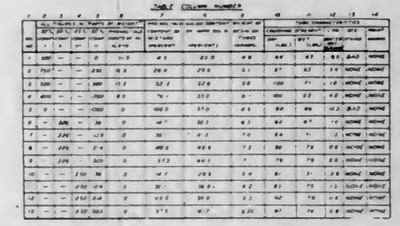
1. The method of knitting through woven fabrics, which comprises passing awls into the fabric to make openings in the same, passing threaded needles into said openings to carry thread below the fabric, looping the thread around the awls below the fabric and holding the loops open until a succeeding passage of needles through the fabric and loops occurs, then withdrawing the awls from the fabric to complete their cycle of operation, and shifting the needles in accordance with a pattern to be knit.

2,313,726
DYE-RESISTANT COATING COMPOSITION
Everett C. Atwell, Cranston, R. I., assignor to Atlantic Rayon Corporation, Providence, R. I., a corporation of Rhode Island
Application February 10, 1938, Serial No. 189,795
2 Claims. (Cl. 260—20)



1. Method for the preparation of coating compositions resistant to the operations of dyeing yarn thereon, comprising as steps heating, to reaction, alkyd resin reagents, comprising a polycarboxylic acid and a polyhydric alcohol, modifying the same during reaction by a member of the group consisting of unsaturated fatty acids and glycerides of drying and semi-drying oils, separately forming a resin by reacting a phenol containing a substituent of the group consisting of amyl and butyl radicals and having not more than two nor less than one of the reactive positions which are ortho and para to the hydroxyl in free condition with formaldehyde in the presence of an alkaline catalyst, heat reacting a portion of said unmodified phenolic resin with an ester gum, adding said ester gum modified phenol resin to said alkyd resin while the alkyd resin is still hot, mixing the product so formed with an additional amount of said unmodified phenolic resin in a common solvent to form a composition containing the alkyd and phenol resin components in the proportions of 75% to 15% and 25% to 85%, respectively.

2,313,727
COMPOSITIONS AND METHOD OF PREPARING AND APPLYING SAME
Everett C. Atwell, Cranston, R. I., assignor to Atlantic Rayon Corporation, Providence, R. I., a corporation of Rhode Island
Original application February 10, 1938, Serial No. 189,795. Divided and this application June 10, 1939, Serial No. 278,483
15 Claims. (Cl. 117—76)



10. A support for the dyeing or other fluid treatment of yarn in package form, being impregnated and having an outer coating comprising the reaction products of a partially condensed phenol aldehyde resin and a partially condensed alkyd resin in the presence of a drying oil fatty acid, in the proportions of 25% to 85% of the phenol aldehyde resin and 75% to 15% of the alkyd resin, respectively.

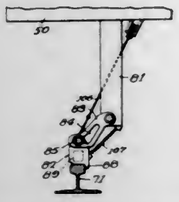
2,313,728
TANNING
Paul R. Austin and William E. Lundquist, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 6, 1941, Serial No. 413,834
22 Claims. (Cl. 149—5)

1. In a process for the treating of skins, the step comprising subjecting a skin to the action of a product of reaction of materials comprising maleic anhydride and an unsaturated aliphatic cycloaliphatic hydrocarbon having a six-membered cycloaliphatic ring with at least one open-chain substituent on the ring and containing at least one carbon-to-carbon double bond which may be either a part of the cycloaliphatic annular structure or in the open-chain substituent on the ring.

2,313,729
TRACK TESTING APPARATUS
Walter C. Barnes, Lake Bluff, Ill.
Original application June 8, 1935, Serial No. 25,586. Divided and this application December 13, 1939, Serial No. 309,208
20 Claims. (Cl. 175—183)

1. In rail flow detecting mechanism, a car adapted to travel along a track, a support attached to the car and having a portion thereof offset from the vertical plane which includes the longitudinal axis of the adjacent rail, a detector carriage associated with said support, a gauge member carried by the carriage for engaging the gauge edge of the rail, a detector mechanism on said carriage, means for raising and lowering the carriage with respect to the rail, said carriage when in operating position being substan-

tially centered with respect to said vertical plane, and means for mounting the carriage on the offset portion of the support so that at the instant the carriage strikes the rail when being lowered



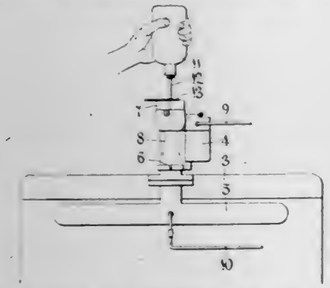
the gauge member on the carriage is yieldingly held inwardly of the gauge edge of the rail and as the lowering of the carriage is continued the gauge member is urged outwardly toward the gauge edge of the rail.

2,313,730

METHOD OF REMOVING CARBON DEPOSITS FROM INTERNAL COMBUSTION ENGINES

Ernest A. Boesing, Long Beach, Calif., assignor to Buffalo Electro-Chemical Company, Inc., Tonawanda, N. Y.

Application February 24, 1941, Serial No. 380,317
5 Claims. (Cl. 123—198)



1. A method of removing carbon, gum and other deposits from an internal combustion engine, comprising operating the engine under idling conditions and at substantially closed throttle, throttling the air inlet of the carburetor to cause the engine to operate at a substantially minimum speed, and while so operating introducing into said air inlet in a restricted period of time a quantity of concentrated solution of hydrogen peroxide.

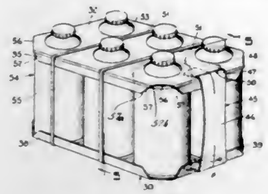
2,313,731

PACKAGE, PACKAGING CONTAINER, AND BLANK THEREFOR

Ernest M. Brogden, Orlando, Fla., assignor to president and directors of the Manhattan Company (sometimes known as Bank of the Manhattan Company), trustee, New York, N. Y., a corporation of New York

Application November 12, 1938, Serial No. 240,166
10 Claims. (Cl. 229—52)

1. A merchandise display and carrying container for consumer packages comprising a body of sheet material having substantially rectangular top and bottom sections and opposite end sections connected in series to form a tube having parallel open opposite sides, the body being provided with a handle extending substantially parallel to the sides and separably connected at each end to the body; each of said top and bottom sections having merchandise-retaining portions extending from the side margins thereof and over said opposite sides for a distance substan-



tially less than one-half the height of said sides, each of said portions being unconnected to any part of the container other than the side margin from which it extends.

2,313,732

HALOGENATED PREGNANOLONES AND PREGNANDIONES

Adolf Butenandt, Danzig-Langfuhr, Free State of Danzig, assignor, by mesne assignments, to Schering Corporation, Bloomfield, N. J., a corporation of New Jersey

No Drawing. Application August 3, 1935, Serial No. 34,599. In Germany August 4, 1934
4 Claims. (Cl. 260—397.3)

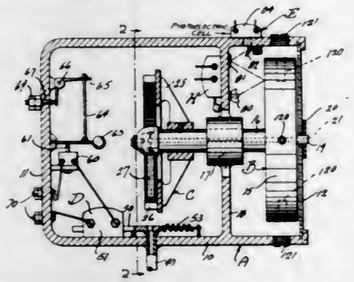
1. A pregnenol-3-one-20 which has been saturated by halogenation.

2,313,733

LEVELING DEVICE

Carl J. Crane, Dayton, Ohio

Application August 26, 1940, Serial No. 354,259
9 Claims. (Cl. 33—206)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



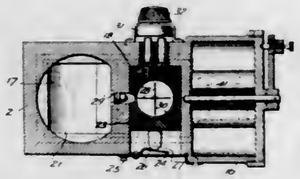
2. In a leveling device, a support, a balanced mass mounted upon said support for pivotal movement with respect thereto about a normally horizontal axis, reference indicia arranged in co-operative relationship on said mass and support to indicate the relative position of said mass and support about said axis, pendulous air jet means pivoted about an axis parallel to said first-named axis and vane means concentric with said jet means and connected with the mass, the air from the jet means impinging on the vane means and urging the mass to a preselected position with respect to the air jet means when the mass and air jet means move relatively about their axes in response to attitude changes of a vehicle or the like to which the leveling device is attached.

2,313,734

TEMPERATURE COMPENSATED BUBBLE FOR PANORAMIC SEXTANTS

Carl J. Crane, Shreveport, La., and Samuel M. Burka, Dayton, Ohio

Original application March 14, 1940, Serial No. 323,964. Divided and this application June 19, 1941, Serial No. 398,844
2 Claims. (Cl. 33—211)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A bubble-cell having means by which the size of the bubble may be changed at will, said means comprising an electrical heating circuit including a heating element within the cell and a rheostat for controlling the temperature of the heating element.

2,313,735

BEE COMB FOUNDATION

Henry C. Dadant and Roy A. Grout, Hamilton, Ill.

Application October 9, 1941, Serial No. 414,340
5 Claims. (Cl. 6—10)



1. In a honey comb foundation including a frame in which a wax sheet is mounted, said frame having a top bar provided with a rabbeted portion, the wax sheet having a wire embedded therein, said wire provided with a lateral offset at one end constituting holding means, an anchoring bar clamped around one edge of the sheet and provided with an offset portion receiving the offset portion of the wire, and an attaching strip having a slot to receive the offset portion of the anchoring bar.

2,313,736

FLUXING COMPOSITION

Francis J. Dashner, Oak Park, Ill., assignor to American Can Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application November 18, 1941, Serial No. 419,659
3 Claims. (Cl. 148—25)

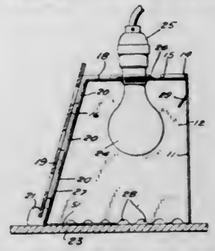
1. A liquid rosin flux composition for soldering the seams of can bodies and the like, having improved wetting and solder disseminating characteristics, comprising a resinous material dissolved in a petroleum naphtha solvent as a carrying vehicle.

2,313,737

DEVICE FOR VIEWING TRANSPARENT OBJECTS

William N. de Sherbinin, Mount Kisco, N. Y.

Application October 26, 1939, Serial No. 301,451
19 Claims. (Cl. 40—132)



10. A device for viewing transparent objects comprising a hollow box-like body having two cooperating, substantially opaque parts provided with means on adjoining edge portions of the parts for detachably securing the parts together to form the body, one part providing three hingedly connected side walls for the body and the other part providing a top wall and another side wall hingedly connected together, means connected with one of the walls of the body and constructed and arranged to engage and to support illuminating means disposed within the body, one side wall having an aperture through which light passes from the interior of the body, opposite side walls adjoining said one side wall of the body having portions extending outwardly beyond the outer face of said one side wall, and means on the outside of the body providing a support for the lower portion of a transparent object outside said one side wall and in alignment with the aperture therein and free of connection with said body, said object resting against the outwardly extending portions of said opposite side walls to space the object from said one side wall.

15. A device for viewing transparent objects comprising wall means forming a hollow body, the wall means having an aperture through which light passes from the interior of the body, supporting means on the outside of the body constructed and arranged to support a transparent object on the outside of the body in substantial alignment with said aperture, means connected with the body for supporting the device on the bulb of an electric light lamp with the bulb positioned within the body, and means connected to said body and arranged to engage said lamp to prevent tilting of the device.

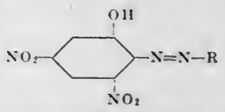
2,313,738

AZO DYE

Joseph B. Dickey and James G. McNally, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application September 19, 1939, Serial No. 295,648
2 Claims. (Cl. 260—193)

1. The azo dye compounds having the general formula:

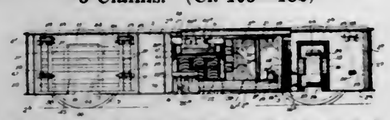


wherein R represents the residue of an acetoacetarylamide coupling component.

2,313,739
NAPHTHALENIC COMPOUND
Edward A. Doisy, Webster Groves, Sidney A. Thayer, Kirkwood, Stephen B. Binkley, Richmond Heights, and Ralph W. McKee, St. Louis, Mo., and Donald W. MacCorquodale, Highland Park, Ill., assignors to President and Board of Trustees of St. Louis University, St. Louis, Mo.
No Drawing. Application February 23, 1940, Serial No. 320,426
9 Claims. (Cl. 167—81)

1. A preparation useful for its antihemorrhagic properties comprising as an essential ingredient a solution of a 2-(lower alkyl)-4-amino-1-naphthol.

2,313,740
TRUCK CONSTRUCTION
Rupen Eksergian, Media, and Reuben H. Horton, John W. Morton, and Nils K. Skivesen, Philadelphia, Pa., assignors to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application January 6, 1940, Serial No. 312,636
8 Claims. (Cl. 105—182)



1. A wheel truck having sheet metal side frames, a sheet metal transom connecting the same, and a sheet metal bolster housed within said transom, each of said side frames comprising two generally vertical side walls which are transversely spaced from each other, said walls being provided with registering openings in the region of the transom, at least some of the walls of the transom extending through said openings and being connected to both walls of each side frame, said bolster having its bottom sloping upward near each end, to provide an inclined lower surface thereat, and resilient means bearing against said inclined surfaces and against the frames substantially in the interior of the latter, to support said bolster.

2,313,741
ORGANIC COMPOUND AND PROCESS OF MAKING THE SAME
Max Engelmann, Wilmington, Del., and Josef Pikl, Pitman, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 11, 1940, Serial No. 356,356
8 Claims. (Cl. 260—403)

5. Organic ethers of the general formula

$$R{-}CONH{-}CH_2{-}O{-}CH_2{-}PO(OM)_2$$

wherein R is a radical selected from the group consisting of aliphatic and cycloaliphatic radicals having not less than 7 carbon atoms and being free from water-solubilizing groups, while M stands for a member of the group consisting of hydrogen and cationic substituents.

8. An organic compound selected from the group consisting of amido-ethers of the general formulae

$$R{-}CO{-}\underset{\displaystyle R''}{N}{-}CH_2{-}O{-}R'$$

and

$$R{-}CO{-}\underset{\displaystyle CH_2}{\underset{|}{N}}{-}CH_2{-}O{-}R'$$
$$\vdots$$
$$R{-}CO{-}N{-}CH_2{-}O{-}R'$$

wherein R is an organic radical free from water-solubilizing groups and being attached to the CO-group through the agency of an atom selected from the group consisting of carbon, oxygen, and nitrogen, R'' is a member of the group consisting of hydrogen and alkyl, while R' is an organic radical having at least one aliphatic carbon atom and being attached to the O-atom through the agency of said aliphatic carbon atom and containing further a substituent selected from the group consisting of OH, COOH, SO_3H, $PO(OH)_2$, and functional derivatives of the same.

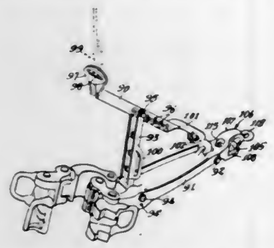
2,313,742
PROCESS OF TREATING TEXTILE FIBER
Max Engelmann, Wilmington, Del., and Josef Pikl, Pitman, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 24, 1940, Serial No. 358,138
9 Claims. (Cl. 8—116)

1. A process of treating textile fiber for the purpose of modifying the surface characteristics thereof, which comprises impregnating the same with an amido-methylol ether of the general formula

$$R{-}CO{-}\underset{\displaystyle R'}{N}{-}CH_2{-}OR''$$

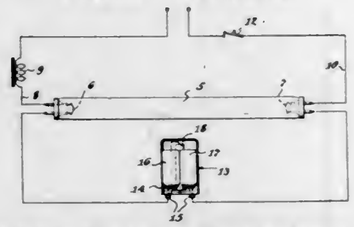
wherein R is an organic radical containing a chain of not less than 7 carbon atoms and being free from water-solubilizing groups, R' is a substituent of the group consisting of hydrogen and organic radicals free from water-solubilizing groups, and R'' is an organic radical which is free of quaternary nitrogen atoms and is attached to the O-atom through the agency of an aliphatic carbon atom; and then subjecting the impregnated fiber to the action of heat at a temperature between 90 and 200° C.

2,313,743
PIPE TONG
Herbert E. Grau and Chester A. Lundeen, Vernon, Calif., assignors to Byron Jackson Co., Huntington Park, Calif., a corporation of Delaware
Application April 15, 1940, Serial No. 329,598
16 Claims. (Cl. 255—35)



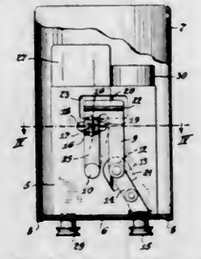
1. In a pipe tong, a tong head, a handle projecting laterally therefrom, and a hanger assembly comprising rigid arms connected to said handle and to each other, one of said arms having means for attachment to suspension means, said arms being adjustable relative to said handle into a plurality of operative positions to vary the longitudinal position of said attaching means relative to the tong, said arms also being adjustable into a collapsed position in relatively low overlying relation to said handle, and means for rigidly locking said arms in any of said positions including said collapsed position.

2,313,744
STARTING RELAY CIRCUIT FOR FLUORESCENT LAMPS
Robert F. Hays, Jr., Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 10, 1940, Serial No. 360,529
6 Claims. (Cl. 176—124)



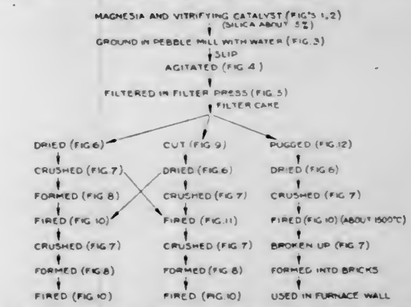
4. A starting relay for discharge lamps of the fluorescent type comprising a casing provided with contacts engageable with a socket, a glow switch disposed in said casing and having normally separated contacts adapted to close upon the occurrence of the glow discharge in said glow switch, and a thermal switch disposed in said casing having a heat-responsive element and provided with an electric heater operable by closure of the contacts of said glow switch to cause heating of said heat-responsive element with attendant operation thereof after the lapse of a predetermined period of time to interrupt current flow through said glow switch.

2,313,745
THERMAL SWITCH FOR FLUORESCENT LAMPS
Robert F. Hays, Jr., Bloomfield, N. J., and Charles H. Hodgkins, Fairfield, Conn., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 4, 1941, Serial No. 396,576
7 Claims. (Cl. 200—122)



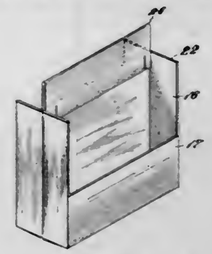
5. A thermal relay for starting discharge lamps of the fluorescent type comprising a base, a stationary contact carried by said base, a heat-responsive element having a portion anchored at one end to said base and another portion freely movable and having a contact affixed to the end thereof normally tensioned in engagement with said stationary contact, an electric resistance heater in juxtaposition to the anchored portion of said heat-responsive element for transmitting heat thereto to cause deflection of the anchored portion in one direction and movement of the other portion in an opposite direction with attendant separation of said contacts, and the contact-carrying portion of said heat-responsive element being movable in the same direction as said anchored portion when heated by the heat generated upon closure of said contacts under load to increase the contact pressure thereof with said stationary contact thus eliminating chattering.

2,313,746
PROCESS OF MAKING MAGNESIA CERAMICS
John Allen Heany, New Haven, Conn., assignor to Heany Industrial Ceramic Corporation, Rochester, N. Y.
Application October 16, 1937, Serial No. 169,354
15 Claims. (Cl. 25—156)



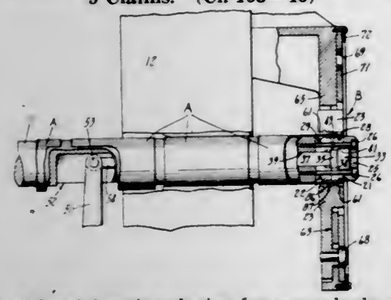
1. A method of forming dense, non-porous magnesia ceramics which comprises wet grinding the magnesia to a size of between 2 and 25 microns, forming and firing the ground magnesia, regrinding the fired product and then forming and firing the reground material.

2,313,747
DISPLAY BOX
Carl B. Holm, Englewood, N. J., assignor to International Braid Company, a corporation of Massachusetts
Original application September 18, 1939, Serial No. 295,363. Divided and this application August 20, 1940, Serial No. 353,325
1 Claim. (Cl. 206—44)



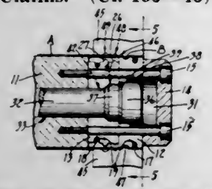
A generally rectangular display box having a bottom wall and upstanding side and end walls, one pair of upstanding opposite walls being slit at opposite points intermediate their ends, and said bottom wall being foldable along a lateral line to dispose the other pair of walls in adjacency for supporting the box upright on the said other pair of walls, a partition across said box at said fold line, when the bottom of the box is in a single plane, and formed of a separate piece of stock doubled on itself, means for securing the free edges of said partition to said bottom wall on opposite sides of said fold line, said partition extending above said fold line when the bottom wall of the box is folded back on itself, and disposing its opposite folded portions in substantially the same plane with the portions of the bottom wall to which the free edges are attached.

2,313,748
CAN MAKING MACHINE
John M. Hothersall, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application May 21, 1940, Serial No. 336,454
5 Claims. (Cl. 153—48)



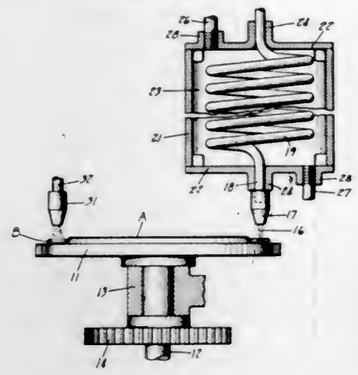
1. A bead forming device for a can body making machine, which comprises a mandrel for supporting a can body, a plurality of peripherally disposed segmental outside squeezer jaws surrounding said mandrel, rotary means for actuating said squeezer jaws, a double set of peripherally disposed segmental inside squeezer jaws located in contiguous relation within said mandrel, and means for first expanding one set of said inside squeezer jaws simultaneously with inward movement of said outside squeezer jaws for producing a bead section in said can body and for clamping said body against movement, said means further actuating the other set of said inside squeezer jaws in cooperation with said outside jaws for producing a second bead section in said can body closely adjacent said first bead section.

2,313,749
METHOD OF FORMING CAN PARTS
John M. Hothersall, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application May 21, 1940, Serial No. 336,455
2 Claims. (Cl. 153—48)



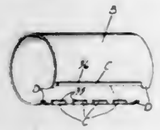
1. The method of forming adjacent bead sections in tubular can parts, comprising rigidly supporting the can part interiorly thereof while bending the can part material to form a bead therein by radially exerted opposed inward and outward pressure on opposite sides of the can part and drawing part of the stock material from one side of the formed bead, clamping the bead against movement, and immediately thereafter in the same beading movement bending the can part material to form a succeeding bead adjacent said first mentioned bead section by the application of further opposed radially exerted inward and outward pressure on opposite sides of the tubular can part while drawing the stock for said last mentioned bead from the can part material disposed on the opposite side of said last mentioned bead, whereby to insure against unduly stretching and weakening the stock material between said beads.

2,313,750
METHOD OF LINING CAN ENDS
John M. Hothersall, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application June 15, 1940, Serial No. 340,807
2 Claims. (Cl. 113—80)



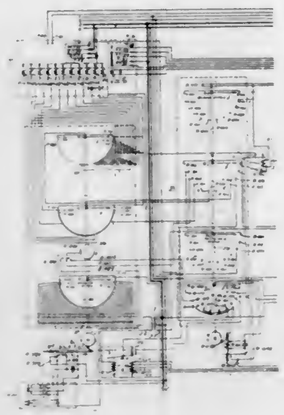
1. A method of lining can ends comprising flowing in molten form a thermoplastic lining compound containing no volatile solvents in the form of a relatively narrow raised ribbon to the flange portion of a can end while cooling said end for the reception of said compound thereon, the compound being adapted immediately to congeal and thereafter remain in a sufficiently plastic condition to spread and incorporate itself into a can and seam joint solely under the heat and pressure developed by the operation of seaming the end so lined to a can body, whereby to eliminate the necessity of first applying heat or otherwise evaporating volatile solvents in the lining compound prior to seaming the end so treated to the can body in a hermetic joint.

2,313,751
FLUXING DEVICE
John S. Hunter, Oak Park, Ill., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application May 23, 1941, Serial No. 394,946
5 Claims. (Cl. 113—95)



1. A flux applying mechanism for lock and lap side seam can bodies, comprising in combination, a flux applying wheel having a peripheral groove adapted to receive the inner and the outer surfaces of the side seam lock hook of a can body and to deposit flux thereon, said wheel also having an outwardly beveled peripheral portion of greater radius than the radial dimension of said groove extending beyond the hook of the can body for engaging against and depositing flux upon the side seam lap portions of the can body, and means for supplying liquid flux to the groove and to the said peripheral portion of said wheel for deposit onto the described side seam parts of the body.

2,313,752
AUTOMATIC PRINTING METERING SYSTEM
Titus G. Le Clair, Chicago, Ill.
Application April 13, 1938, Serial No. 201,787
21 Claims. (Cl. 234—5.5)



20. In apparatus for making a printed record of the varying characteristics of a plurality of devices, which characteristics it is desired to record at predetermined time intervals, said record being made by printing figures on a record sheet with said figures aligned in one direction to correspond with the different devices and in the other direction to correspond with predetermined time intervals, the combination of selecting means which selects the device to be measured, measuring means for measuring the varying characteristics in the devices as selected. type characters responsive to said measuring means for printing figures on said sheet which are a direct measure of the varying characteristics in the devices being measured, and feeding means responsive to the operation of said selecting means for causing relative motion between said type characters and said record sheet in two directions to position the figures for devices measured and times of recording.

2,313,753
METHOD OF TREATING MAGNESIUM AND ITS ALLOYS
William S. Loose, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application November 14, 1938, Serial No. 240,342
12 Claims. (Cl. 204—35)

1. The method of producing a protective coating upon articles of magnesium and magnesium-base alloys which consists in subjecting the article to the action of a bath comprising a fluoride selected from the class consisting of hydrofluoric acid, fluosilicic acid, hydrofluoboric acid, acid fluorides, and neutral alkali metal fluorides to form a coating on the surface of the article, and then subjecting the coated article to the action of a bath comprising water and an arsenic compound, whereby the fluoride-formed coating is altered to increase the corrosion resistance thereof.

2,313,754
METHOD OF PROTECTING MAGNESIUM AND ITS ALLOYS FROM CORROSION
William S. Loose, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application November 14, 1938, Serial No. 240,344
2 Claims. (Cl. 204—56)

2. In a method of forming a corrosion-resistant coating on the surface of articles of magnesium and its alloys, the step which comprises immersing the article in a water solution of from about 10 to about 35 per cent of fluosilicic acid at a temperature below about 40° C. for a time sufficient to form a coating thereon, and subjecting the article while so immersed to an anodic electrolysis.

2,313,755
METHOD OF PRODUCING PROTECTIVE COATINGS UPON MAGNESIUM AND ITS ALLOYS
William S. Loose, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application December 2, 1938, Serial No. 243,524
11 Claims. (Cl. 148—6)

1. In a method of producing a protective coating upon articles of magnesium and its alloys, the steps which comprise subjecting the article to the action of an aqueous solution containing a soluble salt selected from the group consisting of the alkali metal and ammonium salts of the oxy-acids of the elements chromium, molybdenum, phosphorus, selenium, titanium, tungsten, and vanadium, to form a coating on the article, and thereafter subjecting the coated article to the action of a bath comprising water and an arsenic compound to increase the corrosion resistance of the previously formed coating.

2,313,756
METHOD OF ELECTROPLATING MAGNESIUM
William S. Loose, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application March 1, 1939, Serial No. 259,287
2 Claims. (Cl. 204—32)

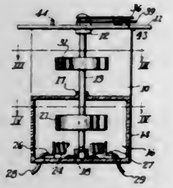
1. In a method of depositing an electroplate of a nickel group metal upon articles of magnesium and magnesium-base alloys, the steps which consist in subjecting the article to the action of an acidified aqueous etching solution containing a soluble chromate to produce a protective coating on the article, then subjecting the article to the action of a boiling aqueous solution of chromic acid, and then electrolyzing the article as cathode in an aqueous solution containing a soluble fluoride, an acid forming with the fluoride a complex fluo acid, and a soluble salt of the metal to be deposited.

2,313,757
VINYLIDENE CHLORIDE COMPOSITION STABLE TO LIGHT
Lorne A. Matheson and Raymond F. Boyer, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application September 19, 1940, Serial No. 357,405
8 Claims. (Cl. 260—80)

6. A composition of matter comprising a poly-

meric vinylidene chloride product, and, as a stabilizing agent therefor, an allyl ester of a dicarboxylic acid.

2,313,758
ELECTRIC METER
Norris Whitney Matthews, Caldwell, Ohio
Application February 11, 1942, Serial No. 430,405
6 Claims. (Cl. 171—34)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

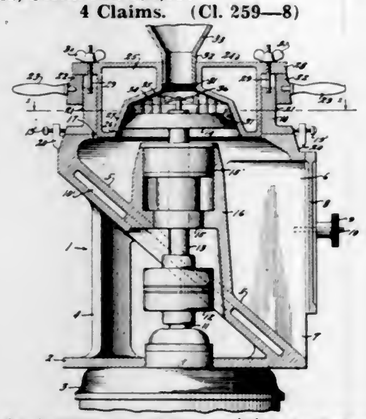


1. A continuous rating meter of the class described, comprising means connectable in an electric circuit for generating heat at a rate which is a function of the electrical load on one of a class of devices to be rated for said circuit, heat storage means for receiving heat from said heat generating means, said heat storage means having heat dissipation characteristics such that heat dissipates therefrom at a rate proportional to the rate at which heat dissipates from the device of the class to be rated for said circuit, the ratio between the heat generated and the heat dissipated being the same for the meter and for the device of the class to be rated for said circuit, an indicator, and means responsive to temperature rise in said heat storage means above ambient temperature for moving said indicator to indicate the continuous rating required for said device.

2,313,759
BITUMINOUS COMPOSITION AND METHOD OF MAKING THE SAME
Paul E. McCoy, San Francisco, Calif., assignor to American Bitumuls Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application August 7, 1939, Serial No. 288,845
14 Claims. (Cl. 106—277)

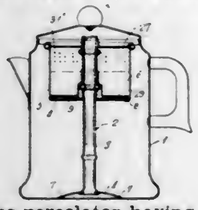
10. A process of making a bituminous composition of a mineral hydrophilic substance and a bituminous material free from added saponifiable and saponified material which comprises coating said mineral hydrophilic substance with said bituminous material and improving the adhesiveness of said bituminous material for said hydrophilic substance by dispersing in discontinuous phase throughout said bituminous material a relatively water-soluble and oil-insoluble heavy metal salt in an amount sufficient to strengthen the bond between said hydrophilic substance and said bituminous material against the deteriorating action of water, a sufficient proportion of said water-soluble oil-insoluble heavy metal salt being present in said bituminous material in unreacted form to improve said adhesiveness, and the hardness of said bituminous material containing said salt not being substantially affected by the presence thereof.

2,313,760
MIXING DEVICE
William A. McLean, Geneva, N. Y., assignor to Geneva Processes, Inc., Geneva, N. Y., a corporation of New York
Original application January 5, 1938, Serial No. 183,549. Divided and this application June 2, 1941, Serial No. 396,337
4 Claims. (Cl. 259—8)



1. An improvement in a mixing and emulsifying mill comprising a mixing chamber having walls, said mixing chamber being of frusto-conical shape, a rotor extending into said mixing chamber, said rotor being of frusto-conical shape and having a flat upper surface and sloping sides, an opening in the mixing chamber above the center portion of said rotor, a propeller rigidly mounted in the center of the rotor directly below the said opening, the vanes of said propeller being turned in a direction which enables it to distribute the material upon the rotor surface, two series of pins which progressively decrease in length mounted on the upper surface and extending down opposed sloping sides of the rotor, the longest pin of each series being positioned on opposite sides of the propeller adjacent the center of the rotor, and two series of pins mounted on the interior surface of the mixing chamber and extending towards the sloping surface of the rotor, the pins of each of said series decreasing progressively in length as they extend down the sloping interior of the mixing chamber, the last pin in each series being the shortest, and said pins being in staggered relationship in respect to the pins mounted on the sloping surface of the said rotor.

2,313,761
COFFEE PERCOLATOR
Joseph McMenamin, Philadelphia, Pa.
Application February 17, 1940, Serial No. 319,551
11 Claims. (Cl. 53—3)



1. In a coffee percolator having a central percolator tube, a coffee receptacle mounted adjacent the upper end of said tube and forming an annular space about said tube for the reception of coffee grounds, a perforated annular flange surrounding said tube and covering the bottom of said receptacle, for supporting on the upper side of said flange the entire body of coffee grounds received in said receptacle, a plurality of members depending from said flange and engaging the bottom of said receptacle to space said flange therefrom and to permit drainage of liquid through the bottom of said receptacle, a sleeve formed integrally with the inner edge of said annular flange and releasably secured to the tube for sliding movement relative thereto upon release therefrom, and a handle member formed on the upper end of said sleeve at a point above the level of coffee grounds received in said receptacle and providing a manual grip for withdrawing said flange and coffee grounds from said receptacle.

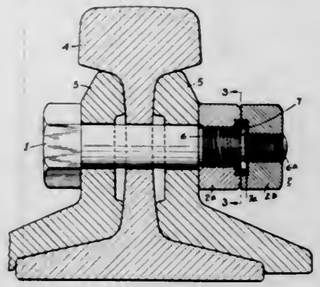
2,313,762
AUTOMATIC WELL TEST SEAL
Rollie Lawrence Midgett, San Antonio, Tex.
Application December 6, 1939, Serial No. 307,910
5 Claims. (Cl. 166—10)



1. In an automatic well test seal, a body including heads, one of said heads having a body member, a guide member carried by the body member, a stop sleeve carried by the body member, a stop sleeve carried by the guide member, said last-mentioned stop sleeve receiving the other of said heads in slidable engagement therewith, and a flexible sleeve extending about the body member, the guide member and first-mentioned stop sleeve and being secured to each of said heads, said flexible sleeve and said first-mentioned head being shiftable downwardly for expanding the flexible sleeve to contact the inner surface of a well for sealing said well, said second-mentioned head engaging the first-mentioned stop sleeve when the flexible sleeve is in expanded position.

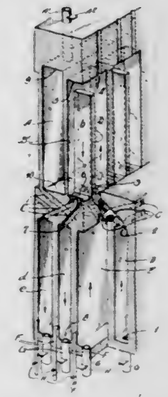
2,313,763
NUT ASSEMBLY
Louis E. Olsen, Cleveland, Ohio
Application December 24, 1941, Serial No. 424,225
2 Claims. (Cl. 151—15)

1. A nut assembly for engaging a screw threaded clamping element, comprising a pair of nuts in axial relation, the opposed faces of the nuts surrounding the openings therethrough being formed with concentric related recesses each undercut to provide an annular ledge, and a ring mounted in and loosely fitting said recesses and providing on its outer periphery with rims fitting into the undercut portions of said recesses, the spacing between walls of said undercut portions providing for limited axial movement between the nuts, whereby the outer nut may be tightened against the inner nut, but backing-off of the outer



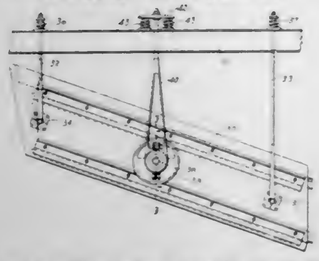
nut effects a binding relation between the ledges and rims to limit the latter movement.

2,313,764
METHOD OF OPERATING COKE OVENS
Carl Otto, New York, N. Y., assignor to Fuel Refining Corporation, Dover, Del., a corporation of Delaware
Application March 12, 1941, Serial No. 382,902
2 Claims. (Cl. 202—12)



1. In the operation of a coke oven battery having air and gas preheating regenerators beneath horizontally elongated coking chambers and heating walls alongside said chambers and including vertical heating flues, each connected at its lower end to one air preheating and one gas preheating regenerator and each connected at its upper end to one or more other vertical flues, whereby each of said vertical flues is adapted to serve as an upflow flue receiving preheated air and gas from the two regenerators connected to its lower end during periods which alternate with other periods in which said flue serves as a downflow flue discharging heating gases into the last mentioned regenerators, the method which consists in supplying combustion air and lean fuel gas to the regenerators connected to flues then serving as upflow flues so as to maintain gage pressures in the portions of the last mentioned regenerators adjacent and at the discharge sides of their respective inlets which are positive with a relatively low battery coking time.

2,313,765
GYRATORY SCREEN
Walter J. Parks, Shaker Heights, Ohio
Original application September 7, 1937, Serial No. 162,661. Divided and this application October 22, 1940, Serial No. 362,215
6 Claims. (Cl. 209—326)



1. In a gyrating screen mechanism, the combination of a supporting member, a screen frame resiliently and pendantly supported on said member by means of members so constructed and arranged as to transmit forces only in a substantially vertical direction, a drive shaft having oppositely disposed eccentrics thereon, one of said eccentrics being connected to said screen frame, a connecting rod having one end rotatably connected to the other of said eccentrics, and resilient means for connecting the other end of said connecting rod to said supporting member.

2,313,766
CONTAINER FOR PHONOGRAPH NEEDLES AND THE LIKE
Carl Pfanstiehl, Highland Park, Ill., assignor to Pfanstiehl Chemical Company, a corporation of Illinois
Application May 1, 1941, Serial No. 391,395
6 Claims. (Cl. 206—46)

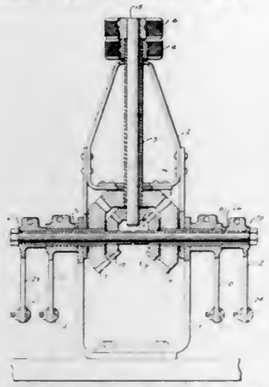


1. A package for elongated small objects comprising a relatively large thin transparent non-frangible bottom portion, a relatively small central cavity therein of substantially the size of the elongated object to be contained therein, a transparent thin non-frangible thermoplastic cover, a central cavity in the cover corresponding to the central cavity in the bottom portion, and means for positioning cover and bottom portions to bring the corresponding cavities into alignment.

2,313,767
HYDROLYSIS OF ALLYL HALIDES
Maxwell A. Pollack, Akron, and Albert G. Chenicek, Barberton, Ohio, assignors to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
No Drawing. Application November 22, 1940, Serial No. 366,727
4 Claims. (Cl. 260—640)

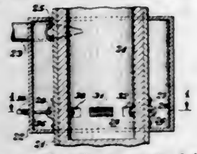
1. A method of preparing an unsaturated alcohol which comprises reacting at approximately atmospheric pressure and at a temperature not exceeding 100° C. an unsaturated halide, taken from the class consisting of allyl, methallyl, ethyl allyl and crotyl halides, with a basic acting agent in an aqueous medium containing a wetting agent present in amount sufficient to reduce the surface tension of the mixture to an amount not in excess of 60 dynes.

2,313,768
CONTROL LEVER
Donald L. Putt, Fairfield, Ohio
Application May 24, 1941, Serial No. 395,020
4 Claims. (Cl. 74—471)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



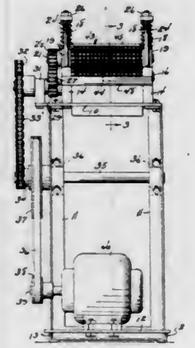
1. In a control system of the character described, a pair of differentials each including a pair of side gears and a connecting gear, the corresponding elements of each differential being arranged for rotation about common axes, a pair of transverse coaxial hollow shafts each respectively connected to the side gears of one of said differentials, a second pair of transverse coaxial shafts respectively telescopically arranged within said hollow shafts and connected respectively to the side gears of the other of said differentials, means including a yoke for rotatably mounting said differentials and transverse shafts for simultaneous rotation about the common axis of said shafts, a pair of vertically disposed telescoping shafts rotatably supported by said yoke, each of said last named shafts being secured to a respective one of said connecting gears, and control elements respectively associated with said transverse shafts and actuated thereby, whereby manual rotation of either of said vertical shafts differentially actuates a corresponding pair of said control elements while rotation of said differential units about the said common axis of said transverse shafts causes simultaneous actuation of all of said control elements.

2,313,769
APPARATUS AND METHOD FOR THE CONTROL OF AIR FLOW THROUGH FURNACE TUYÈRES
Herbert A. Reece, Cleveland Heights, Ohio
Application December 17, 1941, Serial No. 423,334
20 Claims. (Cl. 266—30)



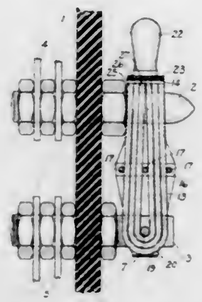
1. In a furnace having a wind box for supplying a blast of air to a plurality of tuyères, said wind box having an inlet adapted to communicate with a source of air blast and having outlets in communication with said tuyères, a plurality of yieldable resistors positioned at each of said outlets, respectively, to control the flow of air therethrough, each of said resistors yieldably resisting the air blast through a respective outlet to modify the relative velocity of the flow of air out of the outlets through the plurality of tuyères into the furnace.

2,313,770
POULTRY WING FEATHER STRIPPER
Joseph E. Ringrose, Redmond, Oreg.
Application September 3, 1941, Serial No. 409,403
5 Claims. (Cl. 17—11.1)



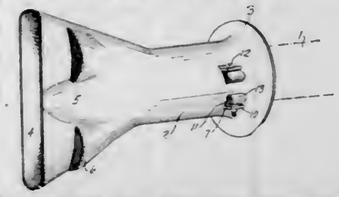
4. A poultry wing feather stripper, comprising a frame, a pair of yieldingly engaged rolls on the frame, both rolls being formed with spaced longitudinal grooves, the grooves of one roll being staggered relatively to the grooves of the other roll so that a groove of one roll will register with the cylindrical surface between two grooves of the other roll during rotation of the rolls, and means for rotating the rolls.

2,313,771
ELECTRIC SWITCH
Allen M. Rossman, Wilmette, Ill.
Application January 21, 1938, Serial No. 186,177
22 Claims. (Cl. 200—162)



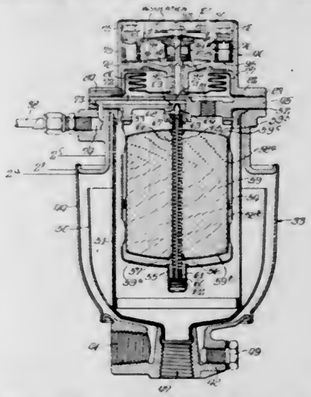
1. A switch blade comprising a plurality of U-shaped wires nested together with at least a portion of one of the U-shaped wires lying between the arms of another U-shaped wire, and means securing the nested wires in assembled relation.

2,313,772
EXHAUST PIPE SHROUD
Linus E. Russell, Springfield, Ohio, assignor to Peters & Russell, Inc., Springfield, Ohio, a corporation of Ohio
Application December 17, 1940, Serial No. 370,522
8 Claims. (Cl. 138—37)



8. An exhaust pipe extension unit including a neck portion engageable about an automobile exhaust pipe, a head portion extending therebeyond, a pair of relatively adjustable clamp members for engaging the unit with an exhaust pipe, adjusting means for said members, and a pair of stop tongues upon the unit extending intermediate the clamp members and yieldingly resisting the adjustment thereof, to subsequently limit movement of the unit relative to the clamp members.

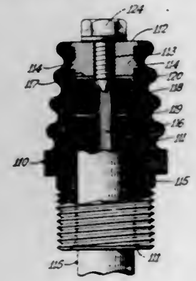
2,313,773
AIR ELIMINATOR
David Samiran, Fairfield, Ohio
Application May 16, 1940, Serial No. 335,646
13 Claims. (Cl. 137—69)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. An air-vapor eliminator for use in a fuel dispensing system comprising, a housing having a float chamber, a float mechanism disposed within said chamber, said housing having an air-vapor discharge passageway adjacent its upper end and fuel inlet and outlet openings adjacent its lower end, a valve seat in said air-vapor discharge passageway, valve means carried by the float mechanism and adapted to interact with said valve seat for effecting opening of said valve and thereby free discharge of air or vapor through said passageway upon low fuel and float mechanism level, said valve seat and valve means being both of metal presenting line contact with each other, and spring means between said float and valve for effecting seepage discharge of air or vapor through said passageway with the valve retained seated under the combined constraint of said spring and the buoyance of said float upon high fuel and float mechanism level and effect-

ing sealing of said valve seat against fuel flow therethrough when the level of fuel reaches said seat and provides a film of liquid between it and the valve means while the valve means is being retained against said seat under such combined constraint.

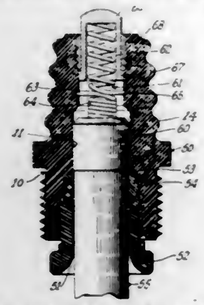
2,313,774
TERMINAL FOR ELECTRICAL CONDUCTORS
Lloyd H. Scott, Garden City, N. Y.
Application April 2, 1941, Serial No. 386,421
6 Claims. (Cl. 173—269)



1. A terminal for support and anchorage of an end of an insulated electrical conductor in a high tension ignition system comprising, in combination, an insulating bushing adapted to be detachably mounted on a member of a high tension ignition device and having a through bore provided with an internal shoulder, an electrode demountably positioned in one end of the bore, means limiting inward movement of said electrode into the bore, a cable having an end demountably positioned into the other end of the bore, said cable being of circular cross-section and having a core comprising separable conducting strands and a sheath of insulation cut off to expose the core at said end, and a conducting cap in conductive relation with said core at the mentioned end and provided with a part extending over the sides of said cable and engaging with its sheath to secure the same thereon, said cap having a centrally threaded bore and a portion in engagement with said shoulder, and said electrode having a correspondingly threaded shank in engagement with said threaded bore whereby the assembled cap and cable are drawn into fixed position against said shoulder in said bushing bore with said electrode in direct electrical contact with said core strands.

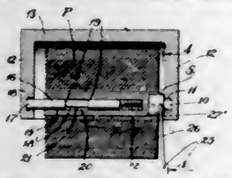
2,313,775
TERMINAL FOR ELECTRICAL CONDUCTORS
Lloyd H. Scott, Garden City, N. Y.
Original application April 2, 1941, Serial No. 386,421. Divided and this application July 30, 1941, Serial No. 404,582
6 Claims. (Cl. 173—269)

1. A terminal for insulated electrical conductors comprising, in combination, a terminal member, an insulating bushing, a conductor having an insulating sheath, said bushing having a central bore therethrough and being internally constricted in a plurality of regions to provide a corresponding number of shoulders of varying diameters therein, a conducting cap secured on said conductor and having a sliding fit into the space between a pair of intermediate shoulders, a fluid-sealing washer secured on said conductor, means in one end of said bore to force said washer into fluid-sealing engagement with an adjacent shoulder to anchor said conductor in said bore, said terminal member being movably disposed in the other end of said bore and provided with a stop cooperating with one of said shoulders for limiting the outward motion of said terminal member, and spring means mounted in said more conductively connecting said cap and



said terminal member and pressing the latter outwardly, said spring means having a portion of a transverse dimension slightly larger than the portion of the bore adjacent thereto firmly to engage a wall of the latter and anchor said terminal member and spring means in the bore.

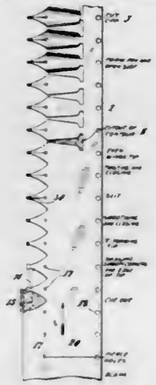
2,313,776
TOILET PAPER HOLDER
Samuel Segal, Brooklyn, N. Y.
Application December 4, 1940, Serial No. 368,553
13 Claims. (Cl. 242—55.2)



1. In combination, a spindle having a bore, a rod at least in part movably disposed in said bore, spring means within said bore for normally projecting a part of said rod outside of said spindle, a stud carried by said spindle, and a handle swingably mounted on and carried by said spindle for bodily shifting the latter relative to and longitudinally of said rod.

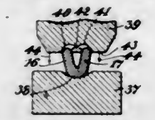
2,313,777
METHOD OF MAKING PENS
John A. Shea, Jersey City, N. J.
Application March 21, 1940, Serial No. 325,105
3 Claims. (Cl. 113—32)

1. In making of pens from a flat strip body of metal having parallel longitudinal sides and having spaced pierce holes and pilot holes, wherein said strip is subjected to a plurality of successive operations of dies as the strip advances step by step through the same with all the operations acting simultaneously and while the strip body is held at the pilot holes by the registration of the dies therewith, and in which said strip body at one longitudinal side thereof at one station has sufficient metal cut out to leave remaining a pen nib from tip to shoulder only in flat form in the same plane with the strip body, with said tip having lateral wings in the same plane as the nib, the extended nib being solid and integral with the strip body, the remainder of the strip body remaining longitudinally integral and unoperated upon from the shoulder to the opposite longitudinal side of the strip body; and in which while the nib still remains an integral part of the strip and the remainder of the strip from the shoulder to the opposite longitudinal side of the strip remains unoperated upon, the wings are bent along a line intermediate the same to a V shape, with the V having its apex at the face of the pen and the back of the pen being rounded opposite to the apex; the method which consists in molding said V-shaped wings to substantial parallelism and



compressing the same to smooth and harden the writing surfaces of the top and bottom of the wings under reduction of volume of the wings, and then shearing the metal between the wings along said apex from the tip to the pierce holes to separate the wings, said pen nib operations taking place upon the extended nib at the various stations progressively from station to station but under simultaneous operation of the dies, while the pen nib extends from and is part of the strip body and before the pen body is cut from the strip body.

2,313,778
METHOD OF MAKING PEN NIBS
John A. Shea, Jersey City, N. J.
Application February 28, 1940, Serial No. 321,218
3 Claims. (Cl. 113—32)
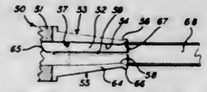


1. In the manufacture of a wing tip pen from a flat blank of metal having a tip and lateral wings extending longitudinally of the body of the blank, the back and face surfaces of the tip and wings being in parallel planes spaced apart the thickness of the metal, with the longitudinal axis of the tip and wings spaced intermediate said spaced planes, the step which consists in subjecting the face of the tip to a pressure along a single line parallel with said axis and centrally disposed on the face of the tip, simultaneously subjecting the backs of the wings to pressures laterally inwards, the back of the tip being unopposed by any pressure, all of said pressures acting to shape the flat tip and wings to a V shaped member, with the metal along said bend line on the face compressed and the metal on the back of the tip extended, then subjecting the back of said tip and wings to pressures moving the wings towards each other to substantial parallelism, and at the same time subjecting each of the free ends of the wings to a pressure towards its base and the bent tip common to both wings to a pressure towards each end of the wings, for compressing the material of the wings.

2,313,779
PEN NIB AND METHOD OF MAKING SAME
John A. Shea, Jersey City, N. J.
Application February 28, 1940, Serial No. 321,217
2 Claims. (Cl. 113—32)



1. In the method of manufacturing finished winged pens from a blank strip of metal having laterally extending wings in the plane of the nib, the step which consists in subjecting the contour corners and edges of the wings along their entire contour of each of the pen nibs while the wings are in the plane of the nib, to the action of equal compression forces around the entire contour only, the body of the metal within the contours remaining without deformation, to equally smooth, round and harden said contour only, the intensity of compression of the metal along the entire contour being determinative of the character of the writing tip of each of the pen nibs when the wings are bent to writing position for the writing of fine, medium or coarse lines.

2,313,780
DUCTILE TUBING CONNECTOR
Robert E. Snyder, Pasadena, Calif., assignor to Snyder Research, Inc., a corporation of California
Application March 29, 1940, Serial No. 326,699
8 Claims. (Cl. 285—122)

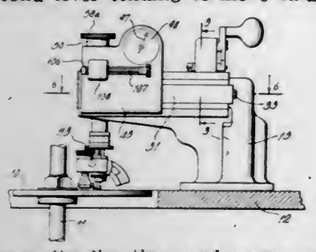


6. A fluid conductor comprising in combination a tube subject to flexure, a connector interposed therein, said tube being less stiff than said connector whereby flexure of said conductor tends to concentrate stress in said tube adjacent the juncture thereof with said connector, and means for distributing such stress throughout a material length of said tube comprising a plurality of resilient fingers mounted upon said connector and extending therefrom along said tube in encircling relationship therewith, said fingers being formed with their outer ends in convergent relationship to a diameter less than that of said tube whereby they are caused to spread when said tube is thrust therebetween to increase the intimacy of their contact with said tube when in assembled relationship therewith.

2,313,781
POLISHING MACHINE
Leopold H. Sterne, New York, N. Y., and Winfred N. Lurcott, Elizabeth, N. J.; said Lurcott assignor to said Sterne
Application November 18, 1941, Serial No. 419,536
18 Claims. (Cl. 51—122)

1. In an apparatus of the character described, a casing, a member slidably supported by said casing, a first and a second lever pivoted in said casing, interconnections between one end of each

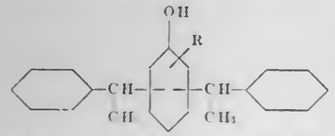
lever and said member, means applying force to said first lever tending to move said member in one direction, means applying a greater force to said second lever tending to move said member



in the opposite direction, and means actuatable upon predetermined extent of movement of said first lever to render inoperative said greater force-applying means.

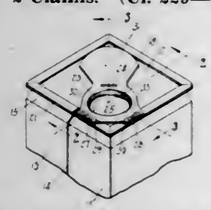
2,313,782
SUBSTITUTED PHENOL
Fred Lowell Taylor and John E. Livak, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application October 31, 1941, Serial No. 417,317
5 Claims. (Cl. 260—619)

1. A substituted phenol having the general formula



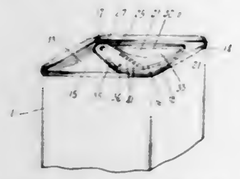
wherein R represents a substituent selected from the class consisting of the aryl and aralkyl radicals, and the α-phenylethyl substituents occupy two of the positions ortho and para to the hydroxyl group.

2,313,783
CONTAINER
Russell C. Taylor, Greenwich, Conn., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application September 26, 1939, Serial No. 296,699
2 Claims. (Cl. 229—7)



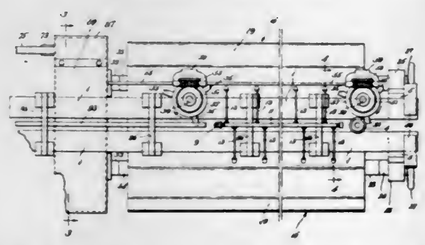
1. A tamper-proof fibre container for liquids, comprising a leakproof tubular fibre body, portions of said body adjacent an end being bent obliquely inwardly, then bent horizontally outwardly in relatively sharp corners and thence horizontally inwardly in spaced relation to the said horizontal outward wall to form an end closure support shoulder and a receiving channel, a substantially flat fibre end closure member for said tubular body having its outer annular marginal edges adhesively secured in the said end receiving channel to form an end joint, said end member having a dispensing opening disposed adjacent one corner of the container, and a hinge closure member secured to said end closure member on one side of said dispensing opening to close and seal the latter, said hinge closure member having edge portions thereof extended outwardly over and stapled to the end joint on adjacent sides of said dispensing opening and on opposite sides of said end closure member receiving channel, to seal the latter circumferentially thereof, said edge portions having weakened sections disposed inwardly of the stapled joint and designed to be torn away when the hinge closure is removed in opening the sealed container, whereby to leave the stapled parts of said hinge closure edge portions adjacent the dispensing opening as visual evidence that the container has been opened.

2,313,784
CONTAINER
Edward O. Then, Newark, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application October 5, 1939, Serial No. 298,133
2 Claims. (Cl. 221—62)



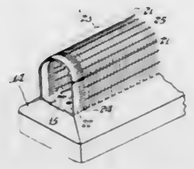
1. A dredge top can comprising a can top end member having an upstanding seam surrounding a countersunk section and also having a substantially triangular depressed panel in the countersunk section provided with a dispensing area, and a slide member disposed in said depressed panel having pivotal connection at one end with a wall of said panel adjacent a corner of the container end member for swinging movement over and relative to said dispensing area, the free end of said slide member opposite its pivotal connection being confined against vertical displacement within a channel recess formed in an upstanding boundary wall of said depressed panel.

2,313,785
BOBBIN STRIPPER
Harold R. Turner, Greenville, S. C.
Application December 28, 1938, Serial No. 248,025
12 Claims. (Cl. 28—19)



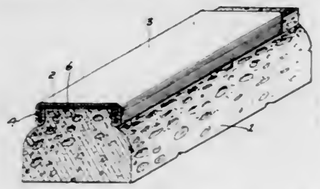
1. A bobbin stripper having in combination spaced tracks supporting the bobbins by their head ends in pendent tip downward relation, means unwinding the waste yarn over the tips of the bobbins while thus suspended, and a bobbin-propelling element moving along the tracks engaging only one bobbin at a time and through such engagement propelling such bobbin and other preceding bobbins along the tracks for a few inches only and thereafter allowing all bobbins thus propelled to stand still while the yarn is being unwound over the tips of the bobbins.

2,313,786
ELECTRIC HEATER
Gerrit Van Daam, Buffalo, N. Y.
Application May 28, 1941, Serial No. 395,585
3 Claims. (Cl. 219—38)



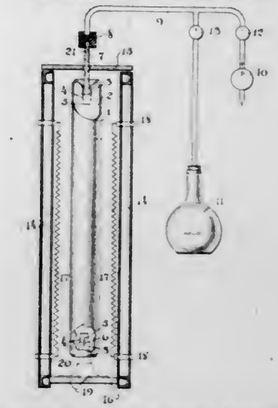
1. In an electric heater, the combination of means forming a housing having outer walls and inner walls spaced therefrom and providing air passages between said walls and leading upwardly from near the bottom of the housing and discharging near the top thereof, a heating element supported within the housing and evenly spaced from enclosing walls of the housing, said heating element consisting of a sheet-like body formed of a resistance strand having parallel strand-extensions and cross-extensions of insulating material for holding the resistance strand-extensions in spaced apart relationship, said fabricated sheet-like body then bent transversely of the resistance strand-extensions to form a tunnel-like structure open at the bottom, and a heating element supporting frame associated with the bottom of the housing and having a central opening for delivering air to the interior of the tunnel-like formation.

2,313,787
CLEANING DEVICE AND METHOD OF MAKING SAME
Sidney P. Vaughn, Ackerman, Miss.
Application September 11, 1940, Serial No. 356,301
6 Claims. (Cl. 15—269)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



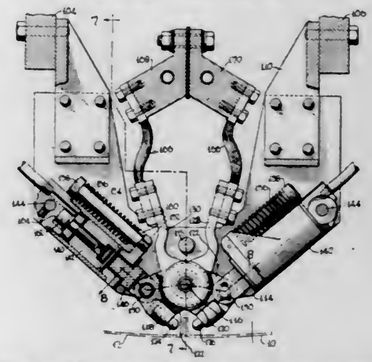
4. In a cleaning unit, a block of initially uncompressed spongy material and a U-shaped chanel member, the bight of said U being of substantially no greater width than the width of the base of the initially uncompressed block of spongy material, the legs of said U being folded inwardly and downwardly to grip only the adjacent corners of the base of the block of spongy material between such legs and the bight of the U, with a major portion of the sponge remaining in an uncompressed condition.

2,313,788
LAMP EXHAUST METHOD
Walter H. Van Dyke, Peabody, Mass., assignor to Sylvania Electric Products Inc., a corporation of Massachusetts
Application November 8, 1941, Serial No. 418,375
3 Claims. (Cl. 176—2)



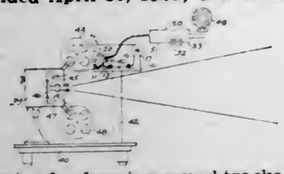
2. The method of evacuating and gas-filling an elongated glass envelope having one or more filamentary electrodes and a mercury bomb sealed therein, and a tubulation projecting from an end thereof, said method comprising: heating said mercury bomb sufficiently to free the mercury enclosed therein; heating the envelope to diffuse the mercury; exhausting the glass envelope; condensing said vaporized mercury on the walls of said tubulation; and introducing a filling of an inert gas into said elongated glass envelope to sweep the condensed mercury back into the glass envelope therewith.

2,313,789
WELDING APPARATUS
William A. Weightman, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Co., Philadelphia, Pa., a corporation of Pennsylvania
Application December 7, 1940, Serial No. 369,007
9 Claims. (Cl. 219—4)



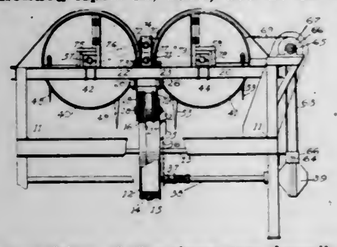
9. In a welding gun support, a pair of welding electrodes pivoted to said support for pivotal movement to and from each other, electrode actuating means for each of said electrodes, each actuating means comprising a motor secured to said support and operative to move one of said electrodes toward the other.

2,313,790
APPARATUS FOR RECORDING AND REPRODUCING SOUND
Charles A. Wickliffe, Washington, D. C.
Application May 24, 1940, Serial No. 336,941
3 Claims. (Cl. 274—46)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A device for forming sound tracks on motion picture film comprising, a base, an arcuately shaped film track mounted on said base, adapted for the movement of film thereon, a laterally adjustable, arcuately movable tone arm mounted on said base, a recording and reproducing head positioned at the extremity of said tone arm, so that its reproducing and recording stylus contacts said film, an L-shaped bracket supporting a tubular solvent reservoir, provided with a downwardly projecting wick, said bracket adapted to be mounted at points along said tone arm so as to vary the spacing between said wick and said stylus.

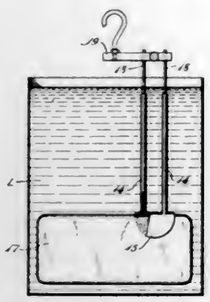
2,313,791
DESEEDING AND CLEANING MACHINE
Max C. Widger, Corvallis, Oreg.
Application September 11, 1940, Serial No. 356,306
1 Claim. (Cl. 130—13)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



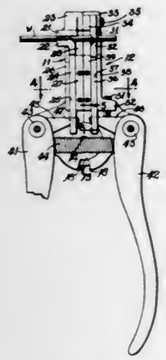
In a machine of the character described having a wheel rotatably mounted and means associated with a portion of the periphery of said wheel for gripping plant stalks, drums straddling said wheel, stationary shafts rotatably supporting said drums, a plurality of combs carried by said drums to act successively upon the ends of grain stalks held on said wheel, said combs being in parallel planes, and positive means between said shafts and said combs for maintaining said combs at a constant angle with respect to the grain stalks.

2,313,792
METHOD OF MAKING BLOOD PRESSURE BAGS AND OTHER ARTICLES
George L. Winder, Cuyahoga Falls, Ohio, assignor to American Anode Inc., Akron, Ohio, a corporation of Delaware
Application August 17, 1940, Serial No. 353,145
6 Claims. (Cl. 18—58)

6. The method of making a hollow rubber article having a communicating tube extending therefrom, which comprises producing a tube assembly of rubber material comprising a tubular member and a flaring reinforcing element continuous therewith, and depositing rubber material from a liquid rubber composition to produce a hollow body in part in contiguous relation with the flaring reinforcing element and thereby to associate the tube assembly with the hollow body.

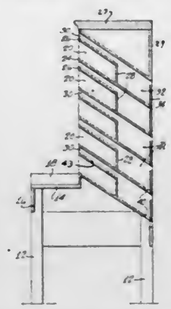


2,313,793
WIRE STRIPPING TOOL
Stuart G. Wood, Rockford, Ill.
Application February 16, 1940, Serial No. 319,272
7 Claims. (Cl. 81—9.5)



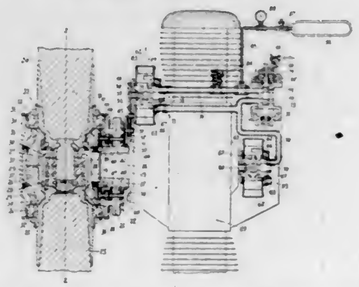
1. A tool for stripping insulated wire comprising, in combination, a pair of elongated jaws arranged in side-by-side relation and pivoted together adjacent one end, wire clamping means on one jaw including a stationary shoe, a bar slidably disposed in a groove extending longitudinally of the jaw and having at one end a shoe adapted to cooperate with said stationary shoe, wire stripping means on the other jaw including a stationary blade, a bar slidably disposed in a groove extending longitudinally of the other jaw and having at one end a blade adapted to cooperate with said stationary blade, a pair of hand levers pivoted respectively on said jaws, means connecting said hand levers and said bars operating when the levers are pressed together to first advance said bars and then to swing the jaws apart, and means for retaining said bars in their respective grooves comprising a cover plate constructed in two sections, each secured to one of the jaws in a position to cover the groove therein, said cover sections being connected together for pivotal movement on an axis coincident with the pivotal axis of the jaws.

2,313,794
SORTING CASE
Lloyd Emil Yates, St. Louis, Mo.
Application June 17, 1941, Serial No. 398,463
5 Claims. (Cl. 211—10)



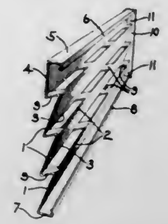
2. A sorting case provided with front compartments opening on the face thereof, rear compartments behind the front compartments, said front compartments being provided with opposed sides and a sloping top and bottom, a continuation of the sloping bottom forming the bottom of one rear compartment and top of another rear compartment, a sloping passage formed between vertically adjacent front compartments by the space between the bottom of one front compartment and top of the front compartment below said passage leading to a rear compartment.

2,313,795
VARIABLE PITCH AIRSCREW
Grettir Algarsson, Montreal, Quebec, Canada, assignor to Algarsson Engineering Company Limited, Montreal, Quebec, Canada
Application August 12, 1938, Serial No. 224,449
In Canada June 20, 1938
16 Claims. (Cl. 170—163)



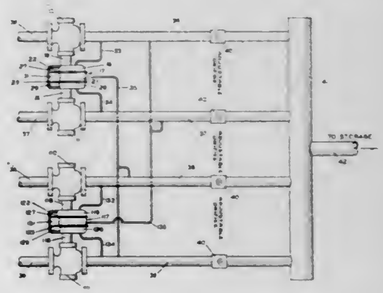
1. In a variable pitch airscrew of the kind in which the blades of the airscrew are connected together to effect equality of pitch setting, a counterweight nearly balancing the aerodynamic and other forces acting on each blade, a gear train capable of transmitting rotation from either end and connected at one end with the airscrew blades, a statically mounted torque producing mechanism connected with the other end of said gear train for pitch changing movement of the blades, said gear train containing a reducing gear carried by the hub and giving the torque producing mechanism a mechanical advantage over the airscrew blades, and means to control said mechanism to vary the torque produced both in magnitude and direction to effect increase or decrease of pitch setting of the airscrew blades.

2,313,796
WINDOW VENTILATOR
Truman L. Atkinson, Ludington, Mich.
Application November 12, 1940, Serial No. 365,250
2 Claims. (Cl. 98—99)



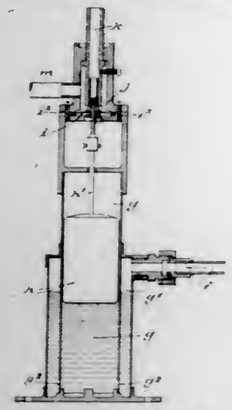
1. An adjustable window ventilator comprising two or more similar members, each member including a plurality of angularly disposed elongated slats, the upper edge of each slat being spaced rearwardly from and above the lower edge of the slat next above it, horizontally spaced apart webs connecting said edges together, and channels at the upper and lower edges of each member of such size as to interlock so that said members will be slidable one within the other and the corresponding slats and webs of each member will slide adjacent each other.

2,313,797
BLENDING APPARATUS
Roy E. Bailey, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application July 1, 1941, Serial No. 400,703
6 Claims. (Cl. 137—165)



1. In a system for equalizing the pressure of fluids flowing through a plurality of conduits which communicate with a receptacle, the combination comprising a pair of housings, each housing including a pair of end walls, and a pair of movable partitions spaced from each other and from the end walls to divide the interior of the housing into a pair of end compartments and a compartment intermediate the partitions, means for establishing communication between each end compartment of the housings and a corresponding conduit, means for establishing communication between the compartment intermediate the partitions in each housing and the conduits communicating with the end compartments in the other housing, and means responsive to movement of each partition for controlling the flow of fluid through a corresponding conduit.

2,313,798
VALVE FOR STEAM-HEATED CABINETS
Edward Banks, Jr., Menston, England
Application May 8, 1939, Serial No. 272,509
In Great Britain May 19, 1938
1 Claim. (Cl. 137—153)



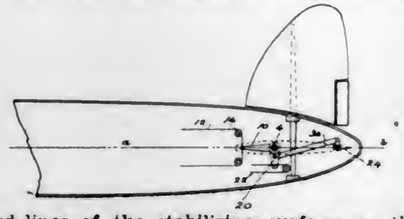
A float controlled valve for a fluid conduit comprising a float chamber, a float in said chamber, a valve stem carried by said float and extending vertically above the same, a valve body, fluid inlet and outlet conduits opening into said valve body, said body including a valve seat receiving the upper end of said valve stem to close said valve, the liquid level in said chamber normally being such as to maintain said valve open, means for raising said liquid level to actuate said float to close said valve, said valve body comprising a vertical fluid passage directly connected to said inlet conduit, said valve stem being slidable in said passage, said passage having a lateral outlet in direct communication with said outlet conduit, said stem being operative to close said lateral outlet when said stem is raised by said float, and a leakage chamber surrounding said stem below the lateral outlet, said leakage chamber being in direct communication with said outlet conduit.

2,313,799
COATING COMPOSITION
James B. Bullitt, Jr., Swarthmore, Peter B. Evans, Wynnewood, and Horace H. Hopkins, Swarthmore, Pa., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 27, 1940, Serial No. 354,382
6 Claims. (Cl. 260—22)

1. A coating composition comprising an alkyd resin modified with a compound having the acid radical of an oil having drying properties and an organic oxide selected from the class consisting of cyclohexene oxide, isobutylene oxide, naphthene oxide, pentene oxide, and hexene oxide, said oxide being present in amount between 0.5 and 7.5 per cent of the composition.

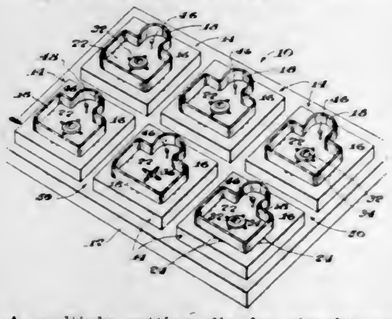
2,313,800
AIRCRAFT CONTROL
Richard H. Burroughs, Jr., Oakland, Calif.
Application March 27, 1940, Serial No. 326,118
5 Claims. (Cl. 244—82)

1. In an aircraft: a pair of entire stabilizing surfaces mounted pivotally one on each side of the fuselage and arranged to rotate about their pivot synchronously, the said stabilizing surfaces being pivoted at a point which is adjacent and always ahead of the center of pressure; pilot operable means for rotating the stabilizing surfaces about their pivot, the said means being such as to allow of the movement of the said surfaces by the pressure of the air; a tab hinged to the trailing edge of each of the stabilizing surfaces; link means consisting of an arm pivoted adjacent the stabilizer pivot and projecting below the plane of the chord-line of the stabilizing surfaces; a second lever arm attached to the tab pivot and projecting above the plane of the chord-lines of the stabilizing surfaces; a link pivoted at one end to the first lever arm and at its other end to the second lever arm and crossing the plane of the



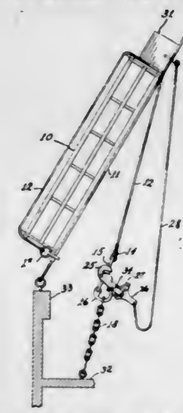
chord-lines of the stabilizing surfaces so that when the said stabilizing surfaces shall be deflected from their natural angle of attack the tabs shall be automatically deflected in the same direction to counteract the stabilizing surface deflecting force; pilot operable means connected to the first arm of the link-motion to swing the said arm on its pivot to change the position of the second arm relative to the plane of the chord-lines of the stabilizing surfaces; and means mounted on the first arm of the link-motion to change the position of the link pivot on that arm with relation to the position of the arm pivot to adjust the range of the effective movement of the link and of the tab upon any change in the angle between the first arm and the plane of the chord-lines of the stabilizing surfaces.

2,313,801
CUTTING DIE
Kenneth W. Carll, Boston, Mass.
Application December 3, 1941, Serial No. 421,429
2 Claims. (Cl. 164—18)



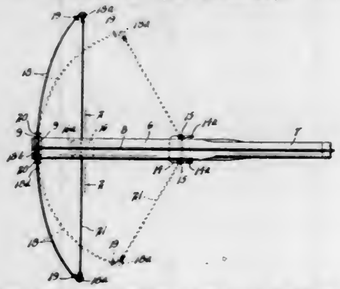
1. A multiple cutting die for simultaneously cutting a plurality of spaced portions from a printed sheet in registry with the printing on said sheet, said die comprising a base member, a plurality of individual cutting members mounted on one surface of said base member, each of said cutting members including a supporting block provided with an endless saw kerf extending entirely through said block to provide an inner cut out portion and an outer portion, a thin metallic cutting blade positioned in said saw kerf between said inner cut out portion and said outer portion and gripped between said portions, said cutting blade having its base portion bearing against said surface of said base member and having a sharpened edge extending beyond said supporting block to form a closed cutting element, said cutting members each being mounted on said base member for limited movement along said surface of said base member to provide for registering said cutting elements with the printing on said printed sheet and means for rigidly securing said cutting members in registered position to said base member.

2,313,802
SAFETY RAFT SLIP LOCK
Johan Frederik Carlsen, Brooklyn, N. Y.
Application October 31, 1942, Serial No. 464,022
5 Claims. (Cl. 9—23)



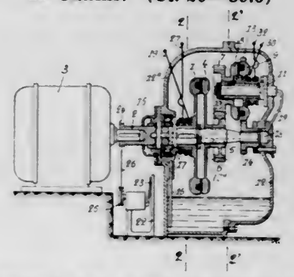
1. A safety raft slip lock of the character described, comprising a link, a hook hinged on said link, a slip ring locking said hook to said link, and float operated latching means whereby said slip ring may be automatically moved out of engagement with said hook thereby releasing same.

2,313,803
CROSSBOW GUN
James E. Carlson, Minneapolis, Minn., assignor of three-tenths to G. E. Erickson and three-tenths to Emil Berglund, both of Minneapolis, Minn.
Application April 30, 1941, Serial No. 391,027
7 Claims. (Cl. 124—25)



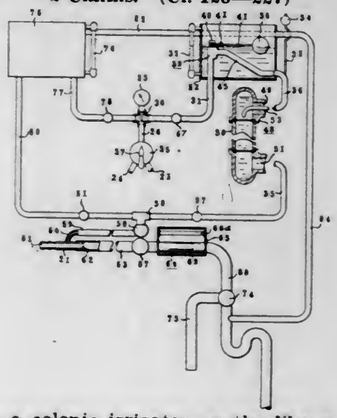
1. A toy gun comprising a barrel having a forward open end and a rear portion, a plunger working within said barrel, a cross bow mounted at the forward end of said barrel, a bow string running between the two ends of said bow, said barrel having facing longitudinal slots therein through which said bow string extends and said plunger having a cross slot of considerably greater width fore and aft the plunger than the diameter of said bow string and through which cross slot said bow string also extends.

2,313,804
METHOD AND DEVICE FOR GRINDING COOPERATING FACES OF FRICTION MEMBERS
Jean Cotal, Paris, France; vested in the Alien Property Custodian
Application May 31, 1940, Serial No. 338,266
In France June 24, 1939
10 Claims. (Cl. 29—89.5)



1. A method for grinding cooperating faces of members of devices operating by friction and particularly of electromagnets and armatures for the same which consists in, repeatedly effecting at regular intervals the cycle of operations comprising separating said members from each other, rotating one of said members and maintaining the other stationary, allowing any one of said members to rotate freely, and urging said members towards each other so as to bring said cooperating faces into close contact whereby said cooperating faces are ground due to the friction taking place between said faces.

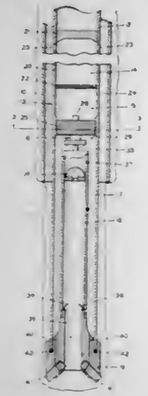
2,313,805
COLONIC IRRIGATOR
Boyd B. Crawford and Bertha Olive Crawford, Independence, Mo.
Application November 8, 1941, Serial No. 418,402
2 Claims. (Cl. 128—227)



1. In a colonic irrigator, or the like, a receptacle for receiving liquid, said receptacle having

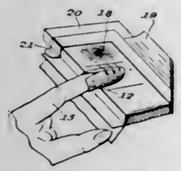
an outlet; a conduit for discharging liquid into the receptacle, said conduit being arranged to discharge liquid adjacent said outlet; and means responsive to the liquid level in the receptacle for controlling the flow of liquid through said conduit and into the receptacle.

2,313,806
CORING APPARATUS
Wilbur J. Crites, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application March 24, 1941, Serial No. 385,016
10 Claims. (Cl. 255—72)



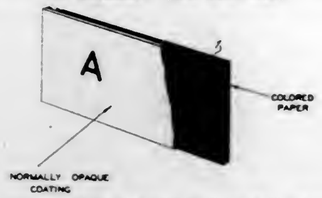
1. In coring apparatus, the combination comprising a conduit adapted to be rotated in a well bore; a pump including a casing secured to and rotatable with the conduit and a rotor in the casing; core-cutting and retaining means connected to the rotor and adapted to engage the bottom of the well bore; and liquid supplied to the pump, whereby, upon rotation of the conduit and the pump casing, the said means will be rotated against the resistance of its contact with the bottom of the well bore.

2,313,807
FINGERPRINTING
Gladys P. Curry, Boston, Mass.
Application February 3, 1941, Serial No. 377,171
3 Claims. (Cl. 41—24)



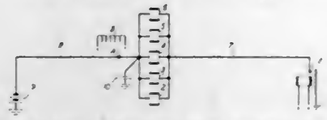
1. The method of making finger print records which comprises forming a flexible coating over the end portion of a finger having an impression in its inner surface representative of the markings on said finger by applying thereto a solution of a plastic composition capable of solidifying merely by exposure to air, removing the coating and turning it inside out so that said impression is on its outer surface, placing the coating inside out over a finger-like form, inking the projections in said impression, and forming in a record sheet a print of said impression.

2,313,808
COPY AND RECORDING PAPER
Harold R. Dalton, Teaneck Township, Bergen County, N. J.
Application February 26, 1941, Serial No. 380,617
10 Claims. (Cl. 282—28)



1. A paper of the kind indicated composed of a colored sheet having a coating the base of which consists mainly of a polyvalent metal soap held in a waxy material and having the characteristic of being rendered transparent by pressure thereon as of type, pen, stylus or pencil to expose the color of the base sheet where the pressure is applied.

2,313,809
CONTACT PROTECTION DEVICE
Austen M. Curtis, South Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 19, 1941, Serial No. 389,472
4 Claims. (Cl. 175—294)



1. Means for reducing the arcing between a pair of contacts that make and break an electrical current load of a value not greatly above the arcing limits of the material of which the contacts are composed, which comprises a condenser one side of which is connected to the battery supply conductor at the junction thereof with the load and the other side to the other battery supply conductor.

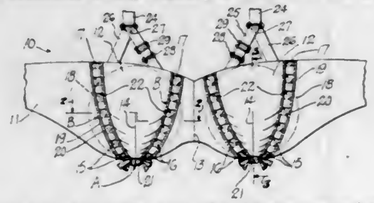
2,313,810
COPYING AND RECORDING MEDIUM
Harold R. Dalton, Teaneck, N. J.
Application July 8, 1941, Serial No. 401,530
4 Claims. (Cl. 282—28)



1. A printing medium comprising a support having a transfer coating consisting mainly of a polyvalent metal soap incorporated with a binder and a quantity of pigment material.

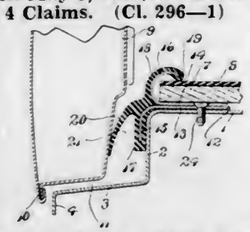
2,313,811
FOUNDATION GARMENT
Harry Jay Dubner, Forest Hills, Long Island, N. Y.
Application March 14, 1941, Serial No. 383,281
1 Claim. (Cl. 2—42)

A foundation garment including a body member having bust receiving pockets, a pair of upright elements for each pocket extending from the top to the bottom thereof, the upper portions of the elements being approximately vertical and the lower portions of the elements of each pocket converging toward each other, a lacing member for each element, each element having means for slidiably guiding its lacing member, each element having openings spaced therealong through any of which the lacing member can be caused to project at will to thus vary the extent of engagement of the lacing member with its element, each element being fixedly secured to its pocket



at the top thereof, and the lacing members of each pocket being continuously engaged with their elements from the top of their pocket to a point spaced above the bottom of the pocket so as to be free of the lower portions of said elements, said lacing members having their otherwise free end portions that project from the opening of the elements secured together so as to constrict the lower portions of the pockets and to raise the effective bottoms of the pockets while uniformly gathering the pockets above the points at which the lacing members of each pocket are secured together.

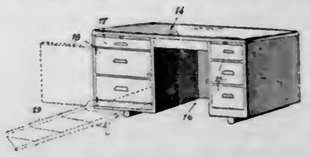
2,313,812
SCUFF PLATE
James Francis Duffy, Holland, Mich., assignor to Duffy Manufacturing Company, Holland, Mich., a corporation of Michigan
Application May 8, 1939, Serial No. 272,311
4 Claims. (Cl. 296—1)



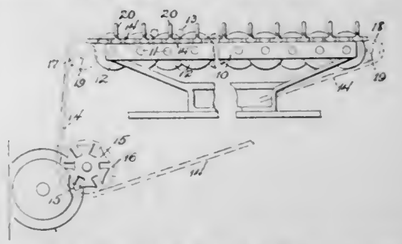
1. A scuff plate for a vehicle body comprising, an elongated plate of sheet metal having a flat substantially horizontal section curved upwardly and partially over itself at its outer portion, a rubber covering at the outer side of said curved portion of the sheet metal member and extending around and at the inner side of the curved section, said rubber member having a depending vertical portion extending below the plane of said flat horizontal section, and having a downwardly and outwardly inclined apron extending the full length of the sheet metal member integrally joined with said rubber covering substantially in the plane of said flat section of the sheet metal member.

2,313,813
COLLAPSIBLE BED
Daniel Forbes Ebbert, Wheeling, W. Va.
Application March 11, 1942, Serial No. 434,163
10 Claims. (Cl. 5—157)

1. A collapsible bed comprising a pair of spaced telescopic frame members, transverse members connected with and extending between pairs respectively of telescopic sections of the frame members, and a plurality of resilient plates, each of said plates being connected at one end to a transverse member and being arranged in overlapping relationship at its opposite end with respect to an adjacent plate and transverse member so that said plates may slide one on top of the other when the frame members are telescoped to collapse the bed.

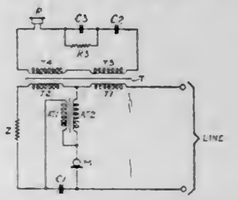


2,313,814
CONVEYER FOR GLASS VIALS
Charles Eisler, South Orange, N. J.
Application September 16, 1941, Serial No. 410,966
2 Claims. (Cl. 198—135)



1. In a machine of the character described, means for supporting glass tubes, said means comprising freely rotatable disks which discs are mounted so that they overlap and form seats for glass tubes, chains movable parallel to said discs and including projections which are aligned to engage a glass tube simultaneously at separated points and pass the tube from one seat to the next, and means for propelling the chains by a step-by-step movement.

2,313,815
TELEPHONE SYSTEM
Eric Playfair Fairbairn, Coventry, England, assignor to The General Electric Company Limited, London, England, a British company
Application October 24, 1940, Serial No. 362,521
In Great Britain October 31, 1939
2 Claims. (Cl. 170—81)



1. In a telephone system, subscribers' substation circuits, lines connecting said circuits to the exchange, a plurality of connecting circuits in the exchange, battery feeding bridges in each connecting circuit, means including said connecting circuits for connecting one line to another,

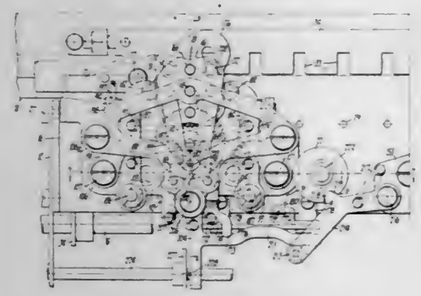
a microphone in a bridge circuit at each substation circuit together with a balancing network on one side of the bridge to balance the impedance of the connecting means or line connected to the other side thereof, a receiver circuit connected in anti side tone relation to said microphone, a corrective network connected in said receiver circuit to equalize the impedance thereof over the desired frequency range, the impedadjusted so as to match the characteristic impedance of the subscriber's line when viewed from the line, the impedance of the feeding bridges of each connecting circuit adjusted to present the same characteristic impedance as the subscriber's line as a whole, whereby each ance of said elements in the substation circuit line and each connecting circuit of a connection faces its iterative impedance when the same are connected together.

2,313,816
THREADED CONTAINER CLOSURE
Reuben Fingold, Pittsburgh, Pa.
Application December 31, 1941, Serial No. 425,067
8 Claims. (Cl. 215—43)



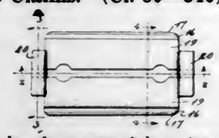
1. A closure for a container having a threaded neck, said closure comprising molded non-metallic top and side walls, and a metal thread moldably embedded in the inner surface of said side wall and complementing and substantially limited in length to the length of the thread on the container neck, said inner surface being provided with a thread-like channel forming a continuation of said metal thread.

2,313,817
CALCULATING MACHINE
Carl M. Friden, Pleasanton, Calif., assignor to Friden Calculating Machine Co., Inc., a corporation of California
Application July 29, 1940, Serial No. 348,099
10 Claims. (Cl. 74—527)



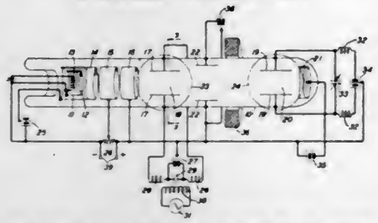
2. In a calculating machine, drive means including a part movable in cyclic fashion, an element constantly engaging said part under light spring pressure, a second element for urging said first element toward said part under heavy spring pressure, and means for latching said second element in inactive position.

2,313,818
RAZOR BLADE
Henry J. Gaisman, Hartsdale, N. Y., assignor to Gillette Safety Razor Company, Boston, Mass., a corporation of Delaware
Application April 10, 1941, Serial No. 387,953
9 Claims. (Cl. 30—346)



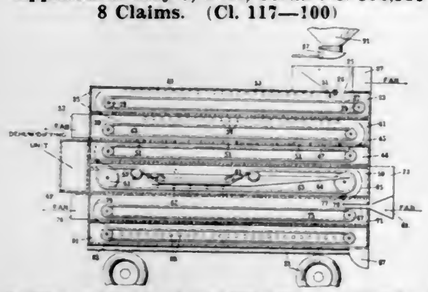
1. A razor blade comprising two parts, each with an outer cutting edge, and means for resiliently connecting the two parts whereby they may be moved toward or away from each other when adjusted in a blade holder.

2,313,819
ELECTRON DISCHARGE APPARATUS
Frank Gray, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 4, 1941, Serial No. 386,783
9 Claims. (Cl. 250—27)



1. In electron discharge apparatus, means for producing a velocity varied beam comprising means defining an input space, means for projecting an electron beam into said space parallel to the longitudinal axis thereof, means for producing in said space magnetic and electric fields normal to each other and of such relative strength and so related to the length of said space that electrons in said beam in traversing said space follow cycloidal paths and at the region at which they leave said space are traveling substantially in the direction of said axis, and means for impressing a high frequency field upon said space and normal to said magnetic field.

2,313,820
METHOD AND APPARATUS FOR WEATHERPROOFING AGGREGATE AND THE LIKE
James Elliott Hall, Columbus, Ohio
Application May 8, 1941, Serial No. 392,516
8 Claims. (Cl. 117—100)

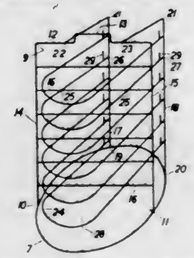


2. The method of conditioning aggregate for weatherproofing the same, which comprises,

heating the aggregate to eliminate substantially all moisture therefrom; reducing the temperature of the heated aggregate by causing relatively cool dehydrated air to pass over the same; causing the dried aggregate to be impregnated with a suitable weatherproofing agent; and then coating the impregnated aggregate with a suitable mineral dust; and then mechanically chilling the impregnated aggregate to a temperature below the volatilization temperature of the weatherproofing agent.

3. A unitary machine for conditioning aggregate for weatherproofing the same, comprising a plurality of chambers; means associated with one of said chambers for heating aggregate therein; means associated with a second chamber for supplying relatively cool, dehumidified air thereto; means associated with a third chamber for treating the aggregate within the third chamber with a suitable weatherproofing agent; and means for progressively advancing the aggregate through said chambers in the order named.

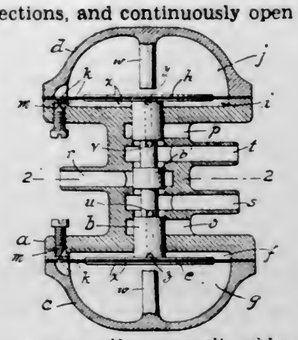
2,313,821
RECORD HOLDER
Stanley T. Handel, New York, N. Y., assignor to The Verplex Company, Essex, Conn., a corporation of Connecticut
Application July 16, 1941, Serial No. 402,660
6 Claims. (Cl. 211—40)



2. A record holder of the character described comprising a circular base member, an inverted U-shaped upright intermediate member formed of a single wire element and having ends secured to the base member, a pair of inverted L-shaped rear upright members joined at their upper ends to said element and at their lower ends to said base member, a plurality of platform members joined to said rear members, and means in combination with the intermediate members secured to the platform members.

2,313,822
AUTOMATIC PULSATOR FOR MILKING MACHINES
Cyrus Howard Hapgood, Nutley, N. J., assignor to The De Laval Separator Company, New York, N. Y., a corporation of New Jersey
Application October 17, 1940, Serial No. 361,540
6 Claims. (Cl. 31—61)

1. An automatic pulsator for milking machines comprising end casings and a connecting piston chamber, a valve piston reciprocable in the piston chamber, diaphragms of large diameter relative to the piston, one in each casing dividing each casing into an inner chamber and an outer chamber, and means, including ports and passages, operative, in one stroke of the piston, to connect one inner diaphragm chamber with high pneumatic pressure and the other inner diaphragm chamber with low pneumatic pressure and in the other stroke of the piston to reverse said connections, and continuously open air flow



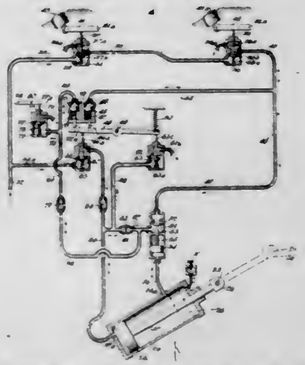
conduits one connecting opposite sides of each diaphragm.

2,313,823
BOWLING BALL SUPPORT
Wesley Harrigan, Milwaukee, Wis.
Application August 17, 1940, Serial No. 353,040
2 Claims. (Cl. 248—350)



1. A bowling ball support comprising a concave cup having a circular marginal portion for sealing contact with said ball, a downwardly projecting ring underlying said marginal portion, said ring terminating substantially in the plane of the central bottom surface of said cup, when said ball is disposed upon said cup, and forming a support for said cup.

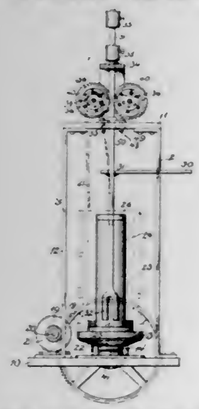
2,313,824
GARMENT PRESSING MACHINE
Walter A. Hoch, Forest Hills, N. Y., assignor to New York Pressing Iron Co. Inc., New York, N. Y., a corporation of New York
Application August 31, 1939, Serial No. 292,761
6 Claims. (Cl. 121—38)



4. In a press, the combination of a movable press-part and a fluid-operated motor connected to and adapted to actuate said movable press-part, a first inlet branch-line and a second inlet branch-line which are respectively connected to a source of fluid under pressure and which are respectively connected to said motor through respective valves to the inlet of said motor in order to supply motive fluid thereto, pilot mechanism, said pilot mechanism having a first means operative to open the valve of the second branch-line,

and a second means operative to close the valve of the first branch-line, said first branch-line having a pair of manually controlled valves, means interconnecting the first means of the pilot mechanism with the pair of valves to render the first means operative only upon the actuation of the pair of valves to working position, means responsive to a predetermined movement of said press-part to render the second means of the pilot mechanism operative, and means for maintaining the valve of the second branch line open after the predetermined movement.

2,313,825
TAMPING MACHINE
John Kardos and William Kardos, Perth Amboy, N. J.
Application February 4, 1942, Serial No. 429,485
3 Claims. (Cl. 25—41)



1. A tamping machine comprising a mold support, a vertically movable tamping rod above the mold support, a rotatable curved segmental strip for intermittently engaging the side of the rod to lift the rod, a support for the strip comprising an abutment and a rotating shaft on which the abutment is secured, the strip being spaced from the abutment and resilient means in the space for yieldingly holding the strip in contact with the rod.

2,313,826
TUNNEL CEMENTING APPARATUS
Maxwell F. Kemper, Los Angeles, Calif.
Application September 17, 1940, Serial No. 357,121
5 Claims. (Cl. 302—17)



1. In pneumatic materials-handling apparatus the combination of an air supply line, a materials discharge line, a container adapted to be connected to said lines, coupling elements operatively connected to said container and pointing in the same direction, a unit supporting coupling elements in position for mating with the first mentioned coupling elements, the second mentioned coupling elements pointing in the same direction, and being operatively connected to said lines, and guide means for limiting the relative movement between the first mentioned coupling elements and the second mentioned coupling elements to a direction axial of the coupling elements.

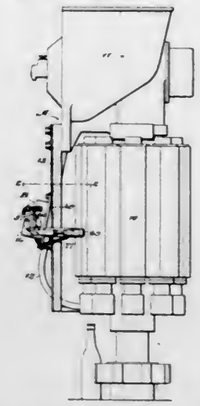
2,313,827
AUTOMATIC MULTIPLE SASH WINDOW
Harry Larson, Oakland, Calif.
Application April 21, 1941, Serial No. 389,484
8 Claims. (Cl. 20—42)



1. In a window having a frame and a plurality of sashes, means hinging one end of each sash in said frame at a fixed point thereon for an outward swinging movement in said frame, a travel bar movable longitudinally in said frame, guides secured on said frame for said bar, a stop on said frame adjacent an end of said travel bar, a link hinged to each sash and to said bar and serving with said bar to interconnect said plurality of sashes for movement, said travel bar having a first slot extending substantially longitudinally along said bar adjacent said end thereof, a second slot adjacent to said first slot and extending generally parallel to said first slot, and a third slot connecting said first and second slots and having a side thereof extending angularly to the longitudinal axis of said bar, the link associated with one sash including a pin, a guide for said pin extending longitudinally of said frame, said pin being movable, upon movement of said one sash, in said guide and in said slots (1) to move said travel bar longitudinally in said guides or (2) move said end of said travel bar transversely in a selected position of said travel bar.

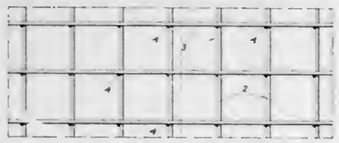
2,313,828
CAP MARKING MECHANISM FOR CONTAINER CAPPING MACHINES
Otto P. R. Lehmann, East Orange, and Raymond N. Bostock, Upper Montclair, N. J., assignors to P. Ballantine & Sons, Newark, N. J., a corporation of New Jersey
Application January 10, 1941, Serial No. 374,000
9 Claims. (Cl. 226—68)

9. In a container capping machine including capping means and a chute for the delivery of caps to said capping means, means for temporarily arresting the movement of each cap passing through said chute to said capping means, an indexed element for marking each cap while same is in its arrested position, a movable carrier for said marking element, means for moving said carrier thereby to move said marking element to and from cap marking position, and means mounting said marking element upon said carrier for quick and ready removal there-



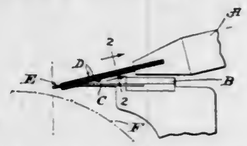
from and for quick and ready replacement by another marking element having a different marking index.

2,313,829
ANTISKID ROADWAY
Robert G. Le Tourneau, Peoria, Ill., assignor to R. G. Le Tourneau, Inc., a corporation
Application December 23, 1941, Serial No. 424,146
8 Claims. (Cl. 94—5)



1. An anti-skid roadway comprising, in combination, a steel plate roadbed having its upper surface exposed for vehicle wheel engagement, and a multiplicity of exposed anti-skid members disposed on top of said road bed in symmetrical relation; said members being welded to said wheel engaging surface of the road bed.

2,313,830
DOCTOR BLADE
Axel E. Lundbye, Springfield, Ohio, assignor to The Crowell-Collier Publishing Company, Springfield, Ohio, a corporation of Delaware
Application June 2, 1942, Serial No. 445,487
8 Claims. (Cl. 101—169)



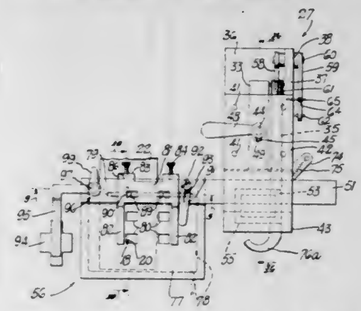
1. A doctor blade for printing presses, including a relatively thin metal strip having its forward edge ground to a sharp wiping edge, and a lubricating compound secured to the blade and forming a part thereof, to thus lubricate the blade as it bears against the rotating printing cylinder of a printing press.

2,313,831
DISPLAY DEVICE
Randolph K. Martin, Cambridge, Mass., assignor to Polaroid Corporation, Dover, Del., a corporation of Delaware
Application September 19, 1940, Serial No. 357,442
7 Claims. (Cl. 88—65)



1. A frusto-conical light polarizer, the polarizing axis of said polarizer along one of the two lines of intersection of any plane intersecting said polarizer and containing the axis of the cone of which said polarizer is a section being perpendicular to the polarizing axis of said polarizer along the other said line of intersection of said plane and said polarizer, the polarizing axis of said polarizer shifting continuously and progressively through an angle of 180 degrees along each edge of said polarizer with one complete circumference thereof.

2,313,832
LABEL TACKING MACHINE
Morris S. Malek, Bronx, N. Y., assignor of one-half to McCurrach Organization Incorporated, New York, N. Y., a corporation of New York
Application November 10, 1941, Serial No. 418,584
3 Claims. (Cl. 112—104)

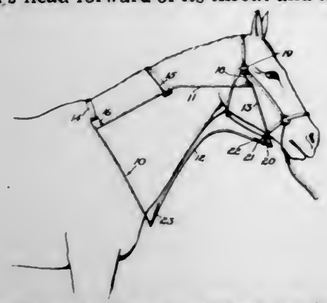


1. A device including a support, a first means mounting the support for reciprocatory movement in one path, a second means for mounting the first means for reciprocatory movement in a path transverse to the first path, a relatively stationary cam defining a closed path and cooperating with the first mentioned means for guiding the same, and a rotary means coacting with the support for actuating the same to follow said path with operative action of the first and second means in movably mounting the support, said rotary means being coaxial with the center of said cam, said rotary means having an arm, and a tension spring connecting said arm and said support, and control means for causing intermittent angular motion of the rotary means, the control means having a stop means for holding the support in a predetermined position against the tension of said spring.

2,313,833
DEVICE FOR RESTRICTING MOVEMENT OF AN ANIMAL'S NECK AND HEAD
Fred C. Marmet, Canoga Park, Calif.
Application November 10, 1941, Serial No. 418,556
5 Claims. (Cl. 119—96)

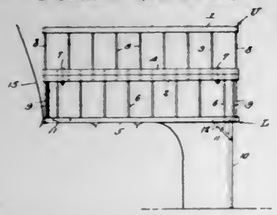
1. A device for preventing a horse from reaching its legs comprising, a U-shaped member en-

gageable with the front of the shoulders and breast of the horse, a second U-shaped member having portions engageable with the sides of the animal's head forward of its throat and a portion



engageable under the jaw of the horse forwardly of its throat, whereby to limit the ability of the horse to move its head both in a turning and nodding direction with respect to its neck, and means connecting said U-shaped members.

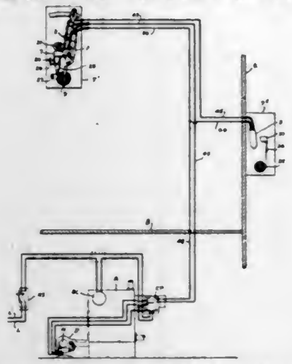
2,313,834
COLLAPSIBLE CRIB
Lillian W. Mathaus, Atlanta, Ga.
Application December 22, 1941, Serial No. 424,075
1 Claim. (Cl. 5—99)



In a crib, an upper unit and a lower unit, each of which forms a complete enclosure, horizontally considered: each unit comprising an upper frame having mitered joints, a lower frame having mitered joints, and rungs connecting the frames, the lower frame of the upper unit being disposed below the upper frame of the lower unit, the rungs of the upper unit being slidably mounted in the upper frame of the lower unit, and the rungs of the lower unit being slidably mounted in the lower frame of the upper unit, the rungs of each unit being spaced apart transversely about the entire perimeter of the crib, a bottom carried by the lower frame of the lower unit, and means assembled with the units for holding the upper unit in raised position with respect to the lower unit groups of rungs of the upper and lower units being spaced apart less widely than are the remaining rungs, and being arranged in triangular form at each corner of the crib, to afford corner reinforcements, one rung of each group forming a dowel at a mitered joint.

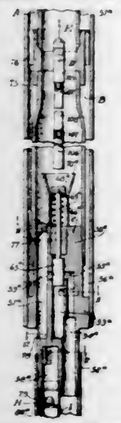
2,313,835
TEMPERATURE CONTROLLING SYSTEM
Ira E. McCabe, Chicago, Ill.
Original application August 3, 1938, Serial No. 222,865. Divided and this application January 6, 1941, Serial No. 373,269
7 Claims. (Cl. 236—91)

1. In a system for controlling the operation of an electrically operated and controlled heating plant for a building to anticipate changes in the operation of the heating plant required by changes in temperature exterior of said building to maintain a desired temperature within the building including a room thermostat having a thermal responsive means responsive to changes in ambient temperature for automatically operating a switch in the control circuit, a second switch in said room thermostat actuated by said thermal responsive means to close in advance of and to open subsequent to the normal closing and opening of the first switch, and a third switch having a thermal responsive means responsive to changes in temperature exterior of the building automatically operating to open said switch upon an initial rise and close said switch



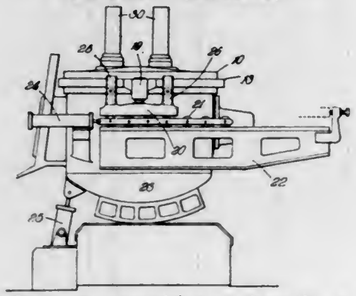
upon an initial drop in exterior temperature, said second and third switches connected in series with each other and in parallel with the first switch in the control circuit, said first switch normally controlling the heating plant, said second switch upon the closing of the third switch controlling the heating plant in advance of the normal control of the plant by said first switch, whereby upon a decline in exterior temperature the effect thereof upon the interior is anticipated by controlling the heating plant in advance of its normally controlled operation by said first switch, said normal control by the first switch being effective upon the opening of the third switch upon an initial rise in exterior temperature.

2,313,836
PUMP
Robert P. Miller, San Gabriel, Calif.
Application July 15, 1939, Serial No. 284,720
13 Claims. (Cl. 103—240)



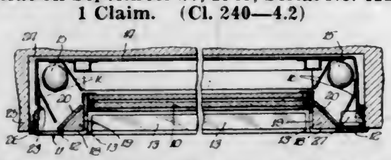
1. In combination, a well string for production fluid having an annular space for displacement fluid surrounding the well string, the lower end of the well string communicating with a production zone of the well for admitting production fluid to the well string, a packer at the lower end of the annular space, a passageway between the annular space and the lower portion of the well string, a by-pass between the upper portion of the passageway and the well string, and a valve shiftable to position opening the annular space to the passageway and closing the by-pass, or shiftable to position closing the annular space to the passageway and opening the by-pass.

2,313,837
ELECTRIC ARC FURNACE WITH REMOVABLE HEARTH OR ROOF
Raoul Nissim, London, England
Application July 21, 1941, Serial No. 403,306
In Great Britain March 26, 1940
10 Claims. (Cl. 13—9)



8. A furnace comprising a hearth, a roof, an independent auxiliary ring disposed between the hearth and the roof and retaining said roof freely, hydraulic lifting means mounted independently of the hearth and adapted to raise and lower the roof through the medium of said auxiliary ring and means for moving the hearth laterally relatively to the roof after the latter has been raised to permit charging of the furnace from above.

2,313,838
MIRROR ILLUMINATION
Robert G. Nordquist, Chicago, Ill., assignor to Patent License Corporation, Chicago, Ill., a corporation of Illinois
Application September 20, 1941, Serial No. 411,765
1 Claim. (Cl. 240—4.2)



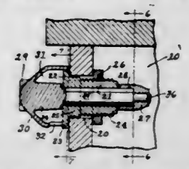
The combination with a mirror, and a forwardly projecting frame about the same, of elongated light transmitting panels housed within the frame substantially flush with the front and inner surfaces of the forwardly projecting portions of the latter, light sources behind the panels, and reflectors about the light sources, each of said panels being of generally triangular cross section and having an angularly disposed light receiving surface directly opposite its light source, a forwardly facing light emitting surface substantially flush with the front face of the frame, and an inwardly facing light emitting surface substantially flush with the inner face of the frame, with the two last mentioned surfaces so arranged with respect to each other and the angularly disposed surface as to direct light rays forwardly and inwardly with respect to the plane of the mirror in a continuous arc of approximately 90°.

2,313,839
BUILDING CONSTRUCTION
Anders C. Olsen, Gwynedd, Pa.
Application January 13, 1940, Serial No. 313,778
5 Claims. (Cl. 72—46)



5. As an article of manufacture, a baseboard clip adapted to support baseboard panels in a wall structure comprising wall panels and a floor channel, said baseboard clip being substantially of inverted U-shape in cross section and having recesses adapted for the reception of edges of the wall panels, prongs formed on the legs of the U-shaped clip adapted to support contiguous mounted baseboard panels, and means formed on the clip complemental to the legs of the floor channels for affixing the baseboard clip to the floor channel whereby the base board panels are supported in the wall structure.

2,313,840
VALVE ACTUATING LEVER
Herman E. Pleasant, Grand Rapids, and Fred M. Keller, Holland, Mich., assignors to Crampton Manufacturing Company, Holland, Mich., a corporation of Michigan
Application February 26, 1942, Serial No. 432,418
3 Claims. (Cl. 4—67)

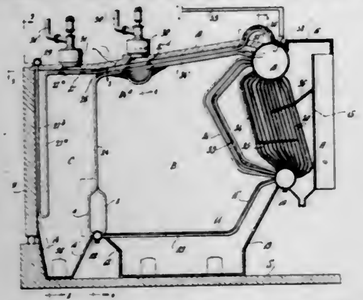


1. In a device of the class described, a tubular fixture adapted to be fixedly secured through the wall of a tank, said fixture having a flanged head provided with a laterally projecting lug; a handle having a chambered head rotatable on the flanged head of the fixture and whose wall is provided with a notch spacedly embracing the lug for limiting the rotative movement of the handle relative to the fixture, said chambered head having a spindle formed integral with the head and spacedly encircled by the wall thereof and projecting through the fixture; and an actuating lever secured to the end of the spindle.

2,313,841
STEAM GENERATOR
John V. Pyle, Pleasantville, N. Y., assignor to Kennedy-Van Saun Mfg. & Eng. Corporation, New York, N. Y., a corporation of Delaware
Application June 27, 1940, Serial No. 342,673
6 Claims. (Cl. 122—479)

1. In a steam generator, including a steam generating combustion chamber and an auxiliary combustion chamber having a steam superheater therein, a pulverized fuel burner opening to and

individually firing each of said chambers, means having an independent connection with each burner to connect the burners to a source of fuel including an electric motor driven fan in the connection of each burner operative to deliver fuel to each of said burners, and means includ-



ing a temperature responsive element disposed at the outlet of the superheater operative by the temperature of the superheated steam to regulate the operation of the motor for the fan delivering fuel to the burner firing the auxiliary combustion chamber and produce superheated steam having a predetermined temperature.

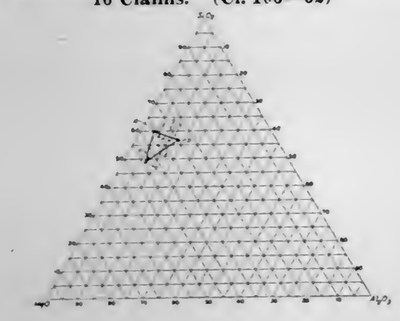
2,313,842

STEATITE TYPE CERAMIC MATERIAL

Merle D. Rigterink, Forest Hills, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application April 3, 1941, Serial No. 386,606

16 Claims. (Cl. 106—62)



1. A predominantly crystalline ceramic material consisting essentially of talc, clay and magnesium oxide fired together in such proportions that they form a composition the constituents of which calculated as oxides fall within a triangular area on a MgO-Al_2O_3-SiO_2 triaxial diagram approximately defined by the points MgO—36, Al_2O_3—4, SiO_2—60; MgO—44, Al_2O_3—7, SiO_2—49; and MgO—30, Al_2O_3—13, SiO_2—57, which ceramic material contains no more than a small amount of alkali oxides.

2,313,843

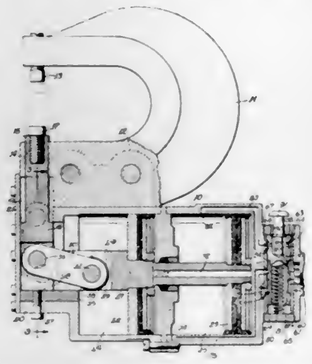
RIVETING TOOL

Ernest H. Shaff, Grand Haven, Mich., assignor to William H. Keller, Inc., Grand Haven, Mich., a corporation of Michigan

Application November 4, 1937, Serial No. 172,681

7 Claims. (Cl. 78—48)

7. A portable riveting tool comprising, in combination, a cylinder having a piston therein, and having coaxial therewith a cylindrical extension of reduced diameter, a bracket mounted on one side of the cylinder and adapted to support a stationary tool in laterally spaced relation relative to the cylinder, a plate closing the forward end of said cylindrical extension and cooperating therewith and with said bracket to provide a guideway extending transversely of the axis of the cylinder, a ram slidable in said guideway



and adapted to carry a movable tool, and a link connecting the forward end of said piston with the lower end of said ram, said extension having a bearing plate slidably engaged by the forward end of the piston in the retracted position of the latter, and a roller on the rear end of said link engageable with said bearing plate in the forward movement of the piston.

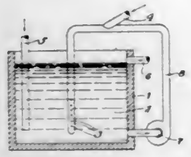
2,313,844

METHOD OF PRECIPITATION

Roy William Sullivan, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application December 12, 1939, Serial No. 308,756

7 Claims. (Cl. 23—66)



1. In a process for the production of solids from reacting liquors wherein one of the reactant liquors comprises a liquor body disposed in a relatively large precipitation zone the step which comprises forcing at least one of the reacting liquors under pressure through a plurality of small restricted orifices positioned below the surface of a body of liquor comprising another reacting liquor, said reacting liquor issuing from said orifices beneath the surface of said body of liquor at a velocity of at least about 40 feet per second, the volume of said reacting liquor issuing per orifice per minute being not greater than about 5% of the volume of said body of liquor, the velocity and the rate of flow of said reacting liquor being so regulated that the particle size and other characteristics of the resulting solid will be substantially uniform.

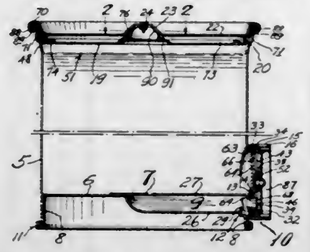
2,313,845

LUBRICANT DISPENSING DEVICE

Edwin P. Sundholm, Albert City, Iowa

Application September 16, 1940, Serial No. 357,031

3 Claims. (Cl. 221—47.5)



1. A fluid-dispensing device suitable for filling grease-guns and the like and suitable for use as an original vendable merchandising packaging unit for containing more or less viscous greases and like fluids in transit and storage and for thereafter dispensing the same, including a generally upright reservoir body having side-wall, bottom and top; together forming a generally completely enclosed reservoir, a suction-receiving socket carried by said reservoir near the bottom thereof and being in communicable relation with the interior of said reservoir, a follower beneath said top and adapted to be secured to said top prior to the ultimate use of the device, co-axial fastening means for supporting said follower from said top, and means for locking said follower and said top relative to each other against relative rotation with respect to each other.

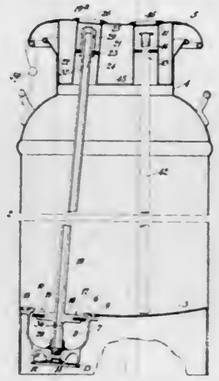
2,313,846

DISPENSING DEVICE

William Tamminga, Bronx, N. Y., assignor to Monitor Process Corporation, Jersey City, N. J., a corporation of New Jersey

Application October 24, 1939, Serial No. 300,919

20 Claims. (Cl. 221—67)



1. In an assembly of the character described, a milk delivery can having a body and a removable cover and provided in both the bottom of the body and in the cover with openings, a measuring receptacle rigid with the can bottom and registering with the opening thereon and provided with an inlet communicating with the interior of the can and an outlet to the exterior of the can, a pair of tandem valves respectively associated with said inlet and outlet and so arranged that, when one is in sealing position, the other is in unsealing position and vice versa, a valve stem common to both tandem valves and extending upwardly and terminating within the can and near the top of the can, a valve stem guide on the can cover interiorly of the can, and seals for closing the opening in the can cover and the outlet of the measuring receptacle when the can is shipped with milk therein.

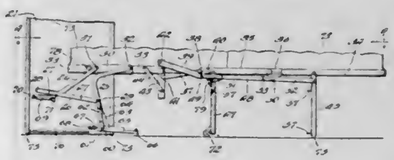
2,313,847

FOLDING CABINET BED

Joseph R. Thomas, Chicago, Ill.

Application January 20, 1939, Serial No. 251,922

6 Claims. (Cl. 5—149)



4. The combination with a cabinet or recess of fixed height, depth and front opening, of a folding bed structure to fold compactly therein into a substantially double L-shaped position, one L being seated in but spaced from the other, said structure being composed of a plurality of sections connected directly together and by a double link connection between two of the sections, coordinating link means connecting the sections at each side thereof to limit the folding from a position in alignment in front of the cabinet to the double L position within the cabinet, means for mounting the sections to swing within the cabinet or recess below the fixed top thereof, said means comprising a pair of links connected to the rearmost section, and a stop on the rearmost section located rearwardly of the connection of the links thereto for engaging the upper edge of one of the links at each side for limiting the unfolding movement of the sections and to provide a support for the inner end of the said rearmost section.

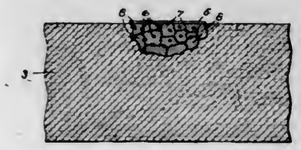
2,313,848

PRINTING PLATE

William Craig Toland and Ellis Bassist, Brookline, Mass., assignors to William Craig Toland, Brookline, Mass., trustee

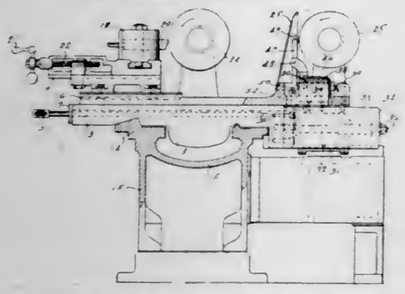
Continuation of application Serial No. 315,412, January 24, 1940. This application March 27, 1942, Serial No. 436,432

7 Claims. (Cl. 101—149.2)



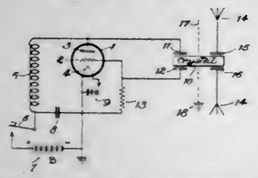
1. As an article of manufacture a photolithographic printing plate which includes a layer obtained from a mixture of water-receptive water-insoluble polyvinyl alcohol and a filler, grease-receptive masses embedded in the layer, said masses including particles of a silver compound surrounded by hardened gelatin and said hardened gelatin extending into the layer and forming relatively hard polyvinyl alcohol portions therein.

2,313,849
HYDRAULIC DUPLICATING LATHE ATTACHMENT
Manuel Turchan, Dearborn, and Curtis Walker, Detroit, Mich.
Application September 20, 1941, Serial No. 411,714
25 Claims. (Cl. 82—14)



1. A duplicating attachment for a lathe having a reciprocable carriage, a reciprocable lathe-tool carrying cross-slide thereon, and a rotatable work-piece; comprised of a fluid reciprocated cylinder secured to said cross-slide, a stationary templet, a tracer cooperatively engaging the surface thereof, and a fluid control valve joined to said tracer mounted upon said cylinder, responsive to movements of said tracer for controling fluid under pressure to said cylinder, for governing reciprocable lathe-tool cross-feeding.

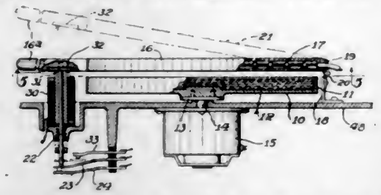
2,313,850
RADIO TRANSMITTER
George L. Usseiman, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application February 8, 1941, Serial No. 377,981
12 Claims. (Cl. 250—17)



1. A radio transmitter comprising an electron discharge device oscillation generator having at least anode, grid and cathode circuits, an antenna, a frequency determining circuit for said generator comprising a crystal element having at least four electrodes, one of said electrodes connected to said anode circuit, and another electrode connected to said grid circuit, the two remaining electrodes being arranged to couple said oscillation generator to said antenna.

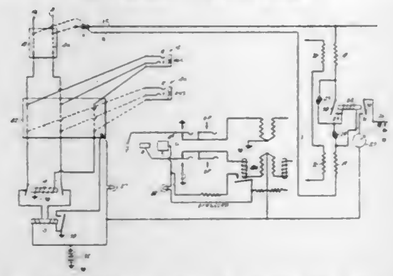
2,313,851
METHOD FOR OPERATING PHONOGRAPHS
Harry R. Van Deventer, New York, N. Y., assignor to Peatrophone Corporation, New York, N. Y., a corporation of Nevada
Application January 25, 1941, Serial No. 375,884
7 Claims. (Cl. 274—46)

1. A method of processing record blanks for phonographs which consists of confining a body of meltable material in a container forming part of a phonograph instrument, recording sound upon said material while the material is at substantially the temperature of its surroundings, and in a solid state, and obliterating said recording by the application of heat to the entire recording surface of said material while the body



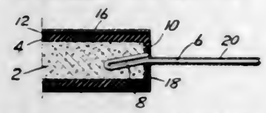
of same remains in a solid state and while same is confined in said container and at rest in position in the phonograph instrument.

2,313,852
TELEPHONE SYSTEM EMPLOYING PHONOGRAPHS
Harry R. Van Deventer, New York, N. Y., assignor to Peatrophone Corporation, New York, N. Y., a corporation of Nevada
Application September 26, 1941, Serial No. 412,410
24 Claims. (Cl. 179—6)



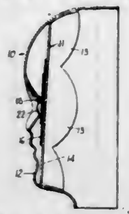
1. In combination with a telephone line circuit having line terminal equipment and including operators' cord circuits for connecting said line circuit to other line circuits, means connected to said line circuit opaque to direct current and responsive to ringing current for establishing a direct current path across said line circuit, and a phonograph including a circuit which is completed by the establishment of said direct current path, whereby the operation of said phonograph is controlled by ringing current in said first path.

2,313,853
RESISTOR AND METHOD OF MAKING THE SAME
Hugh N. Veley, St. Marys, Pa., assignor to Speer Resistor Corporation, St. Marys, Pa., a corporation of Pennsylvania
Application April 14, 1941, Serial No. 388,382
8 Claims. (Cl. 201—76)



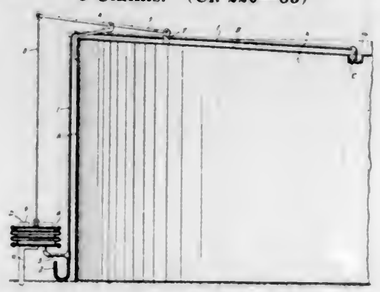
1. A resistor comprising a molded body portion, a plurality of wire leads extending from said body portion and having their ends embedded in said body portion, and coating material covering the exterior of said body portion and said leads substantially beyond said body portion, said coating material comprising largely wax and rosin.

2,313,854
DOLL'S EYES
Charles Weltman, Brooklyn, N. Y.
Application July 19, 1941, Serial No. 403,083
3 Claims. (Cl. 46—167)



1. In a doll's head, having a hollow face portion and openings therein for the eyes, a separate base plate secured in said head to the rear of each eye opening and spaced apart from said face, a slidable element on each base plate having adjacent portions in the direction of the sliding thereof imitating an open and a closed eye, respectively, a rigid imitation eyelash projecting from each sliding element through the eye opening to the front of the face, said sliding element being adapted to be moved by said eyelash in one or in the other direction to expose the eye imitation through said eye opening in a closed or in an open position, respectively.

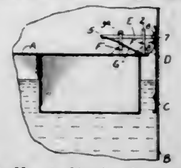
2,313,855
TANK ROOF DRAIN
John H. Wiggins, Chicago, Ill.
Application November 1, 1940, Serial No. 363,834
5 Claims. (Cl. 220—85)



1. A gas and/or liquid storage apparatus provided with a gas space that comprises a movable portion whose position is adapted to change to vary the volume of said gas space, a sump, a syphon drain having its intake end positioned in said sump and its discharge end located at the lower level than said sump, means for preventing air from entering the discharge end of said syphon drain, and a pump operated by the said movable portion of the gas space and having its suction connected with said syphon drain for exhausting air or the like therefrom so as to cause liquid to pass from the sump into said drain and prime the same.

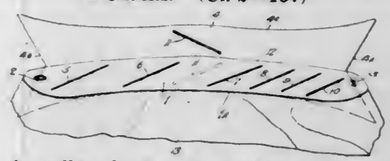
2,313,856
SIDE WALL SHOE SUPPORTING MEANS FOR FLOATING TANK ROOF SEALS
John H. Wiggins, Chicago, Ill.
Application January 27, 1942, Serial No 428,421
2 Claims. (Cl. 220—26)

1. A supporting mechanism for the side wall shoe of a floating tank roof seal, comprising a horizontally-disposed, reciprocating supporting member connected to the shoe, and a pair of guide bearings for said supporting member mounted on the top side of the roof in substantially radial alignment with each other, the outer bearing being constructed so as to permit the outer end portion of said supporting member to



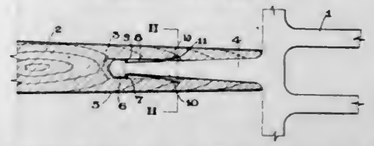
swing horizontally a limited distance, clockwise and counter-clockwise, and the inner bearing being constructed so as to act as a pivot for said supporting member during such horizontal swinging movement.

2,313,857
NECKTIE ENGAGING COLLAR
Joseph P. Wilson, Columbia, S. C.
Application August 2, 1940, Serial No. 349,499
4 Claims. (Cl. 2—137)



1. A collar having a neckband comprising inner and outer surfaces with top and bottom terminals thereto, an arranged upwardly slanting necktie elevating ridge on the outer surface of said neckband.

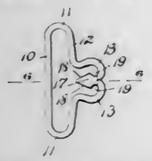
2,313,858
SELF-LOCKING TOOL SHANK
Edward J. Armstrong, Columbus, Ohio, assignor to The Union Fork and Hoe Company, Columbus, Ohio, a corporation of Ohio
Application February 13, 1941, Serial No. 378,779
1 Claim. (Cl. 306—41)



In a tool of the type having a wooden handle member and a separate metallic body member, the handle member being provided with a longitudinally extending axially disposed socket in one end thereof, a shank projecting from said member for reception within said socket, a tapering shank projecting from said body member, a head on the outer end of said shank, said head providing perpendicularly disposed shoulders facing toward said body member, a handle-securing metallic clip positioned on the outer end of said shank, said clip having an intermediate portion shaped to receive the head on the shank, said intermediate portion terminating in a pair of spaced resilient arms arranged on the opposite sides of said shank, the combined thickness of said head and clip conforming substantially to the width of the handle socket, shoulder means formed on said clip at the junctures of the arms thereof with said intermediate portion and adapted for engagement with the shoulders on

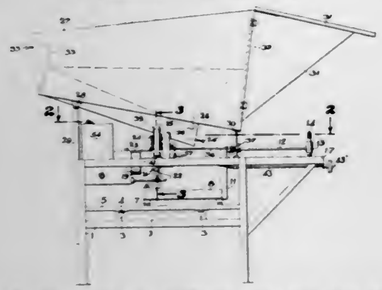
said shank, the outer ends of said arms being sharpened and adapted to project angularly away from said shank in order to be embedded in and partially penetrate the wooden body of said handle member upon initial withdrawal movement of said shank from said socket.

2,313,859
METHOD OF MAKING CLASP MEMBERS FOR BELTS AND THE LIKE
Carl E. Anderson, East Orange, N. J., assignor to Eastern Tool & Mfg., Co. Bloomfield, N. J.
Application August 26, 1942, Serial No. 456,457
3 Claims. (Cl. 29—3)



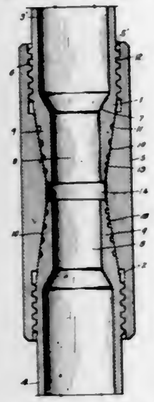
2. The method of making a member of clasps for belts and the like consisting in the bending of a single piece of wire into a frame comprising a rear strand, bends at the ends of the strands and inwardly extending arms and then extending outwardly from the arms into return bends the ends of the wire forming the ends of the return bends and lying closely adjacent at an angle to the plane of the frame, then welding the closely adjacent ends together, then flattening the ends of the wire to form a plate and forcing the plate into the plane of the frame, and then stamping the plate to form a spear head with its broader part adjacent the return bends to form recesses for the reception of hooks of a complementary member.

2,313,860
MACHINE FOR VIEWING, CUTTING, AND SEGREGATING PHOTOGRAPHIC FILM
Charles B. Bogue, San Francisco, Calif.
Original application October 7, 1941, Serial No. 413,931. Divided and this application July 1, 1942, Serial No. 449,340
9 Claims. (Cl. 164—68)



3. A machine for viewing, cutting and segregating photographic film having light interrupting means arranged thereon at spaced intervals, comprising light projecting means arranged to successively project images appearing on the photographic film onto a surface where they may be viewed, a cutter arranged to successively cut film segments from the film, electrical means adapted to be successively actuated in accordance with the interruption of certain light rays passing through the film for actuating the cutter, a film segment holder having a plurality of compartments for receiving the film segments cut from the film, and means for adjusting the position of the film segment holder so the compartments thereof may be selectively positioned in accordance with certain characteristics appearing on the projected images to receive the film segments as they are successively cut from the film.

2,313,861
DRILL PIPE JOINT
Walter T. Caldwell, Enid, Okla., assignor to The George E. Failing Supply Company, Enid, Okla., a corporation of Oklahoma
Application February 14, 1940, Serial No. 318,873
4 Claims. (Cl. 285—146)

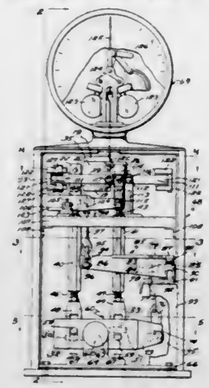


1. A drill pipe joint including, a pair of adjacent pipes each having an integral annular externally enlarged collar portion spaced from adjacent ends thereof and provided with straight threads, tapering pilots on the adjacent ends of the pipes, the interior portion of said pilots being internally upset to provide necessary wall thickness, and a coupling for said pipes having internally threaded sockets in the respective ends thereof for receiving the straight threads of the pipe and having oppositely directed tapered seats for said pilots, said pilots having smooth face portions closely contacting corresponding face portions of the tapered seats to prevent weaving of the joint incidental to characteristic looseness of straight threads, said pilots having annular grooves between said smooth face portions.

2,313,862
DYNAMOMETER FORCE MEASURING APPARATUS
Oswald S. Carliss, Fairfield, Conn., assignor to The Kron Company, Bridgeport, Conn., a corporation of Connecticut
Application December 14, 1940, Serial No. 370,097
7 Claims. (Cl. 265—62)

1. In a dynamometer including the torque arm of a dynamoelectric power absorbing machine and a force counterbalancing and indicating mechanism, a compacted apparatus for transmitting force from said arm to said mechanism embodying in combination, a direction converting lever and optionally operative draft elements connecting the same to said torque arm constructed and arranged to perform movement in a common vertical rear plane reached by the force exerting end of said torque arm, at least one force reducing lever and cooperative draft connections coupling the same to said mechanism located at least in part at a common height level with said

torque arm and constructed and arranged to perform movement in another common vertical plane in front of said rear vertical plane, a frame fulcrum, and a fulcrum supported duplex shelf-lever having spaced co-directional arms respectively occupying said rear and front planes and



respectively coupled to said direction converting lever and to said force reducing lever, whereby the space occupied by said direction converting lever and draft elements involves no increase in height or breadth of the space occupied by said force reducing lever and draft connections.

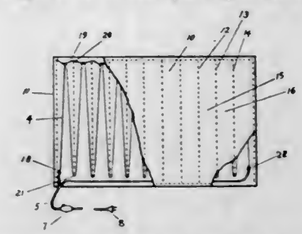
2,313,863
BEARING PLAY CONTROL DEVICE
Oswald S. Carliss, Fairfield, Conn., assignor to The Kron Company, Bridgeport, Conn., a corporation of Connecticut
Application February 2, 1942, Serial No. 429,289
5 Claims. (Cl. 308—2)



1. In a force measuring instrument, the combination of, reactive members movable in approximately vertical directions for transmitting a measurable force, a force transmitting knife-edge carrier on one of said members having lateral thrust surfaces disposed in substantially vertical planes paralleling the knife-edge of said carrier, a reactive force transmitting seat carrier on the other of said members having a substantially horizontal straight line of seating contact with said knife-edge and having a table surface bordering said knife-edge affording clearance for said carriers to rock relatively about said line of seating contact, and a single nose-like projection at each side of said knife-edge carrier rigid with said other member and displaced from a horizontal plane containing said line of seating contact and disposed to contact respectively and slidably with each of said lateral thrust surfaces of said knife-edge carrier whereby movement of each of said carriers relative to the other in vagrant directions crosswise said knife-edge is checked without impeding member movement for transmitting said measurable force.

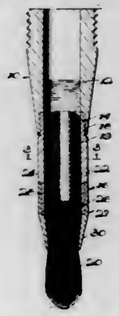
2,313,864
ELECTRIC BED WARMER
George W. Crise, Columbus, Ohio
Application August 2, 1940, Serial No. 349,789
4 Claims. (Cl. 219—46)

1. In an electric warming pad constructed with parallel pockets the method of installating a warming filament which consists of inserting hairpin loops of said filament into consecutive elongated pockets of said pad by means of a bod-



kin, anchoring the closed end of each hairpin loop and withdrawing the bodkin leaving a complete hairpin loop in each individual pocket.

2,313,865
POCKET FOUNTAIN BRUSH
Jacob Dworkin, Rochester, N. Y.
Application January 27, 1942, Serial No. 428,443
1 Claim. (Cl. 15—133)

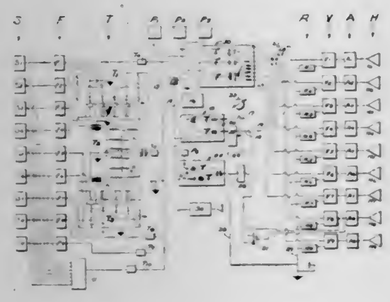


A fountain brush comprising a cylindrical liquid holder having internal threads at one end thereof, a brush assembly comprising an elongated hollow open-ended tubular feed member arranged axially and centrally of the assembly and of a diameter sufficiently large to permit free flow of liquid into the assembly directly from the holder, a plurality of brush bristles surrounding said feed member and arranged in parallelism and extending parallel to the axis of the feed member throughout the length thereof, means compressing the bristles and binding the same to the feed member and extending throughout the length of the same, a sleeve surrounding the feed member, bristles and binding means and of a length greater than the length of the feed member and extending from the inner end thereof and projecting beyond the feed member to shield the bristles from exterior compression in the region of the outer end of the feed member to prevent the bristles from choking said outer end, said sleeve, bristles, binding means, and feed member extending into the threaded end of the holder so that the feed tube and inner ends of the bristles have direct contact with the liquid interiorly of the holder, the inner end of the sleeve having a threaded engagement with the threads of the holder and a ferrule telescopically received on the outer portion of the sleeve and in frictional engagement with the latter and provided beyond the sleeve with an outer tapered portion compressing the bristles in a region spaced from the outer end of the said tube and restricting the flow of liquid through the bristles to the outer portions thereof.

2,313,866
MANUFACTURE OF CELLULOSE ETHERS
Alexander S. Finlayson, Hopewell, Va., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 6, 1940, Serial No. 355,600
4 Claims. (Cl. 260—231)

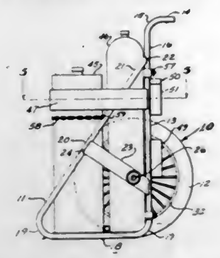
1. A process for manufacturing cellulose alkyl ethers low in turbidity and soluble in organic solvents from lightly felted sheet cellulose composed of fibers selected from the group consisting of wood and cotton cellulose fibers which consists in chipping the sheet cellulose to thread-like or ribbon-like lengths and separating the lengths longitudinally to form chipped lengths having rough irregular ends and surfaces with protruding fibers, an open physical structure conducive to quick uniform wetting by aqueous alkali solution, and an apparent bulk density between about 2.4 and about 4.2 pounds per cubic foot; uniformly wetting the said chipped lengths with an aqueous solution of alkali metal hydroxide of a concentration forming alkali cellulose capable of reacting with an alkylating agent to form a cellulose ether soluble in organic solvents by lightly agitating the chipped lengths for not more than 15 minutes with the alkali solution; heating the resulting wetted cellulose with a lower alkyl etherifying agent under etherifying conditions until a cellulose ether soluble in organic solvents is obtained; and recovering the cellulose ether.

2,313,867
SOUND RECORDING SYSTEM
William E. Garity and John N. A. Hawkins, Los Angeles, Calif., assignors to Walt Disney Productions, Burbank, Calif., a corporation of California
Application July 31, 1940, Serial No. 348,615
10 Claims. (Cl. 179—100.3)



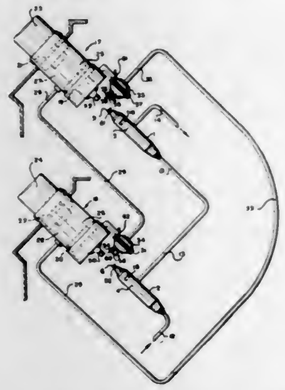
1. In a method of producing a control recording for controlling the reproduction of sound through a plurality of loud speaker means, the steps of: allocating a separate control frequency to control the response of each of a plurality of loud speaker means; each of said separate control tones being substantially pure and free from harmonics, said control tones being members of a logarithmic progression, no member of said progression being close to a second or third order harmonic of a lower; desirably modulating the amplitude of said sustained control tones while reproducing a sound program through loud speaker means controlled by said control tones.

2,313,868
ACETYLENE TANK CART
Leslie H. Garlinghouse, Los Angeles, Calif.
Application February 16, 1942, Serial No. 431,049
7 Claims. (Cl. 280—53)



1. In a tandem tank cart, a chassis including spaced side members, each of said side members including a vertical portion, a foot portion and a brace portion, an axle supporting member secured to the brace portion and the vertical portion on each side of the chassis, a platform supported by said foot portion, a partition forming and tank engaging transverse member extending across the cart above the platform and dividing the platform into a front portion and a rear portion, a stub axle mounted on each of said axle supporting members and extending outwardly therefrom, said stub axles being arranged intermediate the length of the rear portion of the platform and above the platform, and a wheel on each axle.

2,313,869
TWO HAND CONTROL
Wallace F. Gayring, Minoa, N. Y., assignor to The Prosperity Company, Inc., Syracuse, N. Y., a corporation of New York
Application July 26, 1941, Serial No. 404,221
9 Claims. (Cl. 192—131)



1. A two hand control including a pair of control elements for controlling the flow of power, each including a self-returnable shiftable member, both of which must be operated substantially simultaneously, a pair of manuals including operating parts and members operated respectively thereby and paired respectively with the shiftable members of the control elements, and means operated by either operating part for controlling the operation of the shiftable control member controlled by the other manually operated part.

2,313,870
FOOT CORRECTOR
Hayden Golden, Kewanee, Ill.
Application July 26, 1941, Serial No. 404,243
1 Claim. (Cl. 12—146)



The herein described method of forming a foot corrector consisting in first saturating a felt pad with liquid, then pressing the pad upon the bottom of a foot and molding the pad against the foot and permitting the molded pad to dry on the foot, then cutting the pad to the shape of the foot and then adding wedge pieces saturated with such liquid in the portions of the pad which contact parts of the foot to be corrected and finally drying such wedge pieces under pressure of the foot.

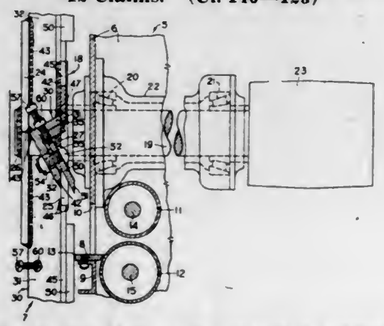
2,313,871
POLYTHIOUREA
William Edward Hanford and Paul L. Salzberg, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 15, 1938, Serial No. 230,145
23 Claims. (Cl. 260—2)

1. A linear polythiourea having recurring structural units of the general formula

—N(B)—R—N(B')—CS—

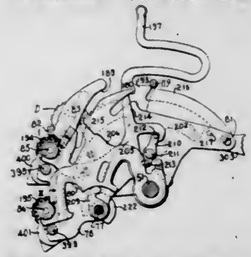
wherein B and B' are members of the class consisting of hydrogen and monovalent hydrocarbon radicals and R is a divalent organic radical in which the terminal atoms are carbon, which is free from groups reactive with the amino, thioanhydride, acid halide, ester, and amido groups, and which contains a chain of atoms selected from the class consisting of chains of at least four atoms in an open chain, chains of at least four atoms forming part of a plurality of rings, and chains of at least three atoms forming part of one ring.

2,313,872
FEED CUTTER
George B. Hill, Ottumwa, Iowa, assignor to Dain Manufacturing Company of Iowa, Ottumwa, Iowa, a corporation of Iowa
Application August 8, 1941, Serial No. 405,970
12 Claims. (Cl. 146—123)



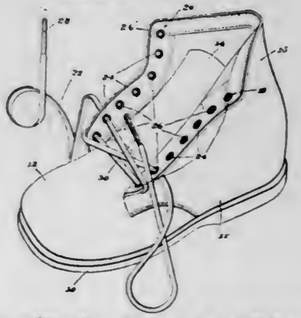
1. In an ensilage cutter having a housing, a stationary knife fixed to the housing, and a rotor journaled within said housing for rotation about an axis perpendicular to the cutting edge of said knife, an angle iron fixed to and forming a part of said rotor, said angle iron extending radially outwardly from the axis of rotation of the rotor with the flanges thereof angled with respect to the plane of rotation, a blade mounted on the inside of one of the flanges of said angle iron and movable relative thereto toward and away from said stationary knife, and means cooperating with the other flange of said angle iron for adjusting the position of said blade relative to said stationary knife.

2,313,873
INTERLOCK
Daniel K. Hughes, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Original application August 25, 1938, Serial No. 226,690. Divided and this application August 20, 1941, Serial No. 407,666
4 Claims. (Cl. 235—144)



1. In a total-printing mechanism for a machine of the class described, having two shafts each mounted so as to be shiftable and rotatable from a normal position; a totalizer mounted on each shaft, each totalizer being resettable to zero by a rotation of its shaft when shifted from normal position; and a resetting member for rotating the shafts, the combination of a shaft-shifting means for each shaft to engage the selected shaft with the resetting member; and means consisting of a loose coupling member interposed between the shifting means for positively preventing more than one of the shafts from being shifted to resetting position during one operation of the resetting member.

2,313,874
EDUCATIONAL SHOE FOR CHILDREN
Gertrude Hume, Claremont, Calif.
Application August 29, 1941, Serial No. 408,737
4 Claims. (Cl. 35—1)



1. In an educational shoe for children, an upper having a pair of spaced edge portions ar-

ranged to be laced together to secure the shoe upon the foot, a row of lacing eyelets along each of said edge portions, said edge portions, in areas adjacent to at least one end of certain of said eyelets of each said row, having a similar feature of appearance which contrasts markedly with a feature of appearance of corresponding areas of said edge portions adjacent the other eyelets in said rows, and a lacing having an end portion thereof intended to be threaded through said certain eyelets only of said rows in lacing the shoe, said end portion of said lacing having a feature of appearance which distinguishes the appearance of said end portion from the other end portion of the lacing and which corresponds to said feature of appearance of said edge portion areas adjacent said certain eyelets and contrasts with said feature of appearance of said edge portion areas adjacent the other of said eyelets.

2,313,875

PROTEOLYTIC ENZYME PROCESS

Eugene F. Jansen, Takoma Park, Md., and Arnold K. Balls, Washington, D. C.; dedicated to the free use of the People of the territory of the United States

No Drawing. Application December 17, 1940, Serial No. 370,500

7 Claims. (Cl. 195—66)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

7. The process comprising acidifying with hydrochloric acid undried latex of papaya to a pH of about 2, aging the acidified latex at a temperature of about 0° to 10° C., separating the liquid phase, partially saturating the liquid phase with sodium chloride to precipitate inert proteins therefrom, the while maintaining a temperature of about 10° C., removing the inert protein and increasing the concentration of sodium chloride in said liquid to saturation, the while maintaining a pH of about 2, to precipitate chymopapain, followed by separation and recovery of the precipitated chymopapain from the mother liquor.

2,313,876

METHOD OF MAKING BALLS

Ulrich Jelinek, Elizabeth, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application June 18, 1940, Serial No. 341,100

9 Claims. (Cl. 29—148.4)



1. The method of producing stainless steel balls having a carbon content of from .9% to 1.1% comprising the steps of, coating the stainless steel with a die lubricating metal, annealing the coated steel to give it a tensile strength of between 90,000 and 110,000 pounds per square inch, forming the stainless steel into slugs of a predetermined size having a coating of lubricating metal on at least the peripheral portion thereof, cold pressing the coated slugs into balls of approximately the finished size, subjecting the cold pressed balls to a grinding operation to remove the lubricating metal therefrom and provide the balls with a surface having a uniform roughness, and polishing the balls with a polishing compound to give the balls a surface finish free from imperfections at a magnification of at least 54 diameters.

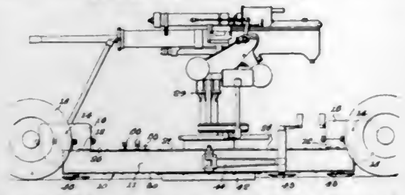
2,313,877

WHEELED VEHICLE

Bryan P. Joyce, East Orange, N. J., assignor to American Armament Corporation, New York, N. Y., a corporation of Delaware

Application July 28, 1939, Serial No. 287,167

13 Claims. (Cl. 89—40)



1. A wheeled vehicle comprising a frame, front and rear axles rotatably connected with said frame, wheels mounted on said axles, the axes of said wheels being offset from the axes of said axles to act as frame-raising cranks upon axle rotation in one direction and as frame-lowering cranks upon axle rotation in the other direction, a cylinder-and-piston-assembly mounted horizontally on said frame and operatively connected with said axles to cause frame-raising rotation of said axles, a liquid reservoir mounted on said frame, means for pumping liquid from said reservoir into the cylinder of said assembly to operate the latter and rotate said axles to raise said frame, and valved means for bleeding liquid from said cylinder to said reservoir to allow frame-lowering rotation of said axles.

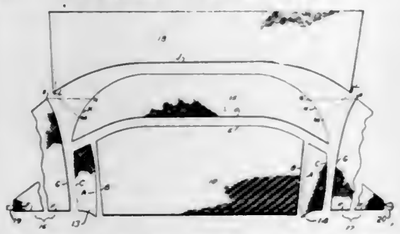
2,313,878

UNIVERSAL SEAT BACK COVER

Joseph M. Kline, Indianapolis, Ind., assignor to Gates Manufacturing Company, Indianapolis, Ind., a corporation of Indiana

Application April 26, 1941, Serial No. 390,594

3 Claims. (Cl. 155—182)



1. A cover for fitting a range in sizes and shapes of seat backs comprising in combination; a front major cover section, hold-down means extending downwardly from that section; said section having its upper marginal line sloped downwardly throughout the respective end portions thereof; a minor end panel attached to said section along each of its vertical edges, each of said end panels having its top edge sloped downwardly and outwardly in continuation of the sloped top marginal line of said major section, and having substantially parallel vertical edges; a top section having a forward edge substantially of the same length as and secured along the combined lengths of the top edges of said united major section and said end panels, said forward edge being formed with a contour substantially the same as that of said combined lengths, and the rear edge of said top section being curved by its ends toward and substantially into its said forward edge; an apron substantially triangular in shape with a rearwardly curving vertical edge joined along the rear edge respectively of each of said panels, said apron edge continuing up and attached along the sloped ends of said top section in each instance and terminating in approximate vertical alignment with the side edges of said major section; means for drawing the free ends of said aprons one toward the other; and a back section having its upper edge formed with less degree of curvature toward its respective ends than that of the rear edge of the top section and united with said top section along its rear edge, the horizontal length of the back section being such that the ends of its said upper edge are located in overlapping arrangement with the upper ends of said aprons.

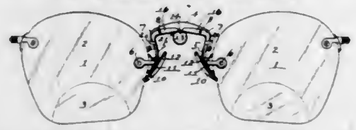
2,313,879

EYEGLASS

Victor W. Krause, Rockford, Mich., assignor of one-third to Harold R. Farrell, Rockford, Mich., and one-third to Ernest A. Shellman, Grand Rapids, Mich.

Application March 1, 1941, Serial No. 381,231

13 Claims. (Cl. 88—49)



1. In an eyeglass structure of the class described which includes a pair of glasses having upper and lower lenses and a bridge connecting the glasses, a pair of members mounted on the bridge for relatively swinging movement and having parts adapted to engage opposite sides respectively of the wearer's nose for supporting the structure thereon, and manually operable forwardly-rearwardly extending means pivoted on the bridge operatively engaging said members for swinging the same to adjusted position.

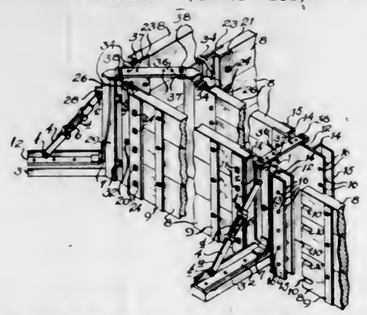
2,313,880

CONCRETE WALL FORM

Robert R. Leggett, Sr., Fort Worth, Tex., assignor of forty-five per cent to Clyde Averitt, Fort Worth, Tex.

Application August 29, 1941, Serial No. 408,792

6 Claims. (Cl. 25—131)



1. A collapsible form assembly for forming building foundations and walls comprising, in combination, a plurality of sectional wall units of different lengths adapted for parallel spaced arrangement forming a channel, coupling plates secured to the ends of the said wall units at junctures thereof, corner plates formed with right angle flanges pivotally connected with the ends of certain of the said wall units, vertical standards having hinged base members extending laterally therefrom providing vertical supports for each of the said coupling plates and the said corner plates, each of the said standards having an extensibly adjustable brace member connecting the same with their said base members.

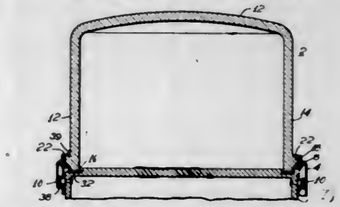
2,313,881

THEFTPROOF METER COVER

Robert H. Lewis, West Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application June 18, 1940, Serial No. 341,098

5 Claims. (Cl. 220—24)



1. In combination with a cup-shaped cover member embodying a perimetral flange having a beveled annular surface portion converging toward its open end, a flanged clamping band engaging a surface of said cover flange opposite the beveled surface portion thereof and having a beveled portion forming a substantially annular pocket between it and said beveled portion of said cover flange, and a split annular spring member disposed in said pocket and biased against the beveled portion of said band to secure it in assembled position on said cover member.

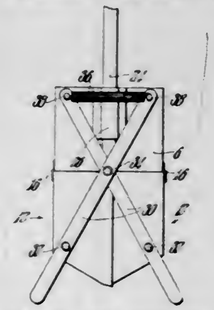
2,313,882

RECEPTACLE

Morris Litman, Springfield, Mass.

Application June 15, 1942, Serial No. 447,081

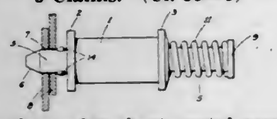
2 Claims. (Cl. 294—71)



1. A device of the class described comprising in combination, a receptacle having top, side and end walls and an open lower side, closure members having side walls hinged at upper longitudinal edges to lower longitudinal edges of the side walls of the receptacle and provided with relatively inclined lower walls and end walls, said closure members arranged so that when in closed position their side and end walls are disposed as continuations of the end and side walls of the end and side walls of the receptacle with the lower walls and end walls in abutting relation, operating means slidable up and down on the end walls of the receptacle, a pair of actuating members at each end of the receptacle, the members of each pair arranged relatively

diagonally and pivoted intermediate their ends to the operating means for relative swinging movements, pivotal connections between each actuating member and an adjacent end wall of a closure member and disposed below said first named pivotal connections, and tension spring means connecting the upper ends of each pair of actuating members.

2,313,883
SHEET METAL CLAMP
William P. Lowther, Inglewood, Calif.
Application April 17, 1942, Serial No. 439,309
3 Claims. (Cl. 85—5)



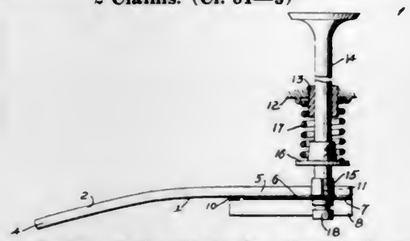
1. In a clamp for sheet metal work, a body adapted at its head end for engagement with the work, a stem adapted at its forward end to slidably extend through and fit a bore in the work projecting from said end of the body and slidable therein, a spring resisting relative extending of the body and stem, a locking element mounted in the stem outside the body for radial movement and adapted when fully retracted to clear the periphery of the stem, said element being a round-end detent, a releasable member separate from the element normally engaging and maintaining the element radially out, and means between the body and member functioning upon movement of the body away from the forward end of the stem to withdraw the member from the element to enable the latter to move radially into said fully retracted position; the detent being so mounted in the stem as to be capable of movement radially out from the stem a distance materially less than the radius of the round end of said detent.

2,313,884
COLLAPSIBLE PACKAGE CARRIER
Laura E. Mattoon, San Francisco, Calif.
Application March 2, 1942, Serial No. 432,935
4 Claims. (Cl. 280—51)



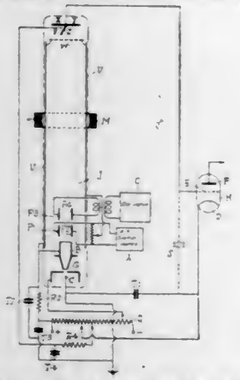
2. In a package carrier, a frame formed with side members and a depending pivoted bottom member adapted to be swung from an extended normal position to a collapsed position with respect to the said side members, roller means carried by the bottom member, a foldable bag extending over and supported by the frame, having means in its bottom for the outward projection of that part of the bottom member of the frame which carries the roller means, a pair of spaced rigid members pivoted to the upper ends of the side members of the frame, the said rigid members being secured to the upper end of the bag and so arranged when in certain positions to normally hold the upper end of the bag in an open position, extensions on the upper end of the bag for extending around the bag and frame when they are in a collapsed form, and means for attaching the extensions together at their sides and at their free ends, and handle means on the bag.

2,313,885
VALVE LOCK REMOVER AND CATCHER
Robert Monnot, San Carlos, Calif., assignor of one-half to Charles F. Huling, Mountain View, Calif.
Application July 19, 1941, Serial No. 403,195
2 Claims. (Cl. 81—3)



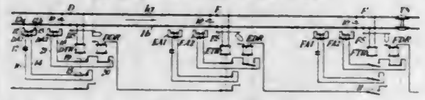
1. A device of the character described comprising, a handled basin adapted to be inserted between a poppet-valve push-rod and its cooperating valve stem, and having a slot formed in the bottom thereof sufficiently wide to permit the passage of a valve stem therethrough, a resilient member mounted on the bottom of the basin to underlie and cover said slot and resiliently support a valve stem thereon, guide means disposed on the underside of the basin on either side of the resilient member to form a guideway operative to slidably engage a push-rod head and center the resilient member thereon, and means disposed on the inner surface of the basin and on either side of said slot, operative to engage the split-cone lock members on the overlying valve stem to dislodge the same therefrom.

2,313,886
ELECTRONIC VALVE DEVICE
Paul Nagy, Richmond, and Marcus James Goddard, Newberry, England
Application July 24, 1941, Serial No. 403,914
In Great Britain January 15, 1940
17 Claims. (Cl. 179—171.5)



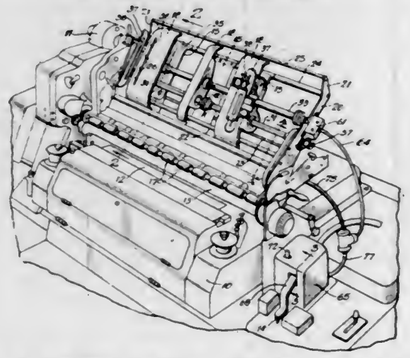
1. An electronic valve device comprising a target electrode presenting two surface areas, means for producing an electron beam, deflection means for oscillating said electron beam to sweep symmetrically over said surface areas in alternation, means for superposing upon said oscillating electron beam an additional deflecting force to produce a non-symmetrical sweep of the electron beam with respect to said surface area, and means for restricting the resulting emission of secondary electrons from one of said surface areas with respect to that from the other surface area, whereby said target electrode is alternately charged and discharged.

2,313,887
RAILWAY TRAFFIC CONTROLLING APPARATUS
Frank H. Nicholson and Harold W. Bryan, Penn Township, Allegheny County, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application September 4, 1941, Serial No. 409,492
6 Claims. (Cl. 246—63)



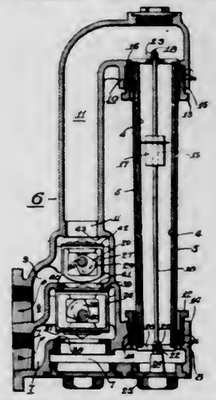
1. Railway traffic controlling apparatus comprising; traffic controlled roadside means operable to a clear, an approach and a slow speed condition; said means including two spaced inductors with each inductor constructed to transmit either one of two different control influences and said means arranged for the two inductors to transmit a different combination of two control influences for each of said conditions, a train carried receiver having a winding and means for creating an electromotive force in said winding, said receiver mounted for inductive relationship to each of said inductors to create a different predetermined value of said electromotive force for each of said control influences; train carried relay means connected to said winding and operable to a clear, an approach and a slow speed position in response to the two successive electromotive forces created by the combination of control influences transmitted by the clear, approach and slow speed conditions respectively of the roadside means; and a cab signal controlled by said relay means to display a clear, an approach and a slow speed signal according to the clear, approach and slow speed positions respectively of the relay means.

2,313,888
STOP MECHANISM FOR WEB FEED
Erial B. Otis, Chicago, Ill., assignor to The Wallace Press, Chicago, Ill., a corporation of Illinois
Application March 31, 1941, Serial No. 385,997
3 Claims. (Cl. 197—133)



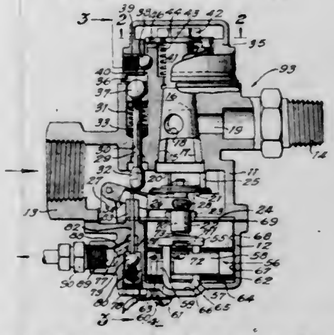
1. A printing machine with platen feed having a key for operating its control mechanism, in combination with an auxiliary paper feed device having electromagnetic means for shifting said key, and a safety switch controlled by the paper in said auxiliary feed device for actuating said electromagnetic means.

2,313,889
ROTAMETER AND THE LIKE
George K. Porter, Hatboro, Pa., assignor, by mesne assignments, to Fischer & Porter Company, Hatboro, Pa., a corporation of Pennsylvania
Application August 22, 1941, Serial No. 407,990
7 Claims. (Cl. 73—209)



1. A composite indicator tube comprising an inner tapered glass tube and an outer tapered tube of a non-frangible synthetic organic transparent material, with the contiguous surfaces of said tubes in intimate contact with each other whereby said outer non-frangible tube protects and supports said inner glass tube against breakage resulting from stresses occurring within and without said inner glass tube.

2,313,890
FLUID CONTROL VALVE
William A. Ray, Los Angeles, Calif.
Application October 4, 1941, Serial No. 413,619
5 Claims. (Cl. 137—144)



1. In a fluid control valve: a casing having an inlet and an outlet opening, first valve means movable between an open and a closed position and biased to said closed position for controlling communication between said openings, an arm connected to said first valve means for operating the same, means engageable with said arm for moving the first valve means to its open position,

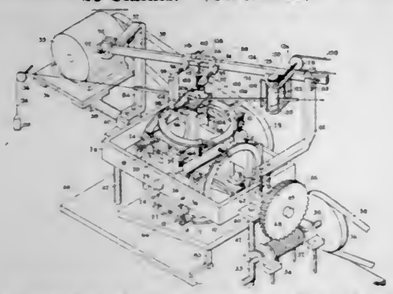
means responsive to a controlling condition for retaining said first valve means in its open position against the force of said bias, a supplemental valve structure having an inlet and an outlet opening, supplemental valve means movable between an open and a closed position and biased to said closed position for controlling communication between said supplemental openings, and means engaged by said arm for moving the supplemental valve means to its open position in the opening movement of said first valve means, the supplemental valve means being retained in open position by said arm regardless of subsequent movement of the means for moving the first valve means.

2,313,891

APPARATUS FOR APPLYING LIGHT-POLARIZING MATERIAL TO CURVED SURFACES

Howard G. Rogers, Wellesley Hills, and Lewis W. Chubb, Jr., Sharon, Mass., assignors to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware

Application May 20, 1942, Serial No. 443,740
26 Claims. (Cl. 91—36)



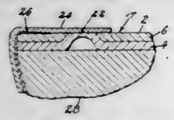
1. Apparatus for coating a plurality of spherically curved surfaces comprising, in combination, holder means for a plurality of elements, each having a spherically curved surface, means for mounting said holder for rotation about a predetermined axis, said holder positioning said elements so that said axis passes through substantially the center of curvature of each said surface, means for rotating said holder, means for moving said holder simultaneously about a second axis passing through substantially the center of curvature of said surfaces, means providing a coating element, and means for causing said coating element to bear with relatively even force against the said surfaces as said holder is rotated.

2,313,892

BONDING BY ADHESIVE

Arthur L. Russell, Boston, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application September 8, 1941, Serial No. 409,993
8 Claims. (Cl. 12—145)



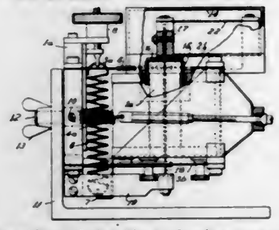
6. The method of cement-lasting shoes to secure together an upper and an insole which includes forming a plurality of protuberances along the margin of the insole, removing said protuberances to expose subjacent stock of the insole in different areas along its margin, applying adhesive to the stock thus exposed, to the margin of the insole, and to the lasting margin of the upper, lasting the upper over the insole, and pressing it against the insole, the adhesive bonds extending between the upper and at least the prepared areas of the insole.

2,313,893

LOW FREQUENCY RESILIENT MOUNTING

Frank C. Rushing, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application September 19, 1941, Serial No. 411,598
14 Claims. (Cl. 171—209)



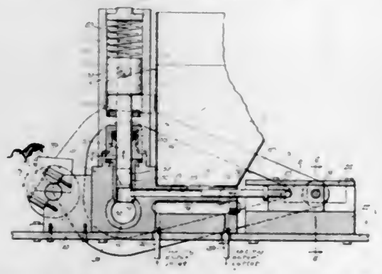
1. A vibration detecting device comprising, in combination, a base, a mass, a plurality of link means for yieldably supporting said mass and for allowing movement thereof in substantially only one plane, spring means for effectively reducing the spring constant of said link means, and means for generating a voltage which corresponds to the relative movement between said base and mass.

2,313,894

INJECTOR APPARATUS

Filip L. Sanna, Madison, Wis., and Charles Albert Sanna, Gary, Ind., assignors to Sanna Dairy Engineers, Madison, Wis., a corporation of Wisconsin

Application August 28, 1941, Serial No. 408,602
1 Claim. (Cl. 107—1)



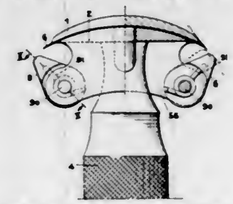
Apparatus for injecting solid, semi-solid or liquid foodstuff into a conduit through which a fluid or semi-fluid milk product flows under pressure comprising, in combination, a housing through which said conduit extends having a passageway opening into said conduit, a hopper communicating with said passageway for receiving the foodstuff and delivering the same thereto, a plunger reciprocable in said passageway for forcing on its forward stroke the foodstuff in said passageway into the milk product in said conduit, a crosshead fastened to said plunger, means slidably mounting said crosshead, a crankshaft, means interconnecting said crosshead and said crankshaft whereby the former is reciprocated on rotation of the latter, an additional plunger reciprocable in said housing in a passageway intersecting the first mentioned passageway, spring means biasing said additional plunger to a position cutting off connection of said first mentioned passageway with said conduit, and cam means operated by said crankshaft and cooperating with said additional plunger for moving the same away from said position thereof substantially at the beginning of the forward stroke of the first mentioned plunger and permitting said additional plunger to return to said position substantially at the end of said forward stroke.

2,313,895

SAFETY RAZOR HAVING ADJUSTABLE GUARDS

Jean-Baptiste Raoul Savary, Paris, France; vested in the Alien Property Custodian

Application February 11, 1939, Serial No. 255,816
In France February 25, 1938
4 Claims. (Cl. 30—71)



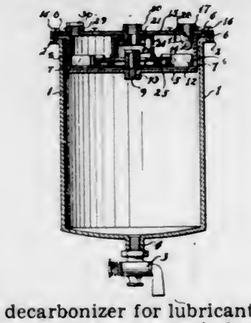
1. In a safety razor, in which the blade is held stationary between a cap and a corresponding seating member, movable guards having mountings spaced below the seating member, resilient means for constantly retaining the guards resiliently projecting out beyond the cutting edges of the blade and constantly tending to prevent the displacement of the guards inwardly from said projecting positions, so that each guard moves inwardly towards and beneath the cutting edge of the blade in proportion as the pressure exerted directly against said guards by the user increases during use, while ensuring an increase of the amount by which the blade projects relatively to the plane tangent to the cap and to the corresponding guard, and means preventing the projection of each movable guard outward beyond a predetermined position beyond the blade.

2,313,896

OIL ACCELERATOR

Eugene S. Scheble, Fort Worth, Tex.

Application March 1, 1941, Serial No. 381,371
6 Claims. (Cl. 210—57)



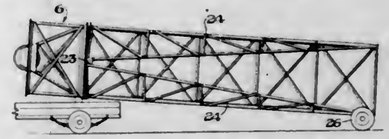
1. In a decarbonizer for lubricants for internal combustion motors, a reservoir having a receptacle arranged in its upper portion, providing a separate chamber, communications in the said chamber with the reservoir, a rotor having radially disposed peripheral vanes operatively arranged in the said chamber, means comprising an inlet nozzle in the said chamber adapted to direct a stream of oil tangentially against the said vanes, a plurality of spirally disposed blades forming a part of the said rotor, the said blades imparting a centrifugal action to the lubricant outwardly and a baffled oil outlet arranged above the axis of the said rotor.

2,313,897

PORTABLE DERRICK

John P. Selberg, Los Angeles, Calif., assignor to International-Stacey Corporation, Columbus, Ohio, a corporation of Ohio

Application January 30, 1941, Serial No. 376,663
6 Claims. (Cl. 189—15)



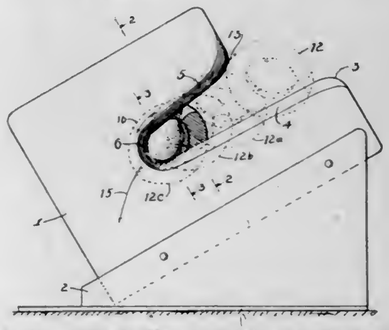
1. In a portable derrick of the type having upper and lower sections, a sleeve-like body forming a part of said lower section, leg means pivotally secured to said body for swinging movement into and out of parallel relation with the longitudinal axis of said body, said leg means serving to support said body in spaced relation from the ground when said derick is in an upright position, said upper section being telescopically received by said sleeve section, and a wheeled support detachably secured to said sleeve-supporting leg means, said derrick being movable about the axis of rotation of the wheels on said support between upright and prone positions.

2,313,898

FRUIT HALVING AND PITTING

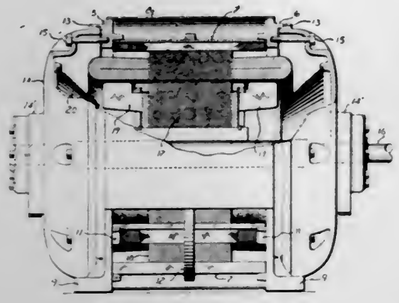
Frank C. Silva, San Jose, Calif.

Application August 11, 1941, Serial No. 406,300
1 Claim. (Cl. 146—28)



A fruit cutting knife comprising, a substantially thick rigidly mounted in a substantially vertical plane and at an angle of substantially thirty degrees to the horizontal, said blade having straight, opposed cutting edges, with its lower edge projecting beyond the upper edge, said edges convergingly gradually and uniformly toward their base and then curved toward each other to form a substantially semicircular terminal cutting edge, and spaced apart a distance less than the length of the major axis of an apricot stone.

2,313,899
DYNAMOELECTRIC MACHINE
Harold L. Smith and Frank J. Rathbun, Milwaukee, Wis., assignors to The Louis Allis Company, Milwaukee, Wis., a corporation of Wisconsin
Application August 1, 1941, Serial No. 405,006
2 Claims. (Cl. 171—252)



1. In a dynamoelectric machine having a stator and a rotor journalled in bearings carried by spaced end brackets for rotation within the stator: a fabricated frame for the machine comprising, two endwise spaced cast rings to which the end brackets are securable; feet for the machine cast integrally with said rings near the bottom thereof; a substantially planar flange projecting radially outwardly from each ring and joined to the feet thereof, said flanges being substantially semi-circular in shape with their lower portions extending radially out beyond the feet of the rings; a sheet metal hood extending between said flanges and secured to the edges thereof, said hood terminating a substantial distance short of the connection between the flanges and the feet so as to provide a large port through which air for cooling the interior of the machine circulates; a plurality of structural channel-shaped tie members extending between the rings in spaced relationship with the hood and having their ends welded to the rings, the flanges of said tie members facing toward the center of the machine; and an annular flange on the outer face of each of said rings, said annular flange having a surface accurately machined so as to properly locate the end brackets of the machine, and the flanges of the tie members being bored concentrically with said machined surfaces of the annular flanges so as to accurately receive and locate the stator of the machine and to thereby insure coaxiality between the stator and rotor.

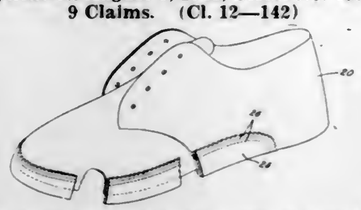
2,313,900
STEP-IN METHOD OF OPERATING OPEN HEARTH FURNACES
Charles A. Stemme, Large, Pa.
No Drawing. Application August 12, 1941, Serial No. 406,482
2 Claims. (Cl. 75—61)

1. The method of removing froth from the surface of the molten metal in open hearth furnaces immediately after the first slag has been tapped from the furnace during the melting down period of the basic open hearth steel making process, which consists of applying steam to the interior of the furnace.

2,313,901
REFINING OF ROSIN ESTERS
William N. Taylor, Hattiesburg, Miss., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application April 18, 1941, Serial No. 389,177
12 Claims. (Cl. 260—103)

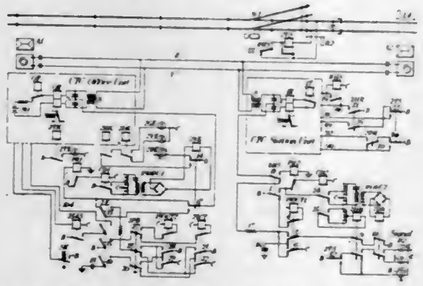
1. A process for refining a rosin ester which comprises treating said rosin ester with nascent hydrogen in the presence of an acidic reactant containing ionizable hydrogen and in the presence of at least a small amount of water.

2,313,902
SHOE AND METHOD OF MAKING SHOES
Chester D. Turner, Haverhill, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application August 8, 1941, Serial No. 405,895
9 Claims. (Cl. 12—142)



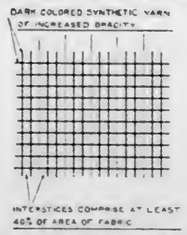
1. A shoe comprising an upper, a shank piece and a sole, said shank piece extending from the heel end of the shoe to its ball line only and said upper being provided with a reinforcing strip which extends beyond the margin of the upper at its forepart and is substantially flush with the lower edge of the upper at the shank and heel portions, said upper and reinforcing strip being turned inwardly at the shank and heel portions of the shoe and being secured in overlasted relation to the shank piece, and the portion of said reinforcing strip extending beyond the margin of said upper at said forepart being turned outwardly and secured to the sole, the shank and heel portions of said sole being attached to the overlasted margins of the upper by cement.

2,313,903
REMOTE CONTROL SYSTEM
James J. Van Horn, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application August 16, 1941, Serial No. 407,201
12 Claims. (Cl. 246—3)



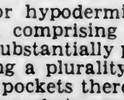
1. In a remote control system, two stations connected by line wires, a code transmitter at each station for delivering impulses to said line wires, a line relay at each station adapted to receive such impulses, a movable contact at each station which in a first position connects the associated code transmitter to said line wires and in a second position connects the associated line relay to said line wires, and means controlled by each line relay when receiving impulses from said line wires with the associated movable contact in its second position for maintaining said associated movable contact in its second position as long as the line relay continues to receive impulses.

2,313,904
DIM-OUT MATERIAL
Henry Cronin Van Brederode, Bronxville, N. Y., assignor to Celanese Corporation of America, a corporation of Delaware
Application June 6, 1942, Serial No. 446,160
5 Claims. (Cl. 139—426)



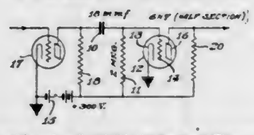
1. A dim out material adapted to diminish the passage of light rays therethrough comprising fabric of dark color made of synthetic yarn of increased opacity and having interstices whose area equals at least 40% of the area of the fabric.

2,313,905
HYPODERMIC NEEDLE RACK
Loren Wallin, Wadesboro, N. C.
Application May 16, 1942, Serial No. 443,241
6 Claims. (Cl. 211—69)



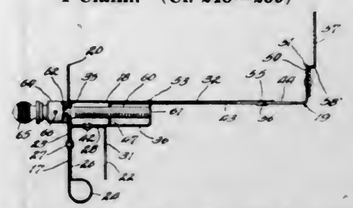
1. A support for hypodermic needles having an enlarged butt, comprising a framework including a pair of substantially parallel bars, each of said bars having a plurality of spaced transversely extending pockets therein, the longitudinal axes of which pockets are inclined with respect to the horizontal, each of said pockets being adapted to hold a needle butt in an inclined position, each of said pockets having a lower end wall provided with an opening for permitting liquid to drain from each of said pockets.

2,313,906
ELECTRICAL DELAY CIRCUIT
Karl R. Wendt, Audubon, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application May 25, 1940, Serial No. 337,158
6 Claims. (Cl. 178—44)



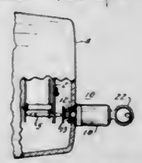
1. The method of utilizing a differentiating circuit for delaying an electrical pulse which comprises differentiating said pulse in said circuit and simultaneously presenting a low impedance to said circuit the entire time that the differentiated signal is of one polarity, and presenting a high impedance to said circuit while the differentiated signal is of the opposite polarity.

2,313,907
WINDOW SHADE ROLLER AND CURTAIN ROD BRACKET
Stanley Woltanski, Chicago, Ill.
Application September 22, 1941, Serial No. 411,807
1 Claim. (Cl. 248—259)



A bracket of the class described, comprising three members, one of said members consisting of a return-bent strip of metal providing an intermediate vertical loop adapted to receive the down-turned end of a drapery rod, one end portion of said strip being straight and terminating in a toothed window frame engaging jaw, the other end portion of said strip being directed laterally, another of said members consisting of a strip of metal having a straight end portion disposed at right angles to the straight end portion of the first-named strip, a forwardly directed portion flatly disposed against said straight end portion of the first-named strip, a portion extended backwardly parallel with the straight end portion of the second-named strip and secured to the laterally directed end portion of the first-named strip, and a second end portion directed rearwardly and secured to said straight end portion of the second-named strip, the remaining third member consisting of a strip of metal having an intermediate straight portion disposed flatly against the straight end portion of said second-named strip, means to slidably connect the second and third mentioned members, one end of said third named strip being directed forwardly and having a threaded opening, the other end of said third named strip being directed rearwardly and forming a second toothed window frame engaging jaw, and an adjusting screw having an outer end journaled in the straight end portion of the first named strip and the forwardly directed portion of the second named strip, said adjusting screw being threaded through the threaded opening in the forwardly directed end of the third-named strip and having its inner end journaled in the rearwardly directed end of the second-named strip.

2,313,908
LOCK TYPE RESET DEVICE
Paul G. Adams, Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 7, 1941, Serial No. 392,275
5 Claims. (Cl. 171—34)



1. In combination with a register including a plunger and a resetting mechanism operable in response to the depression of the plunger, a cover disposed about said register and having an opening therein, operating means movable through

said opening and including a longitudinally resilient member for operating said plunger, and a lock operable from outside said casing to move said longitudinally resilient member to resiliently depress said plunger.

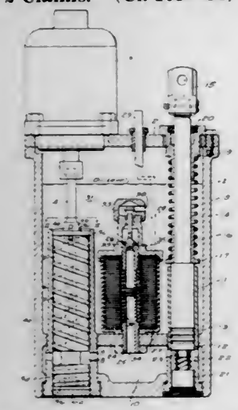
2,313,909

ELECTROHYDRAULIC OPERATOR

Edwin E. Arnold, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Original application March 23, 1939, Serial No. 263,734. Divided and this application June 18, 1941, Serial No. 398,519

2 Claims. (Cl. 103—84)



1. A rotary viscosity pump comprising, in combination, a stationary cylindrical sleeve, a cylindrical body rotatably disposed within said sleeve and a shallow groove on the surface of one of said cylindrical members, an oil supply, conduit means for feeding said oil supply substantially along the axis of said cylindrical rotary body and into said shallow groove for effecting centrifugal priming of said pump and ring means formed on said cylindrical rotary body closely fitted to said sleeve for confining oil in said groove so as to develop high pressure therein and to prevent ingress of oil thereto except through said conduit means.

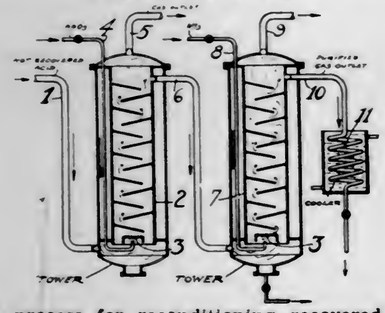
2,313,910

PURIFICATION OF RECOVERED SULPHURIC ACID

Francis M. Archibald, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application March 16, 1940, Serial No. 324,243

1 Claim. (Cl. 23—173)



A process for reconditioning recovered sulphuric acid of 88 to 90% acid concentration containing carbonaceous materials, for reuse in a process involving the absorption and hydration of olefins which comprises heating the sulphuric acid containing 0.5 to 1% of carbonaceous material to a temperature just below the boiling point of said acid and treating the acid with nitric acid in an amount by weight not more than three times the weight of the carbonaceous material present in the sulphuric acid, then treating the acid with anhydrous ammonia to remove the nitric-sulphuric acid complexes, cooling and recycling the acid to the absorption step.

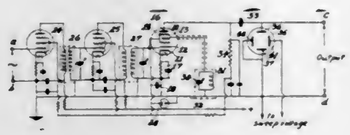
2,313,911

SELECTIVE SYSTEM

Henry M. Bach, Woodmere, N. Y., assignor, by mesne assignments, to Patents Research Corporation, New York, N. Y., a corporation of New York

Application August 8, 1940, Serial No. 351,871

11 Claims. (Cl. 178—44)



1. In a system for translating a modulated signal wave comprising a carrier and a predetermined band of side frequencies, an input circuit, an electron discharge device comprising a cathode and an anode for producing an electron space current, control means including circuit connections from said input circuit to said electron device for varying said space current in accordance with said signal wave, an electrostatic control electrode in said device, means for producing a concentrated variable electron space charge adjacent to said control electrode, an output circuit for said device, the input-output frequency characteristic of said system having a band width sufficient to pass said carrier and side frequency band, resonant impedance means connected to said control electrode and cathode, said impedance means having a frequency response characteristic of substantially reduced band width compared with said input-output frequency characteristic and having its center frequency detuned relative to said carrier frequency to establish a potential upon said control electrode for discrete components of said signal wave of such phase as to modify said input-output frequency response characteristic.

2,313,912

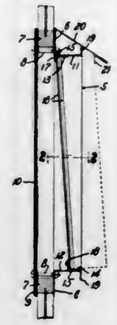
LOUVER CONSTRUCTION

Agnew H. Bahnson, Jr., Winston-Salem, N. C., assignor to The Bahnson Company, Winston-Salem, N. C., a corporation of North Carolina

Application February 21, 1942, Serial No. 431,884

6 Claims. (Cl. 98—119)

1. In a louver, a rectangular frame comprising horizontal upper and lower rails, a plurality of upstanding shutter vanes pivotally mounted between said upper and lower rails to swing outwardly about axes coincident with one edge thereof, a hood carried by said upper rail and projecting outwardly therefrom, and a depending flange carried by said hood adjacent the outer edge thereof, said flange being disposed in the path of the free edge of the shutter vanes and



constituting a stop to limit the outward swinging movement thereof.

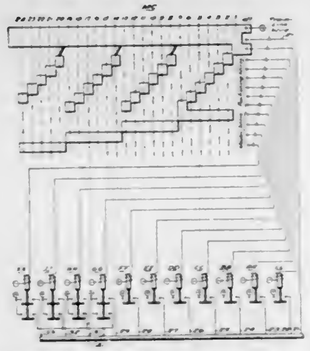
2,313,913

LOCOMOTIVE CONTROL SYSTEM

Cyril E. Baston, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application July 24, 1940, Serial No. 347,117

5 Claims. (Cl. 172—239)



1. In a control system, in combination, a secondary controller, a master controller operable to a plurality of positions, a pilot motor for driving said secondary controller to a position corresponding to the position of the master controller, a plurality of wires interconnecting said controllers, the number of said wires being less than the number of positions of said controllers, a directional relay having a pair of actuating coils, and a selector relay for controlling the energization of the directional relay coils, said relays cooperating with said controllers to control the operation of the pilot motor.

2,313,914

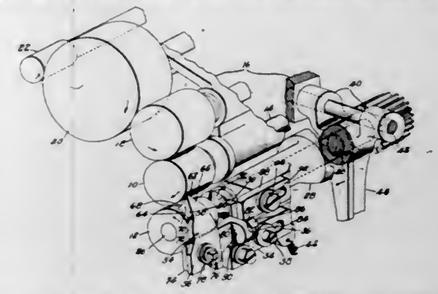
GAUGE FOR CEMENTING MACHINES

Clifton T. Batchelder, Haverhill, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application July 18, 1941, Serial No. 402,923

4 Claims. (Cl. 12—80)

1. A gauge for an adhesive applying machine in which a pair of co-operating superposed rolls are employed, the upper roll of which is supplied with adhesive, said gauge having a surface sloping upwardly from the peripheral surface of the lower roll and inwardly from its outer end surface, said surface having an edge substantially concentric with the surface of the upper roll and an edge substantially concentric with the surface of the lower roll, said edges intersecting at a point adjacent to the bite of the rolls.



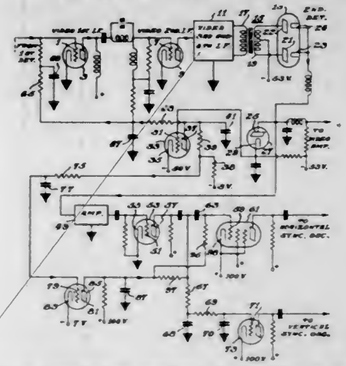
2,313,915

SYNCHRONIZING CIRCUIT FOR TELEVISION RECEIVERS

Alda V. Bedford, Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application July 31, 1940, Serial No. 348,878

4 Claims. (Cl. 178—7.5)



1. In a television system including a synchronizing signal channel, the combination of means for applying signals to said channel and means for increasing the gain of said signals in said channel with an increase in applied signal strength and decreasing the gain of said signals in said channel with a decrease in applied signal strength.

2,313,916

GENERATOR AND MOUNTING MEANS THEREFOR

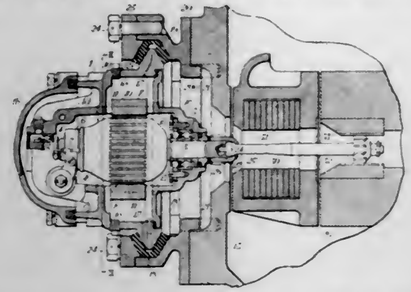
Herbert L. Bone and John W. Livingston, Forest Hills, Pa., assignors to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application January 4, 1941, Serial No. 373,132

7 Claims. (Cl. 105—96.1)

1. A self-centering shock absorbing mounting for a device which is adapted to be secured to the axle housing and driven from the axle of a railway vehicle, said mounting comprising an outwardly extending substantially V-shaped flange on the device, a resilient vibration absorbing ring substantially V-shaped in cross section

surrounding said flange, a plate secured to the axle housing and provided with an annular recess which mates with and receives the one side of said resilient ring, and a clamping ring provided with an annular face which mates with and engages the other side of said resilient ring



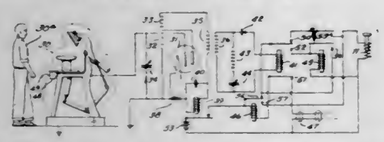
securely clamped in a position to partly compress said resilient ring, clearance being provided between said flange at its point of maximum diameter and said resilient ring to increase the flexibility of said mounting.

2,313,917

CONTROL OF POWER ACTUATED MACHINERY

Henry Herbertson Brownlee, New York, N. Y.

Application January 29, 1938, Serial No. 187,593
12 Claims. (Cl. 38—40)



1. A power operated garment press, means for maintaining within a space adjoining the press a field of energy sensitive to movements relative thereto of external bodies, a device responsive to the moisture content of a garment in the press, and power applying and disabling means under the joint control of said energy maintaining means and said device and rendered effective to close the press only upon the movement of such a body from a position within to a position outside of said space and to open the press either upon the movement of such a body from the position outside to a position within said space or upon a certain reduction of the moisture content of said garment.

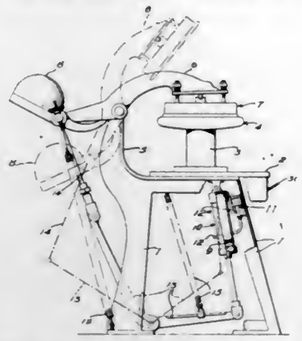
2,313,918

CONTROLLING MECHANISM FOR IRONING MACHINES

Henry Herbertson Brownlee, New York, N. Y.

Application December 13, 1938, Serial No. 245,391
8 Claims. (Cl. 38—40)

1. A textile press comprising a stationary buck member, a pivoted head member, fluid motor power means for actuating said head, a valve for controlling said head member, an electrode insulatedly mounted on one of said members, the other of said members being electrically conductive, manually operated means to actuate said valve to move said head member toward the buck member, a balanced electric circuit having two conditions of balance, and means responsive to the variation of resistance between said electrode and said conductive member to cause said circuit to change from one position of balance to



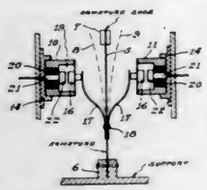
the other to actuate said valve to move said head member away from the buck member.

2,313,919

ELECTRICAL VIBRATOR DEVICE

Alexander D. Burt, Haddon Heights, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application February 9, 1939, Serial No. 255,396
3 Claims. (Cl. 200—90)



1. A high frequency vibratory contact device for synchronous multiple circuit current interruption, comprising in combination, a spring armature element fixedly mounted at one end and proportioned to vibrate at the opposite free end with a short period, tubular contact cartridges mounted substantially coaxially in pairs on opposite sides of the armature element and containing inert gas under pressure, spring actuating members carried by the armature, one for each contact cartridge, a diaphragm at one end of each cartridge engaged and operated, and held substantially unflexed when said armature is at rest in a position of equilibrium, by one of said spring actuating members, said spring members exerting sufficient pressure on said diaphragms to substantially balance the pressure exerted by said gas, and contacts sealed in said cartridges in pairs and operatively responsive to movement of the diaphragm.

2,313,920

GAUGE STRIP

Julian A. Campbell, Long Beach, Calif.

Application April 16, 1941, Serial No. 388,903
8 Claims. (Cl. 33—111)

1. The combination comprising a pair of elongated gauge strip sections alined in end-to-end relation and having series of numbered lineal graduations, a plate element interconnecting the ends of said sections and set within recesses in the graduated surfaces thereof, and means carried by said element holding said sections against

longitudinal movement apart, said element having an opening to receive a screw to be inserted



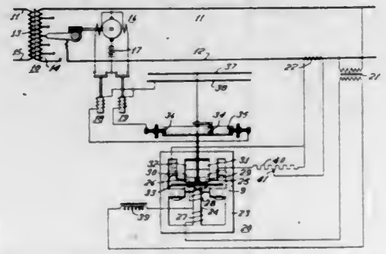
through the element and beyond the strip sections into a support.

2,313,921

REGULATOR CONTROL EQUIPMENT

Herbert J. Carlin, East Orange, and Leslie N. Crichton, deceased, late of Livingston, N. J., by Ruth M. Crichton, administratrix, Livingston, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application January 9, 1942, Serial No. 426,259
5 Claims. (Cl. 171—119)



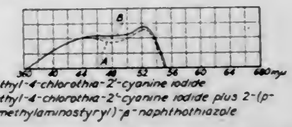
1. In combination, an electric circuit having a line impedance, regulator means connected to said circuit for varying an electric quantity thereof, a primary relay for controlling the regulator means, the relay comprising a magnetic core structure, a plurality of windings disposed thereon, and a disk disposed for movement when the windings are energized to produce a torque thereon for controlling the regulator means, one of the windings being supplied with electric energy at a voltage that is a measure of the voltage of the electric circuit, compensating means connected in circuit with said one of the windings for compensating for the phase angle of the impedance of the electric circuit, said compensating means maintaining the current in said one of the windings substantially constant for changes in ambient temperature, another of the windings being supplied with electric energy at a current value that is a measure of the current in the electric circuit, and compensating means connected in circuit with said another of the windings, for compensating for the magnitude of the impedance of the electric circuit independently of the phase angle of said impedance.

2,313,922

PHOTOGRAPHIC EMULSION

Burt H. Carroll and John A. Leermakers, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application June 10, 1939, Serial No. 278,572
In Great Britain July 8, 1938
26 Claims. (Cl. 95—7)



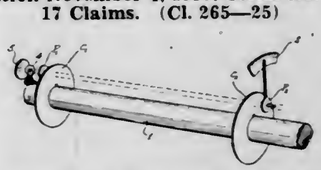
1. A photographic silver halide emulsion containing a supersensitizing combination of at least one sensitizing dye selected from the group consisting of pseudocyanine dyes, carbocyanine dyes and hemidicarbocyanine dyes, together with at least one heterocyclic nitrogen base containing a dialkylaminostyryl group in a reactive position.

2,313,923

MEASUREMENT OF TORQUE AND POWER TRANSMITTED BY SHAFTING

Lewis W. Chubb, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application November 4, 1939, Serial No. 302,893
17 Claims. (Cl. 265—25)



1. Apparatus for measuring a quantity which is a function of angular displacement of two longitudinally disposed, angularly displaceable elemental portions of a drive shaft means comprising, in combination, a polarized source of light mounted adjacent one of said elemental portions so as to throw a beam adjacent the other of said elemental portions, a pair of fractional wave plates of birefringent material, one secured to each of said elemental portions and through which said beam is transmitted, a polarizing screen associated with the birefringent plate which is furthermost from said light source and which acts as an analyzer, indicating means associated with said last mentioned birefringent plate for measuring a quantity which is a function of the angular displacement of said two angularly displaceable elemental portions.

2,313,924

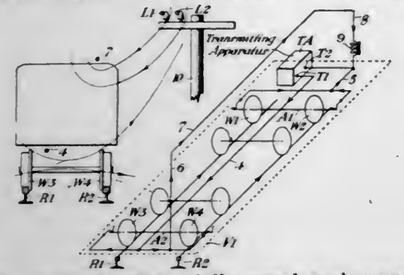
TRANSMITTING APPARATUS FOR RAILWAY TRAIN COMMUNICATION SYSTEMS

Austin M. Cravath, San Francisco, Calif., assignor to The Union Switch and Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application June 3, 1942, Serial No. 445,566
10 Claims. (Cl. 246—8)

1. In combination with transmitting apparatus mounted on a railway vehicle for supplying communication current, a sending circuit connected to said transmitting apparatus and disposed on said vehicle for electrical coupling to the track rails for transfer of communication current to the rails, and an additional circuit connected

to said transmitting apparatus in parallel with said sending circuit and disposed to have a mag-



netic moment substantially equal and opposite to the magnetic moment of said sending circuit.

2,313,925

COATING METALS BY THE AID OF ACID SULPHITES

Leo P. Curtin, Cranbury, N. J., assignor, by mesne assignments, to Parker Rust-Proof Company, Detroit, Mich., a corporation of Michigan

No Drawing. Application April 16, 1937, Serial No. 137,376

9 Claims. (Cl. 148—6)

1. A method which comprises obtaining a corrosion resistant coating on a surface composed principally of one of the group consisting of iron and zinc by subjecting such surface to the action of a solution, made up by dissolving in water a solid soluble acid sulphate and a solid soluble sulphite, until a visible protective coating is obtained on the metallic surface and thereafter treating the coated surface with a solution of chromic acid.

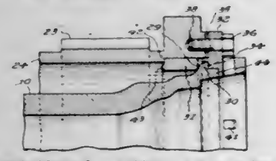
2,313,926

CENTRIFUGAL CASTING APPARATUS

Robert E. Daniel, Birmingham, Ala., assignor to United States Pipe and Foundry Company, a corporation of New Jersey

Application April 9, 1942, Serial No. 438,258

8 Claims. (Cl. 22—65)



1. In centrifugal casting apparatus having a cylindrical mold rotatably and removably mounted in a water box and a driving sleeve surrounding one end of the mold and spaced therefrom, means for providing a driving connection and a water seal between said sleeve and said mold comprising spaced shoulders arranged circumferentially of said end of the mold to provide opposed radial clamping faces, an internal shoulder on said sleeve to provide a radial clamping face opposed to and spaced longitudinally from the innermost shoulder on said mold, a removable driving and sealing ring interposed between the shoulder on said sleeve and the innermost shoulder on said mold, a flange ring having its inner edge in engagement with the outermost shoulder on said mold and its outer edge spaced from the outer end of said driving sleeve, and means cooperating with said sleeve and said flange ring to clamp said driving and sealing ring in place.

2,313,927

SOLDERLESS CONNECTOR

Hiller D. Dorfman, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application July 12, 1941, Serial No. 402,168

1 Claim. (Cl. 173—259)



A terminal connector for an electrical conductor comprising, in combination, a terminal plate having a pair of oppositely disposed ears thereon, a substantially rectangular and seamless sleeve retained on said plate by said ears for receiving the conductor, said ears extending beyond opposite sides of said sleeve and being bent over into the open ends of the sleeve to engage the sleeve, said terminal plate extending from the conductor substantially at right angles to and below the longitudinal axis of the conductor, and means disposed in said sleeve for pressing the conductor against the terminal plate.

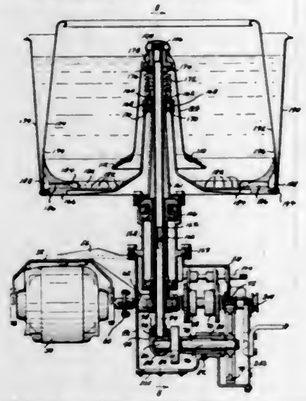
2,313,928

DOMESTIC APPLIANCE

John B. Dyer, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware

Application April 24, 1939, Serial No. 269,594

6 Claims. (Cl. 68—23)



1. A washing machine including a receptacle, a centrally located supporting means extending upwardly from beneath the receptacle, means for inherently balancing said receptacle including a universal type connection between said supporting means and said receptacle, said connection having its pivot point above the lower half of said receptacle, an agitator within said receptacle, means for operating said agitator including connecting means extending within said supporting means and connecting to said agitator, and means for rotating said supporting means and said receptacle.

4. A washing machine including a receptacle, a rotatable sleeve below said receptacle, a universal type connection between said receptacle and sleeve centrally located in said receptacle, a vertically reciprocable rod inside said sleeve and universal type connection and extending into said basket, independent driving means below said receptacle for said sleeve and rod and a vertically

reciprocable tubular agitator in said receptacle secured to said rod and spaced around said universal type connection.

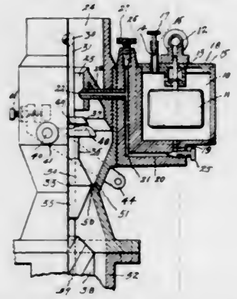
2,313,929

CARBURETOR FOR EXPLOSION ENGINES

Julius Fuchs, Cleveland, Ohio, assignor of forty-five per cent to Jacob Verhun, Cleveland, Ohio

Application July 3, 1941, Serial No. 400,948

1 Claim. (Cl. 261—47)



In a carburetor the combination of a casing, a manifold, an integrally formed venturi in the casing, a vertically arranged mixing chamber above the venturi, a vertically arranged primary mixture forming tube concentrically arranged in the aforesaid mixing chamber and supported by apertured ribs therein, a horizontally extending fuel nozzle terminating in the primary mixture forming tube and discharging thereinto, a fuel chamber having a duct for conducting fuel therefrom to the fuel nozzle, a support in the mixing chamber positioned above the vertically arranged primary mixture forming tube, a shaft connected to the supoprt and projecting perpendicularly downward through the vertically arranged mixing chamber, the vertically arranged primary mixture forming tube and the venturi and terminating in the upper portion of the manifold, a slidably mounted control valve member mounted on the shaft, a flange on the upper end of the aforesaid control valve member and below the primary mixture forming tube and cooperating with the primary mixture forming tube and adapted to restrict a small portion of the mixing chamber to control the volume of the flow of fuel, the slidably mounted control valve member cooperating with the venturi which forms a valve seat therefor, a lever cooperating with the control valve member and adapted to manually control the control valve member, and a rifled member rotatably mounted on the shaft below the control valve member and the venturi and in the upper part of the manifold and adapted to cause a whirling of the fuel mixture in the manifold to promote vaporization thereof.

2,313,930

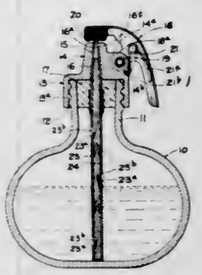
DEVICE FOR DISPENSING LIQUID IN THE FORM OF SPRAY

Charles L. Gebauer, Shaker Heights, Ohio, assignor to The Gebauer Chemical Company, Cleveland, Ohio, a corporation of Ohio

Application April 5, 1941, Serial No. 387,055

7 Claims. (Cl. 299—89)

1. A dispensing device comprising, in combination, a receptacle for liquid and a closure therefor, said closure including a cap element secured to the top of said receptacle and comprising a nozzle structure including a nozzle passage extending as far as the upper end of the cap element and provided in its upper end with a capillary discharge opening, a capillary feeding element having its upper end mounted within the said nozzle passage and its lower end extending into the lower part of said receptacle thereby to contact liquid therewithin, and movable means normally closing the capillary nozzle opening and



adapted to be operated for movement to uncover said opening, the portion of said capillary feeding element which is normally above said liquid being exposed to the free access of vapor under pressure generated from and/or by said liquid and providing for the free passage of vapor therethrough to the said discharge opening.

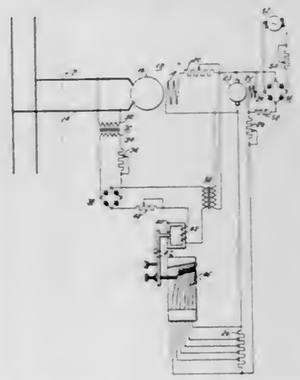
2,313,931

ELECTRICAL REGULATING SYSTEM

Ralph A. Geiselman, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

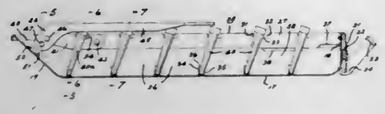
Application January 8, 1941, Serial No. 373,541

7 Claims. (Cl. 171—119)



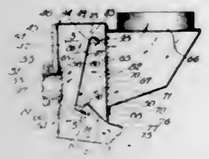
1. In a regulating system, in combination, a motor driven generator for delivering current to a variable load, an exciter having a field winding for the generator, means responsive to the generator voltage for controlling the excitation of the exciter, a source of direct current connected across the exciter field and operative independently of the operation of the voltage responsive control means to oppose the field excitation, and means connected in circuit with the direct current source to prevent the exciter field current from traversing the direct current source, the source of direct current cooperating to accelerate the decrease in the exciter voltage in response to the functioning of the control means.

2,313,932
REFRIGERATING APPARATUS
Frank W. Gerard, Oakwood, and Francis I. Rataiczak and Sylvester M. Schweller, Dayton, Ohio, assignors to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application June 27, 1941, Serial No. 400,064
8 Claims. (Cl. 62—108.5)



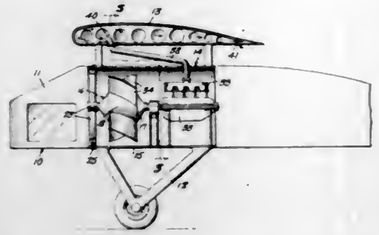
7. A grid for an ice tray comprising, a longitudinal member and a plurality of substantially inflexible transverse molded plastic partitions separate from and carried by said member for movement relative thereto, means for applying force to said partitions to cause said relative movement thereof, and means cooperating with said force applying means to distribute the force over a substantial area of one of said transverse partitions.

2,313,933
HEATING APPARATUS
Bernard Goerg, Bronxville, N. Y., assignor to American Radiator & Standard Sanitary Corporation, New York, N. Y., a corporation of Delaware
Application July 26, 1941, Serial No. 404,169
12 Claims. (Cl. 126—307)



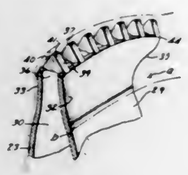
1. A back-draft diverter comprising a hollow casing having an inlet for flue gases through one side thereof and a chimney outlet through the opposite side thereof and having an atmospheric outlet through the lower part thereof; a baffle arranged in a generally upright position within said casing and between said flue-gas inlet and chimney outlet to provide at one side thereof an inlet chamber in open communication with said flue-gas inlet and with said atmospheric outlet, and to provide at the other side thereof an outlet chamber in open communication with said chimney outlet; said baffle being spaced from the lower portion of the casing to provide a discharge opening at the lower part thereof adjacent and communicating with said atmospheric outlet, and said baffle being spaced from the upper portion of the casing to provide an opening at the top of said baffle connecting said inlet and outlet chambers, and the surface of said baffle facing said flue-gas inlet being inclined upward and away from said flue-gas inlet and the surface of said baffle facing said chimney outlet being inclined downward and away from said outlet and toward said discharge opening, so that during normal operation flue gas entering the casing through said inlet is directed upward and through the opening at the top of the baffle and into the outlet chamber, and so that back draft through said chimney outlet will be directed downward and through said discharge opening.

2,313,934
TRACTOR PLANE
Albert C. Gienger, Chiloquin, Oreg.
Application May 6, 1940, Serial No. 333,657
1 Claim. (Cl. 230—116)



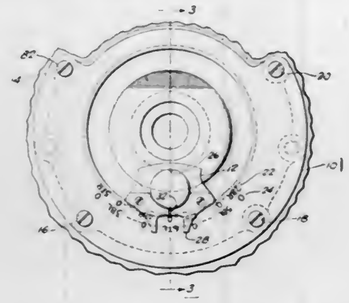
A wind tunnel for aircrafts, comprising an elongated cylinder of the same diameter throughout its length, a bearing supported centrally within the outer end of the cylinder by radially extending spokes, a transmission housing supported within the cylinder and spaced some distance from the bearing, a bearing carried by the transmission housing in alinement with the first mentioned bearing, a shaft mounted in said bearing and having a gear connection with the transmission, a drum mounted on the shaft and having elongated curved blades, a motor support carried by the cylinder in beyond the transmission housing, a motor carried thereby and having its shaft in a horizontal alinement with the fan shaft and carrying a gear driving the transmission.

2,313,935
CLEANING MACHINE FOR CUFFS OF TROUSERS AND THE LIKE
William C. Glover, Jr., Raytown, Mo., assignor to Cleaners Specialties, Inc., Kansas City, Mo., a corporation of Missouri
Application February 13 1941, Serial No. 378,724
2 Claims. (Cl. 15—15)



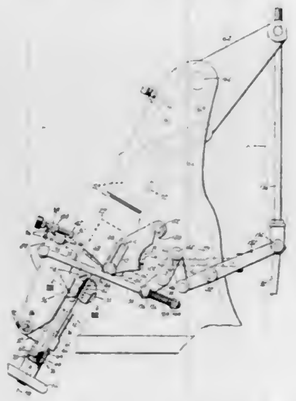
1. In a machine for cleaning the cuffs of trousers and the like, a suction nozzle having side walls spaced apart and having upwardly and outwardly projecting end walls cooperating with terminal edges of the side walls to form an elongated slot-like opening of less length than the spacing between the tackings of a cuff, and a plurality of spaced triangular-shaped teeth projecting upwardly from the edges of the side walls and extending transversely of the slot-like opening, said teeth having upwardly converging edge faces to closely engage in the fold crease of the cuff, said outwardly projecting end walls forming portions adapted to pass into the space between the tacking and fold crease of the cuff to present the teeth to the portions of the cuff underlying the tackings.

2,313,936
VALVE SETTING TEMPLATE
George Groskritz, Hartford, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application December 21, 1940, Serial No. 371,166
5 Claims. (Cl. 33—181)



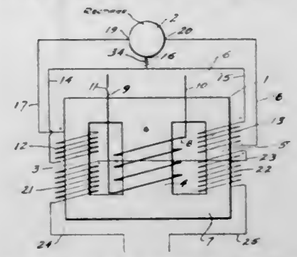
1. An engine valve timing template comprising, a flat annular member having means thereon to secure said member in a predetermined position to a relatively fixed engine part, and an indexing member positoned within said annular member and movable to various indicated positions about said annular member, and means carried by said indexing member for engaging a movable engine part and retaining said movable engine part in an indexed position relative to said fixed engine part.

2,313,937
HEEL GROOVE MOLDING MACHINE
George Hazelton and Cyril Harry James, Leicester, England, assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application October 15, 1941, Serial No. 415,100
In Great Britain April 5, 1939
13 Claims. (Cl. 12—42)



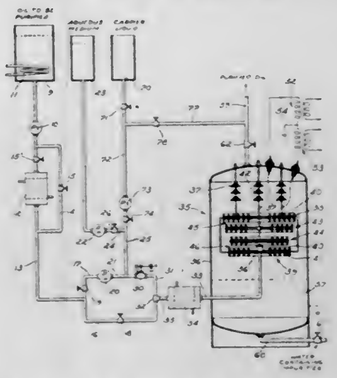
1. A machine for operating upon heels having, in combination, a matrix constructed and arranged to enter a groove formed in a conformable heel, and means constructed and arranged to operate against the heel and to force opposite walls of the groove against the matrix whereby to mold the groove to a shape determined by the matrix.

2,313,938
FREQUENCY DOUBLER DEVICE
Willard C. Hall, Jr., and Everett L. Le Gette, Los Angeles, Calif., assignors to Alfred P. Daniels, Los Angeles, Calif.
Application October 18, 1941, Serial No. 415,558
8 Claims. (Cl. 172—281)



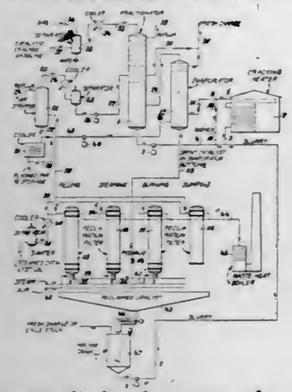
8. In a device for changing the frequency of electric currents, a transformer means having a plurality of flux paths with primary and secondary coils, the secondary coils comprising winding sets, each set including an output coil and a control coil, means to short and open the control coils in sequence to cause a full cycle minor wave of current in the output coils for each half cycle of major wave of current in the primary of the transformer.

2,313,939
METHOD AND APPARATUS FOR ELECTRICALLY TREATING OILS
Gordon B. Hanson, Houston, Tex., assignor, by mesne assignments, to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware
Application June 17, 1938, Serial No. 214,377
15 Claims. (Cl. 204—190)



1. A process for removing water-associated impurities from an oil containing original water droplets dispersed therein, which process includes the steps of: blending into said oil an auxiliary mixture comprising a carrier liquid predominantly miscible with said oil and carrying dispersed droplets of an aqueous medium which is relatively more free of the impurities than are the original water droplets, thus forming a resulting mixture containing coexisting droplets of the original water and the aqueous medium; subjecting this resulting mixture to the action of an electric field to coalesce in large measure said coexisting droplets; and separating the coalesced masses.

2,313,940
CATALYTIC CRACKING AND RECLAMATION OF CATALYSTS
Joel H. Hirsch, Wichita, Kans., assignor to The Vickers Petroleum Co. of Delaware, Wichita, Kans., a corporation of Delaware
Application January 14, 1941, Serial No. 374,317
1 Claim. (Cl. 196—52)

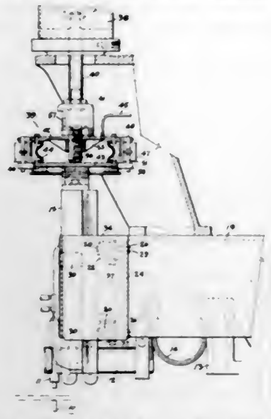


The herein disclosed process of catalytically cracking hydrocarbon oils, which comprises forming a slurry of finely divided solid cracking catalyst, mixing said slurry with the oil to be cracked and passing the mixture so formed, with the finely divided cracking catalyst in intimate contact with the oil, through a confined elongated heating and cracking zone heated to catalytic cracking temperatures, separating the heated mixture into a vapor portion free of catalyst and a residual liquid containing the spent catalyst, removing the residual liquid containing the catalyst from the separating zone, hot filtering the spent catalyst out of the residual hot liquid, regenerating the accumulated catalyst in the filtration zone, returning the regenerated catalyst from the filtration zone to the slurry, thereby recycling it back to the catalytic cracking zone, flashing the hot filtrate to vaporize cycle stock and to leave a hot liquid residue of cracked fuel oil and returning a portion of the hot liquid residue to the separating zone to augment the volume of residual liquid carrying the spent catalyst from the separating zone.

2,313,941
PRESS WELDER CONSTRUCTION
Stanley M. Humphrey and Melvin Max Albert Seeloff, Warren, Ohio, assignor to The Taylor-Winfield Corporation, Warren, Ohio, a corporation of Ohio
Application April 10, 1941, Serial No. 387,878
18 Claims. (Cl. 219—4)

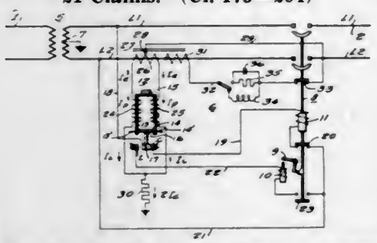
2. Welding apparatus comprising in combination, a normally fixed electrode, a movable electrode, a slide supporting said movable electrode for movement toward and away from said fixed electrode, said slide having rearwardly inclined bearing surfaces, means to oppose lateral movement of said slide in one direction, and antifrictionally mounted rolls engaging said surfaces to oppose lateral movement of said slide in the other directions.

9. Welding apparatus comprising in combination a normally fixed electrode, a movable electrode, a slide supporting said movable electrode for rectilinear movement toward and away from said fixed electrode, means to move said slide, a collapsible bellows interposed between said means and slide whereby pressure exerted by said means on said movable electrode passes through



said bellows, and means to maintain a predetermined fluid pressure in said bellows.

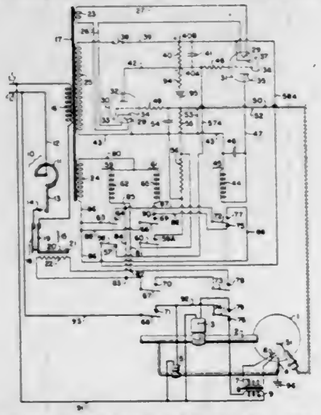
2,313,942
RELAY SYSTEM
Floyd D. Johnson, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 11, 1941, Serial No. 388,079
21 Claims. (Cl. 175—294)



18. In an electrical distribution system, an electrical circuit, a circuit breaker for connecting and disconnecting portions of said circuit, a pair of operating means, means differentially responsive to said operating means for controlling said circuit breaker, and energizing means for said operating means, said energizing means including means effective when said circuit breaker is in circuit disconnecting condition for energizing said operating means respectively in accordance with the sum and difference of voltage present in said circuit on one side of said circuit breaker and voltage between said portions of said electrical circuit.

2,313,943
CONTROL APPARATUS
Harry S. Jones, Philadelphia, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania
Application May 4, 1940, Serial No. 333,336
11 Claims. (Cl. 158—28)

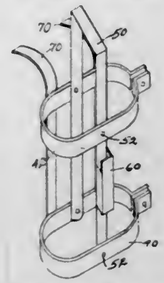
1. A safety control system for a fuel burner including in combination, means for producing a flame at said burner, means to control said first mentioned means having a first operating condition in which said first mentioned means is permitted to produce a flame at said burner and having a second operating condition in which said first mentioned means is prevented from producing a flame at said burner, a source of alternating current, an impedance, an electric discharge device having an input circuit including said impedance and an output circuit including said control means and said source of alternating current, the flow of current in said output circuit being adapted to be controlled in accordance with the potential drop across said impedance, said control means being adapted to assume its first condition in response to the flow of current in the output circuit of said discharge device and being adapted to assume its second condition when the current flow in said output circuit is reduced, a pair of electrodes insulated from each other and positioned in the path of said burner flame, and a second electric discharge device having an input circuit and an output circuit, the output circuit of said second discharge



device including said impedance and said source of current whereby a potential drop is produced across said impedance in accordance with the current flow in the output circuit of said second electric discharge device, the input circuit of said second discharge device including said source of current, said flame electrodes and said impedance, said impedance being so connected in the input circuit of said second discharge device that the potential drop thereacross operates to positively bias one of the flame electrodes as required to render the system insensitive to the direction of the rectifying characteristic of the flame whereby the system is sensitive to the presence or absence of a flame regardless of the position of the electrodes in the flame.

2,313,944
PORTABLE WELDING UNIT
Barnett A. Keener, New Lebanon, and Curtis G. Comer, Dayton, Ohio
Application December 16, 1940, Serial No. 370,426
1 Claim. (Cl. 224—25)

In a device for holding a pair of cylindrical tanks of unequal weights, said tanks being arranged side by side and held in position by a plurality of removably mounted elongated flexible split hoops having the sides flattened, said hoops encircling the tanks, the combination including an inverted U-shaped member fixedly attached to oppositely disposed portions of the hoops so that one portion of each hoop is attached to one of the legs and the opposite portion of each hoop is attached to the other leg, said U-shaped member being eccentrically attached to the hoops to balance the weight of the tanks, said U-shaped member holding both portions of the hoops in fixed spaced relation, means for tightening the split hoops for encircling the tanks and inverted J-shaped hooks attached to the hoops on either side of one of the legs of

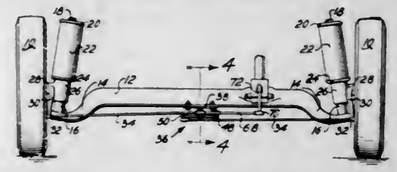


the U-shaped member, said inverted J-shaped hooks cooperating with the U-shaped member to hold the hoops in fixed spaced relation with each other, said hooks being adapted to be supported upon the shoulders of the person for carrying the device on his back.

2,313,945
AGE RESISTOR FOR RUBBER COMPOSITIONS
Henry B. Kellog, Union City, and Irving E. Lightbown, Elizabeth, N. J., assignors, by mesne assignments, to Jasco, Incorporated, a corporation of Louisiana
No Drawing. Application May 4, 1939, Serial No. 271,710
4 Claims. (Cl. 260—93)

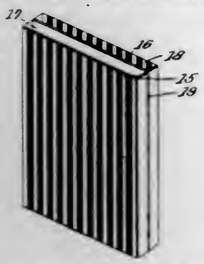
1. A new composition of matter comprising in combination a rubbery substance characterized by a high elongation under load, a forcible retraction to approximately original size upon removal of load, and reactivity with sulfur, together with sulfur, a vulcanization accelerator and alpha naphthyl isothiocyanate.

2,313,946
STEERING LINKAGE
Floyd F. Kishline, Kenosha, Wis., assignor to Nash-Kelvinator Corporation, Kenosha, Wis., a corporation of Maryland
Application November 27, 1940, Serial No. 367,313
4 Claims. (Cl. 280—96)



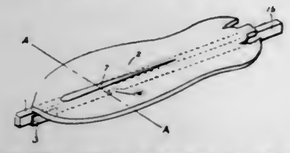
1. In an automotive vehicle, a rigid cross member forming a support for dirigible road wheels and a steering linkage comprising, a centrally disposed idler guide link pivoted to said cross member and projecting forwardly therefrom, steering arms connected to said dirigible wheels and diverging forwardly therefrom, tie rods connecting said steering arms to said idler guide link, and a steering gear mounted upon said cross member and arranged to move said idler link about its pivoted support, each of said steering tie rods being articulated to said idler guide link at a point closer to the opposite steering arm than to the steering arm to which it is operatively connected.

2,313,947
SCREEN AND GRATING FOR STEREOSCOPIC PICTURES
Anna J. M. Klinkum, New York, N. Y.
Application August 1, 1940, Serial No. 349,189
2 Claims. (Cl. 88—28.93)



1. A grating and screen structure for stereoscopic-effect pictures comprising a body of transparent solid material, a grating on one surface of said body, a second body of transparent solid material, a grating on one surface of said second body, and said bodies of transparent solid material being cemented together at the surfaces opposite the gratings, with semi-transparent cement forming a single translucent screen in the structure.

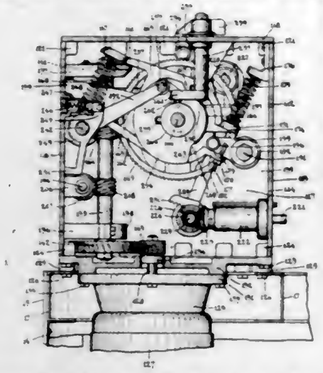
2,313,948
GLIDING DART
Emile Lambert, Concordia, Kans., assignor to N. E. Walker, Dora E. Walker, and L. B. Walker, doing business under name and style American Junior Aircraft Company, Portland, Oreg., a copartnership
Application September 2, 1941, Serial No. 409,159
7 Claims. (Cl. 46—79)



1. A dart-like glider adapted to be catapulted by an elastic member comprising an elongated shaft, a longitudinally disposed wing element secured to one face of said shaft and extending substantially the entire length of said shaft, a weighted head secured to said shaft, said head being made of a material having greater specific gravity than that of which the remainder of said glider is made, the center of gravity of the entire glider being arranged adjacent the center of lift of said wing, said head being arranged substantially forwardly thereof, whereby when said glider is catapulted upwardly it will be projected endwise until its momentum is spent and it will then descend flatwise with the wing element arranged substantially level.

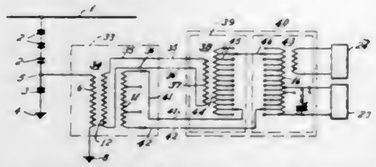
2,313,949
DOUGHNUT MACHINE
Alexander S. T. Lagaard, Minneapolis, Minn., assignor to Dough-King, Inc., Minneapolis, Minn., a corporation of Minnesota
Application January 27, 1941, Serial No. 376,135
11 Claims. (Cl. 107—14)

1. In combination, a dough cutter including a duct for dough provided with an outlet through which dough is extruded, a movable valve member for said outlet movable in one direction to open said outlet to permit of the extrusion of dough therethrough and movable in the opposite direction to sever the extruded dough and close said outlet, a revoluble member, resilient means for instantly moving said



valve member in one direction, other resilient means for instantly moving said valve member in the other direction, and means operated by said revoluble member for controlling the action of both of said resilient means.

2,313,950
POTENTIAL DEVICE
Paul O. Langguth and Samuel A. Bottonari, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 4, 1942, Serial No. 437,670
4 Claims. (Cl. 171—119)

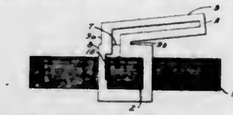


1. In combination, a source of alternating electromotive force, a plurality of condensers connected in series across said source, a main transformer having a primary winding connected across a portion of said condensers and a secondary winding, a magnetic shunt between the primary and secondary windings of the main transformer providing a path for leakage flux, a tertiary winding about the magnetic shunt and means for selectively adjusting the quantity relationship of the leakage flux comprising a compensating transformer having a winding connected in series with the tertiary winding of the main transformer and a winding in series with the secondary winding of the main transformer, said last named winding being provided with a plurality of tap connections for varying the number of winding turns in series with the main transformer secondary winding.

2,313,951
WATTHOUR METER
Richard M. Leippe, East Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 13, 1939, Serial No. 309,012
7 Claims. (Cl. 171—264)

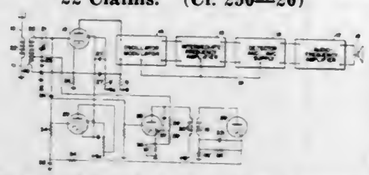
1. In an induction meter, an electromagnetic structure including voltage and current poles and

means for producing in said poles magnetic fluxes controlled respectively by the voltage and current of an alternating current circuit, a first quadrature loop mounted on one of said poles for maintaining a quadrature relationship between the magnetic fluxes in said voltage and current poles at a first predetermined frequency and at a first power factor of an alternating current circuit, and an auxiliary non-adjustable quadrature loop mounted on said one of said poles and effective with said first quadrature loop for main-



taining a quadrature relationship between the magnetic fluxes in said voltage and current poles at a second predetermined frequency and at said first power factor of an alternating current circuit, said auxiliary quadrature loop having a portion accessible when said meter is in assembled condition whereby said auxiliary quadrature loop may be opened, and said quadrature loops being positioned adjacent each other to surround substantially the same portion of said magnetic fluxes.

2,313,952
ATTENUATOR CIRCUIT
Harold M. Lewis, Great Neck, N. Y., assignor to Hazeltine Corporation, a corporation of Delaware
Application April 7, 1938, Serial No. 200,647
22 Claims. (Cl. 250—20)

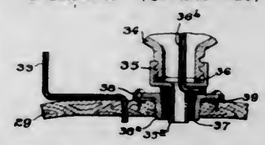


1. In a modulated-carrier signal receiver comprising an input circuit and a vacuum tube having an input circuit in the signal-translating channel of the receiver, an attenuator comprising a coupling circuit for coupling said input circuit of said receiver to said input circuit of said vacuum tube, a cathode resistor for said vacuum tube, said vacuum tube having an output circuit returned for signal-frequency components directly to its cathode, substantially nonfrequency-selective means for developing across said resistor potentials opposite in phase to those developed in said vacuum-tube input circuit by said coupling circuit, and means for varying the effectiveness of said last-named means to vary the intensity of the signal developed in said output circuit.

2,313,953
PROCESS FOR RESINIFYING LIGNO-CELLULOSIC MATERIALS
William Karl Loughborough, Madison, Wis., assignor to Claude R. Wickard, as Secretary of Agriculture of the United States of America, and to his successors in office
No Drawing. Application March 17, 1941, Serial No. 383,798
5 Claims. (Cl. 144—309)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

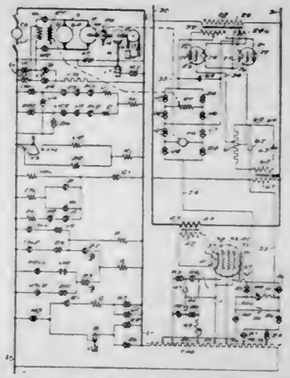
1. A process for producing a wood product which is initially highly plastic, and which finally becomes resinified, comprising the following steps: soaking wood in an aqueous formaldehyde urea solution which contains an excess of urea, on an atomic weight basis, the mixture containing suitable buffers which maintain its pH at about 8; removing said wood from said solution; heating said wood to a temperature of substantially 212° F.; altering the shape of said heated wood; drying said wood; heating said wood to a temperature of substantially 300° F.; and maintaining said temperature until resinification is complete.

2,313,954
BEVERAGE DISPENSING DEVICE
George V. Mariani, San Antonio, Tex.
Application April 2, 1940, Serial No. 327,498
3 Claims. (Cl. 225—40)



1. Beverage dispensing apparatus comprising, in combination: a wooden keg; a glass vessel; a cap hermetically sealed on said vessel, provided with means to form a hermetical seal in the bung hole of the keg and to form the sole support of the weight of the vessel and contents; said cap of a length to extend substantially flush with the inner surface of the keg about the bung hole; a vent pipe opening through the surface of the cap laterally thereof close to the neck of the vessel and extending within the vessel close to the bottom thereof, whereby the contents of the vessel will flow into the keg to completely fill the same.

2,313,955
ELEVATOR CONTROL SYSTEM
Paul M. Martin, Chicago, Ill., and Alvin O. Lund, East Orange, N. J., assignors to Westinghouse Electric Elevator Company, Jersey City, N. J., a corporation of Illinois
Application December 2, 1941, Serial No. 421,306
10 Claims. (Cl. 172—152)



8. A variable voltage system for operating an elevator car comprising a generator having an armature and a main field winding, a motor connected in a loop circuit with said armature, a regulating gaseous electronic discharge tube for energizing the main field winding, said tube having a grid by which its output may be controlled, a voltage tachometer connected to the motor for providing a voltage corresponding to the speed

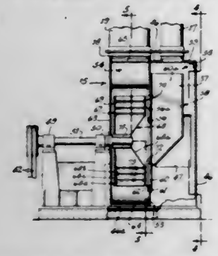
of the motor, an electronic tube and a timing condenser connected to a source of energy for providing a pattern voltage, a car switch for controlling the pattern voltage tube and condenser, means for differentially connecting the tachometer voltage and the pattern voltage from the condenser to the grid of the regulating tube for controlling the energization of the main field winding, and means responsive to movement of the car switch to its "on" position for only a predetermined time to connect the condenser to one point of potential on its source of supply to cause the motor to accelerate to a predetermined speed for a one-floor run and responsive to maintaining the car switch in its "on" position for a longer predetermined time for connecting the timing condenser another point of potential on its source of supply to cause the motor to accelerate to a higher speed for a more than one-floor run.

2,313,956

DISPERSION MILL

Norman M. McGrane, Long Beach, Calif., assignor to Western Precipitation Corporation, Los Angeles, Calif., a corporation of California

Application March 9, 1940, Serial No. 323,233
5 Claims. (Cl. 83—11)



1. In a material dispersion apparatus, the combination comprising: a casing; means including a rotatable element in said casing for impelling a gas through said casing and for dispersing material supplied thereto, said rotatable element comprising a plurality of radially extending blades each having portions for impelling gas through said casing and each including means for providing successive dispersing impact of said material; housing means defining a compartment at one end of said casing for retaining a gas in heat exchange relation with said casing; means for supplying material to said compartment; and means within said compartment and arranged at said one end of said casing for directing gas from said compartment and material from said supplying means into said casing.

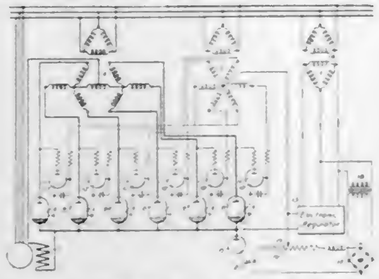
2,313,957

VAPOR ELECTRIC DEVICE

Henry C. Meyers, Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application August 2, 1940, Serial No. 349,781
7 Claims. (Cl. 171—119)

1. A voltage regulating system comprising an alternating current circuit, a dynamo-electric machine connected to said circuit, a field winding for said machine, a source of alternating current potential, a plurality of vapor electric valves for supplying energy from said source to said field winding, grid means for controlling said valves, a source of grid potential, a regulator responsive to the voltage of said alternating current circuit for impressing biasing potential on said source of grid potential, said regulator being capable of supplying sufficient negative potential to said source of grid potential to block operation of said grid means, and means for reducing the



negative potential output of said regulator sufficiently to prevent complete blocking of said grid means.

2,313,958

FIRE ESCAPE ATTACHMENT FOR LADDERS

George Naab, Atlanta, Ga., assignor to Henry Naab, Atlanta, Ga.

Application October 6, 1941, Serial No. 413,849
5 Claims. (Cl. 227—8)



1. A fire escape attachment for a ladder, comprising a winch including a drum mounted for rotation at the lower portion of the ladder, pulleys secured to the ladder in close proximity to the drum and above the same, pulleys secured to the ladder adjacent the upper end thereof, a basket, pulleys secured to the basket, cables having one of their ends secured to the drum and their opposite ends secured to the basket, and said cables being trained about said pulleys.

2,313,959

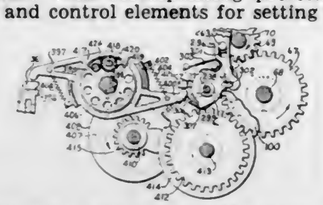
MECHANICAL RELAY

Gunnar Nelson, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland

Original application January 21, 1938, Serial No. 186,107. Divided and this application June 26, 1941, Serial No. 399,931
13 Claims. (Cl. 74—1)

1. In an apparatus of the class described, the combination of a plurality of elements presettable to represent a control; a corresponding plurality of control elements settable according to the setting of the presettable elements; and power-operated means operable after the presettable elements have been set and successively

cooperable with corresponding presettable elements and control elements for setting the con-



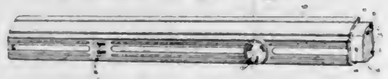
trol elements according to the setting of the presettable elements.

2,313,960

ELECTRICAL WIRING SYSTEM

Joseph F. O'Brien, Jersey City, N. J., assignor to John B. Pierce Foundation, New York, N. Y., a corporation of New York

Application September 13, 1940, Serial No. 356,582
5 Claims. (Cl. 173—334.1)



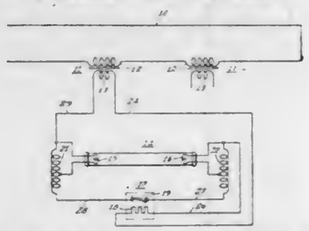
1. An electricity conductor unit, comprising a substantially hollow body of electrical insulation material, a plurality of transverse wall means therein, a plurality of electricity conductors arranged within said body and extending longitudinally to terminate in fixed standardized relationship at the effective ends of the body, said electricity conductors being relatively loosely supported on said wall means, electric contact means arranged within said body and in electric connection with each of three of said conductors, said contact means being in offset relationship to said conductors, electric contact means arranged within said unit remote from said first-mentioned contact means and in electric connection with two of the conductors of the unit, backing means for said unit arranged to maintain said conductors in operative association therein, and shoulder means on said backing means and arranged in operative association with said offset contact means to serve to support said contact means and therewith associated conductors against rotation.

2,313,961

ELECTRIC DISCHARGE LAMP CIRCUIT

Wendell Oglesbee, Lakewood, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application October 25, 1941, Serial No. 416,561
10 Claims. (Cl. 176—124)



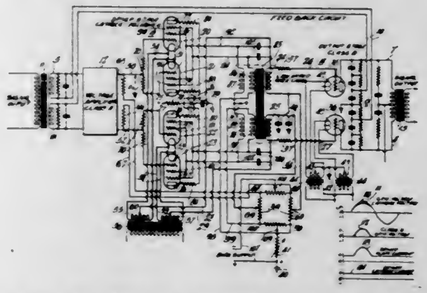
1. A circuit for operating an electric discharge lamp of the type requiring preheating of the electrodes prior to application of operating voltage from a constant current series supply circuit through an isolating current transformer having insufficient output current to heat the electrodes to the required temperature during starting comprising, a pair of auto-transformers connected in series to the output terminals of the isolating current transformer, a time-delay starting switch having its contact element interposed in the circuit between the transformers and operable to open said circuit a predetermined time after it is energized, and means for connecting the electrodes of the lamp to the output terminals of said auto-transformers, whereby said transformers supply the additional electrode heating current during starting.

2,313,962

AUDIO FREQUENCY AMPLIFIER

Nils J. Oman, Merchantville, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application July 8, 1941, Serial No. 401,409
7 Claims. (Cl. 179—171)



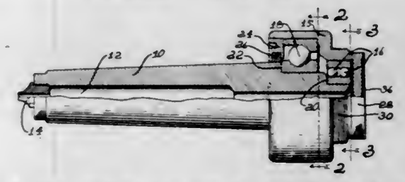
1. In an audio frequency inverse feedback amplifier, the combination of a class B output stage, means for driving said output stage to grid current including a cathode follower driver stage coupled thereto and including pentode amplifier tubes having cathode, screen grid, and suppressor grid electrodes, an overall audio frequency inverse feedback circuit for said amplifier including said driver stage thereby to minimize phase shift in the feedback loop of the amplifier, and means in said driver stage for applying substantially equal signal voltages to the cathodes, screen and suppressor grid electrodes for full pentode operation of said stage.

2,313,963

TOOL

Joshua Patrick, Detroit, Mich.

Application May 11, 1942, Serial No. 442,427
2 Claims. (Cl. 82—33)



1. A live center for use in a tail stock of a lathe comprising, a tapered shank portion, a bearing receiving portion at the larger end of said tapered shank portion, a pair of bearings each having inner and outer races on said bearing receiving portion, the outer diameter of one bearing being larger than the other of said bearings, a sleeve having a closed end journaled on said bearings; said sleeve having a tubular portion

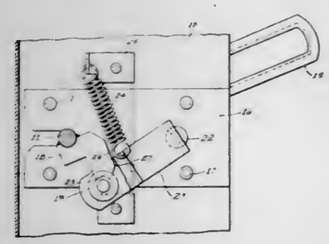
to fit the larger of said bearings, a reduced diameter portion to fit the smaller of said bearings and having a screw-threaded outer periphery, and a further reduced diameter closed end portion having a smooth finished outer periphery to receive one of a variety of work adapters; and a screw-threaded end wall received in the open end of said sleeve and bearing against the side of the outer race for said larger bearing.

2,313,964

ELECTRIC SWITCH

Lawrence Pierce, Edgewood, and John W. Samzelius, Forest Hills, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application July 17, 1941, Serial No. 402,728
2 Claims. (Cl. 200—67)



1. In an electric switch, in combination, a rotatable shaft, a contact member actuated by the shaft to open and closed positions, a handle secured to the shaft, a cam secured to the shaft and rotatable therewith, said cam having a recess therein with sloping sides, a follower disposed in the recess to engage the sides thereof when the contact member is in the closed position, means for releasably retaining the follower in the recess thereby restraining the contact member and the handle in the closed position, and a shoulder on said cam spaced away from the sides of said recess, said shoulder being disposed between the follower and the recess when the contact member is in the open position to cause the follower to pass over the shoulder a predetermined time prior to its entrance into the recess thereby closing the contact member quickly.

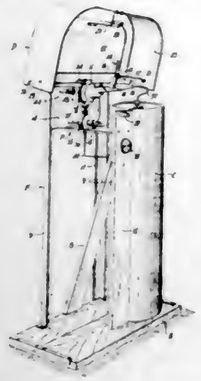
2,313,965

CYLINDER SUPPORTING AND PROTECTING DEVICE

Ralph C. Pierson and Willis G. Schepman, Indianapolis, Ind., assignors to Carbide and Carbon Chemicals Corporation, a corporation of New York

Application March 16, 1940, Serial No. 324,444
19 Claims. (Cl. 312—101)

1. In a support and protector for cylinders, the combination comprising a base for supporting at opposite ends thereof a pair of adjoining upright cylinders; a column extending upwardly from said base at a forward position intermediate the ends thereof; movable hood-shaped means; supporting means to which said hood-shaped means is connected for vertical movement; said hood-shaped means being adapted when in a lower position to cover the top portions of said cylinders, and when in a raised position to expose the top portions of said cylinders, the front portion of said hood-shaped means being adapted when



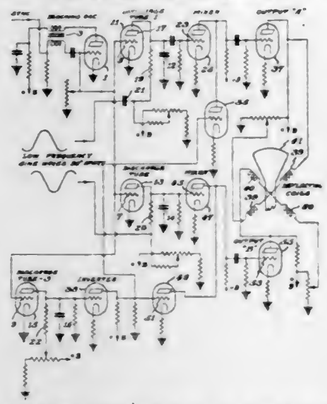
in said lower position to be supported by said column.

2,313,966

CATHODE RAY TUBE SYSTEM

Waldemar J. Poch, Moorestown, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application March 31, 1941, Serial No. 386,139
7 Claims. (Cl. 250—27)



1. In an indicating system of the type employing a cathode ray beam tube having two sets of beam deflecting means, a beam deflection signal generator comprising in combination a signal channel connected to one of said deflecting means and a second signal channel connected to the other of said deflecting means, and means for applying to each of said channels a saw-tooth wave signal whose amplitude varies sinusoidally and wherein the sinusoidal variation of the signal in one of the said channels is displaced in phase from the sinusoidal variation of the signal in the other of the said channels by 90 degrees.

2,313,967

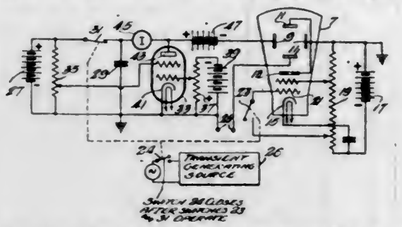
CATHODE RAY OSCILLOGRAPH FOR RECORDING TRANSIENTS

Sidney Read, Jr., Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application October 18, 1939, Serial No. 300,035
13 Claims. (Cl. 171—95)

1. A device of the character described comprising a cathode ray tube having vertical and

horizontal beam deflecting means and a beam intensity control electrode normally biased to shut off said beam; a source of voltage for applying a single deflecting impulse to said horizontal deflecting means, said source comprising a capacitor, circuit connections between said capacitor and said horizontal deflecting means, a source of positive potential, switching means for normally connecting said source across said capacitor for charging said capacitor, a thermionic tube having a substantially constant plate voltage-plate current characteristic connected across said ca-



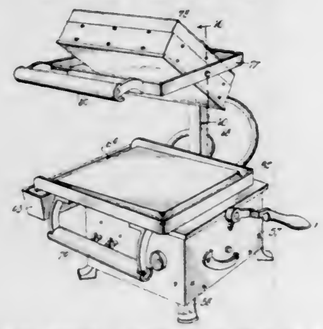
pacitor for discharging said capacitor at a constant rate when said switching means is operated to disconnect said source from said capacitor, the instantaneous position of said beam being proportional to the instantaneous voltage across said capacitor; other switching means in circuit with said control electrode and operatively connected to said first switching means for applying an operating bias to said electrode, and means for applying a voltage to be indicated to said vertical deflecting means immediately after said switches have been operated.

2,313,968

HEATING DEVICE

Ernest Reich, Quakertown, Pa.

Application October 2, 1937, Serial No. 166,987
1 Claim. (Cl. 219—19)



A heating device, including a pair of heating members, one of said members being constructed to emit conducted heat, and the other being reversible and emitting conducted heat at one side and radiant glow heat on the other side, and means for causing said members to approach and recede from one another, said other member in inoperative position slanting rearwardly and downwardly.

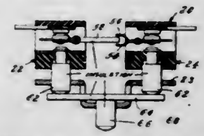
2,313,969

CONTROL APPARATUS

Arthur L. Riche, Freeport, Ill., assignor to Micro Switch Corporation, Freeport, Ill., a corporation of Illinois

Application August 3, 1940, Serial No. 350,305
4 Claims. (Cl. 200—113)

2. In combination in a thermal protector for a polyphase electric motor or the like, two normally closed electric snap switches, each of which is connected in a separate circuit conductor to the apparatus to be protected, a separate thermal actuator and snap element for each switch for actuating it with a snap action in response to a rise of temperature to open its own circuit, means for heating each said thermal actuator in response to the current traversing the conductor in which its switch is connected, a two-direction, lost-



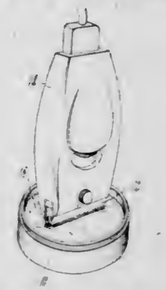
motion, mechanical connection between the snap elements of said snap acting switches, such that each switch in executing its snap motion in response to actuation by its own thermal element, first moves a predetermined distance and then engages the other to carry it along, whereby to open the circuits of both said switches in response to the thermal actuation of either one thereof, and means for reclosing said switches together.

2,313,970

METHOD OF AND APPARATUS FOR SHARPENING ELECTRIC RAZORS AND THE LIKE

Arthur J. Roderick, Portland, Maine, assignor to Electro-Sharp Mfg. Co., Portland, Maine, a corporation of Maine

Application June 15, 1940, Serial No. 340,699
3 Claims. (Cl. 51—285)



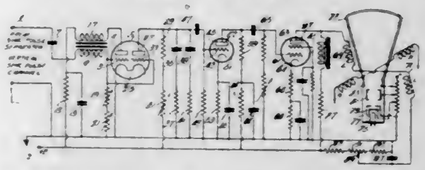
3. A method of sharpening electric razors and the like, which comprises pressing the cutting head of the razor against a horizontally supported absorbent pad saturated with abrasive-bearing oil to compress said pad and cause oil to exude therefrom, and operating the razor mechanism while the cutting head is so pressed in the exuded oil.

2,313,971

TELEVISION SYSTEM

John H. Roe, Merchantville, N. J., assignor to Radio Corporation of America, a corporation of Delaware

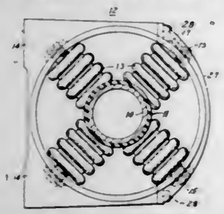
Application August 3, 1940, Serial No. 350,186
1 Claim. (Cl. 250—27)



In a television system, an electric discharge device having an anode and a cathode, an output

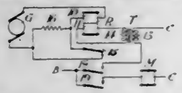
circuit including an anode resistor for said discharge device, a direct-current voltage source connected between said cathode and said anode resistor to apply a positive voltage to said anode, at least two wave shaping circuits connected in parallel with each other and each comprising a resistor and a condenser only, said condenser and said resistor of each of said wave shaping circuits being connected in series with each other, said parallel combination of wave shaping circuits being connected between said anode and said cathode whereby said condensers receive a charge through said anode resistor, means for holding said discharge tube normally non-conducting from anode to cathode, and means for producing and so applying recurring voltage pulses to said discharge tube that said condensers discharge through said tube during the occurrence of each voltage pulse.

2,313,972
BUS STRUCTURE
Harold H. Rugg and Paul R. Pierson, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 8, 1938, Serial No. 212,440
2 Claims. (Cl. 174—148)



1. A support for a conductor comprising, a supporting ring, spaced insulating members mounted inside the ring for supporting the conductor, and means for adjusting said insulating members in the supporting ring, said insulating members being rotatably attached to said adjusting means, a segment of said ring being removable therefrom.

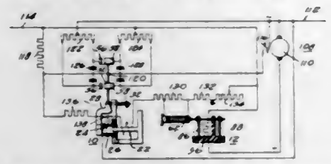
2,313,973
ELECTRICAL RELAY
Andrew J. Sorensen, Edgewood, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application May 31, 1941, Serial No. 395,907
15 Claims. (Cl. 175—320)



1. In combination, a relay, means for supplying to a winding of said relay energy which at one time is of a value high enough to effect movement of the relay contacts from their released to their picked-up positions and at another time is of a value too low to maintain the relay contacts picked up, a first and a second winding inductively coupled together, means for supplying energy from said second winding to a winding of said relay, a source of direct current, and a circuit controlled by a contact of said relay for supplying energy from said source to said first winding, whereby on movement of the relay contacts from one of their positions to the other there is a change in energization of said first winding and an impulse of energy is induced in said second winding and is supplied therefrom to said relay winding, the equipment being arranged so that on movement of the relay contacts towards either of their two positions the impulse of energy supplied to the relay winding from said second winding is of such polarity as to assist movement of the relay contacts to such position.

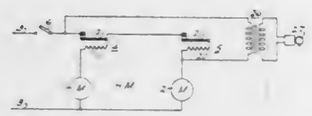
12. In combination, a principal relay having a first and a second winding, an auxiliary relay having a first and a second winding, means for supplying to said principal relay first winding energy which at one time is of a value high enough to effect movement of the relay contacts from their released to their picked-up positions and at another time is of a value too low to maintain the relay contacts picked up, means for supplying energy from the auxiliary relay second winding to the principal relay second winding, a source of direct current, a circuit established in one position of the contacts of said principal relay for supplying energy from said source to the first winding of said auxiliary relay, whereby a change in the position of the principal relay contacts is accompanied by a change in the position of the auxiliary relay contacts, and whereby on a change in the position of the contacts of the principal relay an impulse of energy is induced in the auxiliary relay second winding and is supplied therefrom to the principal relay second winding, the equipment being arranged so that the impulse of energy supplied to the principal relay second winding on movement of the contacts of said relay towards either of their positions is of such polarity as to assist movement of the relay contacts to such position, and a control circuit governed by a contact of said auxiliary relay.

2,313,974
REGULATING SYSTEM
Walter H. Smith, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 20, 1942, Serial No. 443,687
5 Claims. (Cl. 171—229)



1. In a regulating system, a generator having an armature winding and a field winding the voltage of which is to be regulated, means disposed to be connected in circuit relation with the field winding to control the energization of the generator, means disposed to connect the control means in circuit with the field winding, a voltage responsive device connected across the armature winding disposed to operate the connecting means, a resistor connected in circuit relation with the voltage responsive means, and a current device responsive to a predetermined generator current disposed to vary the effective resistance of the resistor to maintain the energization of the voltage responsive device substantially constant when the generator current exceeds the predetermined value, the current device thereby cooperating with the voltage responsive device to control the operation of the connecting means to control the energization of the generator.

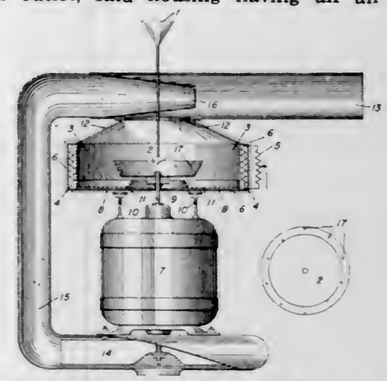
2,313,975
ELECTRIC MOTOR SYSTEM
Wendell C. Spear, Wapakoneta, and Henry Welch, Lima, Ohio, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 23, 1939, Serial No. 275,148
2 Claims. (Cl. 177—311)



2. In combination, a first electric motor having terminals adapted to be connected to an electric supply line, means for connecting said motor terminals to said line, a first thermally-responsive protective device for said first motor, said protective device including an electric heating element and a thermally-responsive circuit-interrupting element in heat-exchange relation thereto, said circuit-interrupting element having normally closed contacts, said heating element and contacts being connected in series between one of the motor terminals and the line with the contacts on the line side, a second electric motor having terminals adapted to be connected to said supply line, a second thermally-responsive protective device for said second motor, said second protective device including an electric heating element and a thermally-responsive circuit-interrupting element, the heating element and circuit-interrupting element being connected in series with each other and with one of the terminals of said second motor, means for connecting said second protective device to the first protective device at a point between the heating element and the contacts of the first protective device, whereby the contacts of both protective devices are in series between the line and the second motor, means for connecting the other terminal of the second motor to the supply line, a transformer connected across said series-connected contacts of the first and second protective devices, and alarm means connected to said transformer to be energized thereby.

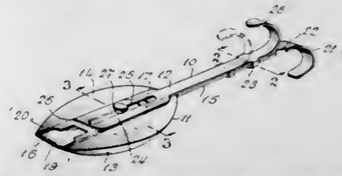
2,313,976
APPARATUS FOR DISPERSING INSECTICIDES
William N. Sullivan, Washington, D. C., and Lyle D. Goodhue, Berwyn, Md., assignors to Claude R. Wickard, as Secretary of Agriculture of the United States of America, and to his successors in office
Application January 18, 1941, Serial No. 375,048
2 Claims. (Cl. 261—15)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A dispersing apparatus comprising a cup rotatably mounted, said cup having a perforated circular wall, said wall sloping outwardly toward the top, the perforations of said wall being in a single row arranged spirally, a stationary housing about said cup, said housing having a circular wall facing said perforated wall, means for heating the wall of said housing, said housing having a cover, said cover having an outlet at the top thereof, suction means connected to said outlet, said housing having an air inlet



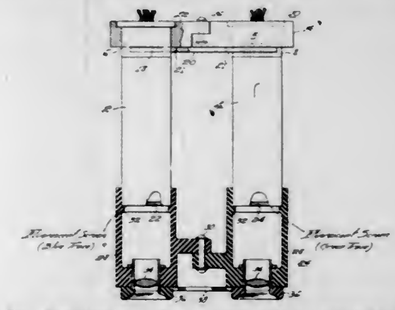
below said cup, means for introducing a liquid into the cup, and means for rotating said cup.

2,313,977
MEDICINE SPOON
Joseph P. Takach, West New Brighton, Staten Island, N. Y.
Application January 9, 1940, Serial No. 313,132
3 Claims. (Cl. 30—326)



1. A medicine administering device comprising: a spoon; a top wall on said spoon; said top wall having a relatively large orifice in the forward portion thereof, and a relatively small orifice in the rear portion thereof; a valve plate shiftably disposed with relation to said top wall and adapted in one position thereof to allow a free passage through both of said orifices and in another position to close both of said orifices.

2,313,978
OSCILLOGRAPH VIEWING DEVICE
Adolph H. Toepfer, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 24, 1940, Serial No. 331,362
2 Claims. (Cl. 171—95)



1. In apparatus for comparing periodically varying electrical quantities, a pair of cathode

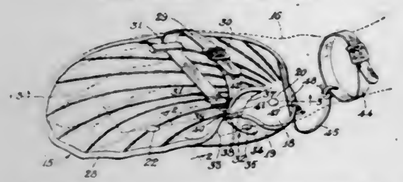
ray tubes each including a tracing surface and means for projecting an electron beam thereon, means energizable to deflect the electron beams in each of said tubes periodically along a predetermined axis of the corresponding tracing surface in synchronism, each of said tubes including means energizable from a periodically varying electrical quantity to be observed to deflect the corresponding electron beam along another axis of its tracing surface to produce thereon a trace corresponding to the variations of said quantity, a casing device including an opaque tubular member engaging each of said tubes about its tracing surface and means interconnecting said tubes to maintain said tracing surfaces in a predetermined relationship with each other with their first said axes in alignment, and optical means within said tubular members to permit observation of said tracing surfaces through the outer ends of said tubular members in visually superimposed relationship.

2,313,979

SWIMMING APPLIANCE

James L. Tuma, Chicago, Ill.

Application June 19, 1939, Serial No. 279,888
21 Claims. (Cl. 9—21)



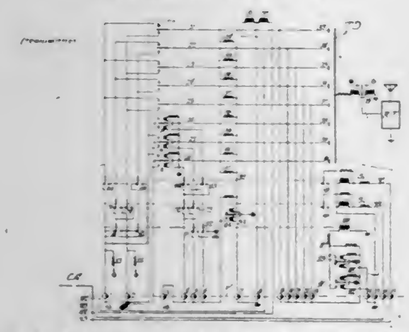
1. A swimming appliance comprising, in combination, a body structure including a pair of overlapped plates adapted for adjustment to vary the propulsive area of the appliance, means for securing said plates in selected relative positions of fixed adjustment to determine the propulsive area of the appliance, and means for preventing slippage of said plates after they have been secured in any such adjusted positions.

2,313,980

PRINTING TELEGRAPH SYSTEMS

Hendrik C. A. van Duuren, Wassenaar, Netherlands, assignor to Kingdom of The Netherlands, Post Office Administration, The Hague, Netherlands

Application April 22, 1940, Serial No. 330,959
In the Netherlands May 4, 1939
21 Claims. (Cl. 250—8)



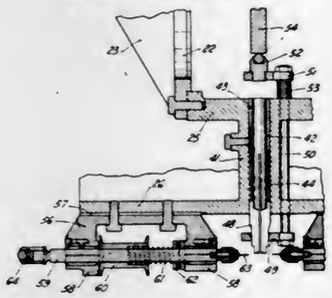
1. In a radio telegraph system, the combination of a radio transmitter comprising means for establishing signals characterized by a fixed ratio of positive and negative impulses in each signal, means for transmitting said signals by radio over a single radio channel in such manner that said positive and negative impulses produce the same fixed ratio of different components in each radio signal corresponding to said positive and negative impulses, a radio receiver associated with said radio transmitter and comprising means for converting the components of radio signals of the above type back into corresponding positive and negative impulses, and including test means operative to test the converted signals for said fixed ratio of positive and negative impulses, and corrector apparatus connected with said radio receiver and said radio transmitter and including normally inert timing contacts which are adapted to be set into motion in response to said testing means for causing said radio transmitter to emit a signal indicating that the associated receiver has received a mutilated signal.

2,313,981

SELF-SHANK BUTTON DRILLING MACHINE

John Weber, Jr., Charles F. Weber, Louis H. Weber, Walter F. Weber, Frank H. Weber, Edward W. Weber, Leonard G. Weber, and Carl A. Goetzman, Muscatine, Iowa

Application March 21, 1940, Serial No. 325,144
3 Claims. (Cl. 79—11)



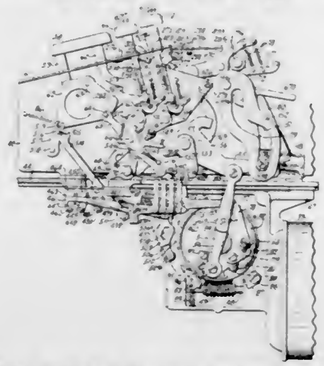
1. A self-shank button drilling machine comprising a button chuck having a plurality of jaws arranged about an axis, a continuously rotating body member, rotating on an axis fixed in position, said chuck being fixedly connected to said rotating body member, a collet slidably mounted on said chuck for sliding movement longitudinally thereof to cooperate with said chuck jaws in causing opening and closing movement thereof, a drill shaft carried by said body member with the shaft position generally perpendicular to the axis of the button chuck, a carrier for said drill shaft rigidly secured to said body member and holding the shaft in fixed alignment with reference to the axis of the button chuck, said drill shaft being adapted for rotation and for translation toward and from the button chuck, said drill shaft and button chuck being carried by said body member for simultaneous rotation about the axis of rotation of the body member with the axis of the drill shaft approximately perpendicular to the axis of the button chuck, the rigid mounting of the button chuck and the drill shaft eliminating substantially all relative movement of these parts other than longitudinal movement of the drill shaft transversely of the button chuck, a drill chuck, for carrying a drill, mounted on the end of the shaft proximal to the button chuck and means to move said drill shaft and the drill chuck toward and from said button chuck, timed with respect to the movement of the collet along the axis of the button chuck to move the shaft toward the button chuck subsequent to closing movement of said collet and to move the shaft away prior to opening movement of said collet, said chuck jaws being provided with means to hold the flange of a self-shank button with the axis of the button generally perpendicular to said shaft.

2,313,982

ACCOUNTING MACHINE

Paul H. Williams, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland

Application June 4, 1938, Serial No. 211,817
6 Claims. (Cl. 235—62)



1. In a program control means for a machine of the class described, the combination of power means; a plurality of machine control means, each control means when operated adapted to control certain elements of the machine to perform a certain kind of operation; a normally idle means associated with each control means, each means when operated being connected to a machine control means to select the connected control means for operation; a normally idle mechanism including a plurality of connectors, each connector being associated with a normally idle means and each connector being movable to select an associated normally idle means and an associated control means for actuation; means on the power means to actuate the normally idle mechanism; and control means to move one element of the normally idle mechanism relatively to the power means to enable the power means to actuate the normally idle mechanism and through the latter actuate the selected machine control means.

2,313,983

LAMP FIXTURE

Irvine A. Yost, Lakewood, and Carl F. Haas, Cleveland, Ohio, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application October 16, 1940, Serial No. 361,350
11 Claims. (Cl. 240—6)



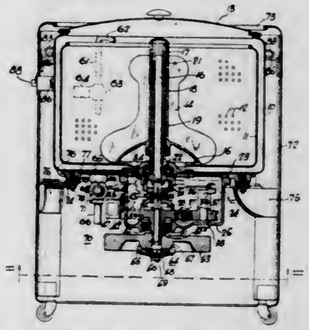
1. A lighting fixture for use with straight elongated double-ended discharge lamps comprising, a pair of sockets, means including a housing for supporting the sockets in spaced end-to-end relation to receive the lamp, one of said sockets being adjustably mounted within the housing for movement toward and away from the other socket to permit insertion of the lamp into the sockets, said housing having a removable cover, a two-piece safety switch mounted within the housing for connecting the sockets to a power source, one portion of the switch having a fixed mounting on the housing and the other portion thereof being removable with the cover to effect disconnection of the sockets when the cover is removed, and means carried by the cover disposed to engage the adjustably mounted socket in the event that said socket is in any position except its normal operating position, whereby the cover cannot be positioned on the housing so as to close the safety switch until the lamp is properly positioned in the sockets.

2,313,984

CLEANING APPARATUS

Frank Breckenridge, Mansfield, Ohio, and Raymond J. Ridge, Lansdowne, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

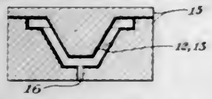
Application April 25, 1941, Serial No. 390,290
8 Claims. (Cl. 68—23)



1. In apparatus for cleaning fabrics and for centrifuging cleaning fluid therefrom, the combination of a tub for washing fluid, a basket for containing the fabrics to be treated, adjustable driving means for selectively agitating the fabrics within the basket and for rotating the basket at relatively high speed for extracting fluid from the fabrics, said tub, basket and driving means defining a unit structure, means for resiliently supporting the unit structure, and a rotatable inertia stabilizer carried by the unit structure and driven by said driving means during all periods of operation thereof.

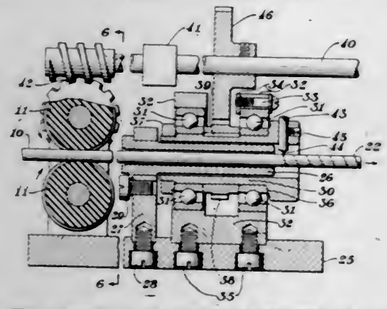
5. In apparatus for cleaning fabrics and for centrifuging cleaning fluid therefrom, the combination of a tub for containing cleaning fluid, a substantially cylindrical basket for containing the fabrics to be treated and having its axis disposed substantially vertical, means for agitating the fabrics within said basket, means for rotating the basket about its axis for extracting fluid from the fabrics, said tub and rotating means being constructed as a unit, means including a plurality of leaf springs circumferentially spaced around the tub for resiliently supporting said unit, said springs being arranged generally tangentially with respect to the tub in a substantially horizontal plane adjacent the center of inertia of said unit, and a plurality of dampers for retarding vibration of said unit and circumferentially spaced in a substantially horizontal plane remote from the plane of said springs.

2,313,985
METHOD OF MOLDING PLASTICS
Russell R. Bradshaw, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
Application May 20, 1940, Serial No. 336,238
7 Claims. (Cl. 18—55)



1. In a method of molding by injection an organic thermoplastic article, the steps which consist in inserting into the mold between successive injections a composite thermoplastic sheet, of which the face directed toward the mold cavity is capable of becoming soft and tacky at the temperature at which the plastic is injected, and which is of a composition compatible with the injected plastic, and the other surface of which is hard, non-tacky and abrasion resistant and has no tendency to adhere to the mold walls under the conditions of temperature and pressure existing during the injection operation, injecting into the cavity of the said mold a fused organic thermoplastic material in quantity sufficient to fill the mold, thereby to draw the composite thermoplastic film to the contour of the mold face and to firmly bond the film to the injected thermoplastic material, and thereafter cooling the plastic within the mold and ejecting the composite molded and coated article.

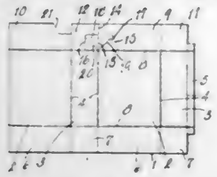
2,313,986
PLASTIC HELICOIDAL STRUCTURE
Harold L. Brown, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
Application February 18, 1942, Serial No. 431,453
7 Claims. (Cl. 164—61)



1. The method of cutting a flexible helicoidal structure from a plastic tube, which includes: continuously moving a plastic tube substantially resistant to torsional flexure at a substantially uniform rate along its longitudinal axis past a slitting means adapted to cut through one wall of said tube while said slitting means is rotating around the moving tube in a fixed plane perpendicular to said longitudinal axis.

2,313,987
DISPENSING CARTON
Kenneth T. Buttery, Kalamazoo, Mich., assignor to Sutherland Paper Company, Kalamazoo, Mich.
Application June 12, 1941, Serial No. 397,713
4 Claims. (Cl. 229—17)

1. A dispensing carton comprising walls having closure flaps flexingly joined thereto, the closure flap of one wall constituting an intermediate closure member, the closure flap of the opposite wall constituting the outer closure member, the closure flap of another wall constituting an inner closure member, the outer closure member being joined to the inner closure member by a flexing connection and having an angular fracturing zone extending from such flexing connection to said inner closure member to its flexing wall connection, its portion within said fracturing zone constituting a pouring spout wall, said inner closure member having an angular slit extending from its said flexing connection to said outer closure flap to its flexing wall connection, its portion within said slit constituting a pouring spout wall coacting with the pouring spout wall of said outer closure member to provide a pouring spout, said pouring spout walls being diagonally scored permitting folding of ad-



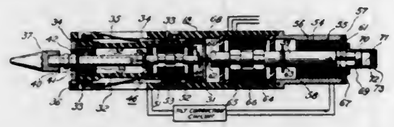
jacent triangular portions thereof inwardly to provide a tucking element projecting into the carton when the pouring spout is in carton-closing position, the slitting and scoring of the spout wall portion of the inner closure member also permitting the adjustment of the inner and outer closure members to carton closing position, the intermediate closure flap having a recess in the corner thereof of smaller size than said fracturing zone, said recess underlying the said spout wall portions and constituting a pouring opening when the spout portions are in extended position, said recess having an inner corner constituting keeper means for said tucking element when the spout is collapsed for reclosing the carton, with said tucking element projecting into the carton.

2,313,988
AMINE SALTS OF PHENOLS
Edgar C. Britton and Gerald H. Coleman, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application April 30, 1941, Serial No. 391,094
7 Claims. (Cl. 260—563)

5. A parasiticidal composition comprising as a toxic ingredient an N.N'.N''-tri-(cycloalkyl)-di-(amino-alkyl)-amine salt of a monohydric phenol.

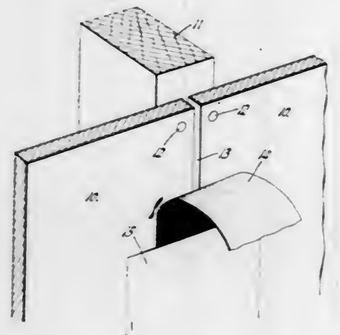
2,313,989
TRACER FOR ELECTRICALLY CONTROLLED MACHINE TOOLS
Samuel H. Caldwell, Belmont, Mass., Jacob J. Jaeger, West Hartford, Conn., and Richard Taylor, Great Neck, N. Y., assignors to Niles-Bement-Pond Company, West Hartford, Conn., a corporation of New Jersey
Original application December 15, 1939, Serial No. 309,434. Divided and this application February 1, 1941, Serial No. 377,042
6 Claims. (Cl. 90—62)

6. A tracer assembly for controlling machine tool operating motors comprising in combination, a body member, a tracer point mounted therein for movement in any direction, electro-magnetic coils within said body member, an induction coil adjacent said first mentioned coils, a pole piece within said coils movable in one direction by movement in any direction of said tracer point, whereby movements of said tracer point and pole piece induce variable voltages in said induction coil, a solenoid energized by the voltages in said induction coil, an armature within said solenoid moved in one direction when said solenoid is ener-



gized, means connecting said armature and tracer point, whereby said tracer point is retracted when said solenoid is energized and said armature moved, a second pair of electro-magnetic coils having an induction coil adjacent thereto, a pole-piece for said second coils connected to said armature, whereby a voltage will be induced in said second induction coil when said tracer point is retracted.

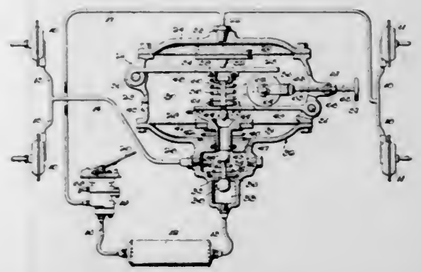
2,313,990
WALLBOARD JOINT SYSTEM
Dean D. Crandell, Buffalo, N. Y., assignor to National Gypsum Company, Buffalo, N. Y.
Application April 23, 1941, Serial No. 389,909
6 Claims. (Cl. 72—16)



1. In a wall construction, a supporting member, panels secured flatwise against said supporting member in substantially edge to edge relation to form a wall board joint, and a tape of spun glass threads woven to form a flat fabric placed over said joint, said tape being attached to the outer surface across the edges of adjacent panels with an adhesive bonding agent.

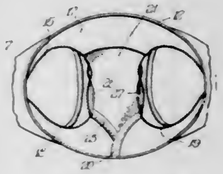
2,313,991
BRAKE MECHANISM
Ellery R. Fitch, Pittsburgh, Pa., assignor to Bendix-Westinghouse Automotive Air Brake Company, Pittsburgh, Pa., a corporation of Delaware
Application February 12, 1941, Serial No. 378,626
19 Claims. (Cl. 188—152)

1. A fluid braking system for automotive vehicles having front and rear brakes comprising a source of fluid pressure, actuators for the brakes, means including a brake valve for connecting said source and rear brake actuators, means including a valve for controlling the application of fluid pressure from the source to the front brake actuators, means responsive to the pressure of the fluid supplied to the rear brake actuators for operating the second named valve to supply fluid pressure from the source to the front brake actuators at substantially the same pressure throughout a predetermined range of operation of said brake valve, and means associated with said last



named means for operating the second valve to transmit fluid pressure from said source to said front brake actuators at a pressure less than but proportional to the pressure supplied the rear brake actuators throughout ranges of pressure admitted to said rear brake actuators by said brake valve which exceed the maximum pressure of said predetermined range.

2,313,992
UNDERGARMENT
Herman Fredericksen, Kenosha, Wis., assignor to Cooper's, Incorporated, Kenosha, Wis., a corporation of Wisconsin
Application January 25, 1941, Serial No. 375,917
3 Claims. (Cl. 128—159)



1. A pair of men's drawers made of knitted material comprising a waist band, front and rear pieces having their upper edges secured to the waist band, leg pieces secured to the front and rear pieces and to the waist band, said pieces having their wales extending approximately vertically to the waist band, a crotch piece connecting the front, back and leg pieces, said crotch piece having the wales running through the crotch of the garment and approximately vertically to join the front and back pieces, and lateral confining members connected to the abutting edges of the crotch piece and leg pieces at the lower forward portion of the crotch, said lateral confining members with the adjacent portion of the crotch piece forming a transversely resilient pouch to snugly fit the anatomy in conforming relation thereto.

2,313,993
ORGANIC SULPHUR AND SELENIUM COMPOUNDS
Béla Gáspár, Hollywood, Calif., assignor to Chromogen, Incorporated, a corporation of Nevada
No Drawing. Application February 3, 1940, Serial No. 317,218. In Great Britain February 4, 1939
12 Claims. (Cl. 260—562)

1. As new intermediate products the compounds of the following general formula



in which A and B stand for a bivalent atom selected from the group consisting of sulphur and selenium, Y and Z stand for alkyl radicals, X stands for groups selected from the group consisting of hydrogen and alkyl-oxy.

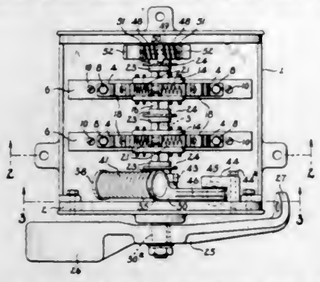
2,313,994
SPRAY NOZZLE
Jordan W. Grant, Portsmouth, Va., assignor to Akron Brass Manufacturing Company, Inc., Wooster, Ohio, a corporation of Ohio
Application July 24, 1941, Serial No. 403,854
5 Claims. (Cl. 299—145)



1. A nozzle comprising a tubular inner sleeve, and outer sleeve axially adjustable upon the inner sleeve and having grooves upon its inner surface, a stem secured in the inner sleeve coaxial therewith, a deflector head mounted thereon and spaced from the outer sleeve to define an outer annular discharge passage, said deflector head provided with a recess in the outer end thereof in communication with said inner sleeve, a member in the recess in said deflector head and spaced from the edge of the opening into said recess to form an inner annular discharge passageway, the edge of the opening into said recess having grooves formed thereon, said member and deflector head having grooves formed upon the peripheral surface substantially normal to the grooves on said sleeve and deflector head for producing a dense cloud of vapor.

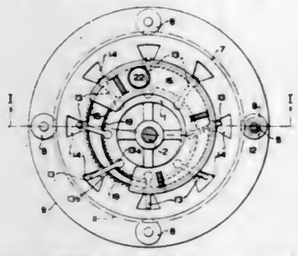
2,313,995
CRANE LIMIT SWITCH
Richard B. Hunter, Shorewood, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application September 20, 1941. Serial No. 411,664
12 Claims. (Cl. 200—47)

1. A crane limit switch for mounting with its operating shaft horizontal and for mounting in different positions about the axis of its operating shaft comprising, an enclosing casing, an operating shaft oscillatably supported by said casing, a plurality of movable contacts mounted on said shaft, a plurality of pairs of stationary contacts, the stationary contacts of each pair being arranged for selective engagement by one of said movable contacts, an elongated insulating supporting block for each pair of stationary contacts, said block being substantially a rectangular prism with its major axis arranged at a right angle to the axis of said shaft, means to support said stationary contacts on said insulating block and said block on said casing and arranged to interpose a maximum of vertical insulating surface distance between any two of said stationary contacts and between any one of said stationary contacts and said casing with the switch



mounted in any of said positions, and a snap action mechanism for oscillating said shaft between a normal and a braking position, and including a counterweight for biasing said shaft to its normal position, said counterweight being operable to permit rotation of said shaft to its braking position and including adjustable means for engagement with the operating ropes of a crane.

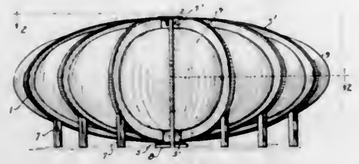
2,313,996
DRUM PRESS
Clasinus P. E. Hoolhorst, Bloemendaal, Netherlands; vested in the Alien Property Custodian
Application September 21, 1939, Serial No. 295,991
In the Netherlands September 26, 1938
3 Claims. (Cl. 100—47)



1. A drum press comprising in combination, two rotary drums of different diameters which are mounted within and eccentrically displaced with respect to each other and having a pressing space therebetween, driving means for each of said drums for rotating them in the same direction, substantially radially arranged vanes dividing the pressing space into separate chambers, said vanes having their respective ends continuously supported for swinging movement in both of said drums and being compelled to rotate together with the drums.

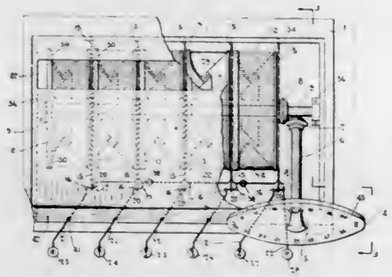
2,313,997
PRESSURE STORAGE TANK
James O. Jackson, Crafton, Pa.
Application September 11, 1939. Serial No. 294,235
8 Claims. (Cl. 220—1)

1. A closed tank adapted to store a gas and/or a liquid under pressure comprising a supporting frame and a plurality of segmental membrane-like members attached thereto, said supporting frame being composed of a plurality of girder-like members curved throughout substantially their entire length and disposed in planes radiating from the principal vertical axis of said tank and having upper and lower extremities terminating adjacent the principal vertical axis of the tank, and means independent of said membrane-like members integrally interconnecting said upper extremities and lower extremities,



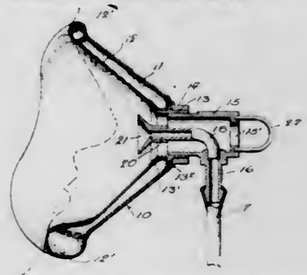
respectively, of said girder-like members, said interconnecting means being adapted to transmit the end axial and bending reactions of each said girder-like members through said interconnecting means into the other said girder like members.

2,313,998
TRAFFIC RATE FINDING MACHINE
Joseph M. Johnson, Birmingham, Ala.
Application September 29, 1941, Serial No. 412,821
3 Claims. (Cl. 129—16.1)



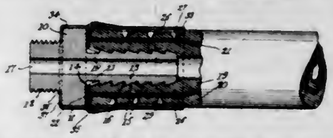
1. A traffic rate finding machine comprising; a main cylinder divided into a plurality of compartments, a circular shaft at one side of each of the compartments, said cylinder mounted on a shaft supported in a bearing at each end, said bearings supported in a main case of the machine, a plurality of card frames and cards therein supported on each circular shaft, each of said cards having marked thereon a traffic rate structure; a dial and indicating pointer mounted on the front of the machine frame, said dial having uniformly spaced around its face edge a plurality of holes and numerals, a pin in the pointer on the dial disposed to be set in any one of said holes, a plurality of operating keys mounted on the front of said machine disposed to operate lever and trigger means in the machine to expose any selected one of said rate cards to view depending upon the particular position of said pointer, a returning key mounted on the front of the machine disposed to operate lever and trigger means to return any exposed card to rest position; said dial indicator attached to a shaft having a bevel gear on its opposite end, said bevel gear coacting with a similar gear mounted on the main shaft of the cylinder; said dial, dial indicator, keys, and card frames all synchronized and disposed to work in unison.

2,313,999
APPARATUS FOR ADMINISTERING OXYGEN
Joseph Kreiselman, Washington, D. C., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York
Substituted for abandoned application Serial No. 363,773, October 31, 1940. This application June 30, 1942, Serial No. 449,127
2 Claims. (Cl. 128—205)



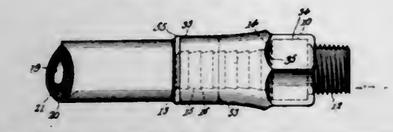
2. In an apparatus for administering oxygen or like gas, a face-piece having the shape of a hollow shell the edge of which is formed to rest against the face of a patient and to encircle his nose and mouth, and the body or wall of which substantially seals off from the atmosphere, when the face-piece is in use, a restricted space from which the patient will draw breath, said wall or body having an aperture formed therein at a point remote from said face engaging edge, a tubular member being secured in said aperture the ends of which are open and the axis of which is disposed substantially normally to the plane of the face engaging edge, the diameter of said tube being sufficiently great to insure free breathing at all times, a conduit extending axially of said member for leading oxygen to a point of discharge within the face-piece, and a conical baffle disposed coaxially with said conduit and supported on the inner end thereof, for distributing incoming air so as to envelop incoming oxygen.

2,314,000
HIGH PRESSURE HOSE COUPLING
Albert C. Lusher, Waterbury, and Allan C. Hoffman, Milldale, Conn., assignors to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut
Application November 26, 1940, Serial No. 367,302
10 Claims. (Cl. 285—84)



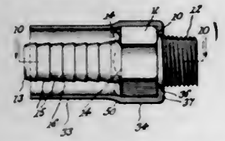
1. An improved hose coupling comprising a coupling body having a nipple with an external surface formed of successive buttress teeth providing abrupt shoulders between the teeth and an abutment wall spaced from but adjacent the innermost shoulder, and a clincher member comprising jaws and a connection base resting freely against said abutment wall and having spring fingers in the space between the abutment wall and innermost shoulder and confined by the latter against axial movement in that direction and a sleeve means movable over said jaws from the base portion outwardly and contracted thereagainst to compress the hose between the jaws and the nipple, and a means interlocking said sleeve with said body to prevent relative rotation.

2,314,001
HIGH PRESSURE HOSE COUPLING
Albert C. Lusher, Emerson H. Tompkins, and George G. Howard, Waterbury, Conn., assignors to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut
Application December 3, 1941, Serial No. 421,519
7 Claims. (Cl. 285—84)



1. A high pressure hose coupling comprising a substantially rigid coupling body having a nipple to enter the hose and a polygonal enlarged portion, and a separate malleable sleeve having a polygonal portion closely fitting over the corresponding polygonal portion of the coupling body and a generally cylindrical skirt portion enveloping the hose and nipple and die contracted substantially throughout its cylindrical area into squeezing relation upon the base.

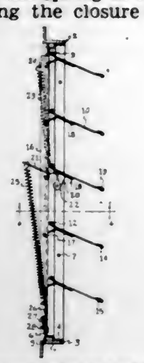
2,314,002
METHOD FOR MANUFACTURING AND ASSEMBLING HIGH PRESSURE COUPLINGS
Albert C. Lusher, Emerson H. Tompkins, Frederick R. Reutter, and George G. Howard, Waterbury, Conn., assignors to Scoville Manufacturing Company, Waterbury, Conn., a corporation of Connecticut
Application December 3, 1941, Serial No. 421,520
8 Claims. (Cl. 29—157)



1. The herein-described method of manufacturing and assembling a malleable sleeve shell to a conventional form of coupling body comprising a threaded male end, a nipple end and an intermediate enlarged polygonal portion, which consists in drawing a hollow shell with an internal base flange in which the shell is of an initial inner diameter at least as large as that of the polygonal portion, axially sliding the shell over the coupling body from the male toward the nipple end with the base flange trailing and until the base flange abuts the adjacent end of the enlarged polygonal portion, and initially die contracting the shell sufficiently to interlock the shell with the other end of the enlarged portion but not enough to reduce the diameter of the shell below that of the external dimension of the hose to be received therein.

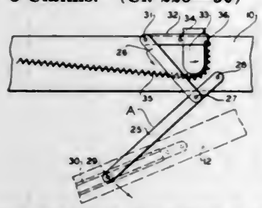
2,314,003
COUNTERBALANCED LOUVER CONSTRUCTION
Emil A. Mader, Detroit, Mich., assignor of one-half to John Spargo, Detroit, Mich.
Application June 14, 1940, Serial No. 340,552
9 Claims. (Cl. 98—116)

1. The combination with a pivotal closure biased by its own weight toward its closed position, of a spring additionally biasing the closure toward its closed position, means connecting said spring to the closure progressively reducing the leverage afforded the spring as the closure opens, and means biasing the closure toward its open



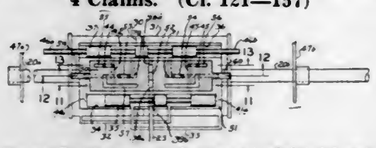
position and applying a leverage increasing as the closure opens.

2,314,004
FOLDING STAIRWAY
Reinhold B. Marschke, St. Paul, Minn.
Original application August 19, 1940, Serial No. 353,164. Divided and this application December 18, 1941, Serial No. 423,474
5 Claims. (Cl. 228—50)



1. A folding stairway including a rectangular frame for enclosing the same, stairway sections pivotally secured at one end to said frame and connected together in a manner to fold into a compact state within said rectangular frame, a pair of levers pivotally secured at one end to said frame and at the other end pivotally and slidably secured to said stairway section, a pair of arms pivotally secured at one end to said levers and pivotally secured at the other end to a pair of cam levers, said cam levers pivotally connected to said frame, a cam member on each of said cam levers, spring means for urging said cams to rotate said levers in one direction by the tension of said spring means, whereby as said stairway is opened, the tension on said spring means will increase to provide a balancing operating means for said stairway.

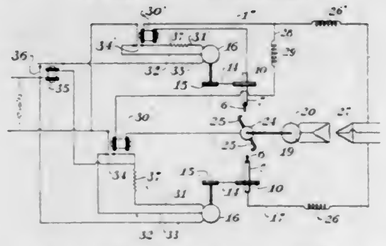
2,314,005
FLUID MOTOR
Charles L. Martin, St. Louis, Mo., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware
Application March 1, 1941, Serial No. 381,235
4 Claims. (Cl. 121—157)



1. In a fluid motor for a windshield wiper, a part movable to operate the wiper, automatic

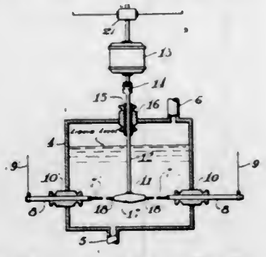
fluid actuated valve mechanism for reversing the application of power to said part, means including a manually controlled valve for arresting said fluid actuated valve mechanism whereby the fluid pressure will act upon said part to park the wiper, and means for automatically shutting off the fluid pressure as the wiper is parked.

2,314,006
ELECTRIC ARC APPARATUS
Lorne A. Matheson, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
Application July 24, 1941, Serial No. 403,883
4 Claims. (Cl. 314—33)



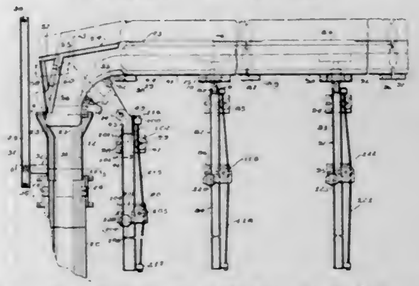
3. In an electric arc apparatus, in combination with a source of alternating current: two fixed electrodes connected to opposite poles of the current source; an electrically conducting rotor mounted between the fixed electrodes and means for rotating the same in synchronism with the alternating voltage; two electrode arms in series with each other mounted on the rotor in such position as to be brought into substantially simultaneous arcing relationship with the fixed electrode by the movement of the rotor; and means responsive to the current flowing in each arc gap for moving the corresponding fixed electrode outwardly at a slow rate when current is flowing in the gap and inwardly at a rapid rate when no current is flowing in the gap.

2,314,007
ELECTRIC ARC APPARATUS
Lorne A. Matheson, Floyd C. Hach, and Moyer P. De Haas, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
Application July 24, 1941, Serial No. 403,884
5 Claims. (Cl. 176—41)



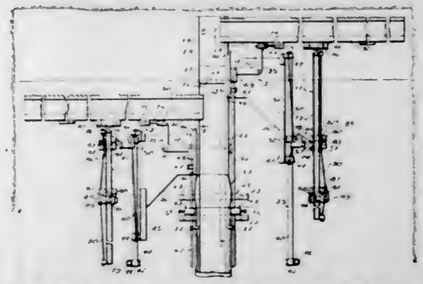
1. In an electric arc apparatus, in combination with a source of alternating current: two fixed electrodes attached to opposite poles of the current source; an electrically conducting rotor mounted between the fixed electrodes and means for rotating the rotor in synchronism with the alternating voltage; two electrode arms in series with each other mounted on said rotor in such position as to be brought into substantially simultaneous arcing relationship with the fixed electrodes by the movement of the rotor; and means responsive to the width of an arc gap between a fixed and a rotor electrode for changing the direction of current flow through the rotor electrode arms.

2,314,008
LOADING APPARATUS
Timothy F. McCarthy, Indiana, Pa.
Application June 4, 1941, Serial No. 396,507
11 Claims. (Cl. 198—220)



1. In a face loading apparatus, a shaker conveyer trough line, a loading pan disposed at an angle to said trough line and having an advance edge adapted to slidably engage the ground, means for advancing said loading pan edgewise into the material it is desired to load, and means communicating with said loading pan and trough line for reciprocably driving said loading pan from said trough line, said means also forming a means for conveying material from said loading pan into said trough line and having an advance edge slidably engageable with and adapted to pick up material from the ground.

2,314,009
LOADING APPARATUS
Timothy F. McCarthy, Indiana, Pa.
Application June 5, 1941, Serial No. 396,695
7 Claims. (Cl. 198—220)



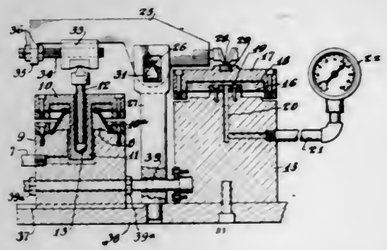
1. In a face loading apparatus, a shaker conveyer trough line adapted to be extended into a working place, a face loading pan adapted to extend in parallel relation with respect to the working place, for loading material onto said trough line, a base adapted to be held stationary on the ground during operation of the conveyer, a bell crank pivotally mounted on said base for movement about a vertical axis, a drive connection between said trough line and said bell crank, and a drive connection between said bell crank and loading pan, for reciprocably driving said face loading pan and permitting said pan to be pivoted with respect to said bell crank during reciprocation thereof, means for advancing said loading pan into the material it is desired to load,

and other means for advancing said base simultaneously with or independently of advancing movement of said loading pan.

2,314,010
ROLLING MAGNESIUM-BASE ALLOYS
John C. McDonald, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application April 21, 1941, Serial No. 389,601
6 Claims. (Cl. 148—11.5)

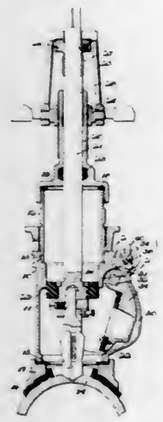
1. In a method of producing a rolled article from a magnesium-base alloy containing at least 85 per cent of magnesium and selected from the class consisting of alloys consisting essentially of magnesium and 2 to 8 per cent of aluminum and alloys consisting essentially of magnesium and at least 1.0 per cent by weight of manganese, wherein the alloy is formed into a product having a thickness between about 60 and about 900 per cent above the desired final thickness and is then rolled to substantially final thickness while at a temperature between 300° and 900° F., after which it is cooled rapidly to a temperature below 200° F., the improvement which comprises conducting the rolling at a rate of reduction in thickness of the metal between about 40 and about 80 per cent per pass through the rolls.

2,314,011
SCALE INTEGRATING MECHANISM
Claren S. Maurer, Toledo, Ohio
Application July 19, 1941, Serial No. 403,145
5 Claims. (Cl. 265—47)



1. In a weighing apparatus having a load supporting element and a hydraulic supporting means therefor including a plurality of primary pressure chambers with element supporting members movable therein to vary the pressure in the chambers in accordance with the load applied to the element, a master pressure receiving member, means associated therewith and operable to indicate the sum of different pressures applied thereto, a plurality of levers separately acting on said master member to apply pressure thereto, means forming a pair of secondary pressure chambers for each primary chamber and connected therewith, a pair of thrust members operable by pressure in said secondary chambers to impart opposed thrusts against the power arm of a respective lever, one of said thrust members acting against the lever in closer relation to its fulcrum than the other thrust member whereby the lever operating thrust is opposed a predetermined extent by the other thrust member, and means for adjusting the point of connection of one of said thrust members with the lever lengthwise thereof.

2,314,012
DRILLING APPARATUS
Frank H. Mueller and Walter J. Bowan, Decatur, Ill., assignors to Mueller Co., Decatur, Ill., a corporation of Illinois
Original application July 17, 1940, Serial No. 346,052. Divided and this application December 12, 1941, Serial No. 422,773
1 Claim. (Cl. 77—40)

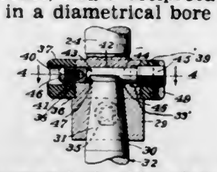


In a drilling machine, a barrel adapted to be disposed with one end in sealed communication with a main containing pressure fluid, means sealing the other end of the barrel, a valve seat in the barrel intermediate the ends thereof demarking inner and outer chambers, the inner chamber including a lateral enlargement extending somewhat outwardly of said seat at one side thereof, a flop valve in said enlargement cooperative with said seat, the barrel being provided with a passage leading from the outer chamber and terminating in a port at the exterior surface of said barrel, and with a passage leading from the outward extension of said enlargement and terminating in a port at the exterior surface of the barrel adjacent the first-named port, and a bypass valve including a housing secured to and sealed against said surface in overlying relation to said ports, said housing having therein a valve seat of circular section and a rotary valve plug cooperative with said seat, said plug having an axial bore at its inner end and a radial bore terminating in said axial bore; said housing having a passage at the inner end of said plug registering and communicating with the port which communicates with said outer chamber, a passage registering and communicating with the other port and with which said radial passage is registrable, and a relief opening with which said radial passage is registrable.

2,314,013
DRILLING APPARATUS
Frank H. Mueller and Walter J. Bowan, Decatur, Ill., assignors to Mueller Co., Decatur, Ill., a corporation of Illinois
Application January 31, 1942, Serial No. 429,091
8 Claims. (Cl. 77—40)

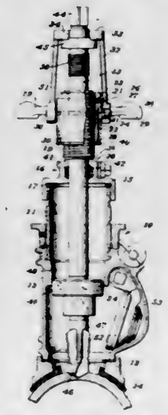
1. A boring bar having a socket at one end adapted to receive the shank of a tool, a centering annulus engaging the bar adjacent the inner

end of the socket, and a reciprocable knock-out pin disposed in a diametrical bore in the boring



bar at the inner end of said socket and engaging said annulus to secure the latter on the bar.

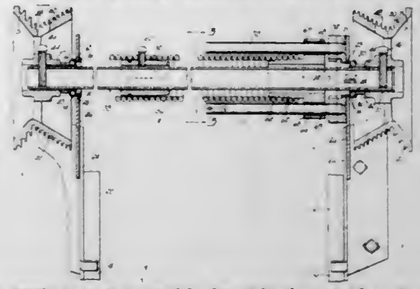
2,314,014
DRILLING APPARATUS
Frank H. Mueller and Walter J. Bowan, Decatur, Ill., assignors to Mueller Co., Decatur, Ill., a corporation of Illinois
Application January 31, 1942, Serial No. 429,092
6 Claims. (Cl. 77—40)



1. Drilling apparatus comprising a cap including a base having means for engaging the barrel of a drilling machine upon turning of the base relative to the barrel, said means disengaging the barrel upon reverse turning of the base, said cap including an externally threaded neck projecting coaxially from said base and having an axial bore, a boring bar rotatable and reciprocable in said bore, a nut threaded on said neck, a collar non-rotatably but axially slidably mounted on said nut, an arm projecting from the collar by which the latter may be turned to traverse the nut, cooperating abutment portions on the nut and collar whereby the collar is caused to follow the nut when the nut is threaded toward the base, means whereby the boring bar may be caused to follow the collar as the collar is moved toward the base, and clutch means on said collar and cap engageable to transmit turning movement of the collar to the cap in either direction when the collar is slid relative to said nut toward said base.

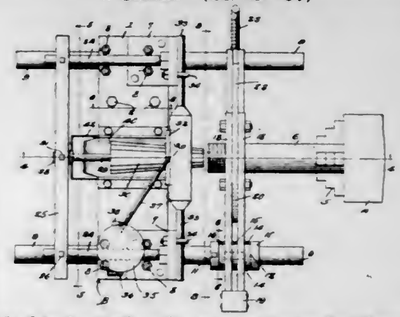
2,314,015
COUNTERBALANCE FOR OVERHEAD DOORS
Stuart W. Parsons, New Britain, Conn., assignor to The Stanley Works, New Britain, Conn., a corporation of Connecticut
Application February 26, 1941, Serial No. 380,624
3 Claims. (Cl. 16—198)

1. A counterbalancing mechanism for an articulated overhead door including a horizontally disposed coil spring which is torsionally tensioned and untensioned to counterbalance the door as the door moves between open and closed rotation and permitting said anchor transverse movement axially relative to said posts so as to positions, a shaft located within said spring and rotatably supported by a pair of spaced supports secured to the doorway frame, means securing one end of the spring to the shaft for rotation therewith, an anchor secured to the other end of



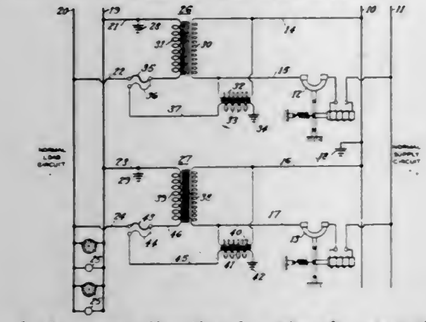
the spring and movable lengthwise of the shaft, a post carried by one of said supports parallel with the direction of movement of said anchor, said post engaging and restraining the anchor and the end of the spring carried thereby against spring upon the tensioning and untensioning allow for elongation and contraction of said thereof.

2,314,016
PIPE NIPPLE TOOL
Alva Eugene Peters, Olney, Ill.
Application July 24, 1940, Serial No. 347,329
1 Claim. (Cl. 10—87)



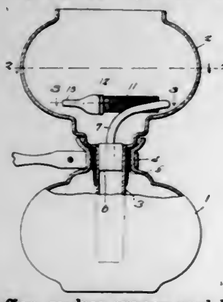
Mechanism whereby a pipe may be threaded and reamed simultaneously on a turning lathe, said mechanism comprising, in combination with the movable tool rest and the rotatable arbor of the lathe, the arbor having means for holding a pipe for rotation with the arbor: a base extended across the axis of rotation of the arbor, means for attaching the base to the tool rest, upstanding supports mounted on the base, on opposite sides of the axis of rotation of the arbor, rearwardly-extended guides disposed parallel to the axis of rotation of the arbor and having their forward ends mounted on the respective supports, the rear ends of the guides being free, a carriage mounted on the guides, for adjustment toward and away from the arbor, means for holding the carriage in adjusted positions, a reamer mounted on the carriage and disposed between the guides, in axial alinement with the arbor, the base being of such length as to space the supports and the guides far enough from the reamer so that the carriage will have no practical effect in bending the guides when a piece of pipe is rotated on the reamer, and a thread chasing means carried by the supports, the reamer projecting into the field of operation of the thread-chasing means.

2,314,017
POWER DIRECTIONAL FUSED NETWORK
Ralph R. Pittman and Carroll H. Walsh, Pine Bluff, Ark.
Application February 8, 1940, Serial No. 317,875
6 Claims. (Cl. 175—294)



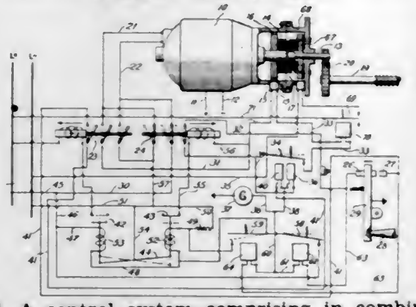
1. A power-directional network comprising transformer means including two transformer windings having differing electrical characteristics, an interconnecting circuit electrically connecting said windings in parallel arrangement to cause a predetermined current to circulate through said windings in series circuit relation when said windings are energized, a first fusible means interposed in series with said interconnecting circuit, and means including a second fusible element serially interposed between and electrically connecting a load circuit to said parallel arrangement, the arrangement being such that current incident to load on said load circuit decreases the current in said interconnecting circuit to a magnitude less than said predetermined current, and means responsive to the fusing of said first fusible means for causing said second fusible means to disconnect said load circuit upon the passage through said first fusible means of a current exceeding said predetermined current.

2,314,018
COFFEE MAKER
John William Sanderson, La Jolla, Calif.
Application August 6, 1941, Serial No. 405,713
10 Claims. (Cl. 53—3)



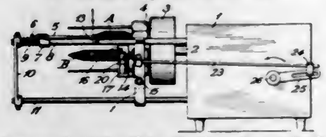
1. In a coffee maker upper and lower containers, a stem providing the sole means of communication therebetween and depending within the lower container, a stationary nozzle in the upper container, and means for directing fluid under pressure from the stem to the nozzle, said nozzle being positioned to deliver said fluid into the upper container outwardly away from the center of the container and against the container wall, said wall and nozzle cooperating to deflect all portions of the delivered fluid in one direction about the center of the container, thereby to swirl the contents of the upper container.

2,314,019
CONTROL SYSTEM
Robert D. Shaw, Bloomfield, Conn., assignor to Niles-Bement-Pond Company, West Hartford, Conn., a corporation of New Jersey
Application May 31, 1940, Serial No. 338,035
4 Claims. (Cl. 90—13.5)



1. A control system comprising in combination, a motor, a magnetic clutch drivingly connected thereto, a magnetic brake adjacent said clutch, an armature for said clutch and brake connected to a shaft for rotation therewith whereby rotation of said armature will rotate said shaft, tracer controlled contacts, relays controlled by said contacts to open and close circuits to simultaneously energize said clutch and start rotation of said motor in a predetermined direction, and relay controlled circuits to deenergize said clutch and energize said brake when said contacts are simultaneously opened.

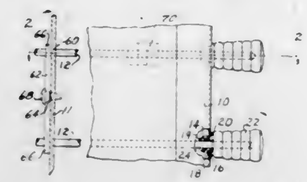
2,314,020
SPOOL TRANSFER DEVICE FOR WINDING MACHINES
Walter Siegenthaler, Erlenbach, Zurich, Switzerland, assignor to Maschinenfabrik Schärer, Erlenbach, Zurich, Switzerland
Application November 22, 1941, Serial No. 420,114
In Germany November 14, 1940
6 Claims. (Cl. 242—41)



1. In a spool transfer device for winding machines of the type described, a reciprocatory slide, a clamping mechanism carried by said slide, and means influencing said clamping mechanism to automatically cooperate with the winding on a spool for removing said spool out of its mounting position in the machine, while said slide travels in one direction of movement, said clamping mechanism being ineffective to grip a spool while said slide travels in the opposite direction of movement.

2,314,021
MANUAL CONTROL DEVICE
Joseph F. Sladky, Racine, Wis., assignor to Nash-Kelvinator Corporation, Kenosha, Wis., a corporation of Maryland
Application January 25, 1940, Serial No. 315,471
2 Claims. (Cl. 74—503)

1. Control mechanism comprising parts to be controlled, a panel defining apertures, a pair of control shafts extending through said apertures and arranged to control said parts, a leaf spring having its ends resting against said shafts, clamping means for fastening the intermediate portion of said spring to said panel in such a position as to deflect said spring to press against said shafts.

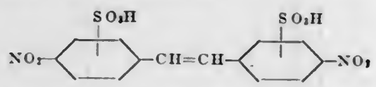


2,314,022
TREATMENT OF WELLS
John B. Stone, Tulsa, Okla., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application July 31, 1940, Serial No. 348,819
4 Claims. (Cl. 252—8.55)

1. In a method of treating a well, the step which includes introducing into the well an acid solution containing an emulsified demulsifying agent capable of preventing and breaking emulsions between oil and said acid.

2,314,023
SUBSTANTIVE AZO DYESTUFFS AND PROCESS OF MAKING SAME
Fritz Straub, Kaiseraugst, and Walter Hanhart, Riehen, Switzerland, assignors to Society of Chemical Industry in Basle, Basel, Switzerland
No Drawing. Application July 25, 1940, Serial No. 347,554. In Switzerland August 8, 1939
11 Claims. (Cl. 260—143)

1. Process for the manufacture of substantive azo dyestuffs which comprises condensing in a caustic alkaline medium the reduction product, obtained by subjecting a dinitrostilbenedisulphonic acid of the formula

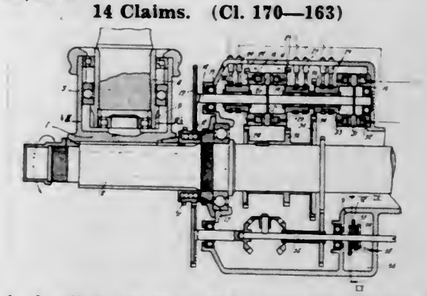


to the action of a feebly acting reducing agent, with an aminoazo compound which contains at least two aryl nuclei united by an azo group and which also contains a salicylic acid grouping, the aryl nuclei being members of the group consisting of the benzene, naphthalene and pyrazolone series.

2,314,024
MAGNESIUM BASE ALLOY
Carl E. Topping, Jackson, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application March 23, 1942, Serial No. 435,780
3 Claims. (Cl. 75—168)

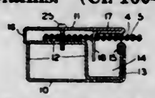
1. A magnesium base alloy containing from about 1 to 2 per cent of aluminum, from about 2 to 3 per cent of cadmium, from about 4 to 8 per cent of copper, from about 0.1 to 0.4 per cent of manganese, and 0.1 per cent of calcium, the balance being magnesium.

2,314,025
VARIABLE PITCH AERIAL PROPELLER
Charles Raymond Waseige, Rueil, France; vested in the Alien Property Custodian.
Original application July 27, 1938, Serial No. 221,595. Divided and this application November 28, 1939, Serial No. 306,564. In France July 30, 1937
14 Claims. (Cl. 170—163)



1. A pitch varying and reversing device for aerial screw propellers including means adapted to increase and decrease the pitch at any one of two widely different rates, wherein said means includes a gear coaxial to the propeller and rotatable relatively thereto, gear means adapted to operatively connect said coaxial gear to the propeller blades so that a rotation of said coaxial gear relative to the propeller will produce a variation of the pitch, motion transmitting means whereby said coaxial gear may be rotated relative to the propeller, said motion transmitting means including at least three gear trains adapted each to rotate said gear coaxial to the propeller and first, second, third and fourth clutches including driving and driven coupling parts, countershaft means supporting the driving and driven parts of said three first clutches and stationary bearing means for said countershaft means, the driven parts of said three clutches being in permanent driving connection with said coaxial gear and the three clutches arranged to selectively set said gear trains into and out of operative connection with said coaxial gear, the gear ratios of said three gear trains being, the one slightly greater, the other slightly less and the third far higher than the gear ratio between said coaxial gear and the driven part of the associated clutch, means including said fourth clutch or coupling, one coupling part of which being in permanent connection with said coaxial gear, said last named means being adapted to alter rotation of said latter coupling part of the fourth clutch, and thereby of said coaxial gear, in a way contrary to that resulting from the operation of said third clutch and gear train, and control means for said four clutches.

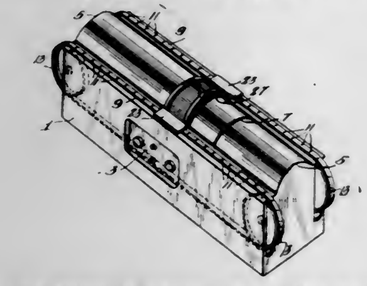
2,314,026
WINDOW SCREEN OR BLIND
Leon E. Willett, Detroit, Mich., assignor to Chamberlin Metal Weather Strip Company, Detroit, Mich., a corporation of Michigan
Application February 23, 1942, Serial No. 431,926
10 Claims. (Cl. 160—371)



1. A screen of the character described, comprising a foraminous panel, and a frame therefor, including side and end members, one of said members having a body portion and a cap,

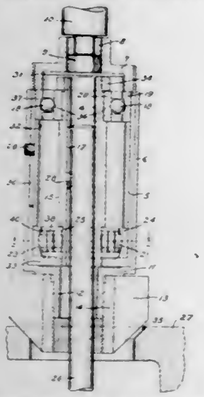
the cap having projections entering the foraminations of the panel, and means for securing the cap to the body portion with the panel held therebetween.

2,314,027
FACSIMILE TRANSMITTER
Charles J. Young, Ardmore, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Application January 31, 1941, Serial No. 376,872
6 Claims. (Cl. 178—11)



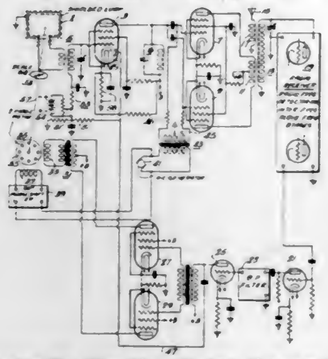
1. In a facsimile transmitter, subject copy driving means including in combination a guide member defining a path along which said copy is to move, perforated drive belts adjacent said path, a frame engaging said belts at said perforations and supporting a flexible web member for sandwiching said subject copy between said frame and said guide member to maintain the copy in contact with said guide member.

2,314,028
VALVE SEAT GRINDER
Wendell K. Beckwith, Milwaukee, Wis., assignor to Milwaukee Electric Tool Corporation, Milwaukee, Wis., a corporation of Wisconsin
Application March 17, 1941, Serial No. 383,655
8 Claims. (Cl. 51—241)



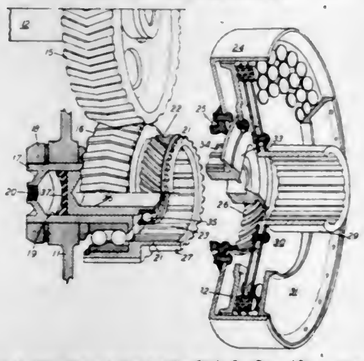
1. In combination, a circular support having a central axis, an annular member surrounding said support and being rotatable about an axis disposed eccentrically relative to said support axis, means for rotating said member about its own axis, and a roller bearing having rollers of different diameters interposed between said support and said member for automatically gyrating said member about said support axis during rotation of the member.

2,314,029
SELF-ORIENTING RADIO DIRECTION FINDER
Donald S. Bond, Philadelphia, Pa., and Wendell L. Carlson, Haddonfield, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application March 19, 1938, Serial No. 196,817
15 Claims. (Cl. 250—11)



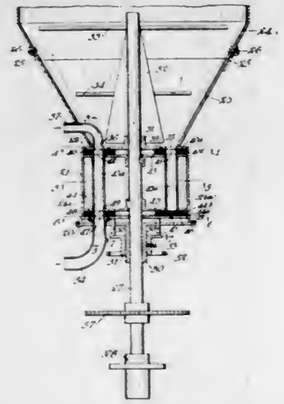
1. In a radio direction finder, the combination of a directive antenna, a non-directive antenna, an amplifier connected to said directive antenna, said amplifier including means for shifting the phase of the amplified currents in a constant direction independently of their frequency, a modulation current source, a balanced modulator connected to said source and supplied with high frequency currents derived from said directive antenna for modulating said last mentioned derived currents to produce currents of side band frequency, a radio receiver, means for applying a carrier frequency current derived from said non-directive antenna and currents of side band frequency derived from said directive antenna to said receiver so that a demodulated current corresponding to said side band frequency may be derived from said receiver, means for rectifying said demodulated current to derive a controlling voltage, and means for applying said controlling voltage to said amplifier.

2,314,030
LOCKUP FOR TORQUE ENGAGED CLUTCHES
John J. Bloomfield, Burbank, Calif., assignor, by mesne assignments, to Vega Aircraft Corporation, a corporation of California
Application May 12, 1941, Serial No. 393,109
5 Claims. (Cl. 192—41)



1. In a torque engaged clutch for the one way transmission of power, a drum, a pair of oppositely acting pressure plates within said drum and in driving relationship therewith, torque engaging means comprising spiral gear teeth adapted to coact with said pressure plates to draw at least one of said plates towards the other upon application of torque in one direction, and to force them apart upon reversal of the direction of torque, and hydraulically energized means adapted to engage one of said pressure plates and overcome the tendency towards separation thereof upon application of reverse torque whereby to engage said pressure plates for transmission of torque in both directions.

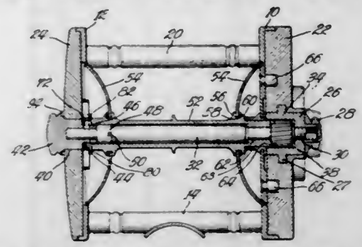
2,314,031
APPARATUS FOR PNEUMATICALLY DISTRIBUTING POWDERED AND GRANULAR MATERIAL
Richard R. Colburn, Minneapolis, Minn.
Application February 19, 1941, Serial No. 379,720
2 Claims. (Cl. 302—49)



1. In combination, an annular casing having an upright central axis and a series of slots extending parallel to said axis, a carrier rotatable within said casing and having an annular series of equally spaced upwardly and downwardly open measuring pockets revolvable about said axis, top and bottom plates coacting with said carrier to seal the adjacent pocket ends, one of said plates being fixed against movement and the other plate being movable along said axis and having peripheral lugs slidable along said casing slots to prevent rotation of said other plate about said axis, and said plates having local material supply and discharge openings respectively disposed out of vertical alinement with each other, means for urging said movable plate toward the fixed plate to snugly confine said carrier between the plates, a granular material supply hopper communicating with the supply opening in said top plate, a material delivery conduit communicating with the discharge opening in said bottom plate, and means for admitting compressed air to the successive pockets when passing over said discharge opening.

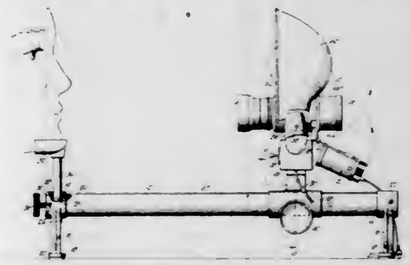
2,314,032
FISHING REEL
Joseph A. Coxe, Los Angeles, Calif., and Richard P. McMahon, Bronson, Mich., assignors to Bronson Reel Company, Bronson, Mich., a corporation of Michigan
Application January 26, 1940, Serial No. 315,820
16 Claims. (Cl. 242—84.1)

6. A fishing reel comprising, in combination: a framework including spaced head and tail end members; a stationary pintle carried by said framework; said pintle having a centrally located reach portion and bearing portions at both ends of said reach portion, both bearing portions being of smaller diameter than said reach portion; and



rotary spool means supported on said pintle; said spool means having a tubular hub; said hub having a reach portion of greater diameter than the reach portion of said pintle to define an oil storage space; and bearing portions fitting the bearing portions of said pintle.

2,314,033
PHOTOGRAPHIC APPARATUS
Morven Curran, Kansas City, Mo.
Application May 28, 1940, Serial No. 337,573
3 Claims. (Cl. 95—11)

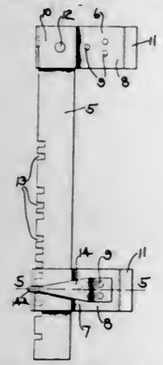


3. In a device of the character described a frame comprising an elongated body member having depending leg supports at its opposite ends; a chin rest mounted for free vertical and rotary adjustment in one end portion of the said frame; a camera supporting carriage mounted for sliding movement on said elongated body member, means to preclude all rotary movement of said carriage relative to said body member; and universal adjustably mounted lamps carried by said camera supporting carriage and so positioned that the direct light rays therefrom are directed toward said chin rest and away from said camera supporting carriage.

2,314,034
GRILLE BAR KEY
William C. De Roo, Holland, Mich., assignor to Hart & Cooley Manufacturing Company, Holland, Mich., a corporation of Delaware
Application March 31, 1941, Serial No. 386,043
2 Claims. (Cl. 81—15)

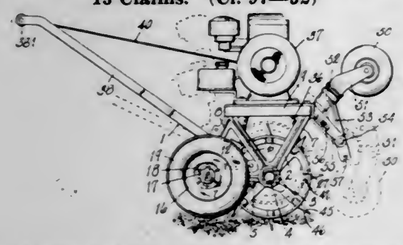
1. A bending tool comprising, a back bar, two jaw members thereon, one fixed at one end of the back bar and the other slidably mounted thereon, said slidable jaw member including two identical members arranged in reverse position to each other and fastened together forming at one end an open jaw to engage the work to be bent and at the other end an opening to slidably

receive said back bar, a notch in said other end of the slidable jaw member extending longitudinally thereof, a spring detent secured to a side of said slidable jaw member passing through said notch and terminating in an outwardly extending finger piece, and a plurality of spaced



apart slots in said back bar, whereby said spring detent will pass through said slots to hold the slidable jaw member in any adjusted position, but may be released for sliding movement by manual pressure on the finger piece of said detent, as specified.

2,314,035
TURF SPIKING MACHINE
Emanuel C. Dontje, Kalamazoo, Mich.
Application April 7, 1941, Serial No. 387,192
13 Claims. (Cl. 97—52)



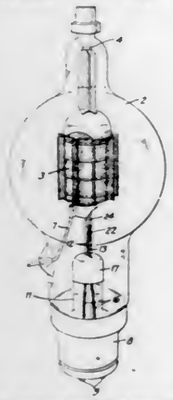
1. A turf spiking or cultivating machine of the type described comprising a carriage frame having means for rotatably supporting parallel spaced drum and wheel driving shafts, a chain drive interconnecting said shafts for rotation together, a pair of wheels rotatably mounted on said wheel shaft and having overrunning clutch means for drivingly connecting same to said wheel shaft for rotation therewith, a plurality of axially spaced drums rotatably mounted on said drum shaft, overrunning clutch means on said drums for drivingly connecting the same to said drum shaft, said drums and wheels being of approximately equal diameter and being rotated by said interconnecting driving means at approximately the same angular speed, said drums each having a plurality of circumferentially alined angularely spaced cultivating elements removably secured thereto in predetermined relation, and engine means supported on said carriage frame drivingly connected to one of said shafts for rotating said wheels and advancing said frame with said elements in penetrating engagement with the surface to be cultivated, said carriage frame having an auxiliary front transporting wheel pivotably mounted thereon which is swingable from inoperative retracted position to operative position engaging said surface, said transporting wheel in operative position being so related to the driving wheels as to maintain said drums in elevated position with the elements thereof out of penetrating engagement with the surface.

2,314,036
METHOD OF MANUFACTURING ROOFING TRIM
Segal Dressel and Clement A. Dressel, Los Angeles, Calif.
Application July 24, 1939, Serial No. 286,222
4 Claims. (Cl. 144—309)



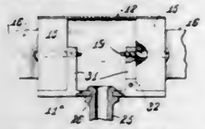
1. A method for making roofing trim consisting in simultaneously beveling one side edge only of a pair of superposed shingles having their tip ends together and their butt ends spaced from each other.

2,314,037
CATHODE STRUCTURE
William W. Eitel, San Bruno, and Jack A. McCullough, Millbrae, Calif., assignors to Eitel-McCullough, Inc., San Bruno, Calif., a corporation of California
Application June 30, 1942, Serial No. 449,149
9 Claims. (Cl. 250—27.5)



1. A cathode structure comprising a support, a filament overlapping the support and welded thereto, and a strap clamping the filament to the support adjacent the weld.

2,314,038
FLUORESCENT TUBE MOUNTING
August O. Elting, Chicago, Ill.
Application November 24, 1941, Serial No. 420,228
12 Claims. (Cl. 174—52)



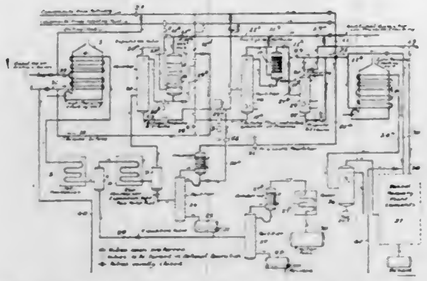
1. A mounting for fluorescent tubes comprising, in combination, a housing formed of two cooperating parts, one of said parts consisting of a substantially rectangular plate, a vertical wall portion on one longitudinal edge of said plate, arms struck from said wall portion ex-

tending transversely of and overhanging said plate, said arms being spaced one inwardly of each end of said plate, two sockets having their bases resting one on each end portion of said plate, means securing said bases one to each arm, a reinforcing member bridging the free ends of said arms, and the other part consisting of an inverted substantially U-shaped cover to conceal the arms, reinforcing member and socket bases.

2,314,039
PROCESS FOR THE PRODUCTION OF EPOXIDE ETHERS
Theodore W. Evans, Kenneth E. Marple, and Edward C. Shokal, Oakland, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application September 30, 1940, Serial No. 359,092
13 Claims. (Cl. 260—348)

1. Allyl glycidyl ether.

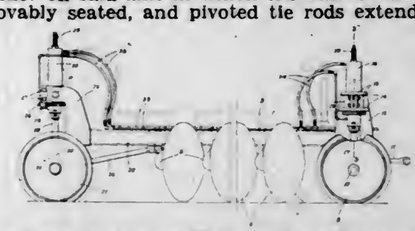
2,314,040
PROCESS FOR CONVERTING HYDROCARBONS
Frederick E. Frey, Bartlesville, Okla., assignor to Phillips Petroleum Company, Bartlesville, Okla., a corporation of Delaware
Original application October 6, 1932, Serial No. 636,555. Divided and this application March 30, 1936, Serial No. 71,763
15 Claims. (Cl. 196—10)



3. In a process for the conversion of normally gaseous hydrocarbons into normally liquid hydrocarbons, scrubbing a gaseous mixture containing butane, butene, propane, propylene, ethane, ethylene, methane and hydrogen, with a liquid menstruum composed principally of hydrocarbons of three and four carbon atoms per molecule and thereby separating the butanes, butenes, propane, propylene, ethane and ethylene from undissolved methane and hydrogen, discharging the undissolved methane and hydrogen from the process, and then converting the butanes, butenes, propane, propylene, ethane and ethylene at elevated temperatures to produce liquid oils.

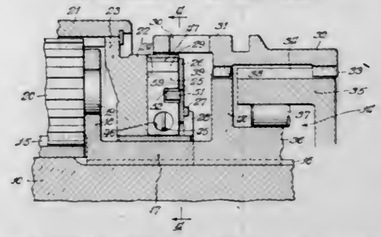
2,314,041
LIFT FOR IMPLEMENT FRAMES
Albert G. Gurries, Gilroy, Calif.
Application February 28, 1941, Serial No. 381,084
3 Claims. (Cl. 97—50)

1. In an earth working implement including a frame having a main beam, and spaced ground engaging supporting wheels for said frame; upstanding hydraulic cylinders disposed adjacent said main beam in spaced relation, said cylinders having downwardly projecting piston rods, means rotatably mounting said supporting wheels in connection with the lower ends of said rods, and means securing said main beam on the cylinders for raising and lowering movement with the latter; said wheel mounting means for one of said rods including a transverse axle, there being a wheel journaled on both ends of said axle, a ball on the lower end of said one rod, a socket on said axle in which the ball is non-removably seated, and pivoted tie rods extending



lengthwise and upwardly from the axle on opposite sides of the socket to laterally spaced points on the frame, the corresponding cylinder being mounted for swinging movement in a vertical longitudinal plane.

2,314,042
TRANSMISSION CONTROL
Vaughn Haigh, Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application July 24, 1941, Serial No. 403,813
16 Claims. (Cl. 192—105)

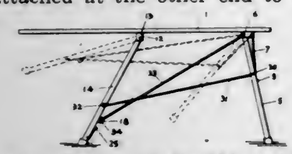


1. In a mechanism for transmitting torque from a driving to a driven member, means for changing the torque including a positive coupling element, centrifugal force responsive means for moving said element, means in which said coupling element is mounted for sliding movement, a cooperating coupling member shiftable to and from a position wherein said coupling element is adapted to establish positive coupling engagement therewith, and a latch element mounted in said mounting means in a plane transverse to the axis of movement of said coupling element and having a portion adapted to move from a position obstructing to a position permitting movement of said coupling element to its coupling position, said latch element being rendered effective to move to its obstructing position by movement of said coupling member away from its coupling position.

2,314,043
FOLDING IRONING TABLE AND THE LIKE
Harold Howe, Rowayton, Conn.
Application July 25, 1941, Serial No. 403,944
3 Claims. (Cl. 38—117)

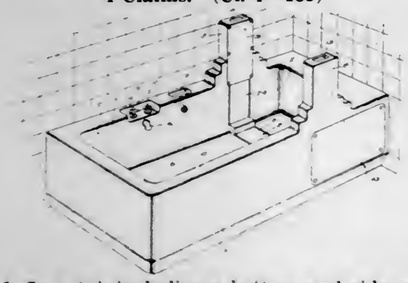
2. An ironing table comprising a board, a pair of rear legs pivoted to the board adjacent one end thereof, a front leg comprising a plurality of faces angularly disposed and leaving a space communicating with the interior of the leg pivotally attached to the board at a point spaced from said rear legs, a pair of flanges extending from faces of said front leg toward one another part way across said space, forming a slideway,

a slide keyed in said slideway, a pair of links extending between said rear legs respectively and said front leg, and lock bar means pivotally attached at one end to the rear portion of the structure adjacent to the pivotal connections between the rear legs and said board and pivotally attached at the other end to said slide,



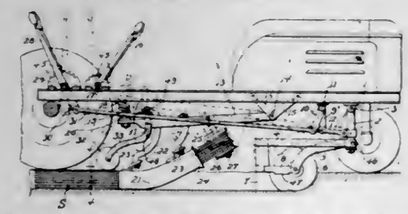
an arm pivotally mounted within said front leg having a projection at its free end extending outwardly through the flanges forming said slideway, said projection having a sharply angled face, and a gradually inclined face extending in the direction of the slide, and spring means urging the free end of said arm outwardly into the path of said slide, to cause the said projection to engage the slide when it has passed below said projection.

2,314,044
BATHTUB STRUCTURE
Arthur J. Hunting, Eureka, Calif.
Application March 20, 1942, Serial No. 435,555
4 Claims. (Cl. 4—185)



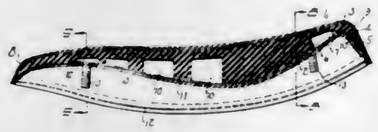
1. In a tub including a bottom and side walls, a substantially U-shaped seat-like structure disposed transversely in the tub and power means for lifting and lowering the seat-like structure, said side walls having upstanding tower-like structure for receiving the upper portions of the seat-like structure when the seat-like structure is in elevated position, said seat-like structure having racks at the side portions thereof, said power means including a motor, and gears between the motor and the rack.

2,314,045
MEANS TO PROTECT LAWNS AND FIELDS
William Johnson, Council Bluffs, Iowa
Application March 19, 1941, Serial No. 384,187
10 Claims. (Cl. 111—5)



1. In a machine of the character described, a wheeled vehicle having a frame, a ground slitting disc and a spreader carrying frame pivotally mounted on said vehicle frame, lever operated means mounted on the vehicle and connected with said carrying frame for swinging it on its pivot, means to the rear of said spreader for laying edgewise in the ground opening a barrier strip, means to the rear of the strip laying means for pressing the dirt to seal-in the barrier, a bar one end of which is pivotally supported by the vehicle frame, and a lever device on the vehicle and connected with the other end of said bar for rocking it on its pivot, said laying means and said sealing-in means being carried by said bar.

2,314,046
CYCLE SADDLE
Harold E. Kalter, Elyria, Ohio, assignor to The Troxel Manufacturing Company, Elyria, Ohio, a corporation of Ohio
Application March 20, 1939, Serial No. 262,868
3 Claims. (Cl. 155—5.23)



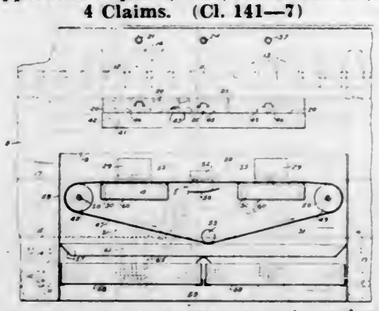
1. A cycle saddle comprising a frame, a layer of cushioning material on said frame, a pliable cover overlying said cushioning material, means securing the lateral edges of said cover to said frame, said material comprising foamed latex sponge material having a cellular construction with cells thereof relatively inter-communicating, whereby air may be expressed from said cells by pressure imposed on an overlying cover portion, and air drawn therein upon release of such pressure, and adhesive material adapted to resiliently join contiguous surfaces of said cover and said layer of cushioning material, said layer of cushioning material being provided with spaced recesses extending upwardly from the bottom surface thereof toward its top surface but with the upper wall surface of said recesses being separated from said top surface by a substantial intervening layer of said cushioning material, and air conducting channels interconnecting at least most of said recesses.

2,314,047
SHOE LASTING APPARATUS
Jacob S. Kamborian, West Newton, Mass.
Application August 4, 1941, Serial No. 405,285
8 Claims. (Cl. 12—7)



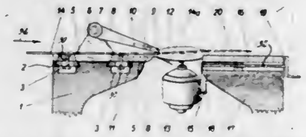
1. In a lasting machine, in combination, a rapidly vibrating wiper element and a pair of oppositely rotating upper-gripping rolls, said rolls turning about parallel axes and having substantially cylindrical work-engaging surfaces between which the marginal portion of the shoe upper is gripped, one roll having a peripheral channel and the peripheral surface of the other roll having a projecting rib complemental to said channel, the rib and channel lying in planes which are perpendicular to the axis of the respective rolls.

2,314,048
BOTTLE WASHING APPARATUS
Archie E. Ladewig, Waukesha, Wis.
Application April 3, 1940, Serial No. 327,590
4 Claims. (Cl. 141—7)



1. In a receptacle washer, a main casing having a receptacle washing zone therein, means for subjecting receptacles to liquid within said zone, an auxiliary casing connected to and in communication with the main casing to receive spent washing liquid from several spaced portions of said zone, an endless screen operating entirely within said auxiliary casing for receiving the spent washing liquid to separate debris from the liquid, means coacting with said screen to maintain the screening portion thereof taut, and means within said casings for delivering liquid from another portion of said zone reversely through said screen to remove debris therefrom.

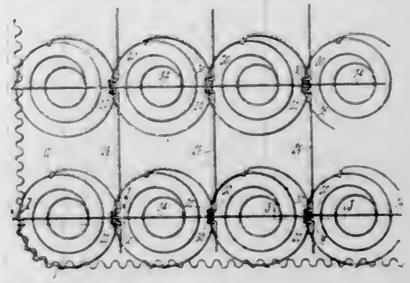
2,314,049
SCARFING MACHINE
Eino Markus Leino, Helsingfors, Finland, assignor to O. Y. Wilh. Schauman A. B., Jyvaskyla, Finland, a joint-stock company of Finland
Application August 7, 1940, Serial No. 351,657
In Germany January 21, 1939
3 Claims. (Cl. 143—42)



1. In a machine for bevel cutting thin flexible veneer sheets, a rotatable disc-shaped cutting tool, frame means supporting said tool, a guide plate having an end portion cuttable by the tool arranged adjacent the periphery of said disc, a second guide plate pivotally mounted on the frame means and having an end portion cuttable by the tool forming a gap through which the veneer sheet may be moved towards the cutting tool, and means for moving the tool towards the end portions of said guide plates so as to cut the end portions thereof in conformity with the cutting portion of the tool.

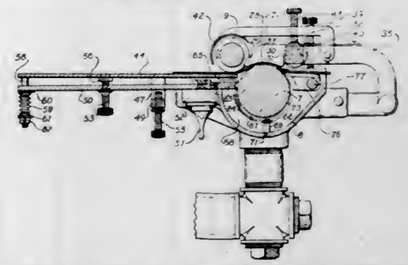
2,314,050
SPRING ASSEMBLY
David I. Levine, Lynn, Mass., assignor to Lisson-Melen Co., Lynn, Mass., a corporation of Massachusetts
Application December 24, 1941, Serial No. 424,223
1 Claim. (Cl. 5—273)

A spring assembly comprising a plurality of rows of individual coiled springs, the top coils of the springs in each row being in overlapping relationship and substantially in a common plane, tie-wires extending across the assembly transversely of the rows between successive springs in the several rows, each tie-wire consisting of substantially straight portions between the rows and a laterally offset, reversely bent, U-shaped loop at each row, each said loop extending up through the top coil of one of said springs, then down through the overlap between said top coil and



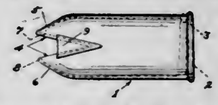
the top coil of the next spring, and then up through the last-mentioned top coil to project up above the common plane of the top coils, and a substantially straight locking wire extending along the median of certain of said rows upon the top coils thereof and threading through the upstanding ends of the loops in its row.

2,314,051
COATING MACHINE
Walter P. Osgood, Malden, Mass., assignor to Boston Machine Works Company, Lynn, Mass., a corporation of Massachusetts
Application February 28, 1939, Serial No. 258,967
11 Claims. (Cl. 91—51)



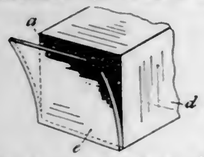
9. In a coating machine having a coating applying roll, means for feeding the work to said roll, said means comprising a driven feed roll, a table adjacent to said feed roll, and means yieldingly supporting said table.

2,314,052
CLOSURE AND SPOUT
Harold N. Perelson, Huntington Park, Calif.
Application May 26, 1941, Serial No. 395,189
3 Claims. (Cl. 221—60)



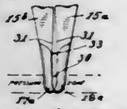
2. In a closure, a tubular body, opposed lips of inelastic material formed integral with said body so as to be bendable into positions for opening and closing an end of the body, and foldable, inelastic material webs overlying side margins of said lips and arranged to fold outwardly when the lips are bent into position to close said end of the body.

2,314,053
METHOD OF MAKING STORAGE BATTERY SEPARATORS
Royden Albert Rothermel, London, England
Application February 27, 1941, Serial No. 380,946
In Great Britain May 2, 1940
2 Claims. (Cl. 136—148)



1. A method of manufacture of storage battery separators comprising the following steps: detaching the rubberized strip of canvas formed of superposed layers from the pure rubber tread of a used tire; cutting the said rubberized strip of canvas formed of superposed layers to the required width of the separator; flattening the cut strip; superimposing a plurality of such strips between which a cementitious material is interposed; cementing the superimposed strips together under the application of heavy pressure in order to obtain a block; and slicing off the separators in a direction which leaves a porous way from one to the other side of the separator through the threads of the canvas.

2,314,054
METHOD OF MAKING PENS
John A. Shea, Jersey City, N. J.
Application February 28, 1940, Serial No. 321,219
1 Claim. (Cl. 113—32)



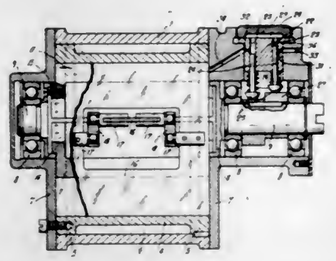
In the manufacture of a pen, having nib portions with enlarged elongated tips extending above the plane of the face of the nib having a slot, that step which consists in bending the outer ends of said tips toward each other to substantially contact the outer tip ends of the tips, to reduce at the outer tip ends the width of the slot between the tips and widen the slot inwardly of the outer tip ends, the bending being such as to form adjacent outer ends of the tips inclined to the axis of the pen in a plane parallel with the plane of the nib, the largest width between the tips being approximately at the inner ends of the enlarged tips, the laterally widened slot between the inner opposed walls of the enlarged tips forming an ink reservoir.

2,314,055
LATHE
Gilbert W. Scott, Jacksonville, Ill.
Application July 7, 1942, Serial No. 450,045
1 Claim. (Cl. 142—15)



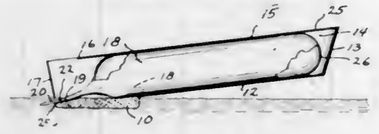
A lathe the combination of, a stationary table, legs supporting the table, rollers carried by the table, a carriage slidably mounted on the rollers, bearings carried by the carriage, a shaft removably mounted in the bearings and removably supporting an artificial limb forming material, a pattern removably mounted on the shaft in longitudinal alignment with the artificial limb forming material, an electric motor mounted on the carriage, adjacent one end of the shaft, a train of gears connecting the electric motor to the shaft, heads on the shaft removably securing the pattern and aforesaid material on the shaft with their like contours disposed in opposite radial directions relative to the shaft, upright bearing sleeves rigidly secured on opposite sides of the table adjacent certain ends of the pattern and aforesaid material, short shafts disposed in said bearing sleeves, a follow-arm secured to the upper end of the shaft disposed in that bearing sleeve adjacent the pattern, a flexible tube secured to the shaft disposed in the other bearing sleeve, a feeler-head mounted on said arm and bearing against the pattern, a flexible shaft extending through said flexible tube, a cutting-wheel secured to the free end of the flexible shaft and bearing against the aforesaid material, arms secured to the lower ends of the short shafts, a link connecting said arms, an electric motor connected to the flexible shaft, a spring simultaneously retaining the feeler-head and cutting-wheel in operative position, and means sliding the carriage on the table.

2,314,056
ROTARY VANE VACUUM PUMP OR COMPRESSOR
André Sobek, Paris, France; vested in the Alien Property Custodian
Application May 9, 1939, Serial No. 272,666
In Luxemburg February 22, 1939
2 Claims. (Cl. 230—153)



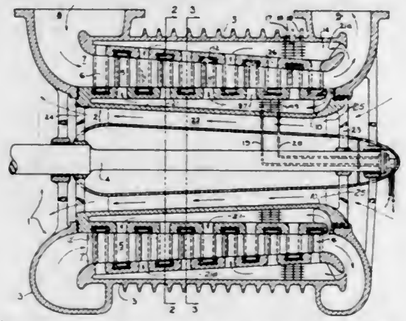
2. In a rotary vane pump or compressor including a casing providing a cylinder the directrix of which is formed by a conchoid of a circle, a rotatable vane arrangement provided within said cylinder and comprising two vanes, each vane being diametrically arranged in said cylinder and cut away at their central portion so as to clear each other's paths of movements and coupling means connecting said vanes together, said coupling means being formed by journaling means mounting each of said vanes for rotation coaxially with its middle line and connecting means between said journaling means maintaining said lines at a distance equal to the diameter of said circle, and a driving member rotating about an axis passing through the pole of said conchoid, said member being provided with four equally spaced slots for diametrally guiding said vanes, said coupling means consisting in two connecting rods and two pieces secured to each of said vanes and journaled on the ends of each connecting rod.

2,314,057
TOY RACING BOAT
Sam J. Slotsky, Sioux City, and August F. Pfingsten, Rock Rapids, Iowa
Application April 7, 1941, Serial No. 387,208
3 Claims. (Cl. 46—95)



1. A toy boat comprising a buoyant base member, an inflatable rubber sack attached thereto, a thin hull framework surrounding said sack and attached to said buoyant member, said hull framework adapted to normally cover said inflatable sack at maximum inflation thereof, a tube communicating with said sack attached to said base adapted to extend rearwardly beyond said base for providing propulsion means during deflation of said rubber sack by air escaping therefrom.

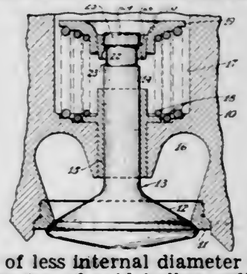
2,314,058
PUMP
Edward A. Stalker, Ann Arbor, Mich.
Application June 23, 1941, Serial No. 399,310
15 Claims. (Cl. 230—122)



12. In combination in an axial flow fluid machine, a hub supported for rotation about an axis, a plurality of wing-like elements supported on the hub and distributed axially therealong, a casing to house said hub and between them defining an axial passage for the pumped flow, a plurality of wing-like elements supported in said casing interposed between axially successive elements on the said hub, at least one of said elements being hollow and having a slot in its surface, a duct in said machine in communication with said passage at a locality removed a substantial distance axially from said element and in communication with the interior of said element to induce a flow through its slot to increase its compressor action, said element having its communication opening with said duct on the same side of said flow passage as the duct opening into said flow passage.

2,314,059
VALVE LOCK
Edward C. Steiner, Paterson, N. J., assignor to Wright Aeronautical Corporation, a corporation of New York
Application July 15, 1941, Serial No. 402,505
1 Claim. (Cl. 251—144)

In combination, a valve stem having a cylindrical end portion and a reduced diameter portion adjacent thereto, the two said portions joining one another in a shoulder; a lock for said stem, comprising segmental elements, having a hollow cylindrical portion at one end only for fitting engagement about said stem cylindrical end portion and having an inwardly projecting abutment portion at the other end for engagement against said shoulder, said abutment portion being of less internal diameter than the internal diameter of said hollow cylindrical portion but of greater internal diameter than the minimum diameter of the reduced diameter portion of the valve stem adjacent the cylindrical end portion of said stem.

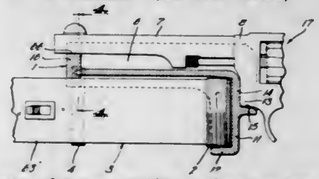


2,314,060
ELECTRICAL APPARATUS
John A. Victoreen, Cleveland Heights, Ohio
Application October 15, 1940, Serial No. 361,276
16 Claims. (Cl. 250—27.5)



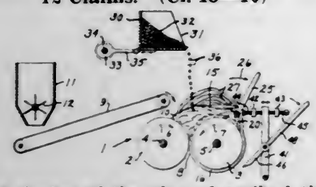
1. In combination with a vacuum tube adapted for operation in normal room conditions of temperature and humidity having an envelope and provided with an electrode lead extending therethrough, means to prevent surface leakage of electrons across said envelope to the lead comprising an electrical dam having the characteristics of extremely high surface resistance to electron creepage, and means to hold said dam in place comprising a material of high volume resistance to electron current therethrough.

2,314,061
ADAPTER FOR FLASHLIGHT AND REVOLVER
George W. Whaley, Van Nuys, Calif.
Application December 9, 1940, Serial No. 369,294
3 Claims. (Cl. 240—6.41)



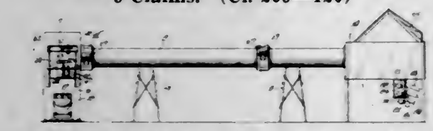
3. Means for supporting a firearm barrel above and substantially parallel to the axis of a flashlight, said means comprising a socket to receive the end of the flashlight, said socket having an external shelf opposite the bottom of said socket, said shelf extending substantially parallel to the axis of said socket and forming a support for the bottom of the frame of the firearm, and external spaced walls on said socket and associated with said shelf for embracing the sides of said frame.

2,314,062
METHOD AND APPARATUS FOR MARBLEIZING PLASTIC COMPOSITIONS
Glenn H. Alvey, San Antonio, and Fred Hubert, Jr., Houston, Tex., assignors to Uvalde Rock Asphalt Company, San Antonio, Tex., a corporation of Texas
Application June 3, 1940, Serial No. 338,578
12 Claims. (Cl. 18—10)



9. In a device of the class described the combination of, calendering rolls adapted to receive a quantity of plastic material and form a sheath of such material upon one of the rolls, means for severing and lifting spaced strips of the material from said sheath and depositing such strips upon the rolls, and means for distributing particles of a marbleizing material among the strips whereby a marbleized effect is imparted to the mass of plastic material.

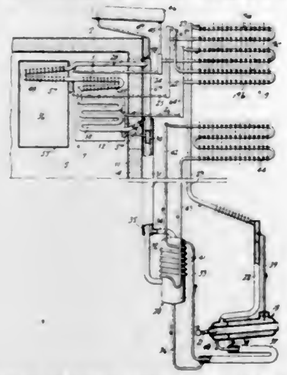
2,314,063
APPARATUS FOR TESTING GOLF BALLS
Carl G. Anderson and Donald E. Richardson, Chicago, Ill., assignors to United States Golf Association, a voluntary association
Application August 31, 1940, Serial No. 355,012
9 Claims. (Cl. 209—120)



9. In an apparatus of the character described, the combination of means for projecting in succession a series of balls, means for projecting a light beam across the path of said balls so as to be intercepted by the passage of a ball in flight at a predetermined distance from the point of projection, and means controlled jointly by said light beam and by the projecting means for segregating the projected balls in accordance with variations in their velocities in flight.

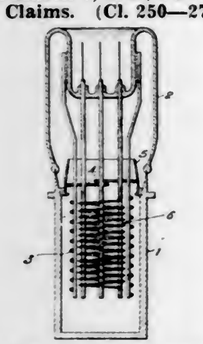
2,314,064
REFRIGERATION
Carl T. Ashby, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware
Application November 16, 1939, Serial No. 304,638
5 Claims. (Cl. 62—119.5)

4. A refrigerator having a storage compartment, a high humidity compartment in heat exchange relation with said storage compartment, refrigeration apparatus comprising a plurality of parts and connections therebetween, said parts including a liquid refrigerant supplier and a plurality of cooling elements in which liquid refrigerant evaporates to produce a cooling effect, each of said compartments being arranged to be cooled by one of said cooling elements, said connections including conduits for conducting liquid from said liquid refrigerant supplier to said cooling elements, and said parts including said connections being so constructed and arranged that said cooling element for said high humidity compartment is capable of producing a cooling effect by evaporation of liquid



refrigerant therein only when the load is at or above a predetermined value.

2,314,065
CATHODE
Raymond B. Ayer, Verona, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application March 7, 1942, Serial No. 433,750
5 Claims. (Cl. 250—27.5)

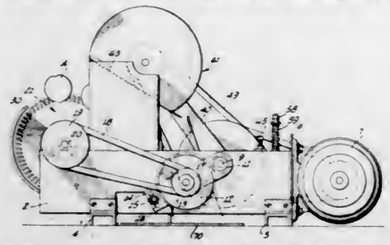


1. A filamentary cathode comprising a plurality of coaxial helices, support rods for said helices arranged longitudinally of the helices, the end of each helix being bent from the surface of its cylindrical surface and attached to one of the rods, the electrical connections to the rods being arranged so that the electrical resistance through the helices between any pair of rods is uniform.

2,314,066
FREESTONE PITTER
Benton Ballou and Lawrence W. Waters, Ontario, Calif.; said Waters assignor to said Ballou
Application March 16, 1942, Serial No. 434,896
13 Claims. (Cl. 146—28)

1. In a machine for automatically pitting fruit in which the pit is readily separable from the meat, as in freestone peaches, apricots and the like, the combination of: a low speed feeding disc having a plurality of peripherally arranged impaling elements spaced from each other, the space between said elements being at least twice their thickness, said impaling elements being of the width and spacing adapted to cause a single fruit to be impaled by a plurality of said elements simultaneously and to retain undisrupted flesh

tissue extending through spaces between said elements; a splitting blade adjacent said feeding disc and adapted to receive fruit therefrom, said splitting blade being provided with a concave cutting edge extending from adjacent the periphery of the feeding disc, said blade being pivoted

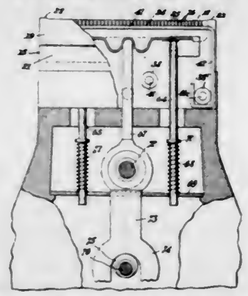


about the center of rotation of the feeding disc; a pit-extracting disc journaled above the splitting blade; means for driving said pit-extracting disc and means for yieldably urging said blade toward said pit-extracting disc.

2,314,067
PROCESS FOR PRODUCING SULPHUR DIOXIDE-OLEFIN RESINS
Maxwell M. Barnett and John H. Brown, Jr., Port Sulphur, La., assignors to Freeport Sulphur Company, New York, N. Y., a corporation of Delaware
No Drawing. Application February 3, 1939, Serial No. 254,380
8 Claims. (Cl. 260—80)

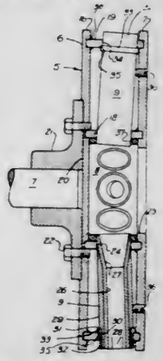
1. The process for producing resins of the sulphur dioxide-olefin type which comprises reacting sulphur dioxide and a compound selected from the group consisting of olefins, pentyne-1, hexyne-1, allyl alcohol, vinyl acetate and allyl propionate in the presence of diisobutylene ozonide as a catalyst.

2,314,068
SHAVING DEVICE
Russell E. Benner, Middletown, Conn.
Application December 13, 1939, Serial No. 308,925
6 Claims. (Cl. 30—43)



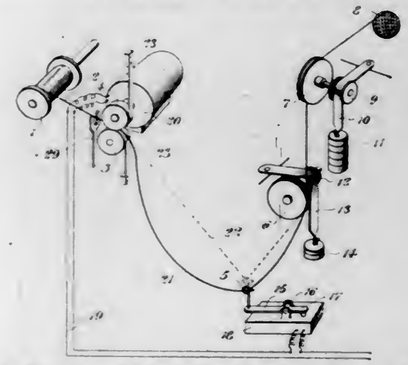
1. In a shaving device, a shaving head comprised of a pair of outer guards spaced apart from each other and each carrying a series of cutters on the opposed faces thereof, a member positioned between said guards and presenting a recessed surface to the skin of the user, clearance holes formed in said guards below said surface, a cutter bar in each of said guards, each of said cutter bars carrying cutters cooperating with the series of cutters on its guard and also having notches formed therein in spaced relation to said series of cutters, a driving link positioned between said guards and beneath the surface of said member and having portions projecting through said clearance holes and engaging said cutter bars, one of said projections engaging the notches on a cutter bar in one of said guards and the other projection engaging notches in a cutter bar in the other guard, a motor carrying an oscillating arm engaging said driving linkage at a midpoint therein, and spring means in said motor acting against said driving link and urging said cutter bars into intimate shearing engagement with the cutting zones in said outer guards through the medium of the projections of said driving link.

2,314,069
ABRASIVE BLAST
Herbert T. Blount, Los Angeles, Calif., assignor to Mills-Alloys, Inc., Los Angeles, Calif., a corporation of Delaware
Application May 31, 1938, Serial No. 210,916
8 Claims. (Cl. 51—9)



1. A wheel of the character described including an inner ring, an outer ring, and front and back plates joining the rings, said back plate including means by which the wheel may be attached to a rotating support, a plurality of nozzles extending from the space within the inner ring through said rings substantially to the periphery of the wheel, adjacent nozzles diverging in opposite directions from the plane of rotation passing through their inner ends.

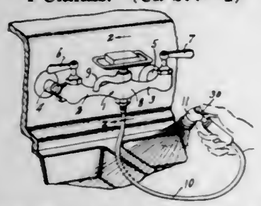
2,314,070
TENSIONING DEVICE
Boris Bogoslowsky, New York, N. Y.
Application December 10, 1940, Serial No. 369,380
8 Claims. (Cl. 242—45)



1. In a strand tensioning device, in combination, strand supply means, strand tensioning

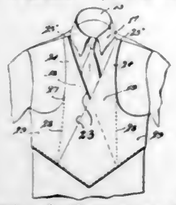
means, and means for maintaining a loose untensioned loop in the strand between said supply means and said tensioning means, said means including rollers engaging said strand to feed the same from said spool, and means controlled by the position of the bight of said untensioned loop for controlling the operation of said rollers.

2,314,071
PRESSURE CONTROL FITTING
Ernest H. Bucknell and Ralph E. Bletcher, Los Angeles, Calif., assignors, by mesne assignments, to Modern Faucet Co., Los Angeles, Calif., a copartnership
Application September 19, 1941, Serial No. 411,544
4 Claims. (Cl. 277—1)



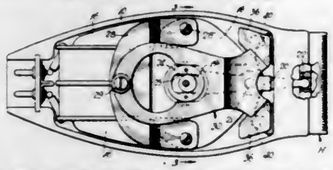
1. A pressure control fitting comprising: a member having a chamber, an inlet and two outlets communicating with said chamber, the first of said outlets being open to the atmosphere and the second of said outlets being valve controlled; a hollow cylindrical carrier in said chamber having its interior in communication with said second outlet; means providing a shoulder in said chamber adjacent the entrance to said first outlet, said shoulder being disposed in spaced confronting relation to the edge of said cylindrical carrier, the space between said shoulder and said edge communicating with said chamber; and a direction control unit mounted in said cylindrical carrier, said unit including a flow directing floating barrier having a flange adapted to alternatively be limited in its movement by engagement with said shoulder or the edge of said cylindrical carrier, said floating barrier also having a central flow passage, and a floating plug member extending through said flow passage and having an enlarged upper portion adapted to be positioned to obstruct flow through said passage and having a differential piston portion at its lower end below said flow passage, said cylindrical carrier having an internal seat forming a stop engageable by said piston portion to limit downward movement of said plug, said piston portion having stop means associated therewith to limit upward movement of said plug to non-flow obstructing position relative to said floating barrier, the effective area of said differential piston being greater than the effective area of said plug, and the effective area of said floating barrier being greater than the effective area of said differential piston, whereby when said second outlet is closed said floating barrier will be engaged with said shoulder by hydraulic pressure in said chamber and said piston will raise said plug to a non-flow obstructing position relative to said flow passage, and when said second outlet is open, hydraulic pressure will engage said floating barrier with said shoulder and said piston will engage said seat and said plug will be moved by said piston into flow obstructing position relative to said flow passage, and finally, when negative hydraulic pressure exists in said chamber, said floating barrier will engage the edge of said cylindrical carrier and said piston will engage said seat with said plug positioned in a non-flow obstructing position relative to said flow passage to prevent siphonic action.

2,314,072
SPORTS SHIRT
Frederick W. Bryant, Montclair, N. J.
Application September 12, 1940, Serial No. 356,548
7 Claims. (Cl. 2—115)



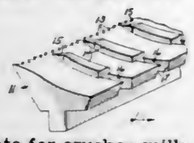
1. A garment of the general character described, comprising an open-front under-body shirt, and an over-front thereon consisting of a lower abdominal body portion having lateral extensions attached to the side portions of the under-body shirt, and divergent upwardly extended strap portions connected to the shoulder portions of the under-body shirt, said overfront being connected to said under-body shirt adjacent its lower edge whereby to form pockets between the under-body shirt and the over-front, the upper edge of the lateral extensions being free from the under-body shirt to form an opening for the pockets.

2,314,073
MOTOR DRIVEN SHAVER
James K. Campbell, New York, N. Y.
Application February 28, 1939, Serial No. 258,894
12 Claims. (Cl. 30—43)



1. In an electric shaver of the type including a casing, a motor therein having a shaft, a reciprocating movable plate and means connecting the latter to the motor, including a lever pivoted with respect to said casing and an eccentric on said shaft for oscillating the lever and reciprocating the plate; the combination therewith of a vibration offsetting lever also pivoted with respect to said casing and coacting with said eccentric for reciprocation of said vibration offsetting lever, the respective pivots of the levers being spaced longitudinally of the casing and at opposite sides of said shaft to cause said elements to move in opposite phase, the moment of inertia of first lever and said plate being so proportioned to that of said vibration offsetting lever as to balance out vibration of the casing during operation.

2,314,074
TURNPLATE FOR CANE SUGAR MILLS
Norberto Capay, Victorias, P. I.; vested in the Alien Property Custodian
Application April 8, 1941, Serial No. 387,517
3 Claims. (Cl. 100—47)



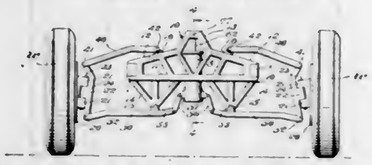
1. In a turn plate for crusher mills, a plurality of parallel ribs formed transversely of the top face of the plate, the front end of each of the said ribs being bevelled at the top and sides to form a tapering point terminating adjacent the leading edge of the plate.

2,314,075
CLINCH NUT AND METHOD OF PRODUCTION
Walter F. Cousino, Toledo, Ohio, assignor of one-half to Albert A. Leclerc, Detroit, Mich.
Original application December 11, 1939, Serial No. 308,598, now Patent No. 2,254,644, dated September 2, 1941. Divided and this application July 24, 1941, Serial No. 403,778
5 Claims. (Cl. 10—86)



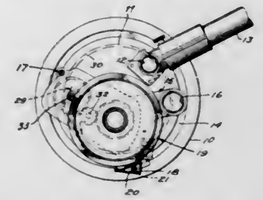
1. The method of reworking a length of stock comprising flattening therealong; by lateral compression at right angles to said flattening, forming two parallel upstanding fins, and interrupting the continuity of said fins by a succession of depressions to leave the fins of arch shape.

2,314,076
VEHICLE SUSPENSION
James E. Casner, Alpine, Tex.
Application November 12, 1941, Serial No. 418,824
12 Claims. (Cl. 267—11)



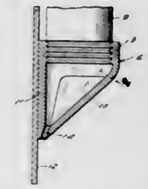
1. In a vehicle comprising a chassis having a pair of wheels at opposite sides thereof, a frame member, a spring suspension and shock absorbing unit mounted by said frame member between the pair of wheels, transverse load carrying arms pivoted intermediate their ends to said frame member, means for connecting the outer ends of said arms in association with said wheels for movement in response to road shock to either of said wheels, and means for pivotally connecting the inner ends of said arms to said spring suspension and shock absorbing unit, said unit comprising a piston, a piston chamber, and spring means for cushioning relative movement of said piston and piston chamber upon road shock from either of the vehicle wheels transmitted to said unit by said load carrying arms, and means associated with said unit for relieving the pressure and vacuum created in the piston chamber incidental to such relative movement of the piston and piston chamber.

2,314,077
MOWER
Richard D. Clemson, Middletown, N. Y., assignor to Clemson Bros., Inc., Middletown, N. Y., a corporation of New York
Original application February 25, 1939, Serial No. 258,362. Divided and this application April 11, 1939, Serial No. 267,227
4 Claims. (Cl. 56—253)



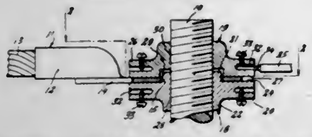
1. A cutter assembly for lawn mowers comprising parallel vertical side frame members, at least one bar rigidly connecting said side frame members, a cutter reel, means mounting the ends of said cutter reel in said frames for rotation, a bed knife, means pivotally mounting the ends of the bed knife in said frames in cutting relation with respect to said reel, means wholly mounted on at least one of said frames for pivotally moving said bed knife to adjust the clearance thereof with respect to the reel, each side frame having a single socket therein adapted to receive a pin connectable to a vertical portion of a lawn mower carriage sub-assembly, said sockets constituting the sole points for connection between the vertical portions of said sub-assembly and the cutter assembly, whereby the latter may be conveniently removed as a unit for repair without disassembly of its components.

2,314,078
WINDOW DRIER
Clyde Crawford, Tarrant City, Ala., assignor of five per cent to Elizabeth Anderton, Birmingham, Ala
Application February 26, 1941, Serial No. 380,733
2 Claims. (Cl. 299—154)



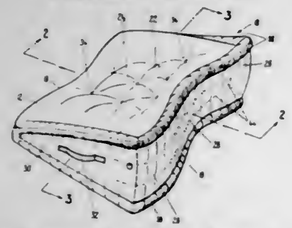
1. In a nozzle of the character described, an integral body and neck, said body embodying integral front, rear and side walls; said side walls converging towards said neck, and said rear wall being relatively flat and straight and matching in width said front wall; said side walls being substantially triangular in shape, with the front wall sloping toward said rear wall, and said front and rear walls at the free edges thereof being slightly spaced apart and said front and rear walls having said free edges beveled, with the beveled surfaces of said walls confronting and providing therebetween an elongated discharge slot inclining substantially in the direction of said rear wall, and substantially triangular deflectors integral at one edge thereof with said front wall.

2,314,079
THREAD PROTECTOR NUTS
Woodford Cox, Harrisburg, Ill.
Application May 2, 1941, Serial No. 391,575
1 Claim. (Cl. 85—32)



A combined thread protector and connector for an elongated threaded terminal element comprising in combination, a pair of nuts engaged upon the threaded terminal element in superposed relation and movable as a unit to varying positions thereon, each nut having opposed flat contact faces, a cylindrical annular boss integral with one nut and projecting axially beyond the flat contact face thereof, the other nut having an annular recess extended inwardly of the flat contact face of the nut, said annular boss being complemental to the recess and of less diameter than the recess so as to provide a free fit whereby said contact faces may be brought into contacting engagement with an interposed terminal connector engaged upon said boss.

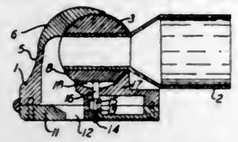
2,314,080
ANATOMICAL SUPPORT
Norman Dine and Allan Bloomberg, New York, N. Y., assignors to Tesse Sieger, New York, N. Y.
Application July 3, 1940, Serial No. 343,814
2 Claims. (Cl. 5—327)



1. A body support of the character described comprising a pad of increasing thickness from the rear to the front whereby the top surface of said pad is upwardly inclined toward the front thereof, said pad having a front wall which is substantially deeper than the rear edge of the pad, the front edge of said top surface having a central concave portion and said front wall having its central portion inwardly curved or concave and defined at its top by said central concave edge portion of said top surface, the top of said pad having a concave depression formed therein, said pad being sufficiently firm to resist substantial change in shape by the weight of the part of the body supported thereby.

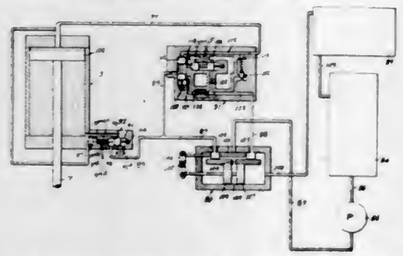
2,314,081
VACUUM CLEANER
Dewey M. Dow and George D. Welles, Toledo, Ohio, assignors to Air-Way Electric Appliance Corporation, Toledo, Ohio, a corporation of Delaware
Application December 2, 1940, Serial No. 368,110
5 Claims. (Cl. 15—157)

1. In a vacuum cleaner, a floor tool, a handle, means forming a pivotal connection between said handle and said floor tool, said means including a cylindrical bearing element formed with a cam thereon, an agitator mounted in said floor tool for vertical movement and having a portion coacting with said element and adapted to be engaged by said cam when the handle is pivoted



with reference to the floor tool, whereby the agitator is moved into cleaning position and means for normally retaining the agitator in a retracted position.

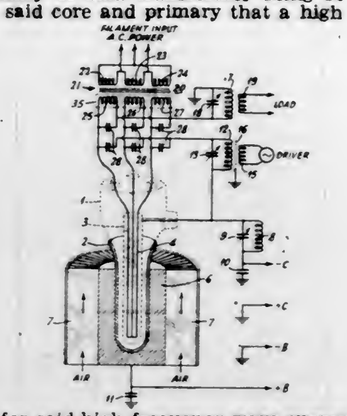
2,314,082
HYDRAULIC PRESS
Howard Field, Jr., Los Angeles, Calif., assignor to North American Aviation Inc., Inglewood, Calif., a corporation of Delaware
Application December 22, 1939, Serial No. 310,546
5 Claims. (Cl. 60—52)



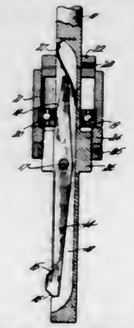
1. In combination with a hydraulic press having a ram cylinder and a piston therein movable from a first end of said cylinder to a second end thereof to close said press, a pump, fluid connections from said pump to said cylinder including a first conduit extending from said first end of said cylinder, and a second conduit extending from said second end of said cylinder, control means for selectively connecting the output of said pump to either one of said conduits and connecting the other conduit to a source of fluid for the intake of said pump, and means responsive to pressure in said one end of said cylinder for throttling the discharge of fluid from said cylinder through said first conduit while said pressure is in excess of a predetermined value, and permitting free discharge through said conduit when said pressure is below said predetermined value.

2,314,083
LOW CAPACITY FILAMENT TRANSFORMER SYSTEM
James L. Finch, Patchogue, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application March 15, 1940, Serial No. 324,035
5 Claims. (Cl. 250—27)

1. A high frequency wave system comprising a thermionic device having a heated cathode, an anode and a grid, a source of high frequency wave energy coupled to said grid and said cathode, said anode being maintained at substantially ground potential for said wave energy, an output circuit coupled to said cathode and said anode and means coupled to said cathode for heating said cathode, said means including a transformer having a primary and secondary and a core, the secondary of said transformer being so spaced from said core and primary that a high impedance for said high frequency wave energy is presented between said cathode and ground.



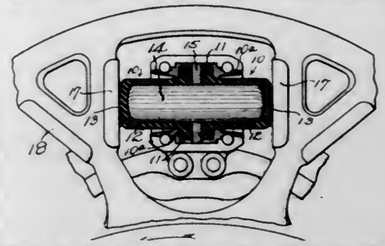
2,314,084
TOOL FOR CHAMFERING, RECESSING, AND THE LIKE
Armin Fried, Los Angeles, Calif.
Application August 6, 1941, Serial No. 405,679
8 Claims. (Cl. 77—73.5)



1. A device of the class described comprising a cylindrical shaft adapted to fit a previously formed hole, there being a longitudinal groove formed in the shaft, a cutter pivotally mounted therein adapted to have its cutting edges completely retracted within the circumference of the shaft or projected therefrom, the upper end of the cutter presenting a cam edge, spring means urging the cutter into retracted position, a collar rotatable and longitudinally movable on the shaft engageable with the cam edge to advance the cutter, and means providing stops on the shaft limiting longitudinal movement of the collar, one of said stops being provided by a pair of jamb nuts threaded onto the shaft.

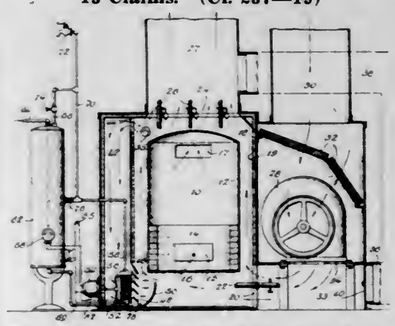
2,314,085
DRIVE UNIT FOR LOCOMOTIVES
Norman E. Gee, Narberth, Pa.
Application May 26, 1941, Serial No. 395,300
6 Claims. (Cl. 64—11)

1. In a drive assembly for electric locomotives, a pair of hollow elastic tension and compression members closed at one end and open at the other, and having annular flanges at the open ends, said open ends disposing in facing relation, a support including a ring whose opposite faces abut the inner faces of the flanges of said members and annular housings including portions abutting the ring and also embracing the side and outer faces of the said flanges thereby to anchor them relative to the plate, and a solid cylindrical core fitted in said elastic



members and passing through said ring, whereby when the closed end of one member is subject to pressure to compress the side walls thereof, the said cylindrical core will press against the closed end of the other member to place the side walls thereof in tension.

2,314,086
HEATING SYSTEM
Harry Giffords, New York, N. Y.
Application August 5, 1938, Serial No. 223,199
13 Claims. (Cl. 237—19)

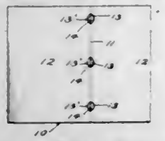


1. In a hot air heating and domestic hot water supply system; the combination with a hot air heating circuit including a heater, a first casing surrounding said heater, a space to be heated, supply and return conduits connecting said first casing to said space and providing for the circulation of heated air from the said casing to the space and back to the casing; of a domestic hot water heating circuit including a second casing, water heating means within said second casing, inlet and outlet means connecting said second casing to said first casing and providing for the circulation of heated air from the first casing to the second casing and back to said first casing, independently of circulation thru said space.

2,314,087
METHOD FOR PRODUCING MAGAZINES
George Heller, Englewood, N. J., assignor of one-half to Henry M. Herbener, Thomasville, Ga.
Application November 10, 1941, Serial No. 418,617
10 Claims. (Cl. 270—37)

1. The method of producing a magazine, comprising effecting the longitudinal travel of a web of paper, printing upon the traveling web a rapidly setting reinforcing coating at intervals spaced longitudinally of the web, allowing the rapidly

setting reinforcing coating to set before printing, then printing the traveling web for producing connected pairs of foldable leaves and arranging the reinforced coated areas of each pair of connected leaves adjacent to the folding line of such



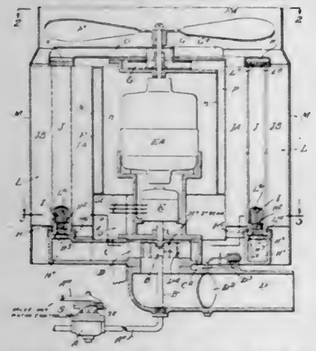
pair of leaves to provide a reinforced coated area, assembling different pairs of connected leaves to produce the magazine and arranging the coated areas in a group, and passing staples through the reinforced coated areas in the group.

2,314,088
MAGAZINE OR THE LIKE
George Heller, Englewood, N. J., assignor of one-half to Henry M. Herbener, Thomasville, Ga.
Original application November 10, 1941, Serial No. 418,617. Divided and this application June 13, 1942, Serial No. 446,925
10 Claims. (Cl. 281—25)



1. A magazine or the like, comprising a pair of back leaves having a folding line and reinforcing coatings at the folding line and spaced longitudinally thereof, pairs of inner leaves having folding lines, each inner leaf having reinforcing coatings at the folding line and spaced longitudinally of the folding line, the coatings of the several leaves overlapping to form groups, and staples connecting the several leaves and passing through the groups of coatings.

2,314,089
AIRCRAFT HEATER
Frederic O. Hess, Germantown, and John W. Townsend, Philadelphia, Pa., assignors to The Selas Company, Philadelphia, Pa., a corporation of Pennsylvania
Application November 15, 1940, Serial No. 365,804
2 Claims. (Cl. 126—110)



1. A compact, light weight airplane heater comprising an air heating space, a combustion chamber, a thin metal wall structure separating said combustion chamber from said air heating space, means for passing air from the enveloping atmosphere into said combustion chamber comprising a fan of the turbo blower type having a rotary impeller with blades extending outwardly from the periphery of a central inlet space, a motor adapted to rotate said impeller at relatively high speeds, means for atomizing gasoline and mixing it with the air passing to the combustion chamber comprising a nozzle receiving the gasoline under pressure and discharging it in the form of a jet stream flowing toward the path of rotation of said impeller against which the gasoline impinges in a substantially unatomized condition.

2,314,090
LEAVENING PREPARATION
Arthur E. Huff, Lemay, Mo., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application July 21, 1939, Serial No. 285,664
7 Claims. (Cl. 99—95)

4. A leavening acid comprising a major proportion of non-porous crystallized anhydrous calcium acid pyrophosphate and a minor proportion of monocalcium orthophosphate intercrystallized therewith, which acid is relatively slowly reactive with sodium bicarbonate in a wet dough mix and having the property of retaining its slow reaction rate after exposure to humid atmospheres.

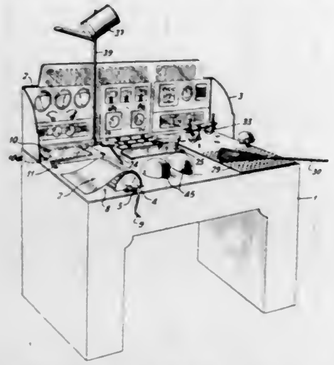
2,314,091
ART OF REGULATING THE GROWTH OF PLANTS
Franklin D. Jones, Upper Darby, Pa., assignor to American Chemical Paint Company, Ambler, Pa., a corporation of Delaware
No Drawing. Application August 4, 1940, Serial No. 351,435
14 Claims. (Cl. 47—58)

1. A composition of matter for regulating or controlling the growth of plants, more than one part in one thousand parts of said composition consisting of a plant hormone, said composition also containing a non-toxic acidifying agent, all the ingredients of said composition being in dry powdered form intimately mixed together, said composition, when mixed with water, having a pH not greater than 4.

2. A composition of matter for regulating or controlling the growth of plants, a relatively minute proportion of said composition consisting of a plant hormone, said composition also containing a non-toxic acidifying agent and a wetting agent, all the ingredients of said composition being in dry powdered form intimately mixed together, said composition, when mixed with water, having a pH not greater than 4.

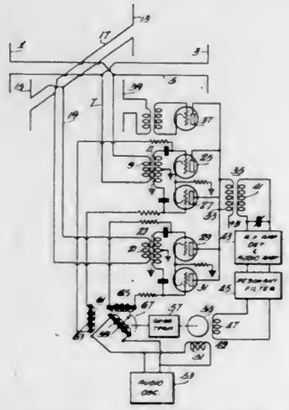
2,314,092
DEVICE FOR SIMULATING CERTAIN SOUND EFFECTS
Norval Ray Kelly, Douglaston, Long Island, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application August 31, 1939, Serial No. 292,768
13 Claims. (Cl. 272—14)

6. Apparatus for amusement and for simulating natural sound effects, comprising a table top, an assembly of noise producing devices mounted on said table top, said devices including those which are capable of simulating the sounds of moving train rumble, stormy wind, rain patter, and the like, means for manipulating each of said devices selectively at will, thereby to produce a succession of different and var-



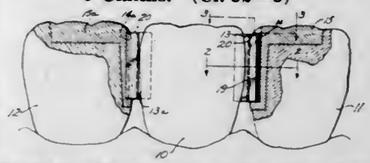
iously combined sounds, all appropriate to an auditory studio program, and means enhancing the appearance of said apparatus as a toy, said means including an ornamented back board supported above said table top.

2,314,093
AUTOMATIC RADIO DIRECTION FINDER
Vernon D. Landon, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application June 28, 1940, Serial No. 342,864
11 Claims. (Cl. 250—11)



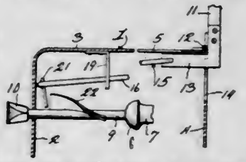
1. An automatic direction finder including a pair of directive antennas, a pair of balanced modulators, means for applying currents induced in said antennas to said respective modulators, a source of modulation current, means for applying said modulation current to said modulators to apply modulation to the antenna currents, a radio receiver connected to said balanced modulators for demodulating the currents thus applied, and means responsive to the demodulated currents for varying the application of said modulation currents to said balanced modulators to equalize the modulation components from said respective pairs of antennas.

2,314,094
DENTAL BRIDGE
Mervyn C. Lasky, Los Angeles, Calif.
Application February 19, 1940, Serial No. 319,705
9 Claims. (Cl. 32—5)



1. Dental bridge means of the class described which includes: a plug member adapted to extend outwardly from the side of an artificial tooth, and having an outwardly-extending shank and an enlarged head thereon; a socket member adapted to be attached to the side of a natural tooth and adapted to receive the enlarged head of said plug member, said socket member having a slot along one side to receive the shank portion of said plug member and a recess in the opposite side, said recess having an enlarged end portion and a stem portion extending in a direction substantially parallel to said slot; and a flat and relatively thin locking member having an enlarged head and a stem portion adapted to fit in said recess and be held against longitudinal movement thereby, and adapted to be held against horizontal movement by said plug member, the stem of said locking member extending beyond said socket and plug members and adapted to be bent over said plug member to hold the latter against movement.

2,314,095
GAS RANGE VALVE CLOSING MEANS
Raymond James Lawrence, Brookfield, Ill.
Application November 12, 1941, Serial No. 418,818
6 Claims. (Cl. 126—42)

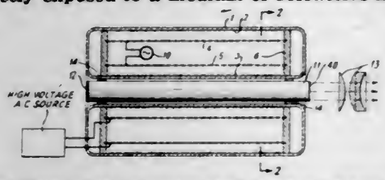


1. In a gas range having a control valve provided with a rotatable stem and a shiftable cover adapted to be positioned over the top of the stove and moved therefrom to an uncovering position; means for turning said stem comprising a spiral fin carried by the stem, an element supported for movement longitudinally of the stem and in position to engage a side of said fin when moved in one direction to impart lateral thrust to the fin for the turning of the stem from valve open to valve closed position, and an operative coupling between said cover and said element for effecting the movement of said element in the said one direction when said cover is moved into covering position.

2,314,096
LUMINESCENT LAMP
Humboldt W. Leverenz, South Orange, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application March 22, 1941, Serial No. 384,630
9 Claims. (Cl. 176—122)

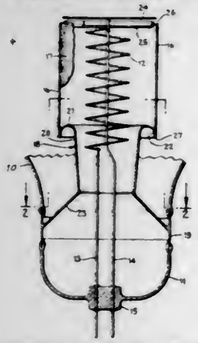
1. A luminescent lamp comprising an envelope, a coating of luminescent material within said envelope, means to excite said coating to develop

luminescent light, and means comprising an elongated transparent member with its surface out of optical contact with said envelope and directly exposed to a medium of refractive index



lower than that of glass and to said coating to collect the developed light and project said collected light axially of said member.

2,314,097
EQUIPOTENTIAL CATHODE
Charles V. Litton, Redwood City, Calif., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application February 6, 1942, Serial No. 429,747
6 Claims. (Cl. 250—27.5)



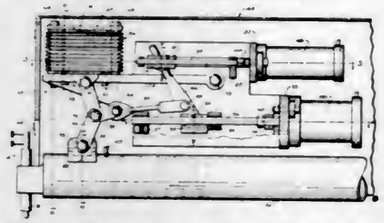
1. A unipotential cathode arrangement comprising a cylindrical unipotential cathode having an outer electron emitting surface, a support for the cathode having a portion of smaller diameter than said cathode and having a portion which flares from said smaller diameter portion to contact with an edge of the cathode, and a heating element located concentrically within the cathode and within the small diameter portion of said support.

2,314,098
METHOD OF MAKING SHOES
Raymond McDonald, Philadelphia, Pa., assignor to Mary C. McDonald, Philadelphia, Pa.
Application April 26, 1941, Serial No. 390,489
1 Claim. (Cl. 12—142)



The method of making a shoe which comprises providing a knitted sock-foot with a sole devoid of seams, inserting in said sock an adhesively coated insole and stretching said sock-sole thereon, applying to said stretched sock-sole an adhesively coated tread, and squeezing said tread and soles together.

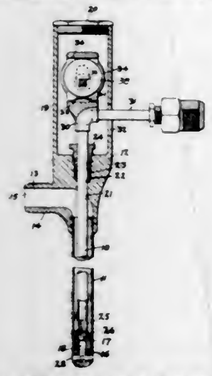
2,314,099
SPOT WELDING MACHINE
George S. Mikhalapov, Village of Hunting Valley, Ohio, assignor to The Baldwin Locomotive Works, a corporation of Pennsylvania
Application May 1, 1941, Serial No. 391,244
10 Claims. (Cl. 219—4)



1. A spot welding machine comprising, in combination, a pair of opposed electrodes, an elongated member for movably supporting one of said electrodes at one end, means for pivotally supporting said elongated member at its other end, power operated toggle mechanism for moving said elongated member into and out of a welding position, and means acting upon said toggle mechanism to impart additional movement to said elongated member away from its welding position.

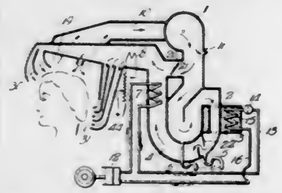
7. A spot welding machine comprising, in combination, a pair of opposed electrodes, mechanism for moving one of the same to and from its operative position with respect to the other electrode, yieldable constant pressure means against which said mechanism reacts when said movable electrode is in its operative position, and means for supporting the yieldable portion of said constant pressure means including an elongated arm one end of which is journalled about a fixed pivot and the other end of which is connected to said constant pressure means and to said means for moving the movable electrode.

2,314,100
APPARATUS FOR DISPENSING BEVERAGES
John Panagopoulos, Youngstown, Ohio
Application November 18, 1940, Serial No. 366,182
2 Claims. (Cl. 225—3)



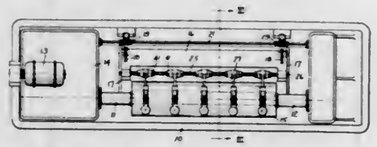
1. A draft appliance for a beverage container comprising in combination a beverage drawing tube adapted to be inserted in said container through the draft tube fitting normally incorporated in a wall of said container, a pair of passages extending longitudinally through said tube substantially co-extensive therewith and interconnected at their lower ends whereby said passages are connected in series for the passage of a cleaning solution therethrough, a lower passage providing communication between the lower end of said pair of passages and the beverage in said container, a valve in control of said lower passage, and means extending through said tube to operate said valve, said means being operable from a position outside of said container.

2,314,101
HAIR DRYING APPARATUS
Charles Albert Phipps, Hartsdale, N. Y.
Application December 10, 1937, Serial No. 179,130
11 Claims. (Cl. 34—77)



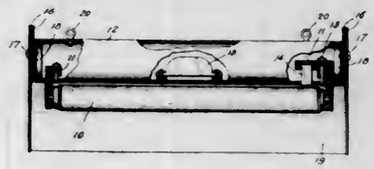
2. A hair drying apparatus of the class described comprising a hood adapted to confine the head, refrigeration means comprising a heat absorbing and a heat discharge means, a blower and a duct connected with the output side of said blower and with said hood; means for passing the air through said duct first in heat exchange relationship with the said heat absorbing means and then with the said heat discharge means; a second duct connected to the hood and to the intake side of said blower for recirculating air; a by-pass connected at one end to said first duct between the blower and said heat absorbing means, and at its other end to the duct between said heat absorbing means and said hood, and damper means in said by-pass for regulating the flow of air in heat exchange relationship with said heat absorbing and said heat discharge means.

2,314,102
APPARATUS FOR SCORING AND CUTTING VENEERS
Russell W. Poole, Edgerton, Ohio
Application June 20, 1940, Serial No. 341,477
4 Claims. (Cl. 144—215)



1. In a veneer lathe, the combination with means for rotating a cylindrical log, a carriage, a peeling knife on said carriage, and means for moving said carriage toward the axis of rotation of said log, of a scoring tool comprising a member rotatably mounting a circular knife adapted to be maintained in contact with the outer periphery of said log and to effect a circumferentially extending incision in said log, means to apply pressure to said member whereby said circular knife will be maintained in pressure contact with said log, a shoe carried by said member and having a portion adjacent said circular knife whereby said knife may project beyond the adjacent outer surface of said shoe, and means to adjust the position of said shoe relative to said circular knife whereby the extent of said projection may be varied.

2,314,103
LIGHTING FIXTURE
Nathan Raizner, New York, N. Y.
Application March 1, 1940, Serial No. 321,627
4 Claims. (Cl. 240—78)



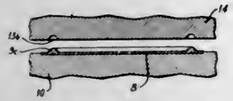
1. A lighting fixture comprising, in combination, a support having an outer convex reflecting surface, said support carrying a light source, a pair of adjustable arcuate-shaped wings pivoted to opposite ends of, and flanking, the support, the inner sides of the wings having concave reflecting surfaces and the inner edges of the concave surfaces pivoting on a radius substantially equal to the radius of the support so that there is substantially no space behind the light source without a reflecting surface for various positions of the wing portions.

2,314,104
SELENIUM RECTIFIER
Edward Arthur Richards and Leslie James Ellison, London, England, assignors to International Standard Electric Corporation, New York, N. Y.
Application February 23, 1940, Serial No. 320,380
In Great Britain March 17, 1939
7 Claims. (Cl. 175—366)



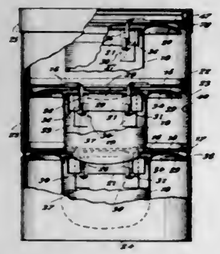
6. A metal rectifier element comprising a base electrode, an active electrode thereon, said active electrode being substantially coextensive with said base electrode, a counter electrode in contact with said active electrode, and means for insulating a portion of said counter electrode from a corresponding and adjacent portion of said active electrode.

2,314,105
METHOD OF MAKING HEADERS
George M. Rose, Jr., East Orange, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application February 28, 1941, Serial No. 381,017
1 Claim. (Cl. 29—148)



The method of making a header for a vacuum envelope, comprising drawing a flat metal disc into a shallow saucer, then reversely drawing the central portion of the formed saucer to leave disc, then swaging the said bead while holding the periphery of the disc against expansion in a circular bead concentric with the edge of the a radial direction.

2,314,106
HAT PACKAGE
Leopold A. Schornstein and Raphael M. Schornstein, Galveston, Tex.
Application November 19, 1940, Serial No. 366,302
5 Claims. (Cl. 206—9)



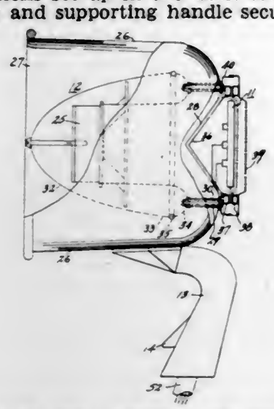
5. A device for packaging hats in a cylindrical container comprising a flat ring having an external diameter to fit snugly within the container in engagement with the cylindrical wall thereof and an internal diameter slightly greater than that of the crown of the hat to be packed, the width of the ring being greater than that of the brim of the hat to be packed, adjustable means supported from the ring to engage the sweat band of a hat, and means to secure the flat ring against axial movement within the container.

2,314,107
CERAMIC INSULATOR
Lawrence Russel Shardlow, North Arlington, N. J., assignor to Radio Corporation of America, a corporation of Delaware
No Drawing. Application December 27, 1939, Serial No. 311,108
7 Claims. (Cl. 106—62)

1. An unvitrified ceramic body of magnesia, silica and alumina intimately admixed and fired into a strong coherent porous mass consisting of by weight 75.4 to 96.5% magnesia, 2.6% to 18% silica and .6% to 8.26% alumina, the magnesia comprising discrete particles bonded by glass containing said alumina and silica.

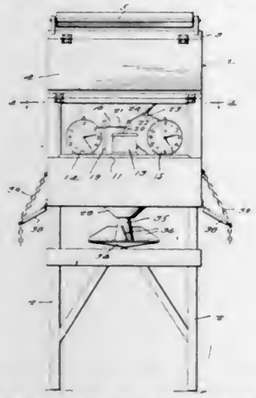
2,314,108
ELECTRIC POWER MEGAPHONE SYSTEM
Ralph Silverman, Pittsburgh, Pa.
Application October 4, 1941, Serial No. 413,620
2 Claims. (Cl. 179—1)

1. A power megaphone comprising a loudspeaker unit consisting of an exponential horn and an operating electro-magnet, the horn being shaped to embody a reflex action return path with the front end of the horn open and the back end of the horn closed with a conical closure; a mounting bracket disposed within the recess of the conical closure on the outside or back side of the horn; a carbon microphone floatingly supported between two rubber angular washers on said mounting bracket to be free of any mechanical vibrations set up in the horn structure; an operating and supporting handle secured to the



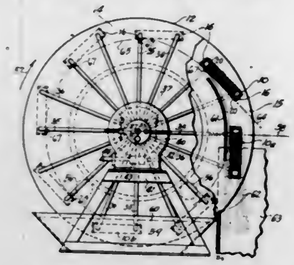
bottom of the horn to permit directional manipulation and support of the horn; and an electric switch in the handle operable at the will of the operator and serving to connect the microphone and the electro-magnet of the horn to an external energizing and amplifying circuit, with the amplifying circuit having such limited constants of amplification as to be below the level of amplification that would produce feed back oscillations through the microphone.

2,314,109
AUTOMATIC POULTRY FEEDER
Leon Smith, Payson, Utah
Application April 24, 1942, Serial No. 440,369
2 Claims. (Cl. 161—10)



1. A poultry feeder of the character described comprising an elevated housing, a substantially conical hopper for the reception of feed, mounted in the housing and having a discharge opening in its lower portion, a centrifugal scatterer rotatably mounted below the hopper for receiving the feed therefrom, means for actuating the scatterer, hingedly mounted baffles suspended from the lower portion of the housing for swinging adjustment in a vertical plane for deflecting the feed from the scatterer downwardly, and chains adjustably connected to said baffles for supporting same in adjusted position.

2,314,110
CONTINUOUS VACUUM FILTER
Frank J. Stampfel, Midvale, Utah
Application May 26, 1939, Serial No. 275,945
6 Claims. (Cl. 210—200)



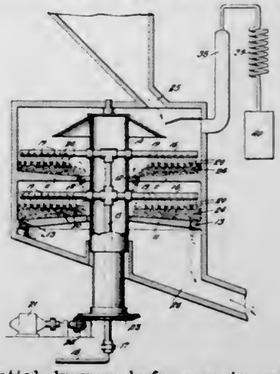
1. A continuous vacuum filter, including in combination, a revolvable structure having an axis of revolution; a plurality of independent, self-contained, substantially rectangular filter units supported by the revolvable structure and spaced apart from one another, substantially edge-to-edge, around the said axis of revolution so that substantially no part of any one filter unit overlaps an adjacent filter unit, the said filter units lying in respective planes which are wholly spaced apart from and extend longitudinally with the said axis of revolution, whereby broad faces of said filter units are directed toward said axis of revolution and extend longitudinally therewith, each of the said filter units comprising a hollow, at least partially walled body having two filter faces opposite to, and closely spaced apart from, each other; suction means operative to draw moisture through the said filter faces during certain angular degrees of revolution; and compressed fluid means operative to discharge filter cake from the filter surfaces during a period of revolution when the filter surfaces are approximately vertical.

2,314,111
COATING MINERAL AGGREGATES
Elton B. Tucker, Highland, Ind., and Henry M. Grubb, Chicago, Ill., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana
No Drawing. Application October 29, 1940, Serial No. 363,348
2 Claims. (Cl. 106—273)

2. A coating material for wet siliceous aggregates comprising a bituminous material and a small amount of wax-benzyl trimethyl ammonium chloride.

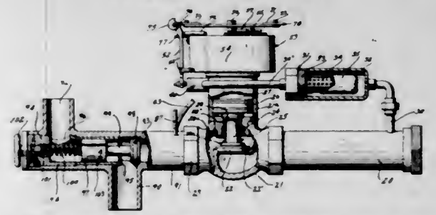
2,314,112
METHOD OF COKING PETROLEUM RESIDUES OR THE LIKE
Malcolm H. Tuttle, New Rochelle, N. Y., assignor to Max B. Miller & Co., Inc., New York, N. Y., a corporation of Delaware
Application May 22, 1941, Serial No. 394,658
11 Claims. (Cl. 202—14)

1. Method of coking tar which comprises maintaining a bed of hot granular material, intermittently rabbling the bed and applying tar thereto, and permitting each application of tar to coke



to substantial dryness before again rabbling the bed.

2,314,113
GAS LIFT OIL WELL PUMP INTERMITTER
Athelstan T. Watson, Cabimas, Estado Zulia, Venezuela
Application December 9, 1940, Serial No. 369,343
4 Claims. (Cl. 161—7)

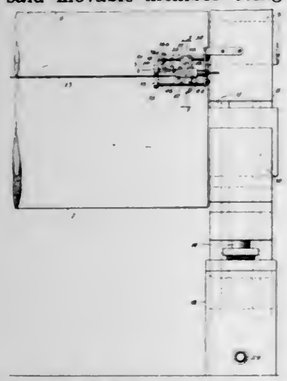


1. In a system of the character described, a horological motor including a driven wheel, having a peripheral cam thereon, a high pressure fluid source, a conduit therefrom, a valve to intermittently open the conduit and to close the same, means to operate the valve including a yieldingly mounted wiper in the path of the cam, said means constructed to open the valve on initial engagement of the cam and wiper, to hold the valve open during such contact, and to close the valve on termination of said contact, said wiper consisting of a member rotatable on an axis normal to a radius of the wheel and having a peripheral surface concentric with its own axis longitudinally to an arc concentric with the axis of the wheel, and constituting the wiping surface against which said cam engages and rides, said surface being varied in length from a radius of initial engagement by the cam at different parts of its circumference, whereby the time of engagement of the cam therewith may be varied by rotative adjustment of the wiper on its own axis, and means to secure the wiper in adjusted positions on its axis.

2,314,114
FABRIC FINISHING MACHINE
George L. White, Wilmington, Del., assignor to Joseph Bancroft & Sons Co., Wilmington, Del., a corporation of Delaware
Application December 3, 1940, Serial No. 368,289
9 Claims. (Cl. 38—52)

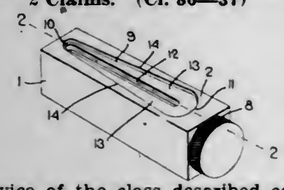
1. In textile finishing machinery, a hard roll and a soft roll between which fabric having transverse seams is passed for finishing, hydraulic ram means for pressing one roll toward the other, valve means controlling said ram means, piston

means for actuating said valve means, valve means controlling said piston means, relay controlled means for actuating said second valve means, a movable member in contact with said fabric displaceable in one direction by engagement with a seam to actuate said relay means and thereby effect sequential actuation of said second mentioned valve means, said piston means and said first mentioned valve means to cause said movable roll to move away from the other roll, and said movable member being displace-
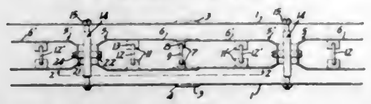


able in the opposite direction upon passage of said seam to actuate said relay means and thereby effect sequential actuation of said second mentioned valve means, said piston means and said first mentioned valve means to cause said movable roll to be pressed toward the other roll, said relay means including a time delay device whereby said last mentioned movement of the movable roll is delayed until the seam has passed beyond the rolls.

2,314,115
IMPLEMENT FOR REMOVING DETONATED PRIMERS
George Norman Albree, Winchester, Mass.
Application December 10, 1941, Serial No. 422,321
2 Claims. (Cl. 86—37)



1. A device of the class described comprising an elongated body member provided with an interior receiving chamber which is closed at the bottom and the sides and at one end but which is open at the other end, the upper face of said body having a shallow case-receiving recess which has a progressively increasing width from one end to the other, said body member being provided with a slot in its upper side which extends longitudinally of the recess centrally thereof and which communicates with said receiving chamber, and a removable plug for closing the open end of said chamber, said plug having at its inner end a recess formed with a portion of larger diameter to receive the end of the body of a rod-like primer-ejecting implement and a portion of smaller diameter to receive the reduced primer-engaging tip of said implement, said plug when in position not only closing the open end of the chamber but being adapted to support a primer-ejecting implement when it is stored in said chamber.

2,314,116
WALL FORM
William R. Bagot, Alameda, Calif.
Application June 17, 1940, Serial No. 340,941
12 Claims. (Cl. 25—131)



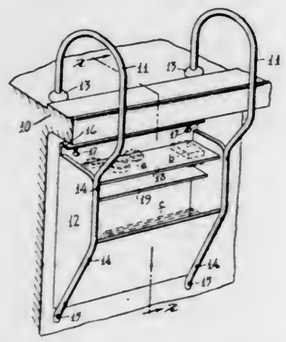
1. A wall form including a pair of vertically disposed walls of sheet material in spaced opposed relation and a pair of vertically disposed tubular members between said walls spaced therefrom and spaced from each other to provide for concrete between said members and between said walls and said members, vertically spaced means releasably securing said walls and members so spaced from each other, each of said members being vertically separated into a pair of sections each of substantially U-shape in horizontal cross-section, the said sections of each member having their adjacent marginal portions in overlapping relation, means releasably securing each pair of sections together and means carried by each member at said overlapping portions of the sections thereof and spaced from the opposed ends of said sections within each of said members releasably supporting the opposed sides of each section against movement inwardly toward each other, the respective sections of each pair being formed from a single sheet of metal.

2,314,117
SHIELDED ROTARY TOOTHBRUSH
Dwight S. Beckner, Rushville, Ind.
Application January 27, 1941, Serial No. 376,108
2 Claims. (Cl. 15—23)



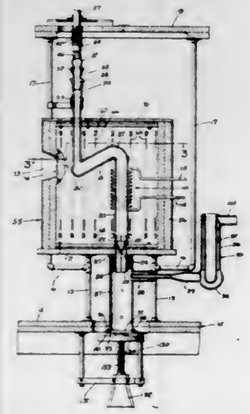
2. The combination with a head and a driving shaft carried thereby, of a brush; a resilient shaft carrying the brush; means interengaging the brush shaft with said driving shaft; a brush shield; said brush being free to be yieldingly shiftable laterally in respect to said shield; means carried by said head to support said shield in close proximity to and along one side of said brush; said shield carrying means comprising a resilient shaft, whereby both the shield and the brush may be laterally shifted one in respect to the other and also collectively in respect to the axis of rotation of said driving shaft; and means carried by said shield for holding dentifrice to be distributed by said brush whereby shifting of the brush and shield one in respect to the other will effect the removal of the dentifrice from said holding means.

2,314,118
COMBINED SERVICE STALL AND SERVICE CABINET
Edward J. Bisson, St. Paul, Minn., assignor to Harry L. Millberg, Minneapolis, Minn.
Application May 15, 1941, Serial No. 393,561
1 Claim. (Cl. 312—140.4)



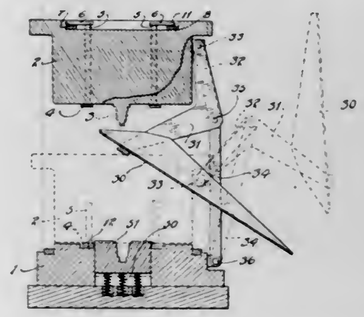
The combination with a cabinet, of laterally spaced handle bars secured to the front side portions of said cabinet with their upper portions extended above said cabinet and turned backward and downward for engagement with the face of a counter with the upper bowed portions of said handle bars spanning the ledge of the counter with said cabinet below and under said ledge, and in which said cabinet is formed with the upper portion of its back plate turned outward and provided with clamping screws adapted to engage the under surface of the projecting ledge of the counter and hold the downturned counter-engaging ends of said bars engaged with the top of the counter back of said ledge.

2,314,119
CHEMICAL TREATMENT APPARATUS
Lester F. Borchardt, Minneapolis, Minn., assignor to General Mills, Inc., Minneapolis, Minn., a corporation of Delaware
Application February 11, 1939, Serial No. 255,931
2 Claims. (Cl. 204—311)



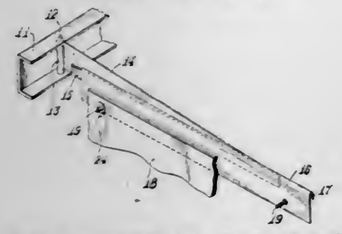
1. In an apparatus for treating ergosterol or other activatible material to impart the antirachitic property thereto of the type comprising a substantially Z-shaped tube having two vertical legs and having an upwardly extending transverse portion connecting the two legs, the portion of the tube adjacent the junction of the first leg with the upwardly extending transverse portion constituting a vaporizing zone, and the second leg of the tube having a treating zone, means for maintaining a vacuum in the tube, means for feeding down the first leg the material to be vaporized and means for treating the vapor in the said treating zone of the said second leg to alter its chemical characteristics; the improvement which comprises a unitary heating chamber surrounding the said first vertical leg and the said second vertical leg, heating elements positioned in spaced relation about the inner surface of the wall of the said chamber and about the said first and second vertical legs, and the said heating elements grouped more closely about the said first vertical leg than about the said second vertical leg and the said wall of the said heating chamber being spaced further from the said second vertical leg than from the said first vertical leg whereby the vaporization of the said material fed down the said first leg may be initiated and the said vaporized material may be retained in vaporized condition while in the said treating zone of the said second leg at a temperature below that of the vapor initiating temperature in the said first leg so as to permit the ready condensation of the said vaporized material upon passage from the said treating zone of the said second leg for the collection thereof.

2,314,120
PRESS UNLOADER
Frederick W. Braun, Dearborn, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application February 13, 1940, Serial No. 318,778
3 Claims. (Cl. 113—50)



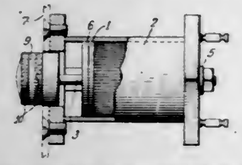
1. In a press comprising a lower stationary die and an upper die member movable downwardly toward and upwardly away from the lower die, an unloader for removing the work from the press in the form of a platform, a pair of substantially vertical normally disaligned links pivotally connected to each other and to the said upper and lower die members, said platform being rigidly fixed to said upper link whereby as the upper die moves upwardly from the lower die the links straighten and move the platform into work receiving position between the dies and as the upper die moves downwardly the links jackknife and withdraw the platform from between the dies.

2,314,121
FILING EQUIPMENT
Daniel A. Brennan, deceased, late of Chicago, Ill., by Elmer L. Zwickel, executor, Chicago, Ill., assignor to Acco Products, Inc., Long Island City, N. Y., a corporation of New York
Original application November 20, 1940, Serial No. 366,448. Divided and this application September 18, 1941, Serial No. 411,344
3 Claims. (Cl. 129—4)



1. A clamp comprising a sheet of resiliently flexible material having a transversely bowed portion midway between its ends, said bowed portion having an aperture, and a tongue extending into said aperture from one end portion of said sheet, said tongue lying in the plane of said end portions.

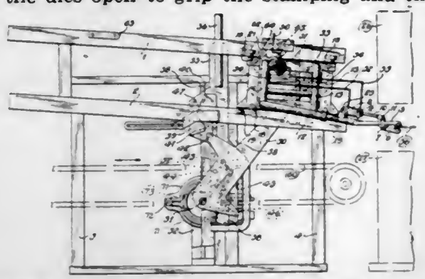
2,314,122
INDICATING RELAY ASSEMBLY
William A. Bruno, Astoria, Long Island, N. Y., assignor to Bruno Patents Inc., Long Island City, N. Y.
Application November 14, 1941, Serial No. 419,163
2 Claims. (Cl. 177—329)



1. In an indicating electromagnetic relay assembly, a front member provided with an opening, an indicating element having a uniform cross-section along its longitudinal axis and fitting snugly in said opening of the front member, means for displaying a portion of said indicating element in a projecting position through said opening, and means for withdrawing the same, an annular luminous sign being provided on the portion of the indicating member which is capable of being projected through said opening, and capable of being concealed by said means.

2,314,123
PRESS UNLOADER
Kenneth Carlyle Butterfield, Grand Rapids, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application May 17, 1940, Serial No. 335,690
6 Claims. (Cl. 113—50)

1. In a press for stamping sheet material having relatively movable die members which upon closing stamp the sheet material and upon opening release the same, the combination of a reciprocable carriage, gripping means mounted on the carriage for gripping the stamping, a driving arm for said carriage pivotally mounted on a fixed pivot, a connection between the free end of the arm and the carriage, and a cam plate adapted to be connected to the movable die member and arranged to reciprocate with the same acting upon the pivoted arm whereby the carriage moves the gripping means into the press as the dies open to grip the stamping and then



retracts the gripping means and stamping from the press as the dies continue their opening movement.

2,314,124
ASPHALT AND METHOD FOR PRODUCING SAME
Donald E. Carr and Harold W. Ritchey, Los Angeles, Calif., assignors to Union Oil Company of California, Los Angeles, Calif., a corporation of California
No Drawing. Application June 16, 1939, Serial No. 279,490
13 Claims. (Cl. 106—278)

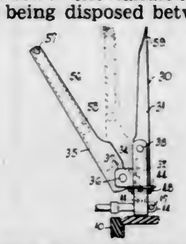
1. A relatively non-photosensitive asphalt comprising a mixture of a relatively photosensitive asphalt and an organic aliphatic inhibitor of photo-oxidation characterized by a long hydrocarbon chain terminating in an oxygenated group, said relatively photosensitive asphalt being characterized by forming a rust when a 0.025 inch layer of said asphalt is exposed to the light of a 1500 watt lamp at a distance of about 6 inches from the lamp for a period greater than approximately 8 hours and less than approximately 32 hours and subsequently immersed in a bath of water at approximately 140° F.

2,314,125
PHARMACEUTICAL COMPOSITION
Arthur F. Coca, Oradell, N. J., assignor to Lederle Laboratories, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application September 25, 1940, Serial No. 358,293
4 Claims. (Cl. 167—58)

1. A pharmaceutical composition comprising an aqueous alcoholic solution of a cadmium salt and a wetting agent, said composition having fungicidal, fungistatic, and deodorizing properties.

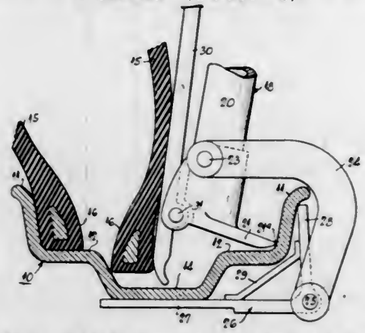
2,314,126
BATTERY TOOL
George F. Colley, Winston-Salem, N. C., assignor of two-thirds to Nat S. Poindexter, Winston-Salem, N. C.
Application June 17, 1941, Serial No. 398,426
1 Claim. (Cl. 29—85)

A battery tool for separating a conduit collar from a terminal post of a battery, comprising an elongated rod-like handle, a pair of members loosely and pivotally secured at their upper ends to the lower portion of the handle for swinging movement towards and away from each other and having their lower ends extending inwardly towards each other for hooking beneath the collar, a loose plate having perforations therein for slidably receiving said handle and said pair of members whereby the plate can be slid downwardly on the pair of members to hold their hooked lower ends beneath the collar, a ring surrounding the handle and having oppositely directed pins, a hole in each of said pair of members for receiving each pin, said handle and ring being so constructed as to prevent rotation of the ring and likewise side motion of said members, a plunger slidably mounted in the handle and having a rack thereon and being disposed between said pair of



members, a second handle having its lower end pivoted to the first handle and having a segment on its lower end for engaging said rack, whereby when the plate is slid downwardly on the pair of members and the free end of the pivoted handle is moved toward the first handle, the slidable plunger having the rack thereon will move downwardly relative to the pair of hooked members to press against the top of the terminal post to lift the collar therefrom.

2,314,127
TIRE TOOL
George F. Colley and Nathaniel S. Poindexter, Winston-Salem, N. C.
Application March 21, 1942, Serial No. 435,618
2 Claims. (Cl. 157—6)



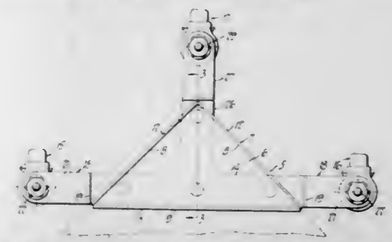
1. A tire tool for removing pneumatic casings from rims having radially disposed flanges against which the beads of a casing are adapted to fit, comprising a base member having a portion adapted to fit against the central portion of the rim, and also having a laterally projecting leg adapted to fit against the exterior of a radially disposed flange, a substantially L-shaped link having one of its ends pivoted to the base member and having its free end adapted to travel over the radially disposed flange, a lever pivoted intermediate its ends to the free end of the L-shaped link and having a laterally projecting tongue adapted to pass between the radially disposed flange of the rim and the bead on the casing, a second lever pivoted intermediate its ends to the tongue end of the first-named lever and adapted to lie flush against the tongue of the first-named lever when the tongue is inserted between the flange of the rim and the bead of the casing, so that after the first-named lever has been swung on its pivot to move the bead away from the rim flange, the second lever can be swung on its pivot to move the bead further away from the rim flange.

2,314,128
SPARK PLUG AND METHOD OF MAKING THE SAME
John S. Coldwell, Milwaukee, Wis., assignor to Globe-Union Inc., Milwaukee, Wis., a corporation of Delaware
Application April 1, 1940, Serial No. 327,146
13 Claims. (Cl. 123—169)



1. A spark plug of the character described comprising a metallic shell, an insulating body, means for holding the shell and body assembled and effecting a hermetic seal between these parts, and cooperating electrodes carried by the body and shell and having flat, parallel, closely confronting side faces defining a plurality of spark gaps.

2,314,129
CASTER TRUCK
William E. Daley, Alameda, Calif.
Application February 6, 1940, Serial No. 317,540
3 Claims. (Cl. 280—61)

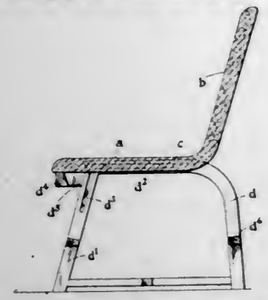


1. A truck of the character described comprising, a body having a supporting surface of triangular form provided with upwardly extending side walls at two sides and a downwardly extending wall at the other side, said body being open at said latter side, an arm extending from said body at the juncture of said first sides, arms extending laterally in substantially opposed directions from said body adjacent the open side thereof, and casters carried by each of said arms positioned to support said body in spaced relation to the surface upon which the casters may be resting.

2,314,130
CHAIR
Peter James Davis, Streatham, London, England
Application February 24, 1940, Serial No. 320,698
In Great Britain February 22, 1939
13 Claims. (Cl. 155—88)

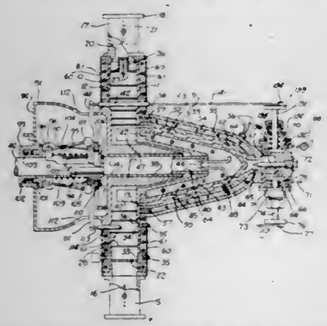
1. A chair comprising a combined seat back unit, the two parts of which are disposed in angular relationship to one another, a supporting frame for said unit, and pivotal means for carrying said unit in said frame such that the unit may be rotated in said frame to give two alternative heights of the seating surface above the ground, the said frame also being adapted to be

supported by different sides on the ground surface for the alternative seat positions whereby the supporting points on the ground surface in



both seating positions may lie approximately vertically below the forward and rearward extremities of the seat back unit.

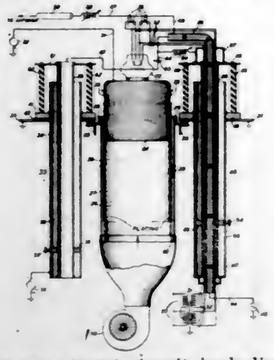
2,314,131
GAS GENERATOR
Lászlo de Csaby, Tulsequah Township, British Columbia, Canada
Application November 9, 1939, Serial No. 303,679
21 Claims. (Cl. 261—12)



1. A gas generator, comprising a casing, a drum rotatably mounted in the casing, a vaporizing chamber formed between the drum and the casing, said chamber having a discharge outlet, means for rotating the drum, means for moving the drum back and forth in the chamber to regulate the size of the vaporizing chamber in relation to the speed of rotation of said drum, and means for supplying fuel and air to the chamber wherein said fuel is vaporized.

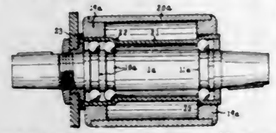
2,314,132
HIGH FREQUENCY AMPLIFIER
William H. Doherty, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 21, 1941, Serial No. 399,114
8 Claims. (Cl. 179—171)

1. A high frequency amplifier comprising a vacuum tube having an anode, a cathode, and a control grid, a by-pass condenser for high frequencies connecting said anode to ground, a coaxial line section comprising at least three coaxial conductors, an adjustable high frequency tuning reactance connected between said cathode and ground, said reactance being constituted by at least two conductors of said line section, means for adjusting the effective length and reactance of said two conductors, and a signal input circuit connected between said control grid



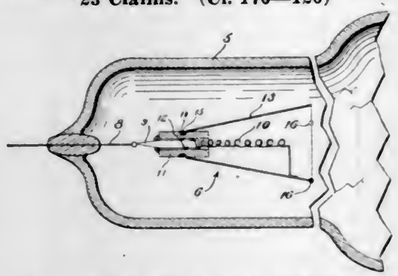
and ground, said input circuit including another coaxial conductor of said line section.

2,314,133
CRANKSHAFT MOUNTING
Thomas I. Duffy, Detroit, Mich., assignor to Delray Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application January 2, 1941, Serial No. 372,733
5 Claims. (Cl. 308—179.5)



1. In a crank shaft mounting, the combination with a crank shaft having each of its end portions grooved to form a ball race, a set of balls engaging in each such ball race, a sleeve fitted over said sets of balls and providing outer races therefor, and formed with spaced annular shoulders disposed between and engaging the two sets of balls, and means for supporting said sleeve and fixing it relative to the shaft.

2,314,134
GASEOUS DISCHARGE DEVICE
Hrant Eknayan, Weehawken, N. J., assignor to Colonial Lighting Co. Inc., North Bergen, N. J., a corporation of New Jersey
Application January 8, 1942, Serial No. 425,975
23 Claims. (Cl. 176—126)

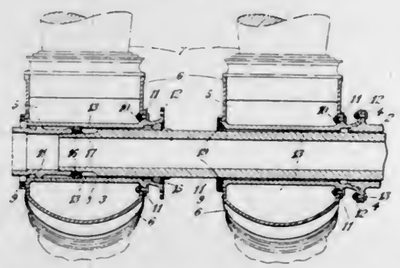


1. An electrode device for a gaseous discharge device of the positive column type, said electrode device comprising an electrode member comprising a plurality of electrode elements, one a filament composed of a high-melting-point and high-resistivity metal coated with emissive material, and another a shell surrounding at least a part of said filament but separated therefrom, electrical leading-in means for said electrode member, means to connect said filament with said leading-in means, and means to connect said filament with said shell, said shell being electrically unconnected with said leading-in means except through said filament.

2,314,135
PROCESS OF AND COMPOSITION FOR WATERPROOFING PERMEABLE MATERIALS
Constantine F. Fabian, Brookfield, and James B. Lee, Danbury, Conn., assignors to Lee Bros. Hats, Inc., Danbury, Conn., a corporation of Connecticut
No Drawing. Application October 11, 1939, Serial No. 298,976
12 Claims. (Cl. 106—268)

7. A liquid waterproofing composition containing a gel formed from a hydrocarbon vehicle and an aluminum salt of a fatty acid of high molecular weight of the group derived from fats and oils, said gel being dispersed by and said composition containing an organic peptizing agent, the latter containing the bivalent carbonyl radical (>C:O), and being further characterized by the absence of the hydroxyl group.

2,314,136
AIRSCREW
Leonard Gaskell Fairhurst, Gloucester, England, assignor to Rotol Airscrews Limited, Gloucester, England, a company of Great Britain
Application January 28, 1942, Serial No. 428,613
In Great Britain December 19, 1940
2 Claims. (Cl. 170—135.5)

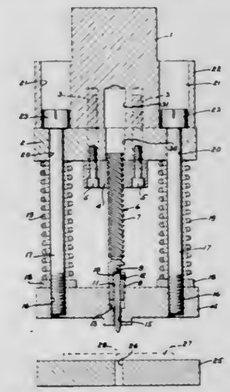


1. A coaxial airscrew installation comprising two coaxial nested shafts of which the outer shaft is formed with a radial flange at its front end and the inner shaft projects beyond the front end of the outer shaft and is formed with splines on its front end and two airscrews which have identical hubs each hub having a splined through-way to engage the splines on the inner shaft and means for securing it to the flange on the outer shaft, and of which airscrews one has its hub secured to the flange of the outer shaft and located rearwardly of the splined portion of the inner shaft and the other has its hub secured on the splined portion of the inner shaft.

2,314,137
DIESEL FUEL
Everett W. Fuller and Edwin M. Nygaard, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application October 30, 1940, Serial No. 363,493
14 Claims. (Cl. 44—57)

1. An improved Diesel fuel having in admixture therewith from about 0.1 per cent to about 5 per cent of an organic hydroxylamine, consisting only of carbon, hydrogen, oxygen and nitrogen, in an amount sufficient to improve the ignition quality of the fuel.

2,314,138
THREAD TAPPING APPARATUS
Rudolph H. Garbe, Forest Park, and Frank S. Wesley, Downers Grove, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application October 18, 1941, Serial No. 415,596
11 Claims. (Cl. 10—129)



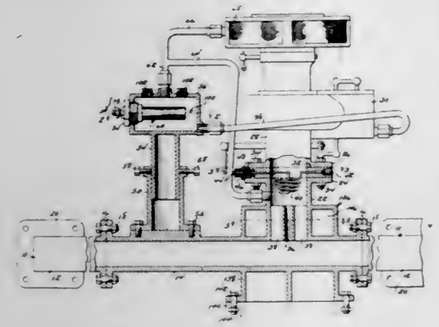
11. An apparatus for driving a rotating tool comprising a reciprocating member, a rotatable member driven by said reciprocating member, a tool carried by said rotatable member, a member for controlling the advancing movement of said tool, and yielding means for normally holding said tool controlling member in a predetermined position relative to said reciprocating member for restoring the tool to normal inactive position.

2,314,139
AXMINSTER LOOM TUBE FRAME
Spencer S. Garrity, Amsterdam, N. Y., assignor to Bigelow-Sanford Carpet Co., Inc., Thompsonville, Conn., a corporation of Massachusetts
Application April 7, 1939, Serial No. 266,561
7 Claims. (Cl. 242—118)



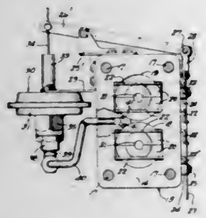
2. A variable length yarn spool for use in Axminster looms consisting of a plurality of barrel sections arranged successively in endwise abutment with each other to form a continuous barrel of uniform external diameter, a spool head secured to each end of the barrel, a sleeve for each joint formed at the abutting ends of the sections, each of said sleeves being received within the barrel and extending over its respective joint, and solder bonding the sleeves to the barrel sections, whereby to secure the barrel sections together to form a long spool or selectively to permit removal of one or more sections, upon melting the solder, to form a shortened spool.

2,314,140
ENGINE FUEL VAPORIZER
Joseph Graziano, Newburgh, N. Y., assignor of one-twentieth to Louis Madrazo, Flushing, and one-twentieth to Jack Russo, White Plains, N. Y.
Application July 21, 1941, Serial No. 403,453
4 Claims. (Cl. 123—122)



1. In an internal combustion engine having an intake manifold, a carburetor and a fuel conduit leading from the carburetor to the intake manifold, a vaporizing chamber connected with the carburetor to secure liquid fuel therefrom, conduit means leading from said vaporizing chamber to said conduit above and below said carburetor, a heating unit located inside said vaporizing chamber, and an electric circuit connected with said heating unit.

2,314,141
VACUUM CONTROLLING DEVICE FOR CARBURETORS
Andrew C. Gutenberg and Rodger L. Brower, Milwaukee, Wis.
Application April 4, 1941, Serial No. 386,870
2 Claims. (Cl. 137—153)

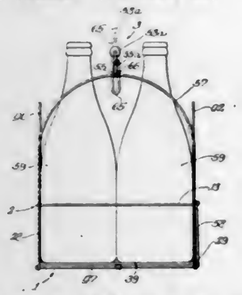


1. A fuel flow control device for an internal combustion engine having a fuel flow duct, comprising a pair of complementary, hingedly mounted shutters variably controlling the opening through said duct, said shutters having an opening therein to provide a minimum fuel flow orifice, oscillatory crank members for jointly moving said shutters, a vacuum device having a flexible diaphragm therein, an engine connection extending to the vacuum device for operating it, said vacuum device having a reciprocal element connected to the diaphragm, and means for transmitting motion from said reciprocal element to the crank members.

2,314,142
CATALYTIC HYDROGENATION
Stanley C. Haney, Chicago, Ill., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine
No Drawing. Application March 10, 1939, Serial No. 260,913
6 Claims. (Cl. 196—43)

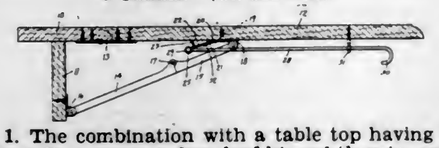
1. In the catalytic hydrogenation of unsaturated hydrocarbons wherein a heated mixture of hydrogen and unsaturated hydrocarbons initially containing free oxygen is passed in contact with a nickel catalyst, the improvement which comprises subjecting the heated mixture at a temperature approximating that employed in effecting the hydrogenation to the action of preformed finely divided copper deposited on a substantially inert supporting material prior to its contact with the nickel catalyst.

2,314,143
CARRIER
John C. Hendricks, Jr., Richard L. Snideman, and Donald P. Wheeler, Elkhart, Ind.
Application February 19, 1940, Serial No. 319,660
1 Claim. (Cl. 224—45)



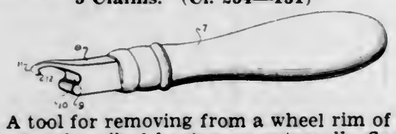
In a bottle carrier, a floor element rectangular in plan, corner posts fixed to and extending upward from said floor element, end frames secured to and extending upward from the upper ends of said posts, a carrying member secured to the upper ends of said frames centrally thereof overlying said floor element at the transverse center thereof, said floor element being of a length and a width to receive bottles supported thereon arranged in two rows at opposite sides of said carrying member, handle means comprising a substantially U-shaped bail and a handle thereon, said bail having arms in the form of elongated loops slidable on said carrying member for relative vertical movement and movable downward sufficiently to dispose said handle below the tops of the bottles, and means secured to said carrying member supplementary to and cooperating with said arms for holding said bail against turning movement about said carrying member.

2,314,144
BREAK DEVICE FOR HINGE SUPPORTS
Chester C. Hicks, Indianapolis, Ind.
Application September 22, 1941, Serial No. 411,782
3 Claims. (Cl. 311—64)



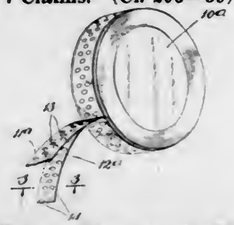
1. The combination with a table top having a depending apron, a drop leaf hinged thereto, and a brace comprising a lower arm hinged at one end to said apron and an upper arm hinged at one end to the underside of said leaf, said arms being hingedly connected at their upper and lower ends respectively adapted to support said leaf in its elevated position when brought into alignment with each other and to permit said leaf to be lowered when their hinged connection is broken outwardly, of a break device for the hinged connection of said brace including a pull strap having a finger hold adjacent the free edge of said leaf operable to be manually pulled outwardly into hinge breaking position, means for slidably supporting said strap on the underside of said leaf, and an actuating member operably connected with said pull strap arranged to extend downwardly from the underside of said leaf and having a free end for engagement with the upper edge of the upper brace arm adapted to depress said arm for breaking the hinge outwardly and downwardly upon said pull strap being pulled outwardly.

2,314,145
REMOVING TOOL FOR BALANCE WEIGHTS
Harry J. Kalajian, Detroit, Mich., assignor to Harley C. Loney Company, Detroit, Mich., a corporation of Michigan
Application December 5, 1940, Serial No. 368,603
5 Claims. (Cl. 254—131)



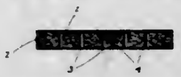
2. A tool for removing from a wheel rim of the character described having an outwardly flaring flange thereon, a spring clip balance weight assembly clipped over the flange, which comprises a body having a concave surface for receiving the edge of the rim flange and balance weight spring clip disposed thereover, said body having a heel for bearing against a portion of the balance weight assembly on the outside of the rim, said heel being adjacent one end of said concave surface, said body also having a nose, said nose being adjacent the other end of said concave surface and having a portion engageable with a shoulder on the portion of the spring clip at the inside of said rim flange and under a tire thereon, said nose portion extending toward said rim flange in substantially normal relation thereto, whereby said balance weight assembly may be rocked by said body about said rim flange and the spring clip removed from said rim flange.

2,314,146
CELLULOSIC RIBBON SPOOL AND THE METHOD OF CONSTRUCTING THE SAME
Morris Katz, Bronx, N. Y.
Application May 18, 1939, Serial No. 274,314
7 Claims. (Cl. 206—59)



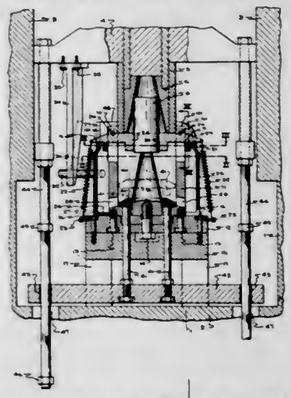
1. In a cellulosic ribbon spool of the character described, means for spacing the ribbon wound on said spool, said spacing means comprising an elongated strip of material wider than the ribbon and adapted to be arranged between successive windings of said ribbon, said strip completely enclosing the inner windings of said ribbon by extension of side edges of the strip beyond side edges of the ribbon, and said strip having absorbent properties and having incorporated therein a saturant adapted, by contact with the ribbon, to maintain said ribbon in a soft and pliable condition.

2,314,147
CIGARETTE
Ira B. Langdon, Stockton, Calif.
Application September 7, 1940, Serial No. 355,801
1 Claim. (Cl. 131—8)



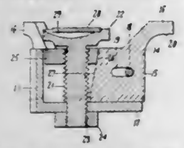
In a cigarette which comprises a tubular and elongated paper sleeve, and a cylindrical elongated body of compacted tobacco about which said sleeve snugly engages from end to end; said sleeve having a plurality of circular orifices punctured therethrough in spaced relation longitudinally of the sleeve and extending along substantially the full length thereof, and the body having a corresponding number of separate and substantially diametral air supply passages formed therein in non-communicating relation to each other, said passages at one end terminating adjacent but short of the exterior surface of the body, and at the other end extending to said surface, registering in communicating relation with corresponding orifices.

2,314,148
PRESS FIXTURE
Alidor Lefere, Jackson, Mich., assignor to Lefere Forge & Machine Company, Jackson, Mich., a corporation of Michigan
Application April 1, 1940, Serial No. 327,114
11 Claims. (Cl. 78—10)



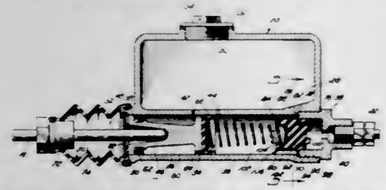
11. The combination with a two part die including a bottom part and a top part, of a circumscribing frame about said bottom part, fingers pivoted to said frame and circumferentially spaced thereabout, said fingers extending inwardly toward the longitudinal axis of said bottom part for maintaining a work piece in a predetermined relation to said bottom part, and means movable with said top part to pivot said fingers into inoperative position.

2,314,149
AUTOMATIC CENTER ADJUSTER
Robert U. Lipscomb and William G. Reid, El Paso, Tex.
Application January 12, 1942, Serial No. 426,474
9 Claims. (Cl. 33—174)



1. A centering tool comprising an inner body member, a plurality of radially movable fingers projecting outwardly therefrom, means for moving said fingers, an outer body member removably surrounding the inner body member, and a plurality of radially movable arms carried by and extending outwardly from the outer body member, said arms being moved by said fingers.

2,314,150
FLUID PRESSURE SYSTEM
Erwin F. Loweke, Detroit, Mich., assignor to Hydraulic Brake Company, Detroit, Mich., a corporation of California
Application August 16, 1940, Serial No. 352,974
In Canada October 10, 1939
6 Claims. (Cl. 60—54.6)



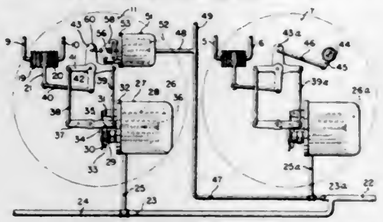
1. A fluid pressure producing device comprising a cylinder, a plug on the head of the cylinder having a discharge port therethrough, a shell supported between the plug and cylinder, a piston movable in the cylinder for creating pressure, a floating piston reciprocable in the shell and plug, means in the floating piston for the passage of fluid in one direction, means in the floating piston for by-passing fluid in the other direction, and a spring interposed between the pistons.

2,314,151
TWISTING MACHINE
Paul M. Macklin, Tuckahoe, N. Y., assignor, by mesne assignments, to American Isteg Steel Corporation, a corporation of New York
Application January 14, 1939, Serial No. 250,880
2 Claims. (Cl. 153—2)



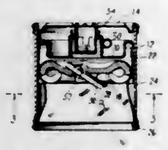
1. In apparatus for making twisted bars semi-continuously from a plurality of sources of rod stock, the combination of a first stationary hollow clamping head, a second stationary hollow clamping head spaced from said first head and aligned therewith, a rotatable hollow clamping head disposed between said two stationary heads and in alignment therewith, tubular guide members disposed between said respective stationary heads and the rotatable head, a plurality of feed mechanisms aligned with said clamping heads for feeding a plurality of adjacent lengths of rod stock from said sources through said first stationary head, the rotatable head and tubular guiding members to said second stationary head, a plurality of straightening mechanisms aligned with said clamping heads and feeding mechanisms for straightening said lengths of rod stock during the feeding thereof, both said feeding mechanisms and straightening mechanisms being located in advance of said stationary and rotatable clamping heads and in close proximity to one of said stationary clamping heads, and variable speed power means for operating both said feed mechanisms at the same speed, whereby portions of said lengths of rod stock may be clamped by said two stationary heads and rotatable head and twisted together, which twisted portions may be cut off to provide twisted bars.

2,314,152
CONTROL INSTRUMENT
Robert L. Mallory, Houston, Tex., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania
Application March 30, 1940, Serial No. 326,923
9 Claims. (Cl. 137—153)



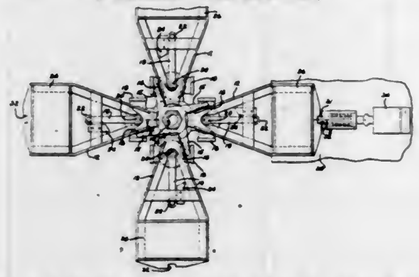
1. In a control instrument, a measuring element, a control means operated thereby, control point adjusting means for said control means to adjust the value at which said instrument will maintain a condition and a pneumatic unit to adjust said control point adjusting means comprising a pressure responsive member operated independently of the control means, levers operated thereby and means to change the response of said levers for a given movement of said pressure responsive member.

2,314,153
SELECTIVE VOICE FOR TOYS
Samuel Marcus, South Orange, N. J., assignor to Voices, Inc., Bayonne, N. J., a corporation of New York
Application December 13, 1941, Serial No. 422,811
21 Claims. (Cl. 46—187)



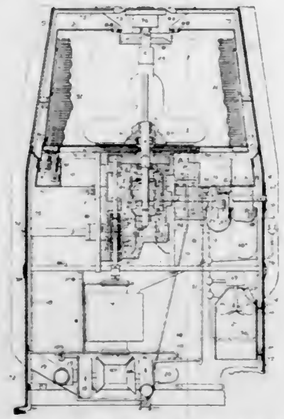
1. A selective voice for a toy, said voice comprising a gravity-operated bellows, a reed responsive to operation of the bellows, a gravity-operated main valve having parts relatively moved as the bellows moves in order to so modulate the sound produced by the reed as to simulatedly articulate syllables, and a gravity-operated selector valve arranged to additionally modify the flow of air in the voice in such a manner as to change the sound produced when the bellows and main valve are operated, the axis of operation of the selector valve being approximately perpendicular to the axis of operation of the bellows and main valve, and therefore being independent of the operation of the bellows and main valve.

2,314,154
WORK FEEDING APPARATUS
Clarence E. McCoy, Western Springs, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application October 10, 1940, Serial No. 360,560
6 Claims. (Cl. 198—19)



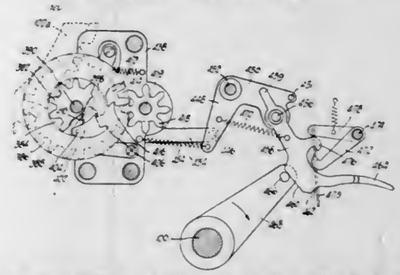
6. In a work feeding apparatus, a continuously rotating shaft, a work carrier rotatable on said shaft, stop means limiting the movement of the carrier in the direction of rotation of the shaft, yieldable means for urging said carrier against said stop means, retractable stop means for temporarily interrupting the movement of said carrier at predetermined intervals, and means for controlling the speed at which said carrier is advanced to its normal position against the first mentioned stop means under the force of said yieldable means.

2,314,155
LAUNDRY MACHINE
Lorin D. McCleary, Indianapolis, Ind.
Application April 8, 1941, Serial No. 387,475
11 Claims. (Cl. 68—23)



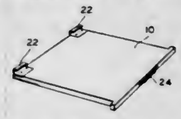
1. In a laundry machine, a tub for containing liquid and articles to be laundered, said tub having a sub-chamber disposed near its wall, a strainer partition spaced from and fixed to the inner side of its wall, a partition provided between the said tub and the said sub-chamber, permitting liquid to pass through from the tub to the sub-chamber but retaining the articles in the tub, said tub being rotatably mounted on a vertical axis, an agitating element provided within said tub, means for heating air and for driving the heated air into said tub, a motor, mechanism interposed between the said tub and the said motor for actuating the said agitating element, and for revolving the tub.

2,314,156
CONSECUTIVE NUMBERING MECHANISM FOR CALCULATING MACHINES
Ernst Vilhelm Nyberg, Stockholm, Sweden, assignor, by mesne assignments, to Ekonomiregister Inc., New York, N. Y., a corporation of New York
Application September 25, 1937, Serial No. 165,775
In Germany September 28, 1936
1 Claim. (Cl. 235—60)



In a machine of the class described, having actuators and a counter, said counter having wheels all on the same shaft and interspersed between said actuators, which actuators are also on a single shaft, each counter having a stop projecting therefrom, a separate gear on said counter shaft meshing with each said actuator, an outwardly projecting spring pressed stop projecting from each gear into the path of the associated counter wheel stop, operating means for actuating said actuators and thereby said gears to rotate said gear stop against the stop on the associated counter wheel to set said actuators at the amount standing on said counter wheels.

2,314,157
BREAD AND WORK BOARD AND SINK CONSTRUCTION
Vincent R. O'Brien, St. Paul, Minn.
Application February 14, 1941, Serial No. 378,888
3 Claims. (Cl. 4—187)

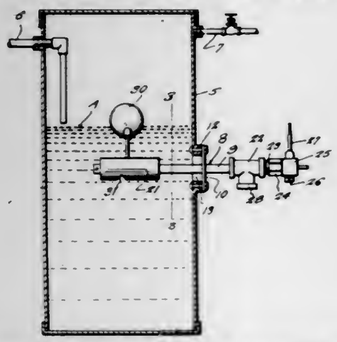


1. In combination with the horizontal top portions of a sink, an elongated slot formed in said top along the back thereof, a board adapted to extend through the slot, means to hold the board suspended vertically from margins of the slot, said means permitting the board to be brought out of the slot and swung to a horizontal position to be supported by said top portions, and cooperating means on the board and secured to said top part to prevent the board from being displaced away from the slot.

2,314,158
CONTROL VALVE
Albert G. Peters, Powell, Wyo., assignor of one-third to Patrick Ernest Leimback and one-third to Byrne J. Manley, both of Powell, Wyo.
Application March 10, 1942, Serial No. 434,111
1 Claim. (Cl. 137—68)

In a liquid level control, a receptacle for liquids, a liquid discharge conduit extending horizontally out of said receptacle and embodying an outer discharge end and an enlarged cylinder at

its inner end opening thereinto, said cylinder having a bottom inlet opening, a cylindrical sleeve rotatable about said cylinder and having an opening therein for movement into and out of registration with said inlet opening under rotation of the sleeve in opposite directions, respectively, float operated means for rotating the sleeve, an indicator at the discharge end of the conduit, an indicator operating rod extending through said



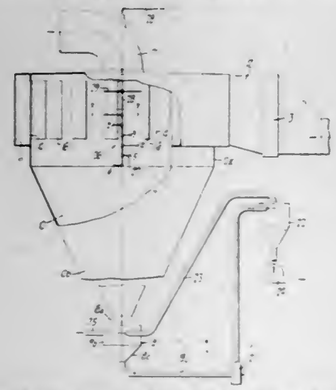
conduit and cylinder and having an end fixed to one end of the sleeve whereby rotation of the sleeve imparts rotation to the rod, and a partition in said cylinder between the inlet opening and said one end of the sleeve and having a packing gland therein through which the rod extends whereby liquid is prevented from leaking out of said cylinder between the same and said sleeve.

2,314,159

SPRAY DRYING APPARATUS AND METHOD

David D. Peebles, Berkeley, Calif., assignor to Golden State Company, Ltd., San Francisco, Calif., a corporation of Delaware

Application August 2, 1940, Serial No. 349,419
9 Claims. (Cl. 159—4)



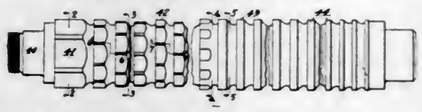
7. In a drying method the steps of continuously supplying drying gas to the outer periphery of a drying space, causing the gas in said space to have cyclonic movement about the central axis of the space with progression of gas inwardly toward said axis, introducing atomized particles of material to be dried into said space at a plurality of axially spaced regions also spaced a substantial distance from said axis, causing the particles to be dried to solid form in said space, exhausting gas from said space and removing substantially dried divided material from said space.

2,314,160

ROUGHING BROACH

Wilrose J. Phaneuf, Hudson, Mass., assignor to The Lapointe Machine Tool Company, Hudson, Mass., a corporation of Maine

Application April 28, 1941, Serial No. 390,845
3 Claims. (Cl. 29—95.1)



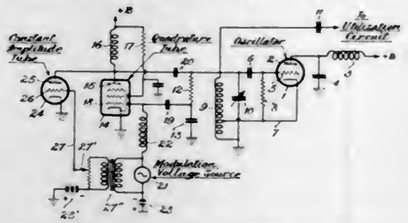
1. A roughing broach comprising a cutting portion having a plurality of cutting units with teeth in axial alignment and a second plurality of cutting units alternating with the units of said first plurality and with teeth axially aligned in said second plurality but offset one-half tooth space from the teeth of the units in said first plurality, said cutting units being disposed in axially successive groups in each of which groups the units are of uniform outside diameter and of substantially greater outside diameter than the units of the next preceding group, the teeth of the first cutting unit in each group being relatively narrow and the teeth of the succeeding units in said group increasing progressively in width.

2,314,161

FREQUENCY MODULATED WAVE GENERATOR

John A. Rankin, Port Washington, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application November 19, 1940, Serial No. 366,229
5 Claims. (Cl. 179—171.5)



5. In a wave length modulation system, an oscillation generator including a tube having a discharge path and electrodes associated with a tuned tank circuit which determines in part, at least the frequency of the oscillations generated, a reactance tube having an anode, a cathode and a control grid electrode, means for impressing oscillating voltages from said tank circuit on the anode of said reactance tube, means for impressing voltages from said tank circuit on said control electrode of said reactance tube, said impressed voltages being displaced substantially 90 degrees, whereby a reactive effect is produced in said reactance tube, means coupling the anode and cathode of said reactance tube in shunt to said tank circuit to supplement the reactance thereof by the reactance of said reactance tube, a source of modulating potentials coupled to said control grid for modulating the potential on said control grid electrode of said reactance tube to thereby modulate its gain and modulate the supplemental reactance supplied to said tank circuit to wave length modulate the generated oscillations, and means for compensating for amplitude modulation produced during said wave length modulation including a discharge path, in series with said first discharge path, a control electrode in said second path, and connections from said source of modulating potentials to said last control electrode for applying thereto modulating potentials of a phase substantially the same as the phase of the modulating potentials applied to the control electrode of said reactance tube.

2,314,162

FLOOR COVERING AND METHOD OF MANUFACTURE

Henry A. Reinhardt, Longmeadow, Mass., assignor to Bigelow-Sanford Carpet Co., Inc., Thompsonville, Conn., a corporation of Massachusetts

Application May 22, 1940, Serial No. 336,600
4 Claims. (Cl. 117—65)



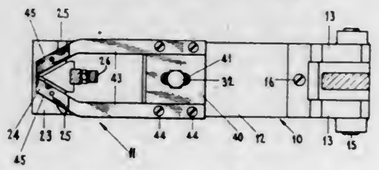
3. The method of producing a needled fabric adapted for use as a floor covering underlay which comprises needling a bat of cellulose fibers to a loosely woven backing fabric, advancing continuously the needled fabric thus produced and, during such continuous advancing, coating one surface with a frothed, aqueous mixture containing paraffin as a chief ingredient, indenting in selected areas the last-named surface of said fabric, leaving unindented portions between the indented portions, while simultaneously lubricating said surface by heating the paraffin and permeating the indented portions with said paraffin, said indented portions being so closely adjacent to one another as to afford support to the adjacent intermediate unindented portions and to restrain the latter from spreading under the pressure applied to them in the use of the needled fabric when the paraffin has solidified, and then drying and cooling the fabric to solidify the paraffin and stiffen the indented portions.

2,314,163

LUBRICATING ATTACHMENT

Max Rosenberg and Joseph Weissblatt, New York, N. Y.

Application June 23, 1941, Serial No. 399,391
5 Claims. (Cl. 112—256)



1. In a pinking attachment having a base and V-shaped cutting members one of which is vertically reciprocable, a lubricating attachment adapted to be mounted on said base and having arms extending therefrom in the direction of said reciprocable cutting member, said arms having their free end portions positioned in V-shaped form and terminating in separate and independent pockets on opposite sides of said reciprocable cutting member, blocks of felted fiber mounted in forced engagement in said pockets and extending outwardly from said pockets sufficiently to form a V-shaped opening between them defined by two felt surfaces, the said felt surfaces contacting along a common vertical plane, and means for adjusting said lubricating attachment lengthwise of said pinking attachment base to repeatedly bring the walls of said V-shaped felted opening into engagement with the outer surfaces of said reciprocable cutting member whereby the cutting edges of said reciprocable cutting members are lubricated.

2,314,164

GARMENT CURING METHOD

Nishan S. Sarkisian, Mishawaka, Ind., assignor to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind., a corporation of Indiana

Application January 22, 1941, Serial No. 375,371
2 Claims. (Cl. 18—53)



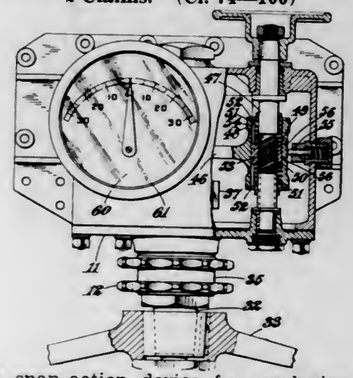
1. In the making of a vulcanized raincoat or the like, the steps of assembling the raincoat of unvulcanized vulcanizable material, applying the upper part of the raincoat on a form having only neck, shoulder, chest and back portions shaped to correspond respectively to the neck, shoulder, chest and back portions of the human body and of dimensions corresponding to a desired size of raincoat leaving the remainder of the raincoat free of the form, pressing the upper portions of the raincoat against the form to conform said portions to the form, suspending the form with the raincoat thereon in a vulcanizer, and vulcanizing the raincoat.

2,314,165

STEERING GEAR FOR VEHICLES

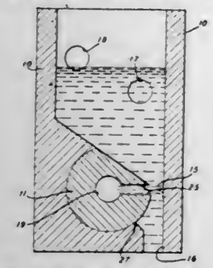
Hubert Scott-Paine and Derrick Reginald Thomas, Hythe, England; said Thomas assignor to said Scott-Paine

Application February 7, 1941, Serial No. 377,822
In Great Britain December 14, 1939
2 Claims. (Cl. 74—100)



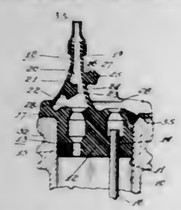
1. A snap-action device for producing rapid straight line shifting between two positions comprising an actuator, said actuator having a hollow boss provided with a shoulder at each end, a threaded nut non-rotatably mounted in said boss and axially slidable therein, compression springs within said boss and between each of its shoulders and said nut, a rotatable shaft extending through said boss and having a threaded portion engaging the threads of said nut, means for rotating said shaft, and a spring-loaded detent adapted to hold said boss in one or the other of its two positions until a predetermined load has been imposed on one or the other of said compression springs.

2,314,166
MIXING APPARATUS
John N. Selvig, Westfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application July 29, 1941, Serial No. 404,528
8 Claims. (Cl. 137—78)



1. Apparatus for mixing fluids and comprising means to contain a body of one fluid and having an effluent outlet sufficiently below the top of such body of contained fluid to create a head in the fluid tending to cause the same to flow out through the outlet, means to project another fluid across the entrance of the outlet to interfere with flow of the first named fluid to and through the outlet, and means to adjustably vary the direction of projection of the second named fluid to vary the effectiveness of the projected second named fluid to interfere with the flow of the first named fluid.

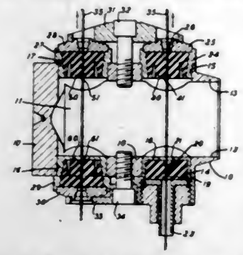
2,314,167
PARENTERAL INJECTION DEVICE
John E. B. Shaw, Chicago, Ill.
Application August 26, 1942, Serial No. 456,454
2 Claims. (Cl. 215—37)



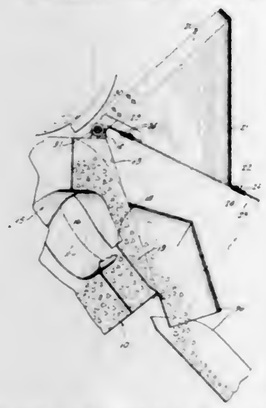
2. A stopper for a parenteral injection container having a plug portion adapted to fit within the neck of said container by friction grip, said plug portion having a pair of spaced openings therethrough, said stopper having an upper portion extending above said plug portion, said upper portion having a pair of spaced knobs, said upper portion adapted to be moved diagonally downwardly so that said knobs engage within and seal said openings, said upper portion also adapted to be moved diagonally upwardly so that said knobs are removed from said openings, said upper portion in upstanding position having a passage therein communicating with one of said openings, said upper portion having a mouth adapted to receive a tubing connected to an injection needle.

2,314,168
STRAND HANDLING APPARATUS
Charles C. Smith, Cranford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application July 31, 1941, Serial No. 404,892
4 Claims. (Cl. 91—53)

1. A strand wiping die of elastically deformable material having a bore therethrough and formed with a recess having a free surface running in the same general direction as the bore to provide room for dilation of the bore upon the passing therethrough of a swollen portion of the strand.



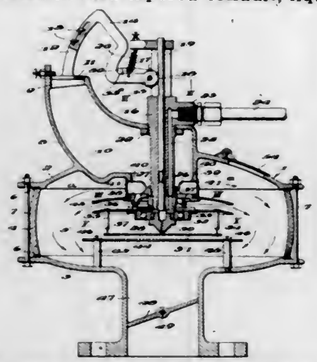
2,314,169
CONCRETE MIXER
Harold E. Smith, Milwaukee, Wis., assignor to The T. L. Smith Company, Milwaukee, Wis., a corporation of Wisconsin
Application April 18, 1941, Serial No. 389,145
6 Claims. (Cl. 259—161)



1. A concrete mixer of the character described comprising a rotary mixing drum having one end closed and having a common charging and discharging opening at its opposite end, a plurality of flanged combined mixing, feeding, and discharging blades carried by and spiraling around the inner peripheral wall of the drum, the flanges of said blades being cut away adjacent to but inwardly of said opening and the webs thereof merging into the margin of the opening whereby the blades coact with the opening to define feed channels and a supplementary axial feed opening in open communication with each other and in unobstructed communication with said common charging and discharging opening, and means for feeding material directly and simultaneously into said feed channels and said supplementary axial feed opening.

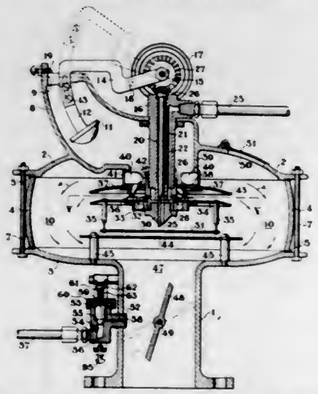
2,314,170
CARBURETOR
Charles R. Snyder, Miami Beach, Fla.
Application October 17, 1939, Serial No. 299,899
6 Claims. (Cl. 261—89)

1. A carburetor comprising a casing having a mixing and vaporizing chamber, a conduit formed with said casing, said conduit having a relatively restricted air inlet and tapered side walls which progressively increase in diameter inwardly toward said chamber, nozzles located at the air discharging end of said conduit, a rotor revolubly mounted in said casing having air impingement vanes disposed immediately contiguous to the outlets of said nozzles and adapted for engagement with air streams discharged at high velocity from said nozzles to effect the rotation of said rotor, an air controlled shutter of constant diameter movably mounted in said tapered conduit, liquid fuel



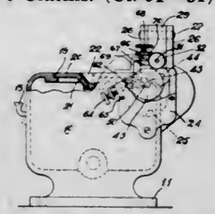
supplying means having a movable control valve, a fuel disseminating element bodily rotatable with said rotor, and means actuated by the movement of said shutter to cause said fuel valve to produce a variable and regulated delivery of liquid fuel to said disseminating element in quantities directly proportional to the volumes of air entering said mixing chamber throughout all stages of carburetor operation.

2,314,171
ACCELERATING CONTROL FOR CARBURETORS
Charles R. Snyder, Miami Beach, Fla.
Application September 6, 1940, Serial No. 355,655
5 Claims. (Cl. 261—34)



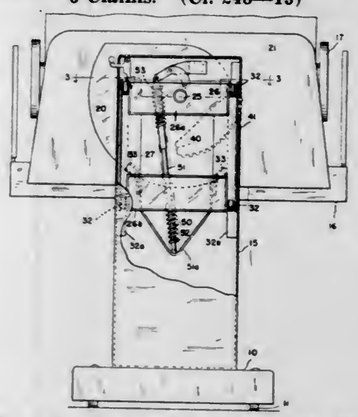
1. In mechanism for introducing supplemental quantities of fuel to a carburetor during periods of engine acceleration, a line leading from a source of fuel and communicating with the interior of the carburetor, a normally closed control valve in said line, means for actuating said valve, said means having a motion transmitting member, a bracket, a fluid-receiving cylinder mounted for sliding movement in said bracket, resilient means for yieldably resisting movement of said cylinder in one direction relative to said bracket to cause said member to open said valve, said cylinder being moved by said resilient means to effect the closing of said valve, a piston having a passage extending therethrough mounted for longitudinal movement in said cylinder, said piston having a valve seat formed thereon, a piston rod connected to said piston, said connection permitting limited relative movement between said rod and piston, a valve carried by said piston rod and normally engaging said seat to prevent fluid flow through the passage in said piston, and motion transmitting means connecting said piston rod and the throttle valve of said carburetor, movement of said throttle toward an open position serving to move said cylinder in opposition to said resilient means, movement of said throttle in the opposite direction serving to move the valve on the piston rod away from the seat on said piston.

2,314,172
CEMENTING MACHINE
Alexander Soltan, Port Jervis, N. Y., assignor of one-half to Percy W. Valentine, Brooklyn, N. Y.
Application December 20, 1940, Serial No. 371,013
9 Claims. (Cl. 91—51)



1. In a sealing machine for applying a deposit of fluid material upon the surface of a workpiece at one edge thereof, a pair of feed rollers for feeding a workpiece through the machine, an applicator wheel adjacent said feed rollers for applying a fluid to the surface of the workpiece adjacent the feed rollers and the edge of said workpiece, one of the feed rollers being wider than the other, said wider feed roller extending over the entire transverse peripheral surface of said applicator wheel in spaced relation thereto, the other feed roller having a roughened surface, and side surfaces of the last named roller and applicator wheel overlapping.

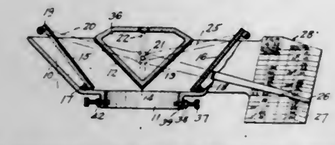
2,314,173
IRONING MACHINE SUPPORT
Herman A. Sperlich, Detroit, Mich.
Application November 29, 1940, Serial No. 367,736
6 Claims. (Cl. 248—13)



1. In an ironing machine support, a plate vertically arranged and secured to said machine, a

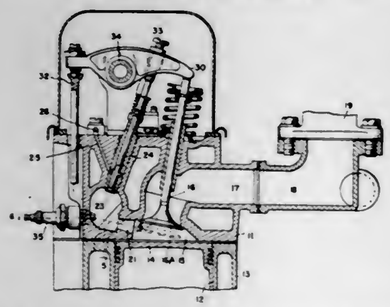
shaft fixed to said plate, a frame member, a carriage vertically movable therein and in which said shaft is rotatably mounted, a vertically arranged rack on said frame, a gear segment fixed to said plate and arranged to mesh with said rack, and counterpoise means biased to cause rotation of said plate about said shaft as a center.

2,314,174
UNIVERSAL STEREO ATTACHMENT FOR PROJECTORS AND CAMERAS
David B. Steinman, New York, N. Y.
Application December 14, 1940, Serial No. 370,106
3 Claims. (Cl. 88—16.6)



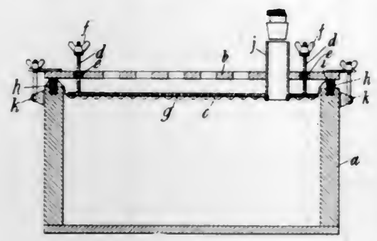
1. A universal stereo attachment usable with different optical instruments having different ratios of the focal lengths of the lenses thereof to the total widths of the twin stereo pictures associated therewith, said attachment comprising a casing having a rear opening and a pair of spaced front openings, two pairs of reflectors, each pair being arranged between one of the front openings and the rear opening, one reflector of each pair being pivoted at its rear end to the casing, a lever pivoted to the front end of each movable reflector, a common movable pivot for the inner adjacent ends of the levers, said casing having a slot into which said pivot is inserted, means for clamping the pivot at any selected point of said slot to clamp the movable reflectors in any selected adjusted position thereof, an extension on one of the levers and a series of graduations carried by the casing and indicating the correct positions of said extension for such adjustments of the movable reflectors as corerspond to the ratios hereinbefore mentioned.

2,314,175
INTERNAL COMBUSTION ENGINE
Caleb E. Summers, Orchard Lake, Mich.
Application July 24, 1940, Serial No. 347,254
7 Claims. (Cl. 123—191)



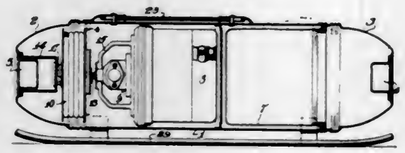
1. In an internal combustion engine, a primary combustion chamber having ignition means therein, and a secondary combustion chamber into which the ignited gases from the primary chamber discharge, the discharge passages being venturi shaped and being directed toward the most distant surfaces of said secondary chamber.

2,314,176
APPARATUS FOR PRODUCING POROUS OR SPONGY ARTICLES OF RUBBER OR RUBBERLIKE MATERIALS
Joseph Anton Talalay, Boston, Mass.
Application July 1, 1941, Serial No. 400,654
In Great Britain February 19, 1940
10 Claims. (Cl. 18—39)



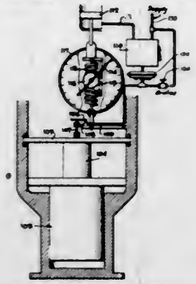
7. An apparatus for making porous or spongy articles of rubber or rubber-like material, from a froth of such materials, comprising a container impermeable to the froth and having side walls, a bottom wall, and a top wall, at least one of said walls having a body portion freely movable relatively to the others, and being formed of flexible gas-permeable material, the edges of said flexible material being securely sealed to the adjacent walls of the container, and the seal being maintained during movement of the body of such wall, and means cooperating with the latter for stretching and holding said body in a plane.

2,314,177
ELECTRIC VACUUM CLEANER
Bernard J. Tamarin, Philadelphia, Pa.
Application February 1, 1941, Serial No. 376,968
4 Claims. (Cl. 15—16)



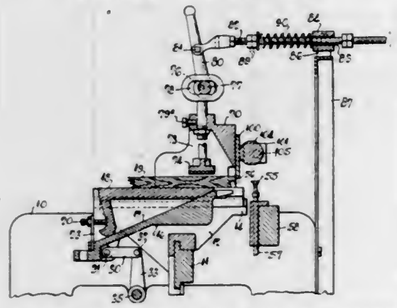
1. In combination with a vacuum cleaner casing having an elongated formation and provided with an open end portion in which is axially mounted a cleaner fan driving motor including a housing therefor exposed through said open end portion: a cap for closing said open end portion and consisting of a hollow body having an end wall and terminating with a rim conforming to the configuration of said open end portion of the casing for engagement therewith; exhaust port means formed in the end wall of said body for the operation of the cleaner; a bracket mounted within the hollow body and secured thereto to extend for a distance away from said port means; a stub shaft having one of its ends fixed onto said bracket and the other of its ends extended on a plane axially of said body and casing; a reel rotatably carried on said shaft; an electric cord wound about said reel; and a member mounted on the extended end of said shaft and having means associated with said cord and means connectable to said motor to establish an electrical connection therebetween.

2,314,178
LOAD WEIGHING SYSTEM
Malcolm C. Tate, Stamford, Conn., assignor to The Baldwin Locomotive Works, a corporation of Pennsylvania
Application February 5, 1940, Serial No. 317,285
7 Claims. (Cl. 265—27)



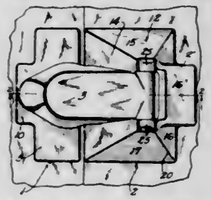
1. A measuring system comprising, in combination, a mechanical flexible beam rigidly supported at one end and adapted to flexibly resist movement, a servo-motor, extensible means connecting said servo-motor to said beam, means for controlling said servo-motor so as to maintain a balanced relation between the force of said servo-motor and the resistance of said beam, said control means including an air jet and baffle one of which is movable with said beam and the other being movable in response to a change in a condition to be measured and the air jet pressure being operative to control said servo-motor, and mechanism controlled by the operation of said servo-motor in response to the change in condition to be measured.

2,314,179
WOODWORKING MACHINE
Monroe M. Teague, Lenoir, N. C.
Application July 30, 1941, Serial No. 404,709
3 Claims. (Cl. 144—278)



1. A machine clamp including a framework, a table for supporting a workpiece, means slidably mounting the table in the framework, said table being movable towards and away from an operative position, and means for automatically clamping the workpiece on the table as it moves towards the operative position and for releasing it as the table moves away from the operative position, the clamping means including a vertically movable clamping member slidably mounted with respect to the table, an eccentric member pivoted with respect to the table and having connection with the vertically slidable member for operating the same, a lever on said eccentric member, a link carried by said lever and being slidably mounted in a portion of the framework, a spring on said link for normally holding the vertically movable clamping member in raised position and serving to retard bodily movement of said lever as said table is moved to operative position to oscillate said eccentric and to thereby lower and resiliently press the vertically movable clamping member into engagement with the workpiece as the table is so moved forwardly.

2,314,180
HASP
Berthold Thiele, Milwaukee, Wis., assignor to E. R. Wagner Manufacturing Company, Milwaukee, Wis., a corporation of Wisconsin
Application July 15, 1940, Serial No. 345,555
4 Claims. (Cl. 292—209)

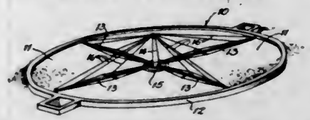


2. A hasp of the character described comprising a stamped sheet metal housing having a top and a depending marginal flange, said top having an opening therein, a hasp plate overlying said opening pivotally interconnected to the housing and spring-biased to latching or released position, attaching prongs integral with the marginal flange of the housing at the rear thereof, and an attaching prong struck from the top of the housing and extending downwardly through the opening thereof.

2,314,181
BITUMINOUS MATERIAL
Hans F. Winterkorn, Columbia, Mo., assignor to The Quaker Oats Company, Chicago, Ill., a corporation of New Jersey
No Drawing. Application November 21, 1938, Serial No. 241,642
10 Claims. (Cl. 260—28)

3. A method of improving paving or surfacing compositions containing aggregate and a bituminous material, which comprises mixing the aggregate with said bituminous material in the presence of an unresinified organic resin-forming material comprising an aldehyde having not substantially more than seven carbon atoms, said resin-forming material being substantially unresinified at the time of the mixing of the aggregate with the bituminous material.

2,314,182
LEVELING SUPPORT FOR SEWAGE DISTRIBUTORS
Charles Yeomans, Hubbard Woods, Ill., assignor to Yeomans Brothers Company, a corporation of Delaware
Application August 1, 1941, Serial No. 404,969
9 Claims. (Cl. 299—54)



1. In rotary sewage distributors of the class described having a central, upright, hollow column through which liquid sewage is delivered

for distribution through horizontal, radially extending, sewage distributing arms rotatably supported on said column, and a stationary pipe fitting on which said column is supported and through which the sewage is delivered into the column, in combination, an adjustable leveling support connected in fluid conductive relationship between the base of said column and the stationary pipe fitting whereby the column may be adjusted to the true vertical position, said adjustable leveling support comprising, a ring member carried in a substantially horizontal position on said stationary pipefitting and having a bearing surface shaped as a spherical segment which fits in bearing support relationship in a correspondingly shaped bearing recess provided therefor in the base of said column, said column being tiltable in any direction on said ring, adjusting means for adjusting said column to a plumb position on said ring member, and means for maintaining said column in fixed position on said ring member.

2,314,183

METHOD OF MACHINING METAL BLANKS

Lucien I. Yeomans, Chicago, Ill., assignor of one-half to George F. Bryant, Chicago, Ill.
Application June 26, 1940, Serial No. 342,436
2 Claims. (Cl. 29—1.21)

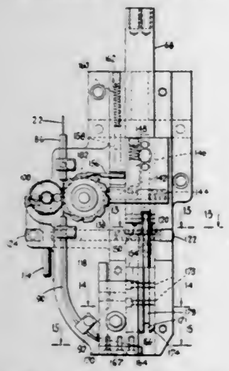


1. The method of forming artillery shells, which comprises, fashioning on the exterior of the closed end of a generally cup shaped forged metal blank an integral chuck element projecting from such end of the blank, engaging said chuck element with a complementally shaped chuck element through which torsion is transmitted as an incident to turning and boring the blank, rough turning the exterior of the blank and rough boring its interior while so chucked, drawing the open end of the blank to pointed form, finish turning the exterior of the blank while so chucked, and finally trimming off said integral chuck element.

2,314,184

STAPLE FORMING AND SETTING MACHINE

Rudolph E. Zeruneith, Jersey City, N. J., assignor to Conmar Products Corporation, Bayonne, N. J., a corporation of New Jersey
Application August 1, 1940, Serial No. 349,268
8 Claims. (Cl. 1—2)



1. A staple forming and driving machine comprising means to support a reel of flat wire stock, means to intermittently feed the same over a cutting die, a former having a portion arranged to act as a cutting punch cooperating with said die, a driver within said former, a dog rockably carried by the driver and arranged at its lower end to engage the former, a stationary cam cooperating with said dog to positively move the same to either its engaged or disengaged position, and an anvil beneath said former.

2,314,185

PROCESS FOR THE MANUFACTURE OF PROGESTERONE

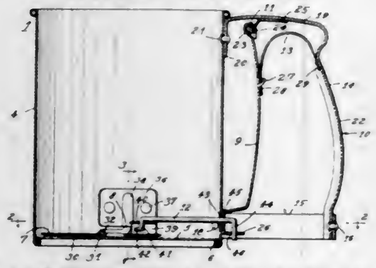
Bernhard Zondek, Rehavia, Jerusalem, and Ernst Bergman, Rehovoth, Palestine
No Drawing. Application June 18, 1940, Serial No. 341,138. In the Netherlands September 1, 1939
1 Claim. (Cl. 260—397.1)

In a process for the manufacture of progesterone from bile acids the step of converting lithocholic acid into 3-hydroxycholenic acid by substitution of bromine in the α position of the carboxylated side chain and splitting off hydrobromic acid, and into bisnor lithocholic acid by oxidative degradation of the 3-hydroxycholenic acid.

2,314,186

FLOUR SIFTER

Albert L. Zuck, Rockford, Ill., assignor to The Washburn Company, Worcester, Mass., a corporation of Massachusetts
Application June 13, 1940, Serial No. 340,286
5 Claims. (Cl. 209—357)

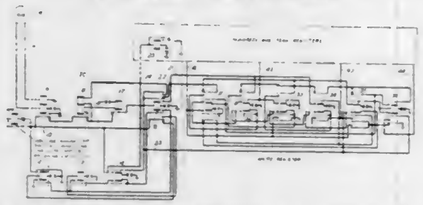


1. A sifter comprising a casing having a sifting screen in the bottom thereof, a vertically extending handle attached to one side of said casing, an elongated agitator pivotally mounted in said casing alongside the wall thereof at a point spaced appreciably from the handle circumferentially of the casing for oscillatory movement relative to the screen bottom toward and away from the lower portion of the handle, an operating lever for the agitator pivoted in the upper portion of the handle and having its lower portion movable relative to the lower portion of the handle in the oscillatory movement of said lever, the lower portion of said lever providing a perforated vertical portion above a perforated horizontal portion, and a rod slidable substantially horizontally through an opening provided therefor in the wall of the casing adjacent the lower portion of the handle and projecting through the perforation in the vertical portion of the lower end of said lever and having its end portion bent downwardly substantially at right angles and projecting through the perforation in the horizontal portion on the lower end of said lever, whereby said rod is movable with the lever in the oscillation thereof, the inner end portion of said rod being pivotally connected with the agitator at a point intermediate the ends thereof, said lever being movable manually in one direction and having spring means acting to move it in the opposite direction.

2,314,187

SIGNALING SYSTEM

Henry H. Abbott, Yonkers, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 22, 1940, Serial No. 362,196
5 Claims. (Cl. 177—353)



1. In an impulse receiver for responding to trains of impulses and repeating the impulses to an impulse register, an impulse relay connected to a line over which trains of impulses are transmitted, a holding conductor, said impulse relay having a contact for connecting a holding potential to said conductor to maintain the connection operated, a slow-to-release holding relay, a cir- between said line and relay while the relay is cuit closed by the operation of said impulse relay upon connection of said line and impulse relay for operating said slow-to-release holding relay, said holding relay having a contact for connecting holding potential to said conductor to maintain the connection between said line and impulse relay while the impulse relay is responding to impulses, relay means controlled by said impulse relay for repeating trains of impulses to an impulse register, means including another slow-to-release relay for indicating the end of each train of impulses, a holding circuit for said holding relay closed by said impulse repeating means during each even-numbered impulse cycle and opened by said impulse repeating means during each odd-numbered impulse cycle of a train of impulses, and a circuit for operating said other slow-to-release relay closed by said impulse repeating means during each odd-numbered impulse cycle and opened by said impulse repeating means during each even-numbered impulse cycle of a train of impulses.

2,314,188

METHOD OF TREATING CALCIUM SILICATE

Raymond P. Allen, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application August 29, 1940, Serial No. 354,728
5 Claims. (Cl. 106—306)

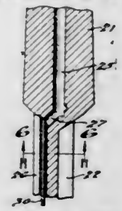
1. The method of treating calcium silicate prior to its incorporation as a reinforcing pigment in rubber which comprises treating the calcium silicate with a compound having the property of insolubilizing the soluble calcium compounds present in the calcium silicate.

2,314,189

METHOD OF MANUFACTURING METAL CUTTING TOOLS

Rudolf W. Andreasson, Detroit, Mich.
Application September 20, 1941, Serial No. 411,650
2 Claims. (Cl. 76—108)

1. The method of providing a fluid supply passage in cutting tools comprising the steps of milling a slot in the surface of said tool, disposing a pull wire in the base of said slot, mobilizing the said pull wire by filling the base of said slot up to and over said pull wire with a carbon-graphite forming compound not hardenable at the temperature developed by filling the upper portion of said slot with a bridging material

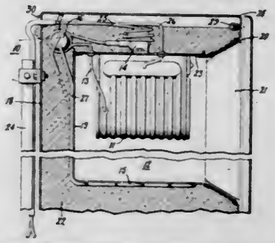


molten at a temperature sufficiently low to avoid deleterious annealing of the cutting edge of the cutting tool, and then removing said pull wire from the base of said slot.

2,314,190

REFRIGERATING APPARATUS

Leonard W. Atchison, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application February 21, 1941, Serial No. 379,933
6 Claims. (Cl. 62—115)

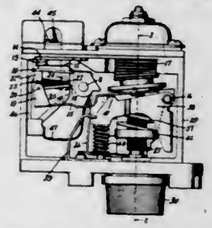


1. Refrigerating apparatus comprising a primary and a secondary refrigerant system, means for transferring heat between said systems, said means comprising a condensing portion in said secondary system and a portion of said primary system in heat exchange relationship therewith, said portions being formed of relatively good heat conducting material, one of said portions being in the form of a spiral coil the turns of which are free to move relative to each other, said coil being removably disposed in intimate thermal engagement with the other of said portions.

2,314,191

CONTROL DEVICE

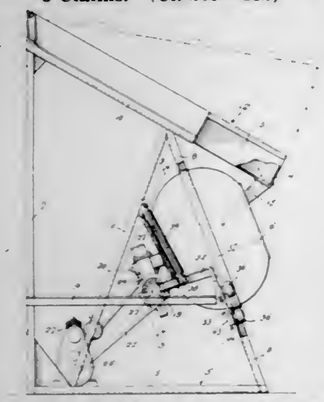
Edgar H. Ayers, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application July 1, 1941, Serial No. 400,632
18 Claims. (Cl. 200—83)



1. A control device comprising a switch member, an operating member, a resilient connection between said members for moving said

switch member quickly between an open circuit position and a closed circuit position upon a predetermined amount of movement of said operating member with respect to said switch member, stop means for normally limiting the movement of said switch member in one of said positions, means providing for movement of said switch member beyond said one position thereby to require a greater movement of said operating member to cause movement of said switch member, and resilient means engaged by said operating member when said operating member moves beyond said one position for increasing the required pressure by said operating member for operation of said switch member.

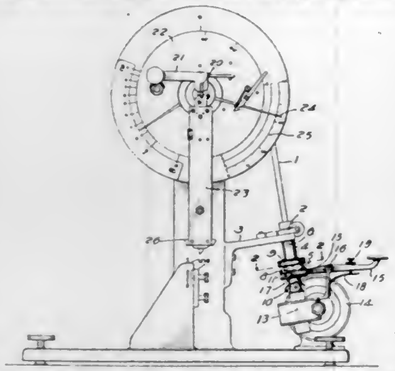
2,314,192
ORE CONCENTRATOR
Phillip H. Behrens, Kearney, Nebr., assignor of one-third to C. A. Wilcox, and one-third to Gilbert Phillips, both of Kearney, Nebr.
Application December 19, 1941, Serial No. 423,666
3 Claims. (Cl. 209—482)



1. In an ore separator, a supporting structure, a horizontally arranged shaft journaled on said structure and having an offset inclining downwardly from the plane of the shaft, a housing integral with the shaft and extending into the offset, a drive means rotatably supported by said housing, the offset of said shaft providing a clearance for a portion of said means, a bowl secured to said drive means and including a mouth, parallel arms secured on the shaft with the bowl extending therebetween, a depending yoke secured to said arms and underlying and rotatably supporting the bowl, and tension means acting on said shaft to normally sustain the bowl in an inclined position and adapted to yield under force acting to tilt the bowl with the mouth thereof directed downwardly.

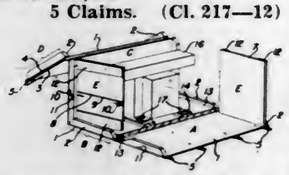
2,314,193
SELF-RELEASING MACHINE DRIVE
Ladislav Boor, New Canaan, and Chesman Henry Bourdelais, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
Application March 4, 1941, Serial No. 381,742
1 Claim. (Cl. 265—12)

An apparatus which comprises, in combination, a driving shaft, means for driving said shaft, a lower clutch member with upwardly protruding jaws keyed to, but axially slidable on, said driving shaft, an upper clutch member with downwardly protruding jaws adapted to engage the jaws of said lower clutch member, a machine for testing the static strength of materials connected to said upper clutch member by a shaft, a forked lever attached to said lower clutch member and capable of moving said lower clutch member upwardly into contact with said upper clutch member, said upper and lower clutch members being frictionally held in an engaged position by



means of the jaws so long as said machine is under load, and a spring attached to said forked lever for automatically disengaging said upper and lower clutch members upon removal of the load being driven, said spring, being adjustable with respect to the magnitude of the force necessary to drive the machine when under load.

2,314,194
BOX AND PACKAGING
Philip O. Buch, Rockaway, N. J., assignor to Stapling Machines Co., a corporation of Delaware
Continuation of application Serial No. 167,550, October 6, 1937. This application June 3, 1940, Serial No. 338,526
5 Claims. (Cl. 217—12)



1. In combination with a base to which an article may be secured, a box comprising four foldably connected side sections having interior cleats arranged to provide an interior cleat frame at each end of the box, and two end sections each located inside a cleat frame and foldably connected to a side section and adapted to swing over the base and be connected to an opposite side section, the base being of such length as to be substantially in end contact with the cleats of the bottom section, whereby the base is clamped by the end sections to the bottom side section and is held against endwise shifting by the cleats of said bottom side section.

2,314,195
RECEPTACLE AND SNAP-ON COVER THEREFOR
Ralph V. Burdick, Albany, N. Y.
Application November 21, 1941, Serial No. 420,024
1 Claim. (Cl. 220—60)

A receptacle including a body having an annular external groove therein directly adjacent its upper edge and an external segmental bead located immediately beneath said groove, and a flanged cover for said body having diametrically opposed internal segmental beads on its flange, respectively arranged adjacent the top and bottom of said flange for respective cooperation with the annular groove and the segmental bead of the body, said cover being adapted to slip onto the body so as to snap the beads of said cover

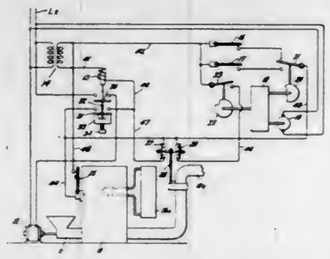


respectively into the groove of the body and over and beneath the bead of the body to retain the body and cover assembled with the upper edge of the body in contact with the top of the cover, said cover being readily removable from the body upon partial rotation thereof relative to the body until the lower bead of the cover is moved from beneath and out of registry with the bead of the body.

2,314,196
DIAZO COMPOSITION
Earl W. Clark, Buffalo, N. Y., assignor to Allied Chemical & Dye Corporation, a corporation of New York
No Drawing. Application July 27, 1940, Serial No. 348,023
11 Claims. (Cl. 8—44)

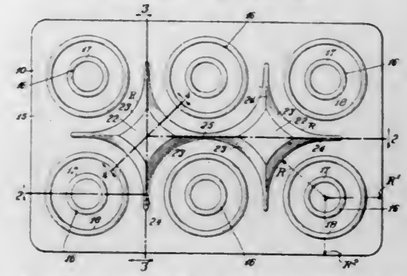
1. A diazo composition comprising diazotized 4-chlor-2-nitraniline and at least one of the group consisting of sulfamic acid and its salts, as a stabilizing agent therefor.

2,314,197
AUTOMATIC CONDITION RESPONSIVE CONTROL
Harry R. Crago, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application October 8, 1941, Serial No. 414,157
7 Claims. (Cl. 236—9)



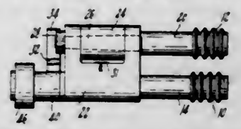
5. In combination, a burner having a control relay, an energizing circuit for said relay, a plurality of automatic burner control switches connected in series in said circuit, a normally open switch connected in shunt with one of said control switches, manually operable means for closing said normally open switch to energize said relay when said one control switch is open, and means rendered effective upon subsequent deenergization of said relay for automatically returning said normally open switch to the open position.

2,314,198
DEVICE FOR USE IN PACKING CANS AND THE LIKE
William J. De Reamer, Crown Point, Ind., assignor to Mapes Consolidated Manufacturing Company, Griffith, Ind., a corporation of Delaware
Application May 1, 1941, Serial No. 391,265
6 Claims. (Cl. 206—65)



1. A device for use in packing a plurality of cans or the like in a container and embodying therein a sheet-like body having can end receiving portions on one face thereof and arranged in rows extending in two directions of the body, and means rising from said face of the body in planes between said rows of can end receiving portions and comprising relatively high parts, each disposed centrally between each four adjacent can end receiving portions in any two rows and a plurality of rib-like parts each disposed between two adjacent can end receiving portions and of such length as to extend from its associated high part to at least substantially up to a line passing through the centers of said two adjacent can end receiving portions.

2,314,199
GAUGE FOR INTERNAL SCREW THREADS
Irving W. Dillon, Melrose, Mass.
Application July 3, 1941, Serial No. 400,923
4 Claims. (Cl. 33—199)

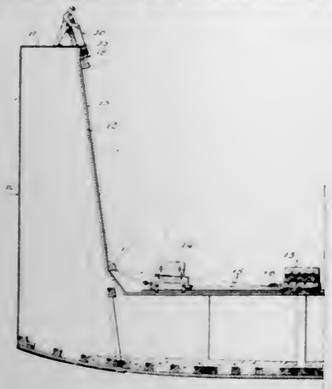


1. A gauge for internal screw threads, comprising a pair of parallel shafts having end portions insertable into a threaded aperture to be gauged, a pair of gauging members on said respective end portions, hinge means connecting said shafts to permit relative lateral motion thereof and to maintain said shafts in mutually parallel relationship, and means of predetermined length movable into position between the axes of said shafts to define the correct gauging distance between said axes.

2,314,200
WINCH
Newman H. Drake, Essex Fells, N. J., assignor to Snelling Bros. & Drake, New York, N. Y., a co-partnership composed of Howard R. Snelling and Newman H. Drake
Application July 9, 1942, Serial No. 450,270
5 Claims. (Cl. 61—66)

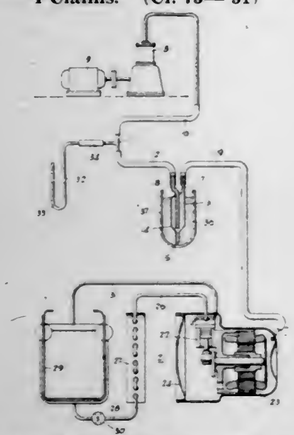
2. The combination with the wing deck and inner wing wall of a drydock; of a winch comprising a housing including opposed side walls one of which is attached to said wing wall below

the level of said deck, a wildcat mounted for rotation between said side walls, a heaver arm having operative connection with said wildcat and provided with a socket inclined inwardly from a vertical plane and toward said wing deck,



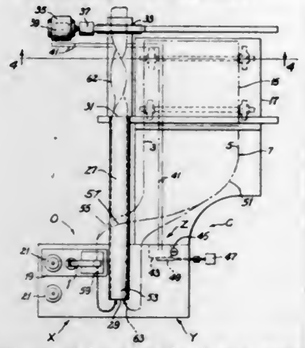
and a capstan bar in said socket and extending above said deck in the direction of inclination of said socket so as to be in overhanging relation to said deck.

2,314,201
METHOD OF TESTING REFRIGERATING APPARATUS
Howard M. Elsey, Oakmont, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 2, 1940, Serial No. 332,876
4 Claims. (Cl. 73— 51)



3. The method of determining the residual oil-like and water-like content of a substantially dehydrated receptacle by utilizing a trap having a long narrow pocket provided with means for indicating the volume of the liquid therein, which method comprises heating said receptacle while drawing the gases and vapors therein through the trap by evacuation, chilling said trap to condense said vapors, thereafter centrifuging said trap to force the condensate adhering to the interior wall surfaces thereof into said pocket and to separate the condensate forced into said pocket into its oil-like and water-like constituents, and thereupon comparing the upper level of at least one of the constituents of said condensate with the indicating means on said pocket to determine the volume of said one constituent.

2,314,202
FABRIC TUBING
Arthur C. Ewer, Brooklyn, N. Y., Charles V. Brady, Webster Groves, Mo., and Robert W. Hanse, Freeport, N. Y., assignors to Bemis Bro. Bag Company, St. Louis, Mo., a corporation of Missouri
Application June 24, 1940, Serial No. 342,098
3 Claims. (Cl. 112—63)



1. A method of forming helically seamed tubing comprising continuously withdrawing a fabric strip from a supply, said strip having threads respectively parallel to and at right angles to its longitudinal edges, offsetting initially opposite portions of the edges of the strip, juxtaposing said offset portions of the edges of the fabric to form a helical seam, seaming said edges on a fixed sewing machine whereby continuous twisted tubing is formed, continuously turning said twisted tubing inside out before it is untwisted to present said edges interiorly of the resulting tubing and untwisting the inside-out tubing to form an untwisted inside-out tubing having an inwardly directed helical seam with threads respectively located parallel to and at right angles to the helical seam.

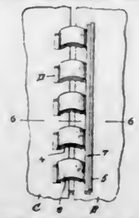
2,314,203
BATTERY SEPARATOR
Edward Fairclough, Cleveland, Ohio, assignor to Willard Storage Battery Company, Cleveland, Ohio, a corporation of West Virginia
Application August 1, 1941, Serial No. 405,062
6 Claims. (Cl. 136—149)



1. A battery separator comprising a sheet formed of matted tree bark fibers of the type having a relatively high lignin content.

2,314,204
LOOSE LEAF BINDING DEVICE
Manuel Fontecilla, Dayton, Ohio
Application December 15, 1941, Serial No. 423,096
10 Claims. (Cl. 129—1)

1. A device for binding perforated sheets comprising two separate substantially ring shaped members superposed one upon the other, both members being adapted to extend through the same alined perforations in all the sheets to be bound, each member having separated ends to enable it to be inserted through said perforations, one end portion of at least one of said members



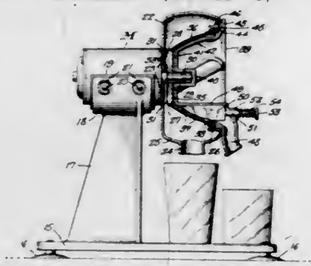
being movable with relation to the other end of that member to permit it to be superposed on the other member, and both ends of both members being arranged on the same side of a diametrical line transverse to said sheets.

2,314,205
SHOE
Vilem Forschner, New York, N. Y.
Application February 13, 1942, Serial No. 430,731
6 Claims. (Cl. 36—12)



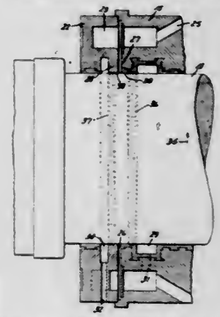
1. A shoe comprising: an outsole, a platform, and an upper attached to said platform, said platform being attached to said outsole, and the lower edge of said upper being visibly arranged on the outside of the platform.

2,314,206
JUICE EXTRACTING DEVICE
Albert D. Grau, Tacoma, Wash.
Application October 21, 1940, Serial No. 362,164
3 Claims. (Cl. 146—3)



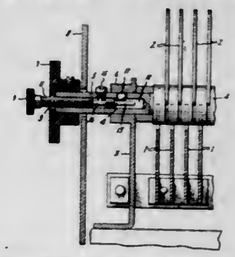
1. In a juice extracting device, a casing closed at one end and open at the other end and having a juice outlet, a rotary cutter head mounted in the casing adjacent the closed end, a perforated conoidal juice and pulp separating wall secured to the periphery of the cutter head, a cover member mounted on the casing adjacent to and approximately parallel with the perforated wall and cutter head, the said cover member having a feed opening therein, a housing on the cover member providing a pulp outlet duct communicating with a discharge spout, a scraper blade mounted in the housing and disposed in axial scraping relation with the perforated wall, the said blade having a stem projecting outwardly through a slide bearing on the housing, and a spring on the outer portion of the stem yieldingly urging the blade to retracted position with relation to the said perforated wall.

2,314,207
SHAFT SEAL
Lloyd P. Grobel, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application December 30, 1941, Serial No. 424,899
1 Claim. (Cl. 286—9)



A shaft seal for a rotatable shaft arranged to rotate in a predetermined direction including means having a sealing liquid chamber about said shaft with a sealing wall on each side of said chamber for feeding sealing liquid in both directions along said shaft, means for supplying sealing liquid under pressure to said chamber, said chamber walls each having a sealing surface extending about said shaft with a spiral groove therein, said spiral grooves being in opposite directions in said two wall sealing surfaces and in a sense such that rotation of said shaft in said predetermined direction tends to create a liquid pressure on the sealing liquid through said spiral grooves for minimizing the flow of sealing liquid from said chamber, a sealing liquid collecting passage on the outer side of each of said spiral grooves, an ungrooved bearing section on the outer side of each of said collecting passages, and an ungrooved sealing surface on each of said chamber walls about said shaft adjacent said chamber.

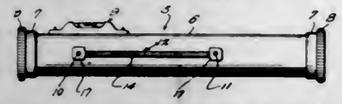
2,314,208
SHAFT LOCK
Anatole M. Gurewitsch, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application May 8, 1942, Serial No. 442,214
6 Claims. (Cl. 287—114)



6. The combination with a control device having a tubular axial shaft for rotatably adjusting

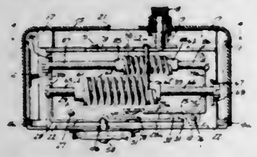
said control device, said shaft having a recess located in a plane transverse to the axis of said shaft and extending between the inner and outer surfaces of said tubular shaft, a frame member having a bearing surface for rotatably supporting said shaft, a control knob secured to said shaft near one extremity thereof, whereby said shaft normally may be rotated in said bearing surface for adjustment of the position of said device, and means for substantially locking said shaft against rotation with respect to said frame member, said means comprising a movable member located in said recess, a pin member extending within said tubular shaft, said pin member having sections of different diameter and a tapered portion connecting said sections for engaging said movable member, and means whereby said pin member may be moved relative to said movable member thereby to cause said movable member to move outwardly in said recess.

2,314,209
LEVEL
Burton C. Hall, Mansfield, Conn.
Application January 16, 1942, Serial No. 427,060
1 Claim. (Cl. 33—207)



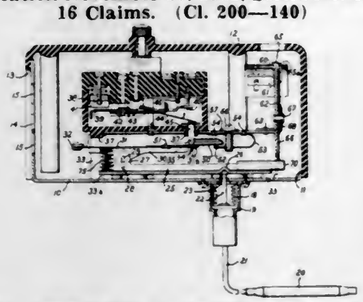
A level comprising a casing having a longitudinally arranged bubble level on its upper side, and a longitudinally arranged blade fixed on a side thereof for producing a grade mark on a stake by reciprocating the casing with the blade in contact with the stake and with the bubble in said bubble level equalized, said marking blade comprising a rod, means securing the opposite ends of said rod to the casing, and serrations on the exposed side of said rod.

2,314,210
CONDITION RESPONSIVE CONTROL
George M. Hausler, Ballston Lake, N. Y., assignor to General Electric Company, a corporation of New York
Application September 26, 1941, Serial No. 412,415
13 Claims. (Cl. 200—83)



1. A condition responsive control having in combination, a base plate with an opening formed therein, condition responsive means mounted on one side of said plate and having an operating member extending through said opening, a channel frame mounted on the opposite side of said plate to straddle said member and having an opening in one side thereof, an L-shaped main operating lever pivotally mounted within and adjacent one end of said channel frame with one arm thereof engaging said operating member to be operated thereby and having a finger extending laterally through said side opening in said channel frame, a reversed L-shaped differential control lever pivotally mounted within and adjacent the opposite end of said channel frame with one arm disposed in the path of the said one arm of said main lever, a pair of calibrating springs reversely mounted within said channel frame in substantially parallel spaced apart alignment between the other arms of said L-shaped levers and each having one end thereof connected to a corresponding one of said other arms and a tension adjusting element connected to the opposite end thereof, a calibrating scale element movably mounted on said channel frame and secured to and movable with the said tension adjusting element of said main lever calibrating spring, a stationary pointer mounted on said frame and cooperating with said movable scale member to indicate the calibration of said main lever calibrating spring, a second indicating pointer secured to and movable with the said tension adjusting member of said differential lever calibrating spring for independently indicating the joint calibration thereof on said scale and a circuit controlling switch unit mounted on said base in off set side-by-side alignment with said channel frame and in operating relation with said laterally extending finger of said main operating lever.

2,314,211
CONDITION RESPONSIVE CONTROL
George M. Hausler, Ballston Lake, N. Y., assignor to General Electric Company, a corporation of New York
Application November 27, 1941, Serial No. 420,652
16 Claims. (Cl. 200—140)

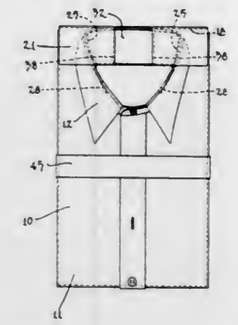


1. In combination, a control member movable between two control positions, opposing biasing means therefor having a reversible predominance, a main operating lever having lost motion pivotal connecting means adjacent one end thereof, an adjustable fulcrum for engaging the other end of said main lever, condition responsive means having an operating member engaging said main lever between the ends thereof, an amplifying lever overlapping the said one end of said main lever and interconnected with said lost motion pivotal connecting means, means for rotatably supporting one end of said amplifying lever, a compression spring interposed between said amplifying lever and the said one end of said main lever to take up the lost motion in said pivotal connecting means and bias said levers to rotate in opposite directions about said pivotal connecting means and thereby provide both a yielding and a biasing operating connection therebetween, a differential control lever hinged adjacent the other end of said amplifying lever to be moved as a unit therewith to render one of said biasing means predominant over the other to bias said control member to move from one of said positions to the other and to be moved relatively to said amplifying lever to render the other of said biasing means predominant over said one biasing means to bias said control member to return from said other position to said one position, and an adjustable stop disposed in the path of said differential control lever to regulate the said relative movement thereof.

2,314,212
NITRATION OF CYCLIC ORGANIC COMPOUNDS
George Felix Hennion, South Bend, Ind., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application April 24, 1940, Serial No. 331,419
5 Claims. (Cl. 260—645)

1. The process which comprises making a nitrating mixture comprising nitric acid, boron trifluoride and an aromatic carbocyclic compound; and maintaining the mixture at a nitrating temperature until an aromatic carbon of the compound is substituted by a nitro group, at least sufficient boron trifluoride being present to assist the nitration.

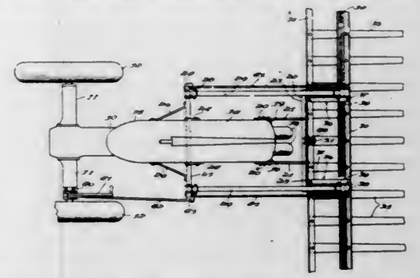
2,314,213
SHIRT PROTECTOR
Russell J. Hennessey, Worthington D. Genck, and Reynolds Guyer, St. Paul, Minn., assignors to Waldorf Paper Products Company, St. Paul, Minn., a corporation of Minnesota
Application January 30, 1942, Serial No. 428,900
9 Claims. (Cl. 223—71)



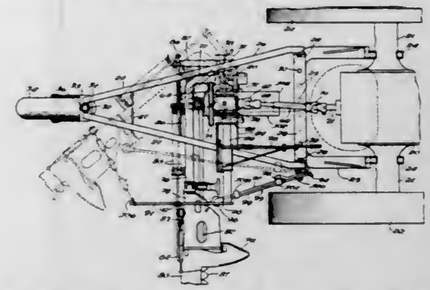
1. A shirt protector constructed from a sheet of foldable material scored transversely at spaced localities at one end of the sheet to form a body member, an end wall section, an intermediate section and an end section, said sheet being foldable along said scores to bring said end wall section into upright position to form an end wall for the protector, said intermediate section being foldable into spaced position parallel with respect to said body member to form a shield and said end section being foldable into a position parallel with said end wall with its free edge in close proximity to said body portion to form a support for the shield, said end section having holding members struck out of the same and bent outwardly of the plane of the support to fit the interior of the collar.

2,314,214
SWEEP RAKE
Samuel E. Hilblom, Chicago, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application July 21, 1941, Serial No. 403,258
12 Claims. (Cl. 56—27)

1. A vehicle-mounted sweep rake comprising, in combination, a vehicle having a longitudinal body, a rake head disposed ahead of the body, means connecting the rake head to the body to mount the rake for tilting upwardly or downwardly with respect to the body, means for tilting the rake head, and yieldable means connected between the rake head and the vehicle body independently of the tilting means to yieldably urge tilting of the rake head in one direction.



2,314,215
MOWER
Samuel E. Hilblom, Chicago, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application September 18, 1941, Serial No. 411,265
17 Claims. (Cl. 56—25)

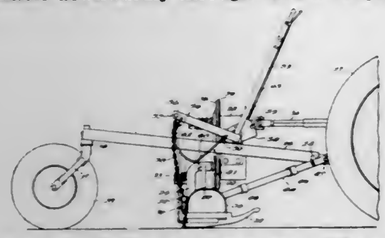


1. A mower adapted for connection to a tractor, comprising a frame adapted to be disposed at the rear of the tractor and to extend generally longitudinally rearwardly thereof, transversely spaced means at the forward end of the frame adapted to connect the frame to the tractor, ground-engaging means at and for supporting the rear end of the frame, said ground-engaging means being located substantially on a line extended longitudinally rearwardly from a point midway between the aforesaid transversely spaced connecting means, cutting mechanism connected to the frame at one side of said line for movement with respect to the frame, and means associated with the frame and cutting mechanism at the other side of said line for controlling the movement of the cutting mechanism.

2,314,216
CONTROL MEANS FOR AGRICULTURAL IMPLEMENTS
Samuel E. Hilblom, Chicago, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application January 2, 1942, Serial No. 425,405
16 Claims. (Cl. 56—25)

1. For a mower having a frame, a cutter-bar, means connecting the cutter-bar to the frame for movement upwardly and downwardly with respect to the frame, and means connecting the cutter-bar to the frame for rearward swinging movement relative to the frame from a normal operating position: lifting means for moving the cutter-bar upwardly comprising an arm rockably carried by

the frame above the cutter-bar and extending generally rearwardly; a flexible element fixedly connected at opposite ends to the rearward end of the arm and to the cutter-bar, said flexible element being of such length and the arm being rockable downwardly through such a range as to



allow substantial rearward swinging of the cutter-bar without a disconnection of said element; and means carried by the arm and extending downwardly and engageable with the flexible element, upon upward swinging of the arm, to shorten the flexible element temporarily for lifting of the cutter-bar by the arm.

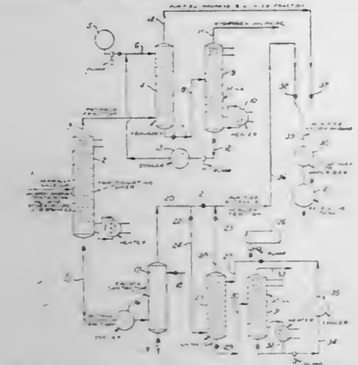
2,314,217

TREATMENT OF HYDROCARBON GASES

Herschel Y. Hyde, Associated, Clare Kenneth Viland, Martinez, and Lionel S. Galstaun, San Francisco, Calif., assignors to Tide Water Associated Oil Company, San Francisco, Calif., a corporation of Delaware

Application May 10, 1940, Serial No. 334,408

12 Claims. (Cl. 260—676)



1. The process of purifying normally gaseous hydrocarbons which comprises: fractionally distilling a mixture of C_3 and C_4 hydrocarbons containing hydrogen sulphide, mercaptans, and aliphatic acids to obtain a light fraction comprising said C_3 hydrocarbons predominantly together with said hydrogen sulphide, and a heavy fraction comprising said C_4 hydrocarbons predominantly together with said mercaptans and said aliphatic acids; contacting a continuous stream of said light fraction in a contact zone with an alkaline reagent capable of absorbing H_2S and liberating the same upon heating; removing contacted alkaline reagent from said contact zone; distilling H_2S from said contacted alkaline reagent to regenerate the same; returning regenerated alkaline reagent to said contact zone; contacting said heavy fraction with an alkali solution to remove said mercaptans and said aliphatic acids; removing the purified heavy fraction from the alkali solution; and blending the thus treated light and heavy fractions to obtain a purified C_3—C_4 mixture.

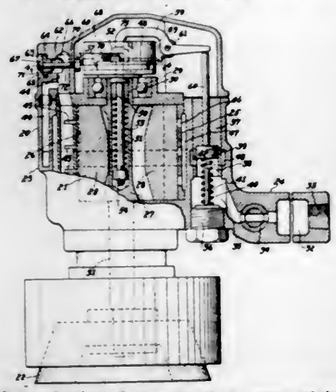
2,314,218

SAFETY DEVICE

Francis A. Jimerson, Athens, Pa., assignor to Ingersoll-Rand Company, New York, N. Y., a corporation of New Jersey

Application September 3, 1942, Serial No. 457,160

3 Claims. (Cl. 121—34)



1. A safety device for a motor comprising a casing having a piston chamber and a pressure fluid supply passage for the piston chamber, a piston in the piston chamber, a relief port in the casing for the supply passage, a sealing member for the relief port having a pressure surface subjected to the pressure fluid in the supply passage, a locking member for locking the sealing member in position to seal the relief port, and means acting in response to a predetermined speed of the piston for rendering the locking member ineffective to hold the sealing member in sealing position and thereby enable the pressure fluid acting against the pressure surface to move the sealing member from its sealing position for opening the relief port.

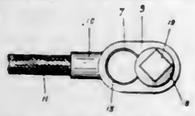
2,314,219

BATTERY CLAMP

Erick G. Johnson, Rock Island, Ill.

Application February 14, 1942, Serial No. 430,915

1 Claim. (Cl. 173—259)



A battery clamp comprising a coupling adapted for connection with the lead wire of a battery, provided with twin sockets of circular form and of approximately the same diameters, extending entirely through the coupling, and merging with each other at the central part, with their axes parallel with each other, adapted for use with a battery terminal insertable in one or other of said sockets, and a locking pin of cam-shaped cross-section insertable in one or other of said sockets for engagement with a terminal inserted oppositely in the other of said sockets, to lock the same in place upon a partial rotation of the locking pin.

2,314,220

HAIR REMOVER

Lane Johnson, Milwaukee, Wis., assignor to S. V. H. Corporation, Lake Forest, Ill., a corporation of Illinois

Application November 19, 1942, Serial No. 466,120

6 Claims. (Cl. 51—186)

1. A hair remover comprising a sheet of flexible abrasive material provided with a central opening transversely of the sheet adapted to



admit the fingers, the ends of the sheet being rounded.

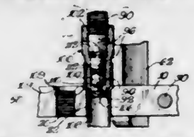
2,314,221

FLARING AND SWEDGING TOOL

Edgar E. Kellems, Pasadena, Calif., assignor to The Imperial Brass Manufacturing Company, Chicago, Ill., a corporation of Illinois

Original application July 24, 1939, Serial No. 286,234. Divided and this application January 16, 1941, Serial No. 374,695

6 Claims. (Cl. 153—79)



1. In a swedging tool, a swedging element having a stem adapted to be advanced rotatably through a swedging operation into the end of a tube, said element including a pilot portion of diameter substantially equal to the inside diameter of the tubing and a portion adjacent thereto having an outside diameter larger than the pilot portion substantially equal to the outside diameter of the tubing, an annular fillet separating said last portion from the pilot portion, and a sequence of circumferentially spaced depressions in the fillet spaced from the large end of the fillet for kneading the tubing at the plane wherein the diameter is spread from smaller to larger dimension as the swedging element is extended rotatably into the tubing.

2,314,222

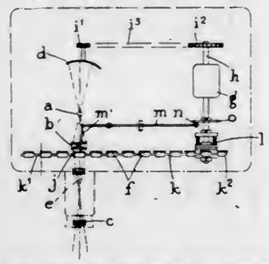
METHOD AND MEANS FOR PROJECTING IMAGES WITH FLICKERING EFFECT

Joseph König, London, England

Application August 13, 1941, Serial No. 406,716

In Great Britain December 3, 1940

10 Claims. (Cl. 88—24)



1. In an apparatus for projecting upon a screen still pictures with parts thereof in apparent motion, a primary light-transmitting slide carrying a representation of a picture to be projected, a secondary light-transmitting slide having selected areas corresponding to portions of the picture represented on said primary slide to which it is desired to impart apparent motion, holding means for holding said slides in spaced juxtaposition with said selected areas of said secondary slide in register with the corresponding portions of said primary slide, said selected areas of said secondary slide comprising a plurality of light-modifying elements, a source of light, a condenser for condensing a beam of light from said source upon said slides so held in juxtaposition, focussing means for focussing upon the screen said beam after passage thereof through said slides, and light path distorting means for distorting the path of light from said source.

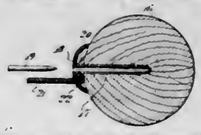
2,314,223

PIN

Madge Sanford Lane, Chicago, Ill.

Application April 11, 1940, Serial No. 329,079

1 Claim. (Cl. 24—155)



In a device of the type described, the combination of two end members stamped out of sheet metal, a shaft secured to one of said end members and adapted to releasably engage a socket portion of the other end member, lugs formed integrally on said end members so as to be bent into the form of hooks, and a resilient connecting member engaging said hooks serving normally when said shaft is in engagement with said socket piece to hold the shaft yieldingly from disengagement.

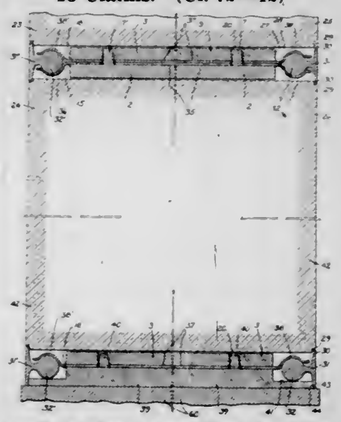
2,314,224

WALL CONSTRUCTION

George H. Lenke, Elmhurst, Ill., assignor of one-half to Julius J. Ohlis, Oak Park, Ill.

Application July 31, 1940, Serial No. 348,842

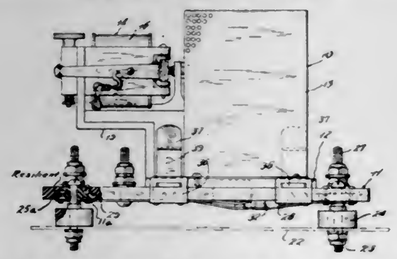
13 Claims. (Cl. 72—42)



6. A wall section comprising a frame and a building block having slidable engagement therein, a binder structure disposed about said frame, a locking strip engaging an edge of said block as well as an edge of said binder structure and

having a portion constituting one-half of a means holding said block in said frame, and yieldable means having one portion secured in a recess formed in an exterior surface of said frame and having another portion constituting the other half of the block-holding means, the said other portion extending beyond the edge of said frame and interfitting said portion of said locking strip to hold said block in said frame.

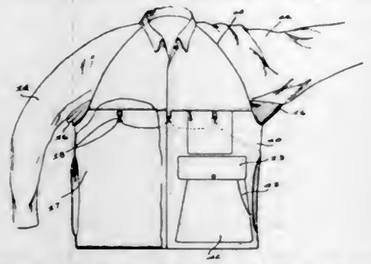
2,314,225
REGULATOR UNIT AND MOUNTING
Bennett M. Leece, Shaker Heights, Ohio, assignor to The Leece-Neville Company, Cleveland, Ohio, a corporation of Ohio
Application November 18, 1941, Serial No. 419,608
2 Claims. (Cl. 173—328)



2. In apparatus of the character described, an electrical regulator unit having a base provided with a group of terminal members projecting from the bottom thereof and located intermediate the sides of the base, said terminal members being insulated from each other and electrically connected with the regulator, a support for the regulator unit comprising a panel formed of insulating material and adapted to be mounted on a motor vehicle, said panel having terminals thereon for permanent connection with the external regulator circuits and also having an opening intermediate its sides of a size to freely receive said group of terminal members, a plurality of spring fingers connected with said terminals and lying adjacent the underside of the panel with portions of said fingers extending into said opening so as to be automatically engaged by said terminal members of the regulator unit when the latter is connected with said panel, a slotted upstanding lug on the panel at one side thereof and a second upstanding lug on the panel at the opposite side thereof, said base being of a width to be snugly received between said upstanding lugs and itself having a laterally extending lug engageable in said slotted lug, and a spring latch on said panel and engageable with the base for releasably retaining said base between said lugs.

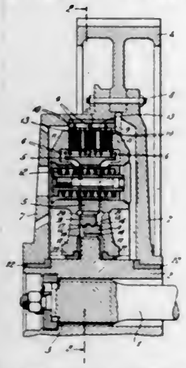
2,314,226
HUNTING COAT
Robert E. Lee, Toledo, Ohio, assignor to The Hetrick Manufacturing Company, a corporation of Ohio
Application January 12, 1942, Serial No. 426,430
1 Claim. (Cl. 2—94)

A hunting coat of the character described, comprising a body portion of relatively stiff canvas material having a game pocket in the portion thereof below the armpits, raglan sleeves of said canvas material secured to the body portion, the adjacent edges of the sleeves and body portion being unsecured to one another in the armpit regions whereby to affect ovate cut-outs so that when the sleeves are raised and lowered, the upper edges of the undersides of the sleeves swing in arcs about axes constituted by the uppermost points of the cut-outs, a pair of worsted knit, ovate, longitudinally ribbed armpit inserts having their longitudinal edges respectively secured to said adjacent edges so as to close said cut-outs, each insert being, in unstretched condition, substantially wider than the distance between said adjacent edges, and being normally



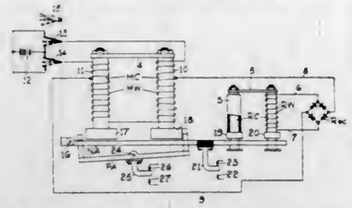
narrower than such distance when the sleeves are substantially raised, whereby when said sleeves are brought down from a raised position to a lowered position and said inserts pass through a substantially flat, unstretched condition, the arcs through which the edges of the sleeves pass bring such edges below the major portions of the inserts, whereby to ensure against downward sagging of the inserts.

2,314,227
COUPLING FOR TRANSMITTING TORQUES
Hans Lieberherr, Winterthur, Switzerland, assignor to Sulzer Frères, Société Anonyme, Winterthur, Switzerland
Application October 3, 1941, Serial No. 413,425
In Switzerland November 8, 1940
10 Claims. (Cl. 64—30)



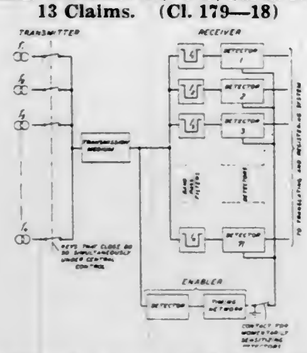
1. A coupling for transmitting torques, in which the frictional elements press on each other as long as the torques does not exceed permissible limits and are relieved so that they slide on each other when the torque exceeds such permissible limits, which comprises two axially movable rings for transmitting the torque each provided both inwardly and outwardly with spur-wheel teeth, the rings meshing with each other concentrically by means of a set of teeth, each ring having at least one set of inclined teeth, means pressing the frictional elements together, said rings being arranged in such a way between the means pressing the frictional elements together that the pressing elements are forced apart by the rings whether rotation is in one direction or in the other.

2,314,228
POLAR RELAY
Robert J. Little, Gates, and Thomas J. Judge, Rochester, N. Y., assignors to General Railway Signal Company, Rochester, N. Y.
Application September 13, 1941, Serial No. 410,724
9 Claims. (Cl. 175—320)



1. In a polar retained neutral relay, in combination, a main core, a retaining core spaced from the main core, a main winding on the main core, a retaining winding on the retaining core, a movable polarized armature magnetically associated with the main core, a movable neutral armature associated with both the main core and the retaining core, a full wave rectifier, circuit means conductively connecting the input side of the rectifier across the main winding and the output side of the rectifier across the retaining winding, and means for connecting electrical energy of either polarity across the main winding for energizing the said two windings in multiple.

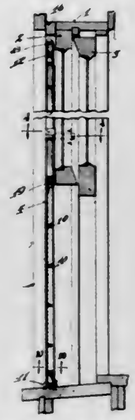
2,314,229
SIGNALING SYSTEM
Alexis A. Lundstrom, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 10, 1940, Serial No. 369,391
13 Claims. (Cl. 179—18)



1. A receiving circuit for a signaling system adapted for the transmission of plural frequency signals thereover comprising a filter device for each signal frequency, said devices having substantially identical phase characteristics and substantially equal band-pass widths, gas-filled electronic means in circuit with each of said filter devices normally unresponsive to currents passed through said filter devices, and means responsive to a signal impulse for sensitizing all of said electronic means for response to said impulse.

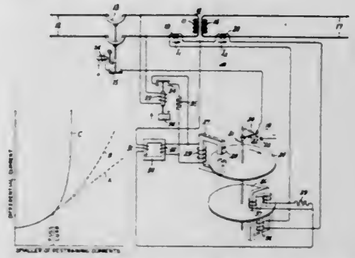
2,314,230
WINDOW GUARD AND SCREEN
Edmund H. Lunken, Springfield Township, Hamilton County, Ohio
Application May 20, 1942, Serial No. 443,754
9 Claims. (Cl. 160—92)

2. A combined window guard and screen, comprising: a pair of flanged side rails, grid bars in relative spacing interposed between said rails and having their opposite ends respectively fixed thereto, and a screen fabric having its opposite edges engaged between said grid bars and a flange longitudinal of each of the rails to confine the associated screen edge, the opposite ends of the screen each having a binding strip, the binding



strip for the upper end of the screen fabric adapted at its opposite ends to be fixed to said side rails, said fabric at its lower end looped about the lowermost grid bar bringing its lower end in a return direction upon an opposite side of the grid bars and connecting with one thereof.

2,314,231
PROTECTIVE SYSTEM
Andrew J. McConnell, Upper Darby, Pa., assignor to General Electric Company, a corporation of New York
Application July 25, 1941, Serial No. 403,983
16 Claims. (Cl. 175—294)

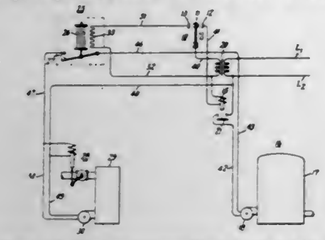


1. In an electroresponsive device for protecting a section of an electric circuit, a rotatable member, and means for exerting thereon a torque substantially proportional to I_D^2 and an opposing torque substantially proportional to the product of I_1 and I_2 where I_1 and I_2, respectively, are proportional to the currents flowing at each end of said protected section and I_D is proportional to the difference between I_1 and I_2.

2,314,232
AIR CONDITIONING CONTROL SYSTEM AND APPARATUS
David W. McLenegan, Caldwell, N. J., assignor to General Electric Company, a corporation of New York
Application July 1, 1942, Serial No. 449,254
3 Claims. (Cl. 236—44)

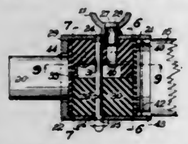
3. In a room air conditioning system, in combination, a thermostat responsive to variations in

the room air temperature from a desired value, automatic humidifying control means including a humidostat responsive to variations in the room air relative humidity, an electric local air heater for increasing the temperature of the air immediately adjacent said humidostat above the tem-



perature of the surrounding room air to regulate the response of said humidostat, and means controlled by said thermostat for energizing said heater only during the time the room air temperature is above said value.

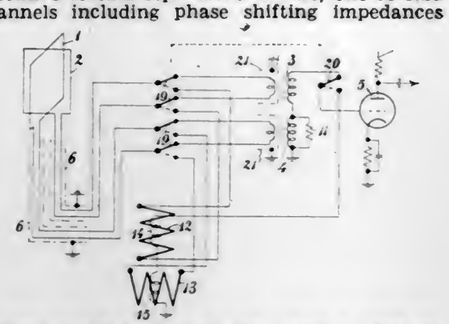
2,314,233
FLUORESCENT LIGHT SOCKET
William E. McSween, Cleveland, Ohio
Application March 31, 1941, Serial No. 386,088
1 Claim. (Cl. 173—328)



A lamp socket of the type used for fluorescent lamps having electric terminals and an auxiliary heater switch thereon, comprising in combination, a split tubular shell member having openings at oppositely disposed ends thereof and including a split dielectric body portion between the said openings, the said shell member and body portion having aligned radially extending openings between the ends thereof for receiving electric conductors, the said shell member also having resilient collar portions mounted thereon adjacent to one end of the body portion and engageable with the fluorescent lamp, a pair of bifurcated clip members electrically engageable with the said lamp terminals and mounted on the said body portion adjacent to the said collar portions and facing one of the aforesaid openings, and a pair of co-acting clamp members mounted on the opposite end of the body portion and adjacent to the other one of the said openings and aligned with the aforesaid pair of clip members, the said clamp members being engageable with the said heater switch terminals, one of the said clamp members having means thereon extending through the body member making electrical connection with the bifurcated clip member opposite thereto.

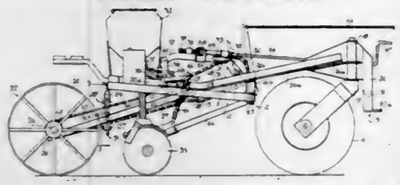
2,314,234
FRAME ANTENNA ARRANGEMENT
Karl Heinrich Meier, Zurich, Switzerland, assignor to Alfred Emil Herzer, Zurich, Switzerland
Application June 1, 1940, Serial No. 338,346
In Switzerland June 26, 1939
8 Claims. (Cl. 250—11)

1. In a frame antenna arrangement for broadcast reception, two stationary frame antennae having their reception planes disposed at right angles to each other, a common receiving member to be acted upon by both frame voltages, a plurality of separate conducting channels, and a switch device to selectively connect said frame antennas to said separate channels, one of said channels including phase shifting impedances



to effect phase shifting of one frame voltage before application thereof to the common receiving member for obtaining non-directional reception, the second channel including means which are mechanically adjustable to effect addition or subtraction of the frame voltages for obtaining directional reception.

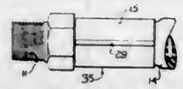
2,314,235
POWER LIFT
David M. Morris, Richmond, Ind., assignor to International Harvester Company, a corporation of New Jersey
Application June 21, 1941, Serial No. 399,151
4 Claims. (Cl. 97—244)



1. In a machine comprising a frame, a plurality of planting elements, means mounting the planting elements for movement between a lowered planting position and a raised transport position, covering-wheel means comprising two end sections and a middle section each composed of a shaft and a plurality of covering wheels connected thereto, the sections being arranged with the shafts independently rotatable and extending in generally the same direction, means connecting the covering-wheel sections to the frame, the combination with the planting elements and the middle covering-wheel section of power-lift means connecting the shaft of the middle covering-wheel section and the planting elements for causing the planting elements to be raised to transport position by rotation of the covering wheels of the middle section.

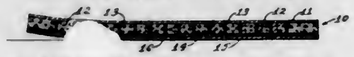
2,314,236
HIGH PRESSURE HOSE FITTING
Carl W. Mott, La Grange, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application December 29, 1939, Serial No. 311,650
3 Claims. (Cl. 285—84)

1. In combination, a hose, a fitting having a portion engaging the inside of a portion of the hose, a sleeve engaging the outside of the said portion of the hose, said portion of the hose being under a high state of compression by virtue of engagement thereof by the fitting and the



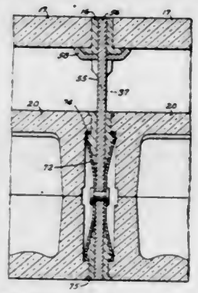
sleeve, the sleeve having an external fold extending from one end to the other, whereby cutting through of the fold permits easy removal of the sleeve and the fitting from the hose.

2,314,237
LAMINATED SOLE CONSTRUCTION
Jacques Muller, Crepieu Ain, France
Application July 13, 1939, Serial No. 284,182
In France January 12, 1939
11 Claims. (Cl. 36—30)



1. In a laminated sole construction a top layer, a bottom layer, a composite intermediate layer comprising relatively wide blocks of light weight material separated by relatively narrow strips of resilient material, and a layer of resilient material beneath the blocks and strips covering the adjacent edges of the blocks and strips, all of said layers being united to form a composite sole.

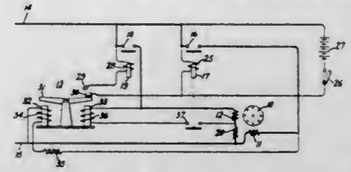
2,314,238
GLASS PANEL CONSTRUCTION
Julius J. Ohlis, Oak Park, Ill.
Application May 3, 1940, Serial No. 333,227
12 Claims. (Cl. 72—42)



1. In a structure of the class described the combination of a grid consisting of elements defining light transmitting openings; wired glass panes mounted in said openings at one extremity thereof; hollow glass blocks mounted in said openings at the other extremity thereof; and means securing said panes and said blocks in said openings, the means for securing said blocks comprising members mounted upon vertical faces of the grid elements and having laterally deflected resilient portions engaging said blocks.

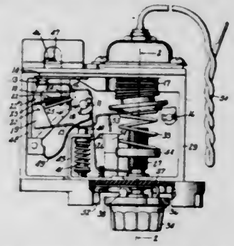
2,314,239
CONTROL SYSTEM AND DEVICE
Harold S. Ogden and Rembert C. Alley, Erie, Pa., assignors to General Electric Company, a corporation of New York
Application July 24, 1941, Serial No. 403,798
2 Claims. (Cl. 172—279)

1. In combination, a split phase alternating current motor having a running winding and a starting winding, means for connecting said running winding to an alternating current supply source, and a balanced beam motor starting relay comprising electromagnetic means for energizing said starting winding from said supply source in accordance with the voltage drop across said running winding and electromagnetic means



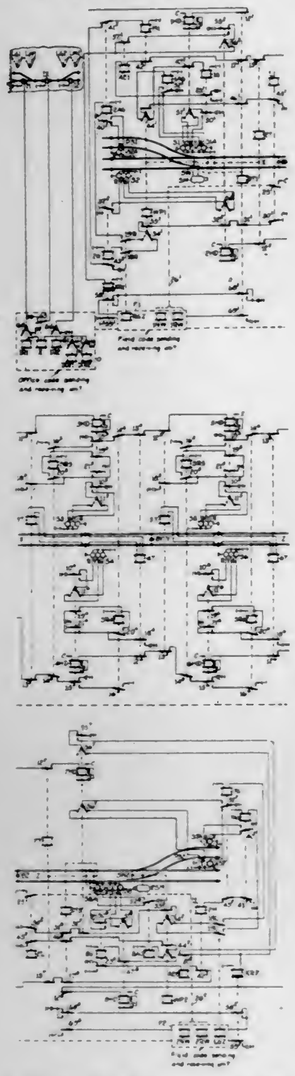
for disabling said starting winding in response to the voltage drop across said starting winding, said electromagnetic means being disposed in opposing relation to insure the disabling of said starting winding at a predetermined motor speed irrespective of variations in the voltage of said source of supply.

2,314,240
CONTROL DEVICE
Joseph W. Owens, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application December 31, 1941, Serial No. 425,153
6 Claims. (Cl. 200—83)



1. A control device comprising a switch member, a temperature responsive operating member, a spring forming an operating connection between said members for biasing said switch member from an open to a closed circuit position upon movement of said operating member in response to an increase in temperature, a stop member for limiting the open circuit position of said switch member to a predetermined normal position, a knob, a projection on said knob for moving said stop member to an abnormal position upon rotation of said knob to a predetermined position thereby to provide for an increased opening movement of said switch member whereby an increased movement of said operating member is required to move said switch member to a closed circuit position, resilient means in the path of movement of said operating member in moving said switch member to a closed circuit position normally not engaged by said operating member when said switch member is in said predetermined normal open position but engaged by said operating member during its said increased movement thereby to increase the required pressure by said operating member for operation of said switch member to its closed circuit position, and a second projection on said knob for engaging said switch member upon rotation of said knob to another predetermined position, thereby to hold said switch member in its open circuit position.

2,314,241
RAILWAY SIGNALING SYSTEM
Clark A. Pickell, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.
Application September 11, 1940, Serial No. 356,346
11 Claims. (Cl. 246—33)

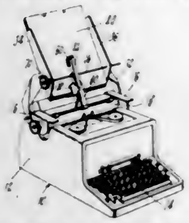


7. In a single track railway system having a stretch of single track between two passing sidings with starting signals for governing the movement of traffic into said stretch in each direction together with intermediate signals in the stretch, an absolute-permissive-block signaling system with superimposed manual control having relays associated with said starting signals for governing the indication of such signals to permit one or the other to display clear in response to manual control and at the same time cause the opposite starting relay to remain at stop, said system also permitting either starting signal to display caution or clear for a following train with one or two blocks spacing respectively, a single track indicator for indicating when illuminated the occupied condition of said stretch of track, and means controlled by contacts of the relays associated with both said starting signals for illuminating said indicator whenever either starting signal displays caution or stop due to the presence of a train in said stretch, said means being ineffective when a starting signal indicates stop due to said manual control.

2,314,242
PREPARATION OF EMULSIONS FOR WATERPROOFING AND FIREPROOFING PURPOSES
Rotheus B. Porter, Jr., Malden, Mass., assignor to Herbert B. Morse, Wellesley Hills, Mass.
No Drawing. Application May 22, 1940, Serial No. 336,602
4 Claims. (Cl. 106—15)

1. A normally liquid emulsified composition of matter comprising a preponderant proportion of an organic solvent solution of thermoplastic hydrocarbon as the continuous phase, a subordinate proportion of water as the disperse phase, and a relatively small amount of degras as dispersion-stabilizer, said disperse water phase containing dissolved therein a water-soluble fireproofing salt in amount sufficient to render said composition fire-resistant when dried.

2,314,243
SHEET MAGAZINE AND FEEDING DEVICE FOR TYPEWRITING MACHINES
Charles W. Potter, Waltham, Mass., assignor, by mesne assignments, to Atlantic Register Company, Waltham, Mass., a corporation of Massachusetts
Application August 9, 1940, Serial No. 351,984
3 Claims. (Cl. 271—42)

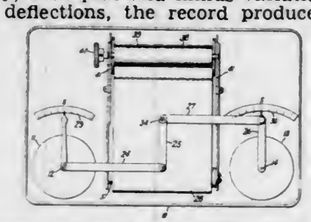


1. In a typewriting machine having a carriage and a platen roll supported thereon, an inclined rack mounted on said carriage above and behind said platen roll, said rack having an upturned flange along its lower edge to support a supply of sheets on the rack, a guide plate hinged to said flange and adapted to rest on the top sheet of said supply, a pusher movably mounted adjacent to said rack and operable to engage the top sheet frictionally and to slide it upwards until its lower edge is clear of said guide plate, and means for operating said pusher.

2,314,244
VOLT-AMPERE DEMAND RECORDER
William H. Pratt, Lynn, Mass., assignor to General Electric Company, a corporation of New York
Application April 30, 1941, Serial No. 391,145
2 Claims. (Cl. 171—95)

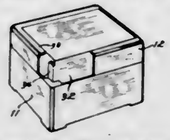
1. A recording instrument comprising a recording chart, a stylus recording on said chart, a voltmeter and an ammeter, both of the indicating

type, pivoted link members joining said stylus to the deflecting elements on said meters for moving said stylus over said chart in any direction in accordance with the joint plus and minus deflections of said meters and such that the change in position of the stylus produced by variations in deflection of the ammeter are at approximately right angles to the changes in the position of the stylus which are due to the variations in deflection of the voltmeter, said chart remaining stationary over a considerable recording period whereby, with plus and minus variations in the meter deflections, the record produced crosses



and recrosses itself repeatedly, such that the general shape, position and density of the composi' ·ecord produced gives a direct visual indica··· of the average character of the voltage current and voltampere load during such period and a scale calibrated with the instrument correlated with such record by means of which the extremities of the records thus produced give the maximum and minimum values of voltage, current and voltamperes and the voltage and current at the time of maximum and minimum voltampere demand.

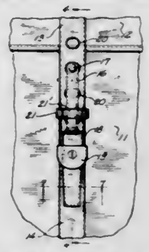
2,314,245
CLOSED RECEPTACLE OR CASE
Merrill L. Rathbun, Salamanca, N. Y.
Application January 12, 1940, Serial No. 313,553
3 Claims. (Cl. 220—23)



2. A closed receptacle for a displayable article comprising a pivotally connected body and cover, said cover being apertured, an article supporting member in said receptacle projecting into said cover and registering with said aperture, said member being locatable in said cover in upright or inverted position to expose or to conceal from view on article carried thereby, and means on said cover and said member cooperable to yieldingly secure said member to said cover in any pivotal position thereof.

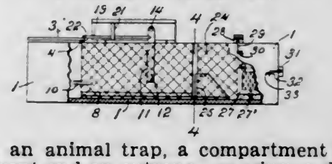
2,314,246
BUCKLE
Alois A. Ritter, Racine, Wis., assignor to Hartmann Trunk Company, Racine, Wis., a corporation of Wisconsin
Application October 8, 1942, Serial No. 461,354
8 Claims. (Cl. 24—207)

7. A fastening device, comprising a pair of complementary strap sections, the first strap section having an opening therein, a stud projecting from the second strap section and having a shoulder, and an elongated flexible, narrow tongue having its inner end portion turnably mounted on said stud, one turned position of the tongue permitting entrance of the same through said first strap opening and relative movement of said strap and tongue for engagement of said strap opening over the stud shoulder, and another turned position causing the tongue to over-



lie the apertured engaged end of the first strap section with both strap sections in overlapping relationship and preventing removal of the first strap section opening from the stud shoulder.

2,314,247
ANIMAL TRAP
Bernie A. Runyan, Quenemo, Kans.
Application September 29, 1941, Serial No. 412,701
3 Claims. (Cl. 43—61)

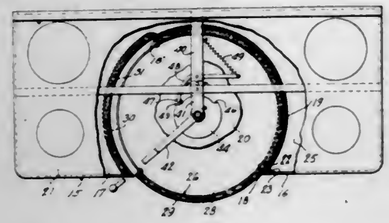


1. In an animal trap, a compartment having at its front end an entrance opening, a door for closing said opening, means suspending said door on a horizontal transverse axis so it may be swung outwardly from a vertical closed position to a forwardly extending horizontal open position, a trigger gate in and extending transversely across said compartment, spaced from the ends thereof, and having a stem extending upwardly through the top of said compartment, longitudinal guard means on top of said compartment and to which said stem is pivoted on a horizontal transverse axis so that said gate may be swung rearwardly from a normal closed vertical position to an open position, a longitudinal member pivoted at its rear end to said stem below the axis thereof and under and slidably engaging said guard means, and having its front end portion disposed, when said gate is vertical, in a position in which it is adapted to engage and hold said door open, and movable by said stem rearwardly to disengage from said door when said gate swings rearwardly to the open position, and means for closing said door when released.

2,314,248
STOVE CONSTRUCTION
Robert G. Rutledge, Ann Arbor, Mich.
Application October 6, 1941, Serial No. 413,891
11 Claims. (Cl. 126—39)

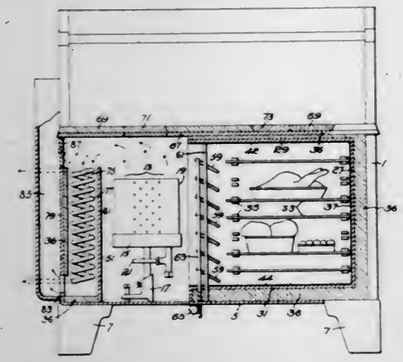
7. A stove having a pair of circular casings supported in concentric relation about a vertical axis, one of said casings having laterally spaced annular side walls and having an opening in one side thereof, insulation material arranged in the space between the side walls, the other of said casings having an opening in one side wall registrable with the opening in the first casing and having a double wall portion at one side edge of the opening therein of an area approximating the area of the opening in the first casing, insu-

lating material located between the walls of the double wall portion, and means supporting the casings for relative rotation about the vertical axis aforesaid to register the openings with each other upon relative rotation of the casings in one



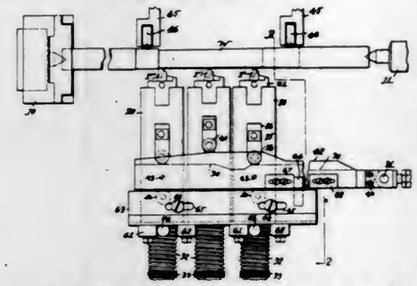
direction and to locate the insulated double wall portion of the second casing in registration with the opening in the first casing upon relative rotation of said casings in the opposite direction.

2,314,249
COOKING STOVE
Ralston M. Sherman, Glastonbury, Conn.
Application December 13, 1939, Serial No. 309,017
8 Claims. (Cl. 126—44)



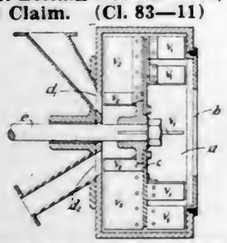
1. A cooking range having, in combination, a stove casing having an interior chamber and an upper wall forming a stove top, a fluid fuel combustion tube type heater in said chamber below said stove top adapted to discharge heated gaseous products of combustion vertically toward it, said heater having an upwardly extending combustion tube beneath said top exposed to the interior of said chamber and adapted to constitute a source of heat ray emission, an oven chamber in said casing, which oven chamber has an open side facing said tube of said heater whereby heat rays emitted by said tube may enter said oven chamber to heat it and vapor from said oven chamber may escape therefrom and mix with said products of combustion, said casing having an opening for discharge from said interior chamber thereof of the mixed gaseous products of combustion and oven vapors, which opening communicates with said interior chamber at the exterior of said oven chamber whereby such mixture will travel through paths wholly outside said oven chamber and said products of combustion will be prevented from entering said oven chamber and contaminating food therein.

2,314,250
RELEASE DEVICE FOR TAPER LATHES
Edwin R. Smith and George E. Fogarty, Seneca Falls, N. Y., assignors to Seneca Falls Machine Company, Seneca Falls, N. Y., a corporation of Massachusetts
Application December 2, 1941, Serial No. 421,360
1 Claim. (Cl. 82—14)



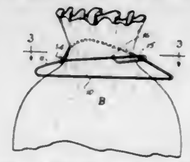
In a taper lathe having a rotated work piece and a cutting tool, in combination, a tool carriage movable axially of said lathe, a tool holder movable radially of the rotated work-piece, a taper bar, means to hold said taper bar from axial movement in said lathe but leaving said bar free to swing toward and from the work, yielding means to draw the tool holder against the taper bar and to draw the tool holder and taper bar away from the work, a pair of positioning levers mounted on axially separated pivots on said carriage and each having two cam surfaces spaced at greater and less distances from its pivot and coacting with a bearing surface on said taper bar, a pair of dogs engaging each lever and effective to shift said levers and advance or withdraw said taper bar and tool holder with respect to the work, a plate on which said dogs are adjustably secured, said plate being mounted on the tool carriage but slidable axially relative thereto, and additional dogs adjustably mounted on said taper bar and engaging a portion of said plate to slide said plate relative to said carriage and to thereby shift said positioning levers to advance or withdraw said taper bar a predetermined slight distance relative to the work and at predetermined points in the travel of the carriage.

2,314,251
PULVERIZING GRANULAR MATERIALS
Trevor Andrew Smith and Ronald Holloway Thompson, Spondon, near Derby, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
Application November 28, 1939, Serial No. 306,570
In Great Britain November 18, 1938
1 Claim. (Cl. 83—11)



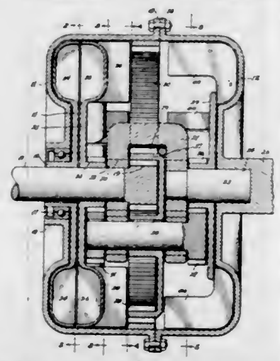
A pulverizing apparatus comprising in combination a cylindrical-shaped casing provided with an adjustable circular discharge orifice arranged substantially coaxial with a rotor element mounted for rotation within said casing, said rotor comprising a disc member on one side of which a plurality of relatively large, radial vane members are disposed at substantially right angles to the plane of said disc, said vanes being adapted to generate a stream of air within said casing upon rotation of said rotor, additional but smaller radial vane members disposed on an opposite side of said disc at approximately right angles to its face, said smaller vane members being adapted to prevent the generation of eddy currents in the air in the annular spaces between their inner edges and the projection of the circumference of the orifice towards the face of said rotor, and an inlet for introducing material into said casing to be subjected to the pulverizing action of said rotor.

2,314,252
DEVICE FOR CLOSING AND CARRYING CONTAINERS
John Franklin Springborn, Wellsburg, W. Va., assignor of one-half to Hammond Bag & Paper Company, Wellsburg, W. Va., a corporation of West Virginia
Application April 2, 1941, Serial No. 386,509
9 Claims. (Cl. 294—1)



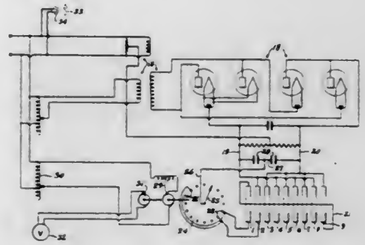
2. A combined closure fastener and handle formed from a piece of spring wire bent to form a handle and a noose, each of the ends of the wire forming the noose having a hooked portion to engage a relatively straight portion of the other end of the wire.

2,314,253
FLUID CONTROLLED TRANSMISSION
Virgil F. Stewart, Cleveland, Ohio
Application May 11, 1942, Serial No. 442,518
4 Claims. (Cl. 74—189.5)



1. A fluid controlled transmission comprising, in combination, a drive shaft; a rotatable casing on the shaft having an internal ring gear; a primary baffle member on the drive shaft; a spur gear on the shaft within the casing; a yoke in the casing carrying an intermediate ring gear having internal teeth meshing with said spur gear and external teeth meshing with said internal ring gear in the casing; an intermediate shaft driven by said double ring gear; a second spur gear driven by said intermediate shaft; a rotatable baffle member in the casing having a gear meshing with said second spur gear; and a driven element connected to the casing.

2,314,254
DEVICE FOR TESTING FOCAL PLANE CAMERA SHUTTERS
Trevor Temple, Tappan, N. Y., assignor to Electrical Testing Laboratories, New York, N. Y., a corporation of New York
Application June 3, 1939, Serial No. 277,329
3 Claims. (Cl. 176—124)

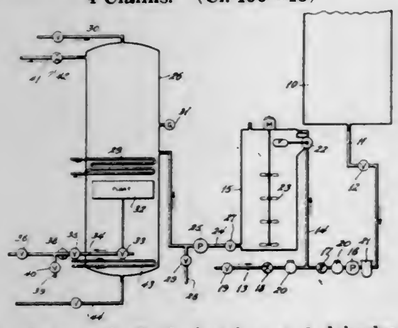


1. A device for determining the exposure time of a focal plane shutter, which includes a source of light composed of a plurality of gaseous discharge tubes in spaced parallel arrangement, a source of direct electric current for energizing said tubes, one electrode of some of said tubes being connected to the positive and one electrode of the others of said tubes being connected to the negative side of said source, two capacitors in series bridged between the positive and negative sides of said source, and a rotary commutator connected to a point of said bridging circuit between said capacitors and connectible to the other electrode of each of the aforementioned tubes adapted to complete the circuits to the tubes connected to the positive and negative sides of said source in sequence and in alternation at equal known time intervals.

2,314,255
PRODUCTION OF ALKYL ARYL SULPHONATES
Gilbert C. Toone, Hamburg, N. Y., assignor to Allied Chemical & Dye Corporation, a corporation of New York
No Drawing. Application June 13, 1940, Serial No. 340,325
11 Claims. (Cl. 260—505)

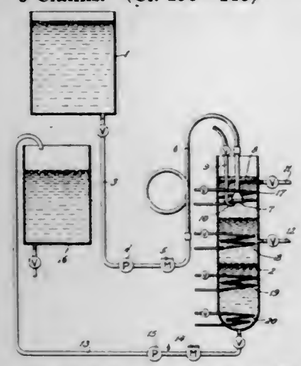
1. In the process for the preparation of mixed alkyl aryl sulphonates in which the alkyl groups are derived from a petroleum distillate which boils for the most part above 100° C., involving sulphonation of corresponding mixed alkyl aryl compounds, the improvement which comprises treating the mixed alkyl aryl compounds, prior to the sulphonation, with a phosphorus compound selected from the group consisting of hypo-, ortho-, meta-, and pyrophosphorous acids; hypo-, ortho-, meta-, and pyrophosphoric acids; phosphorus trioxide; phosphorus tetroxide; phosphorus pentoxide; phosphorus oxychloride; phosphorus trichloride; and phosphorus pentachloride, whereby the treated mixed alkyl aryl compounds upon sulphonation, neutralization, and drying are converted into dry mixed alkyl aryl sulphonates which can be stored without developing unpleasant odors to an undesirable degree for a longer period of time than a mixture of alkyl aryl sulphonates which has been prepared by the same process but omitting the treatment with a phosphorus compound.

2,314,256
METHOD OF AND APPARATUS FOR CLEANING AND DEHYDRATING OILY WOOD PRESERVATIVES
Joseph A. Vaughan, Atlanta, Ga., assignor to Southern Wood Preserving Company, Atlanta, Ga., a corporation of Georgia
Application May 5, 1941, Serial No. 392,010
4 Claims. (Cl. 196—15)



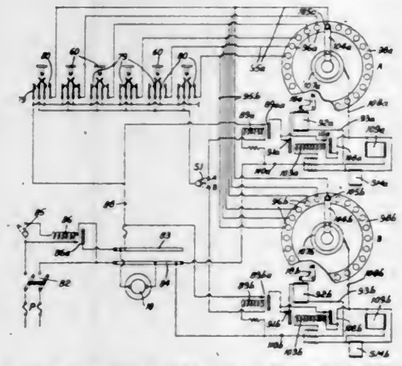
1. That method of cleaning and dehydrating a wood preservative consisting of coal-tar creosote and the like having a specific gravity greater than one, which comprises adding water to the preservative; agitating the water and preservative mixture; heating said mixture to a temperature of approximately 140° F. to 160° F. and separating the preservative and water by settling; and removing the cleansed preservative.

2,314,257
APPARATUS FOR AND METHOD OF CLEANING AND PARTIALLY DEHYDRATING OILY WOOD PRESERVATIVES
Joseph A. Vaughan and Joseph C. Vinson, Atlanta, Ga., assignors to Southern Wood Preserving Company, Atlanta, Ga., a corporation of Georgia
Application August 16, 1941, Serial No. 407,212
9 Claims. (Cl. 196—146)



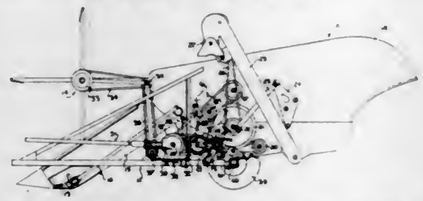
1. The method of cleansing and simultaneously partially dehydrating oily wood preservatives composed of coal-tar creosote and the like which is characterized by discharging the preservative in the form of a finely divided spray into a body of water to form a temporary emulsion; permitting the emulsion to separate at different levels into water soluble constituents, insoluble constituents or sludge, and cleansed preservative; removing accumulating sludge and preservative; and replenishing the wash-water to maintain the desired liquid level.

2,314,258
SORTING MACHINE OF THE MANUAL CONTROL TYPE
Thomas J. Watson, New Canaan, Conn., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application April 24, 1942, Serial No. 440,413
7 Claims. (Cl. 209—122)



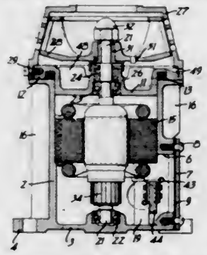
1. In a machine of the class described, the combination of a plurality of selectable movable carriers each provided with a plurality of sorting compartments, power means to move said carriers, compartment selecting means for predetermining the extent of movement of the carriers by said power means to select said compartments, means for feeding records disposed in a chute of the associated carrier to feed a record to the selected compartment, blocking means in each chute to prevent insertion of a record to be fed by said feeding means to a selected compartment, and means for operating said blocking means in accordance with the carrier selected for sorting operations to enable the feeding of the record into the compartment selected by said compartment selecting means.

2,314,259
HARVESTER-THRESHER
Albert B. Welty, Moline, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application December 23, 1939, Serial No. 310,698
3 Claims. (Cl. 130—27)



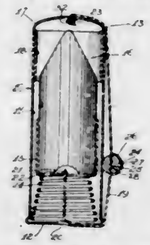
3. A thresher construction comprising a thresher part including a cylinder and other thresher mechanism, an axle supporting the draw frame, a drive shaft mounted on the draw frame, and a variable speed transmission device connecting the drive shaft and the cylinder including an adjustable pulley, a member supporting the pulley at one end, means pivotally and shiftably connecting the other end of the member and the axle, means acting between the axle and the said other end of the member for shifting the member, and means acting between the draw frame and the member for pivoting the member.

2,314,260
SIREN
Evan D. Williamson, San Francisco, Calif., assignor to E. D. Bullard Company, San Francisco, Calif., a corporation of California
Application July 2, 1940, Serial No. 343,573
4 Claims. (Cl. 177—7)



1. A siren comprising a housing having a wall, a motor in the housing and having a shaft projecting through said wall, a sounding rotor on the projecting end of the shaft, a ported stator disposed about the rotor, an inlet passage through the rotor for admitting air to the backside thereof, cooling fins on said wall and arranged to direct an outward movement of air initiated by the rotor, and an outlet for discharging air from the backside of the rotor.

2,314,261
LIPSTICK DEVICE
James L. Younghusband, Chicago, Ill.
Application May 4, 1942, Serial No. 441,750
1 Claim. (Cl. 206—56)



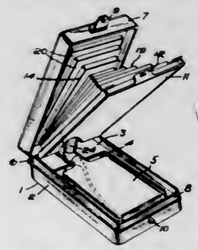
A lipstick device comprising a case having an open top, a bottom, and an opening adjacent its lower portion, a holder adapted to hold lipstick movable within said case, a closure adapted to removably close said open top, a spring positioned between the bottom of said holder and the bottom of said case, said spring adapted to exert upward pressure on said holder, a control member having an opening therethrough, a cord attached on one end to said closure and extending from said closure through said opening in said control member, then forming a loose loop back around the upper portion of said control member and then extending again through said opening in said control member, said cord passing through the opening in said case and attached at its other end to said holder, said control member of larger diameter than the opening in said case, said cord adapted to contact the walls within the opening of said control member for positioning of said control member so that when said closure is removed from the open top of said body member and released from control by the user, said control member will engage said case and stop the upward movement of the spring from projecting more than the upper portion of said lipstick, said control member adapted upon downward pressure thereon greater than the pressure of said spring to take up the slack of said loop for lengthening the cord above said control member thereby providing extended upward movement and further projection of the lipstick, said loop when tightened on said control member providing maximum projection of said lipstick but preventing ejection of the holder from the case, said cord adapted upon pressure from the user to pull said holder with its lipstick against the action of the spring back into said case, said cord of sufficient length to permit said closure to be removably positioned to cover said open top.

2,314,262
METHOD OF MAKING DISTENSIBLE BAG CATHETERS
George L. Winder, Cuyahoga Falls, Ohio, assignor to American Anode Inc., Akron, Ohio, a corporation of Delaware
Original application September 11, 1937, Serial No. 163,422. Divided and this application August 9, 1939, Serial No. 289,242
6 Claims. (Cl. 18—58)



1. A method of making a distensible bag catheter or similar article, which comprises producing a tubular rubber structure having at least two independent and substantially parallel passageways with one of said passageways opening through the tubular wall at a point between the ends thereof, associating a collapse-resisting reenforcement with the tubular structure in the region of said opening, separately providing a bulbous distensible bag having opposed tubular flanges, circumferentially grooving the tubular structure at spaced points on either side of said opening, placing the bag on the tubular structure with the flanges associated with the respective grooves, and coating the assembly with rubber to provide a relatively smooth exterior surface.

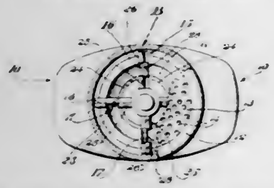
2,314,263
ATOMIZER
Harry C. Witt, Boston, Mass.
Application April 1, 1941, Serial No. 386,261
6 Claims. (Cl. 299—88)



6. As an article of manufacture, a casing, a cover for the casing hinged at one side thereof, a partition member associated with the cover, means for holding the partition in a fixed position in the casing, a bellows member mounted

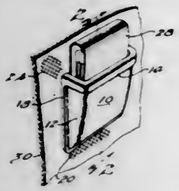
between the cover and the partition, atomizing means located at one side of the casing and being connected to the bellows, a platform located in the casing having an aperture therein, a liquid container received in said aperture, sealing means for the liquid container and means for resiliently maintaining the liquid container against the sealing means.

2,314,264
SHAVING APPARATUS
Victor R. Abrams, Maplewood, N. J., assignor to The Roto Shaver, Inc., New York, N. Y., a corporation of Connecticut
Application May 3, 1941, Serial No. 391,622
5 Claims. (Cl. 30—43)



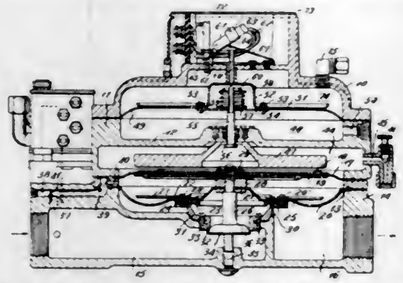
4. In a shaving device, the combination of a rotary blade support having at least one substantially radially directed slot therein, a plurality of relatively movable blade elements movably mounted in said slot, each blade element having a cutting edge portion of less length than said slot projecting in the direction of movement of said blade support, and said cutting edge portions being disposed in substantially end to end relationship.

2,314,265
MATCH PACKAGE HOLDER OR THE LIKE
Albert M. Albright, Detroit, Mich.
Application August 28, 1940, Serial No. 354,528
1 Claim. (Cl. 24—13)



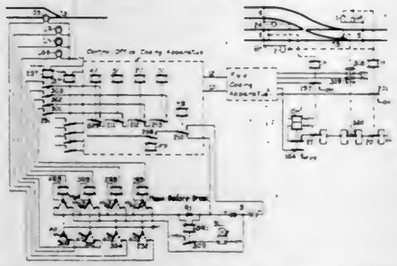
In combination, a rigid receptacle of generally box-like nature open on two adjacent faces thereof and devoid of walls in the planes of said open faces, said receptacle comprising a pair of side walls each having a straight rear edge and decreasing in width from the top thereof towards the bottom thereof, a front wall integral with and connecting the front edges of said side walls and extending from the top edges of said side walls downwardly and under the bottom edges of said side walls to the plane of the rear edges of the latter whereby to form a shelf-like bottom wall, the rear edges of said side and front walls being thickened to form an outwardly directed bearing flange, the upper edges of said side walls and said front wall being thickened to provide an outwardly directed flange in continuation of the first mentioned flange, and a pin-like element associated with each of said side walls and having one end thereof embedded in the corresponding of said side walls adjacent the upper edge thereof and extending downwardly in generally spaced and parallel relation with respect to the rear edge of the corresponding of said side walls.

2,314,266
THROTTLING REGULATOR
Vilynn O. Beam, Cleveland Heights, Ohio, assignor to The Bryant Heater Company, Cleveland, Ohio, a corporation of Ohio
Application July 14, 1939, Serial No. 284,503
14 Claims. (Cl. 236—80)



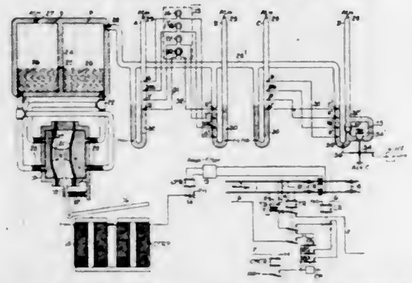
2. In a heating plant, a gas conductor, a regulator valve having a seat in direct communication with said conductor, a main valve having a seat in communication with said conductor through said regulator valve seat only, a pair of diaphragms parallel with said main valve seat, the first diaphragm being adjacent said main seat and carrying a valve piece adapted to cooperate with that seat to close the main valve, a regulator valve piece operatively connected with the second of said diaphragms for making contact with said regulator valve seat to close the regulator valve, and means for introducing line pressure from said conductor into the space between said diaphragms for closing both valves.

2,314,267
CENTRALIZED TRAFFIC CONTROLLING SYSTEM FOR RAILROADS
Frederick W. Brixner, Gates, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.
Application August 13, 1941, Serial No. 406,661
11 Claims. (Cl. 177—353)



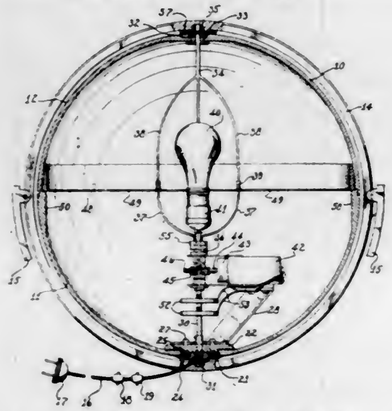
8. A combined visual and audible indicating system, a selector type communicating system transmitting by momentary impulses the condition of a movable device, a two position relay for visually indicating the position of said movable device, circuits for actuating said relay to one position or the other in accordance with the character of the momentary impulse transmitted characterizing the position of said device one of said circuits being an actuating circuit for operating said relay to said one of its two positions and the other circuit being an actuating circuit for operating said relay to said other position, means for opening the actuating circuit for actuating said relay to said one position when such relay has assumed said one position, and an audible signal included in series in said circuit for actuating said relay to one position but not in said circuit for actuating said relay to said other position, whereby said audible signal is sounded when said relay is actuated to said one position only and is not sounded upon the subsequent transmission of an impulse characterizing said one position until said relay again assumes said other position.

2,314,268
CODED CONTINUOUS INDUCTIVE TRAIN CONTROL SYSTEM
Charles S. Bushnell, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.
Application April 1, 1941, Serial No. 386,233
10 Claims. (Cl. 246—63)



1. In a train control system for railways, in combination with means for placing, on a trackway, control energy variously coded in accordance with traffic conditions ahead, a receiver positioned to receive the control energy, pressure producing means, an operative connection between the receiver and the pressure producing means to control the latter to produce various pressures in accordance with the respective energizations of the receiver, a plural aspect signal, circuit means for controlling the signal, and means in the circuit means respectively controlled by said various pressures produced by the pressure producing means, for causing the signal to display various signal aspects.

2,314,269
GLOBE CLOCK
Raymond R. Dupler, Toledo, Ohio
Application July 5, 1941, Serial No. 401,178
5 Claims. (Cl. 58—44)



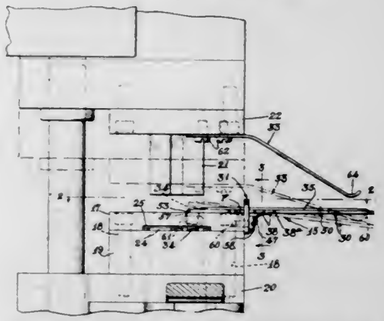
1. A clock comprising a support, a globe mounted for turning movements with respect to said support, a pair of aligned tubes projecting from the poles of said globe, a sleeve surrounding one of said tubes and connected to the other of said tubes, a time band mounted for turning movements with said sleeve, a motor in said globe for turning said sleeve, and means for turning said time band independently of said motor including a hand wheel fixed to said other tube adjacent the respective pole of said globe.

2,314,270
SKI BINDING
Theodore Elliott, Winchester, Mass.
Application January 25, 1939, Serial No. 252,769
8 Claims. (Cl. 280—11.35)



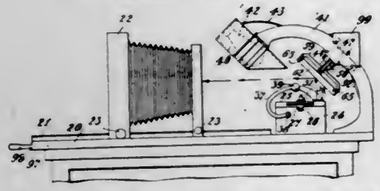
1. A ski binding comprising a tightening device affixed to a ski, a heel spring, a continuous flexible member extending from one end of the heel spring to the other, a sleeve covering said flexible member intermediate the ends thereof, said sleeve affixed to said flexible member and separable from said tightening device said tightening device having means for receiving and engaging said sleeve, and means for drawing said sleeve in a direction away from said heel spring.

2,314,271
AUTOMATIC DIE STOP STRUCTURE
Waldo L. Garberding, Chicago, Ill.
Application January 28, 1942, Serial No. 428,568
26 Claims. (Cl. 164—20)



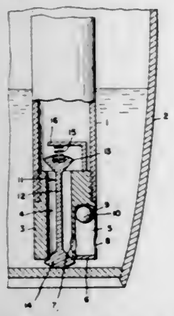
22. In combination in an automatic die stop unit, a generally flattened and elongated sheet metal lever arm having a longitudinal reenforcing rib pressed therein and defining a channel along one face of the arm, a stop pin fixedly secured to said face adjacent one end of the lever on the axis of said rib, the opposite side edges of an intermediate portion of the arm having series of alined notches therein, a bracket plate for mounting the arm upon a stripper plate, said plate having an aperture therethrough comprising two portions one of which is dimensioned to permit free longitudinal passage of the lever arm therethrough and the other of which is dimensioned to receive the lever arm at the notches, and a spring mounted upon the bracket and having an arm engaging within said channel to maintain a normal interengagement of the arm ad the bracket at a selected position of longitudinal adjustment of the arm as determined by the selected alined notches.

2,314,272
APPARATUS FOR PHOTOGRAPHICALLY REPRODUCING DISPLAY TYPE LINES AND THE LIKE
Louis Grudin, New York, N. Y.
Application January 24, 1941, Serial No. 375,827
15 Claims. (Cl. 95—4.5)



1. In photographic reproducing apparatus of the class described including a copy board for the subject matter to be reproduced, and a camera; the improvement which consists in a device for reflecting selectively different images of the same subject matter from the copy board to the camera, comprising a flexible mirror, a pair of oppositely disposed curved members supporting said mirror at its opposite longitudinal extremities, means supporting said curved members intermediate their ends and forming therewith a pair of pivots corresponding to the center line of the mirror, said means maintaining said mirror center line at a predetermined distance from the copy board with the subject in the vicinity of the principal focus of the mirror for a predetermined maximum degree of concave mirror curvature, and means for moving the opposite ends of said curved members with respect to the mirror center line to selectively provide concave and convex reflecting surfaces, of progressively different degrees of curvature, said first named means maintaining the different images in focus for the different reflecting surfaces and the different degrees of concave and convex mirror curvatures.

2,314,273
LIQUID TAPPING AND BLOWING LOSS ELIMINATOR
Ralph R. Gunderson, Detroit, Mich.
Application July 21, 1941, Serial No. 403,436
9 Claims. (Cl. 225—3)



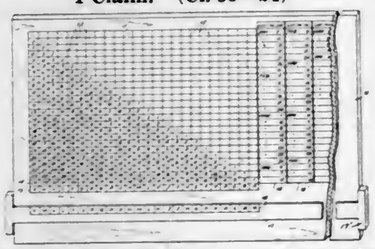
1. A liquid tapping and blowing loss eliminator comprising a member insertable into a liquid container and having a longitudinally extending passageway and a transverse port opening into the passageway, a valve for closing the passageway, means for holding said valve in open position when said member is in place in the liquid container, and a second valve dependent upon the level of the liquid in the container for closing the port.

2,314,274
SELF-LOCKING SETSCREW
Howard T. Hallowell, Jenkintown, Pa., assignor to Standard Pressed Steel Co., Jenkintown, Pa., a corporation of Pennsylvania
Application May 23, 1939, Serial No. 275,262
3 Claims. (Cl. 151—32)



1. A self-locking set screw having a frusto-conical working tip and having in the outer end of said tip an axially disposed cavity with inwardly convergent walls defining the inner face of a terminal rib and adapted when the screw is turned home to upset the work metal and to thereby embed itself in the work, at least one side face of said rib being formed so as to provide a circumferential series of small channels adapted to receive the said upset work metal to establish an interlock between the work and said tip, said channels terminating at points short of and in proximity to the outer terminal edge of said rib.

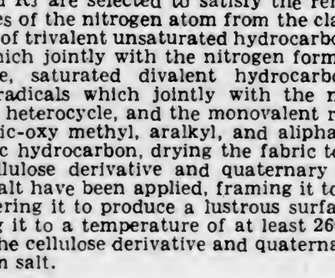
2,314,275
WORK SCHEDULING MEANS
Raymond C. Hanford, Aurora, Ohio
Application August 10, 1939, Serial No. 289,457
1 Claim. (Cl. 35—24)



In a device operable to communicate information of the scheduled time of performance of each of a multiple of work operations entering into a plurality of sets or lots of work, the operations entering into each set or lot being classifiable into classes and subclasses, a support, means mounted thereon bearing a plurality of series of equal graduations adapted to constitute time scales, said series of graduations being arranged side by side, one for each lot of work, and means mounted on said support bearing appropriate designations marking off spaces corresponding in depth to said graduations and arranged in columnar form from which may be selected any one of a a plurality of columns of different length representing classes for registration with the corresponding graduations of the different series, said spaces carrying therein sub-class indicia, whereby the time of performance for any subclass operation of any lot of work may be ascertained.

2,314,276
WORK SCHEDULING APPARATUS
Raymond C. Hanford, Aurora, Ohio
Original application August 10, 1939, Serial No. 289,457. Divided and this application August 12, 1942, Serial No. 454,542
1 Claim. (Cl. 35—24)

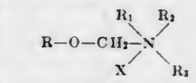
In a device operable to communicate information of the scheduled time of performance of each of a multiple of work operations entering into a plurality of sets or lots of work, the operations entering into each set or lot being classifiable into classes and subclasses, a support, means mounted thereon bearing a plurality of series of equal graduations adapted to constitute time scales, said series of graduations being arranged side by side, one for each lot of work, means mounted on said support bearing appropriate designations marking off spaces for class indicia, said spaces corresponding in depth to



said graduations and arranged in columnar form, and a transverse straightedge movable lengthwise of said time scales, said straightedge carrying a member parallel to said time scales bearing appropriate designations marking off spaces also corresponding in depth to said graduations and adapted for receiving subclass indicia, whereby selected class and subclass indicia may be brought into registration whereupon the straightedge will mark off the corresponding indicia on the various time scales.

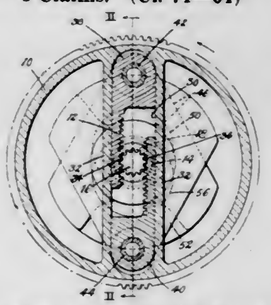
2,314,277
PROCESS FOR GLAZING FABRIC
Ira S. Hurd, Jenkintown, Pa., assignor to Röhm & Haas Company, Philadelphia, Pa.
No Drawing. Application May 23, 1939, Serial No. 275,214
10 Claims. (Cl. 117—166)

2. The process of imparting to the surface of fabrics a wash-resistant, glazed finish which comprises applying to a fabric a cellulose derivative selected from a member of the class consisting of water-soluble cellulose ethers and alkali-soluble cellulose ethers, treating said cellulose derivative in the presence of the fabric with a quaternary ammonium salt having the formula—



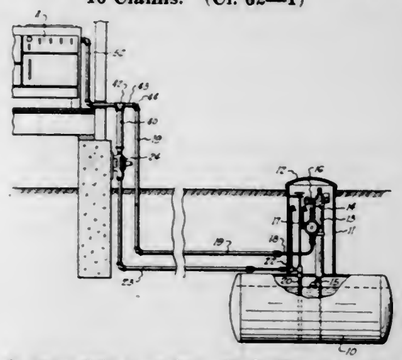
wherein R represents an aliphatic hydrocarbon group, X represents a salt-forming anion, and R_1, R_2, and R_3 are selected to satisfy the remaining valences of the nitrogen atom from the class consisting of trivalent unsaturated hydrocarbon radicals which jointly with the nitrogen form a heterocycle, saturated divalent hydrocarbon and ether radicals which jointly with the nitrogen form a heterocycle, and the monovalent radicals, aliphatic-oxy methyl, aralkyl, and aliphatic and alicyclic hydrocarbon, drying the fabric to which the cellulose derivative and quaternary ammonium salt have been applied, framing it to width, calendering it to produce a lustrous surface, and heating it to a temperature of at least 260° F. to react the cellulose derivative and quaternary ammonium salt.

2,314,278
MECHANICAL MOVEMENT
Lester E. James, deceased, late of Swampscott, Mass., by Mary B. James, administratrix, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application May 31, 1941, Serial No. 396,047
5 Claims. (Cl. 74—64)



1. In a mechanical movement, a rotatable driving member, a driven pinion mounted coaxially of the driving member, a guideway formed in the driving member and extending radially thereof, a plurality of racks slidably mounted in the guideway and making engagement with the pinion, a pin carried by each of the racks, pivots positioned eccentrically of the pinion upon opposite sides of the axis thereof, and links connecting the pins and the pivots.

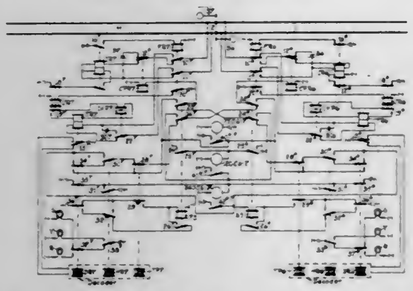
2,314,279
METHOD OF AND SYSTEM FOR VAPORIZING HYDROCARBON LIQUIDS
Sam P. Jones, Dallas, Tex.
Application December 23, 1940, Serial No. 371,364
16 Claims. (Cl. 62—1)



1. A vaporizing system including, a storage tank having a hydrocarbon liquid stored therein, a gas chamber communicating with the upper end of the tank for receiving the vapors rising from said stored body of liquid, a supply conductor extending from the tank for conducting liquid therefrom, means for vaporizing the liquid passing through said conductor to produce a gas, means connected in the conductor for regulating the pressure of the gas passing from the conductor to maintain a predetermined pressure in said conductor beyond said regulating means, means for establishing communication between the conductor beyond said regulating means and the gas chamber, and a valve in said last-named means normally closed to prevent flow of gas from the gas chamber to the conductor, said

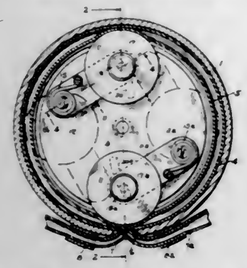
valve being responsive to pressure in the conductor and being automatically opened when the pressure in the conductor falls below a predetermined point.

2,314,280
CODED TRACK CIRCUIT SIGNALING SYSTEM
Thomas J. Judge, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.
Application July 9, 1941, Serial No. 401,607
22 Claims. (Cl. 246—33)



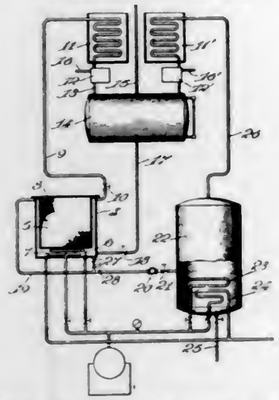
1. In a coded track circuit; the combination with a section of track; a driven code transmitter and a track relay at each end of said section; a selecting means at each end of said section for connecting either said track relay or said driven code transmitter for that end of said section to the track rails; means including timing means at each end of said section effective after an interval of time to apply an inverse code impulse to said track section immediately after the reception of a driven code impulse and to then actuate said selecting means to substitute the driven code transmitter for said track relay; and means at each end of said section responsive to an inverse code impulse to actuate the selecting means so as to substitute the track relay for the driven code transmitter.

2,314,281
PUMPING APPARATUS
Emmet K. Knott, Seattle, Wash.
Application March 28, 1941, Serial No. 385,727
4 Claims. (Cl. 103—149)



1. Pumping apparatus comprising a casing defining an internal circular groove, a rotor element journalled in said casing, a length of collapsible elastic tubing formed into an annular course within said casing and lying in said groove, said rotor comprising a disc, a pair of spring extended arms each pivotally mounted at one end on said disc, a roller carried by the free end of each of said arms, and depressor pins carried by said arms extending thru slotted apertures formed in said disc, said rollers normally being adapted to ride in and to engage the sides of said casing groove, said depressor pins constituting manual manipulating means for moving said rollers into and out of engagement with said casing groove.

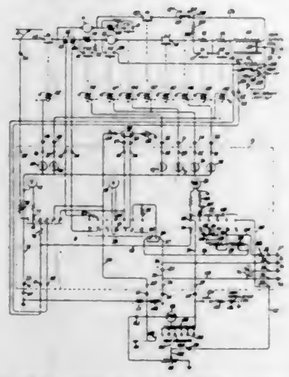
2,314,282
METHOD OF TREATING CEREAL GRAIN GERM
Ezra Levin, Chicago, Ill.
Application August 6, 1936, Serial No. 94,709
13 Claims. (Cl. 99—80)



1. A finished stable, marketable, non-toxic and palatable dry food product with a high content of vitamin B, consisting of all the constituents of natural grain germ except the oily constituents thereof and with such constituents unimpaired and in the same condition as in the natural germ.

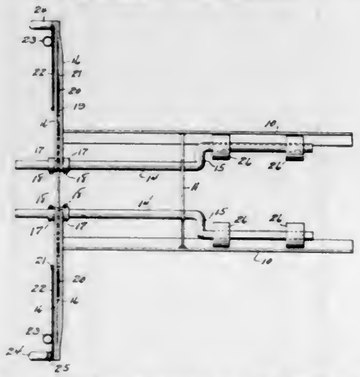
5. The process of making a finished stable, dry, marketable non-toxic and palatable food product consisting of extracting from natural grain germ all of the oil with a heated solvent of the class consisting of chlorine derivatives of the lower molecular weight paraffins and subsequently completely removing the solvent from the germ at a temperature and acidity to maintain the vitamin B and vitamin B_4 content unimpaired.

2,314,283
RAILWAY CONTROL ANALYZER
Ira W. Lichtenfels, St. Louis, Mo., assignor to General Electric Company, a corporation of New York
Application April 29, 1941, Serial No. 390,956
2 Claims. (Cl. 175—183)



1. A railway control analyzer circuit comprising a pilot motor having a pair of terminals, one of which is referred to as a ground terminal, a current source having a pair of terminals, one of which is grounded, a connection between the ungrounded terminal of said pilot motor and said current source, a calibrated resistor connected in a ground lead between the grounded terminal of the current source and the ground terminal of the pilot motor, a current-responsive instrument connected on one side to the grounded terminal of the current source and adapted to be connected on the other side to the ground terminal of the pilot motor and a switch interposed between the ground terminal of said pilot motor and said resistor, whereby said instrument measures voltage applied to said motor before the switch is closed and measures current therein after the switch is closed.

2,314,284
ROLLER LIFTER
Merrell R. Martin, Gilbertsville, Ky.
Application January 28, 1942, Serial No. 428,631
4 Claims. (Cl. 254—1)

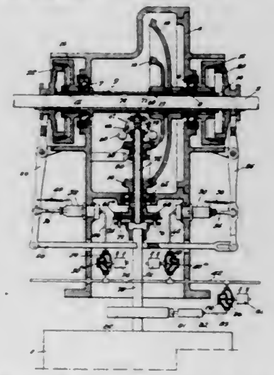


1. A roller lifter adapted to lift the track rollers of the caterpillar type tractor or other machine into position for bolting them to the machine frame, comprising a pair of spaced bars, a plate connecting the bars together at their mid portions, a plate connecting the bars together at one end having spaced arcuate racks on the upper edge, a pair of crank shafts journaled in aligned bearing openings in both plates, the cranks of the shafts being disposed between the ends of the shafts and forwardly of the first named plate, a pair of levers secured to the crank shafts for rotating the crank shafts, pawls slideably mounted on the levers spring pressed to engage respective arcuate racks, and a pair of spaced rollers on the crank shafts adjacent to the cranks thereof adapted to be engaged with the track or other rollers to be lifted, movement of the levers through an arc turning the crank shafts to raise and lower the first named rollers for moving the track rollers correspondingly.

2,314,285
CLEANING METAL SURFACES
Oliver M. Morgan, Snyder, N. Y., assignor to Allied Chemical & Dye Corporation, a corporation of New York
No Drawing. Application March 30, 1938, Serial No. 198,909
18 Claims. (Cl. 204—145)

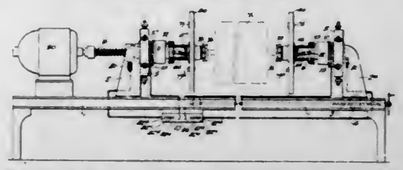
7. In the process of cleaning metal surfaces involving removal of greasy residues by treatment with an alkaline aqueous cleansing composition, the improvement which comprises immersing the metal to be cleaned in a hot aqueous alkaline cleansing bath containing per gallon of water one-eighth to one ounce of an alkyl aromatic sulfonate having at least 7 carbon atoms in an alkyl radical, as a cleansing assistant and as an emulsifying agent for the residues, while passing an electric current through said bath and through said metal as an electrode.

2,314,286
GEAR DRIVE FOR CENTRIFUGAL MACHINES
Charles A. Olcott, West Milford, N. J.
Application May 24, 1938, Serial No. 209,780
5 Claims. (Cl. 210—71)



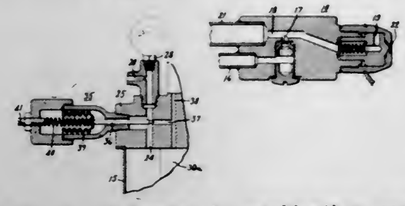
3. The combination of a series of upright centugal separators, vertical operating shafts for said respective separators, a main horizontal driving shaft, two sets of connections between said horizontal shaft and each of said vertical shafts serving to drive the respective vertical shafts positively at widely different speeds, and controlling means operable to throw said sets of connections for each separator into and out of operation selectively.

2,314,287
BALANCING MACHINE
Demetrios K. Pope, Gary, Ind.
Application September 2, 1939, Serial No. 293,283
11 Claims. (Cl. 73—53)



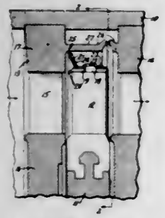
6. A balancing machine comprising a rotatably mounted spindle for yieldingly supporting an end of a body the dynamic balance of which is to be tested, a member mounted on said spindle to rotate therewith and to also rotate relatively thereto and having a balancing weight adjustable radially thereon, a toothed element concentric with and attached to said member, means carried by the spindle and cooperative with said toothed element for rotating said member relatively to the spindle, means for locking said member to the spindle, a solenoid carried by said spindle and common to said rotating and locking means for operating them to successively unlock said member, rotate it and then re-lock it, and relatively stationary means connected to said solenoid for controlling its operation.

2,314,288
OIL RATE CONTROL FOR BURNERS
William A. Reed, West Caldwell, N. J., assignor to General Electric Company, a corporation of New York
Application September 26, 1940, Serial No. 358,387
5 Claims. (Cl. 158—36.3)



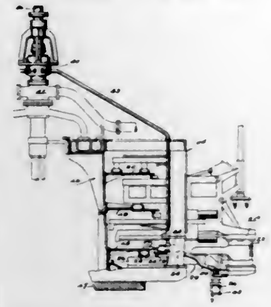
1. In an oil burner, in combination, means providing a chamber for mixing oil and air under pressure and having a thin walled oil flow regulating inlet orifice for discharging oil into said chamber, discharge means connected with said mixing chamber for discharging said oil and air mixture under pressure to atomize the oil, means including a variable pressure oil and air supply chamber having separate oil and air connections communicating with the opposite sides of said oil flow regulating inlet orifice for supplying oil and air under pressure to said mixing chamber, variable air flow regulating means including a plurality of different size orifice elements, each adapted for mounting in said air pressure supply connection for correspondingly varying the rate of oil flow through said oil regulating inlet orifice and the pressure drop of the air supplied to said mixing chamber, and pressure control means having an adjustable element for regulating the pressure in said oil and air supply chamber to vary the pressure of the mixture supplied from said mixing chamber to said discharge means and correspondingly vary the rate of oil flow through said oil regulating inlet orifice.

2,314,289
ELASTIC FLUID TURBINE
John Kenneth Salisbury, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application May 24, 1941, Serial No. 395,073
5 Claims. (Cl. 253—76)



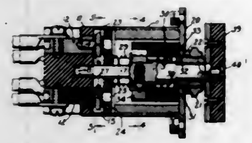
1. Elastic fluid turbine comprising a casing member, a diaphragm member disposed within and supported on the casing member and forming an inner cylindrical sealing surface, a rotor having a bucket wheel with a row of buckets cooperatively associated with the diaphragm member, and sealing means to reduce leakage of fluid around the tips of the buckets, said sealing means comprising a plurality of sealing strips each having a portion secured to an outer portion of the bucket wheel and a flexible portion inclined to the radial plane of the bucket and with an outer sealing edge in proximity to said sealing surface.

2,314,290
GLASS MOLDING MACHINE
Charles B. Smith and John R. Johnson, Alton, Ill., assignors to Owens-Illinois Glass Company, a corporation of Ohio
Application September 18, 1941, Serial No. 411,406
3 Claims. (Cl. 49—19)



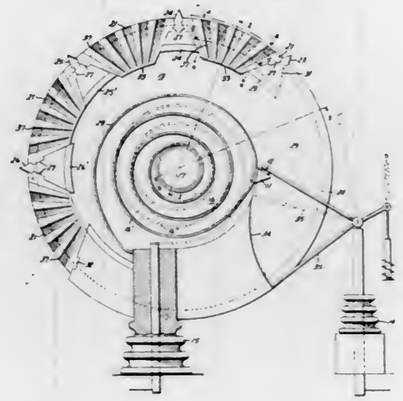
1. The combination of a rotatable mold carriage, a mold on the carriage, means providing a vacuum line rotating with the carriage, a valve in said line, automatic means for opening the valve including a stationary cam, a slide mounted on the carriage, means actuated by the cam for moving the slide in one direction, means actuated by the slide for opening the valve, a holding pawl arranged to engage the slide and hold it in position for holding the valve open, and automatic means for releasing said pawl and permitting the mold to close when the carriage reaches a predetermined position during its rotation.

2,314,291
CONTROL DEVICE
Laurens A. Taylor, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Original application June 19, 1940, Serial No. 341,313. Divided and this application June 2, 1941, Serial No. 396,323
4 Claims. (Cl. 200—104)



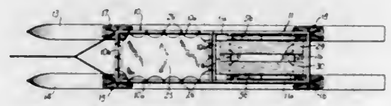
1. A control device comprising a plurality of stationary contacts, a rotatable shaft, a contact mounted on said shaft and movable with said shaft selectively into engagement with said stationary contacts, a magnet coil surrounding said shaft, said shaft forming part of a magnetic circuit for said coil, a pole piece for said coil spaced from said shaft having a pole face substantially parallel with said shaft, spring means for biasing said shaft to a predetermined angular position in which said movable contact is in engagement with a predetermined one of said stationary contacts, an armature mounted on said shaft and movable upon rotation of said shaft against the force applied by said spring means toward said pole face into abutting relation therewith to a position to be held by said pole piece with said movable contact in engagement with a second of said stationary contacts, and connections connecting said second stationary contact in circuit with said coil.

2,314,292
ELECTRIC ARC-EXTINGUISHING APPARATUS
Oliver C. Traver, Drexel Hill, Pa., assignor to General Electric Company, a corporation of New York
Application October 2, 1940, Serial No. 359,371
12 Claims. (Cl. 200—147)



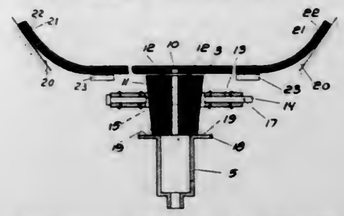
1. In an electric arc-extinguishing apparatus comprising an insulating arc chute into which the arc to be interrupted is directed having side walls disposed in closely spaced parallel relationship so as to form a narrow arc space therebetween, said walls on the sides facing each other having thereon in projecting relation interleaving ridges extending substantially transversely of the path of said arc, the ridges of one wall being spaced with respect to the interleaving ridges of said other wall and said ridges being so shaped and disposed as to provide for the arc a continuously lengthening path between said side walls which is zigzag transversely to the normal direction of arc expansion, said ridges being progressively thickened in the direction of arc expansion to effect a gradual squeezing of the arc along its whole length to force it into more intimate contact with said arc chute to cool the same rapidly.

2,314,293
KNAPSACK CONSTRUCTION
Tomas N. Tyndall, Yosemite National Park, Calif., assignor of forty-five per cent to Benton W. Blair, Bronxville, N. Y., and ten per cent to Joseph L. Lamia, Flushing, N. Y.
Application March 18, 1941, Serial No. 383,911
11 Claims. (Cl. 280—11.37)



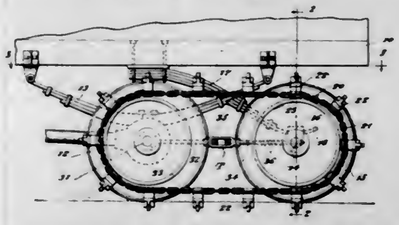
1. In a knapsack adapted to be connected to a pair of skis to form an emergency ski-sledge, in combination, a framework, said framework comprising a pair of hingedly connected sections, said sections when folded on said hinges forming a knapsack, and means for detachably connecting said framework when unfolded to said skis to form a ski-sledge.

2,314,294
APPARATUS FOR FILTERING AND WASHING SOLID MATTER
John Gunnar Wallny, Landskrona, Sweden
Application May 5, 1939, Serial No. 272,036
In Sweden July 16, 1937
7 Claims. (Cl. 210—197)



1. In filtering apparatus, an endless band, spaced drums rotatably supporting said band, a sheet-like filter arranged over said band, a suction box under said band, a belt arranged intermediate said band and said suction box, said belt being of substantially less width than said band and having a flat surface for air-tight engagement with the top of said suction box, means for sealing the top of said belt with respect to the under surface of said band, said belt having passages therein adapted to communicate with the suction box, said band having a plurality of apertures therein aligned with the passages in said belt, and rotatable means supporting and moving the belt over said suction box at a rate corresponding to the speed of the band.

2,314,295
VEHICLE TRACTION DEVICE AND TIRE LUG
Jacob Wampfler, Riegelsville, Pa.
Application June 21, 1941, Serial No. 399,189
2 Claims. (Cl. 305—9)

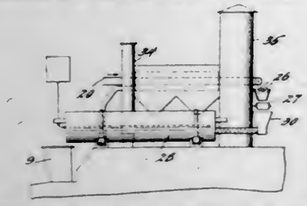


1. In combination with a vehicle having a driving axle and supporting driving wheels, an auxiliary axle located adjacent the driving axle, idler wheels carried by the auxiliary axle, a tractor element carried by the wheels and spanning the wheels, spring means carried by the vehicle, said spring means provided with an upwardly curved extension end, a lug carried by the auxiliary axle and having a guiding slot for receiving said upwardly curved extension end for yieldably holding the idler wheels in contact with the surface of the road over which the vehicle may be passing, the upwardly curved end providing a rocking and sliding action through the guiding slot as the spring means flexes.

2,314,296
APPARATUS FOR TREATING CEMENT RAW MATERIAL AND THE LIKE
Carlo Wanner, Barcelona, Spain
Application April 25, 1941, Serial No. 390,420
4 Claims. (Cl. 263—32)

1. In apparatus for preparing cement raw material and the like in the form of slurry or sludge for introduction into a kiln, the combina-

tion with means for filtering the material to remove excess liquid therefrom, of a gas permeable conveyor for receiving the filtered material in a relatively thin layer, means for forcing hot waste kiln gases downwardly through the material and the conveyor to dry the material, means for crushing the dried material, means for supplying moisture to the crushed material and simultaneously agitating the same to form the material into lumps or nodules of relatively small size, and means for delivering the nodules to a second gas permeable conveyor for a partial calcining operation prior to introduction thereof into the kiln.



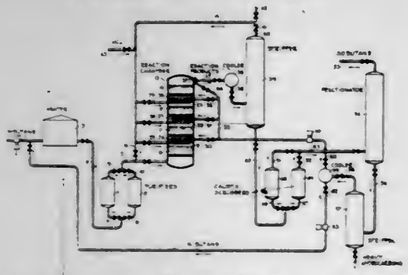
2,314,297

PROCESS OF ISOMERIZATION

Claude W. Watson, Tuckahoe, N. Y., assignor, by mesne assignments, to The Texas Company, New York, N. Y., a corporation of Delaware

Application March 29, 1941, Serial No. 385,837

11 Claims. (Cl. 260—683.5)



1. In the process of isomerizing normal paraffin hydrocarbons to isoparaffins wherein a stream of said normal paraffin hydrocarbons at conversion temperatures is passed through an isomerization catalyst in the presence of a promoter for said catalyst, the improvement which comprises increasing the concentration of promoter in said stream of normal paraffin hydrocarbons during the passage through said catalyst.

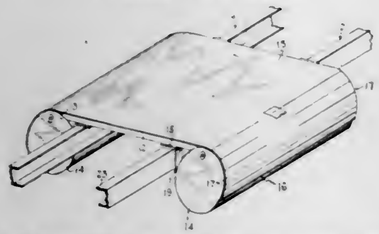
2,314,298

TANK MOUNTING

Russel Welch, Detroit, Mich., assignor of one-half to James H. Turner, Detroit, Mich.

Application April 16, 1941, Serial No. 389,895

7 Claims. (Cl. 280—5)



3. A structure of the class described comprising: a pair of spaced apart supporting rails; a pair of tanks, said supporting rails being connected at their opposite ends to said tanks; and a plate resting upon and extending at its opposite ends beyond the ends of said supporting rails and connected at its opposite ends to the periphery of said tanks.

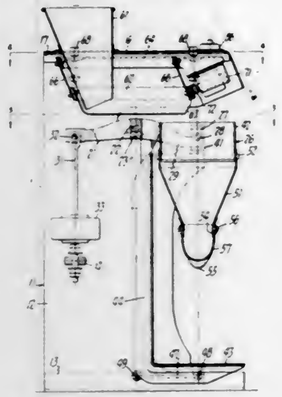
2,314,299

WEIGHING MECHANISM

Edric W. Vredenburg, Oakland, Calif.

Application September 26, 1939, Serial No. 296,579

2 Claims. (Cl. 249—42)



1. In a device of the class described, means for receiving a batch of a material, a lever, means oscillatably supporting said lever intermediate its end with said receiving means at one end thereof, counter weight means for said receiving means and said batch of material carried at the other end of said lever, material supply means, a conduit receiving material from said supply means and including a portion extending substantially horizontally adjacent an end whereat material is discharged into said receiving means, electrical vibrating means operable at different rates, means supporting said conduit for at least a limited degree of free motion, electrical circuit including said vibrating means for vibrating said conduit rapidly and at a first rate to move material therein over and off said conduit end into said receiving means, another electrical circuit including said vibrating means for vibrating said conduit rapidly but at a rate less than said first rate to discharge material over and off said conduit end into said receiving means, a plurality of switch means for controlling selectively energization of each of said circuits and operation of said electrical vibrator means, each switch means being fixed in position cooperatively adjacent to said lever support means and having only a limited free movement between open and closed position to control said vibrating means, and a motion transmitting lever system operated by oscillation of said lever to transmit to only a reduced extent to said switch means motion of said lever.

2,314,300

CHILLING MEAT

Beverly E. Williams and Leon L. Cadwell, Chicago, Ill., assignors to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware

Application March 2, 1940, Serial No. 321,832

4 Claims. (Cl. 99—174)

1. The method of treating beef and lamb carcasses to obtain improved flavor and tenderness

which comprises skinning the carcass, promptly applying a brine moistened cloth to the freshly skinned surface of the meat, then applying to the warm clothed carcass an insulating bag before



substantial dissipation of the animal heat has occurred, and subjecting the clothed and insulater carcass to a refrigerated atmosphere whereby delayed and uniform cooling is produced.

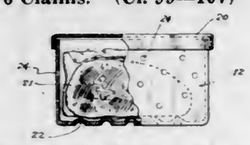
2,314,301

METHOD OF AGING MEAT

Beverly E. Williams, Chicago, Ill., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware

Application February 24, 1941, Serial No. 380,172

6 Claims. (Cl. 99—107)



1. The method of aging fresh meat which comprises confining the meat in a ventilated aging zone, surrounding said zone with refrigerated air at aging temperatures and at humidities tending to cause dehydration, correlating the size of said aging zone, the amount of meat therein and the degree of ventilation whereby the evaporation of moisture from the meat raises the humidity in said zone to a point not greatly below the saturation point and sufficiently high to promote aging without substantial dehydration but insufficiently high to cause mold and slime formation, and maintaining the meat in said aging zone for sufficient time to obtain aging.

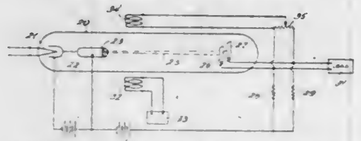
2,314,302

ELECTRONIC TRANSLATING DEVICE

Herbert Ziebolz, Chicago, Ill., assignor to Electronbeam, Incorporated, Chicago, Ill., a corporation of Delaware

Application November 4, 1941, Serial No. 417,871

19 Claims. (Cl. 250—151)



19. Electronic translating apparatus comprising, in combination, a cathode ray tube having means for forming a cathode beam and means for intercepting the beam, an input system applying a deflecting force to the beam to vary the amount of interception by the intercepting means in accordance with signal variations, and a system responsive to the amount of interception by the intercepting means for establishing a force in opposition to the deflecting force of said input system, said opposing force varying synchronously with said signal variations and thereby establishing equilibrium between the two opposing forces.

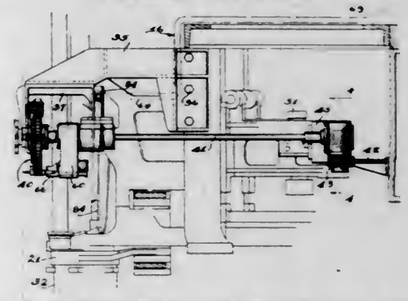
2,314,303

GLASS BLOWING MACHINE

Joseph P. Benoit, Alton, Ill., assignor to Owens-Illinois Glass Company, a corporation of Ohio

Application December 12, 1940, Serial No. 369,834

6 Claims. (Cl. 49—19)



6. A machine for forming hollow glass articles comprising a rotatable mold carriage, a mold thereon, an air line extending to the mold, a valve in said air line, means for actuating the valve comprising a drive shaft journalled on the mold carriage, a stationary ring gear, driving gearing between said ring gear and drive shaft for rotating the latter in synchronism with the rotation of the mold carriage, said driving gearing being proportioned and arranged to impart one complete rotation to the drive shaft during each complete rotation of the carriage about its axis, a cam roll connected to rotate with the drive shaft, operating connections between the cam roll and the valve, a cam carrier, cams removably mounted on the carrier and arranged to project into the path of the cam roll a predetermined distance, and auxiliary cams removably mounted on certain of said first mentioned cams and projecting into the path of the cam roll a greater distance than said first mentioned cams for effecting a comparatively wide opening of the valve, said auxiliary cams extending a comparatively short distance in the direction of travel of the roll for causing the valve to be opened for correspondingly short durations.

2,314,304

DISPLAY BOX

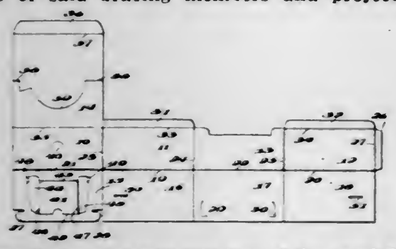
Lawrence F. Brennell, Chicago, Ill., assignor to Wells Lamont Corporation, a corporation of Minnesota

Application June 9, 1941, Serial No. 397,306

6 Claims. (Cl. 206—44)

1. In a paper box having front, back, end and bottom walls, an easel comprising a flap cut in the bottom wall inwardly of the edges thereof and bendable outwardly from the plane of the bottom wall into box-supporting position along a fold line located in the bottom wall adjacent, but inwardly of and parallel to, one edge of said wall, bracing members also cut in the bottom

wall formed integrally with the opposite side edges of the easel flap, said bracing members being foldable into positions angular to said flap, locking tabs formed integrally with the upper ends of said bracing members and projecting



outwardly beyond said fold line of the easel flap, and slots formed in an adjacent area of the bottom for receiving the tabs for securing the easel flap into box-supporting position.

2,314,305

MONO-ETHERS OF CHLORO-ALKYL ACETALS

Edgar C. Britton and Clarence L. Moyle, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application February 6, 1941, Serial No. 377,655
6 Claims. (Cl. 260—613)

1. A mono-ether of a chloro-alkyl acetal, said compound having the general formula:

$$Cl-CH_2-CH(R')-O-CH(R)-O-CH(R')-CH_2-O-R''$$

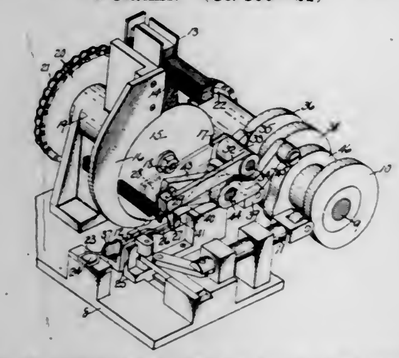
wherein R and R′ each represents a member of the group consisting of hydrogen and alkyl radicals containing not more than 3 carbon atoms and R″ represents a member of the group consisting of monovalent aliphatic radicals and aromatic radicals.

2,314,306

PROCESS FOR MAKING BRUSHES

Henry Cave, Hartford, Conn., assignor to The Fuller Brush Company, Hartford, Conn., a corporation of Connecticut

Application February 26, 1941, Serial No. 380,691
5 Claims. (Cl. 300—21)



1. A process for making a brush that consists in placing a hood loosely over a substantially straight length comprising one end of a piece of wire with a looped handle formation at the opposite end, advancing and placing a straight flat layer comprising a wisp of brush material laterally across said substantially straight end, bending said substantially straight end around the wisp to secure the latter to the wire, and then forcing the hood over said wisp to double the latter edgewise within the hood to secure the hood in place with the brush material projecting from the mouth thereof.

2,314,307

PRINTING INK

Carleton Ellis, Montclair, N. J.; Carleton Ellis, Jr., Bertram Ellis, and Bank of Montclair, executors of said Carleton Ellis, deceased, assignors to Ellis Laboratories, Inc., a corporation of New Jersey

No Drawing. Application May 21, 1940, Serial No. 336,357
3 Claims. (Cl. 260—37)

1. A quick-setting printing ink, characterized by being solid at atmospheric temperature and molten when warm, which consists essentially of the thermoplastic reaction product of a phenol and sulphur chloride, the proportion of sulphur chloride being sufficient to render the reaction product thermoplastic, insoluble in water and soluble in acetone but not exceeding that of the phenolic hydrocarbon, and an inorganic pigment.

2,314,308

UREA-ALDEHYDE ADHESIVE COMPOSITION

Carleton Ellis, Montclair, N. J.; Carleton Ellis, Jr., Bertram Ellis, and Bank of Montclair, executors of Carleton Ellis, deceased, assignors to Ellis Laboratories, Inc., a corporation of New Jersey

No Drawing. Application March 16, 1940, Serial No. 324,403
6 Claims. (Cl. 260—71)

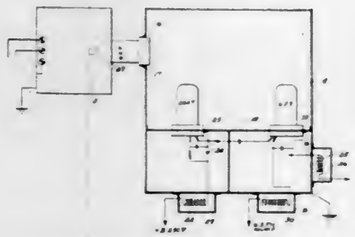
1. A heat-hardening adhesive composition which comprises a thermo-setting resin derived from urea and an acyclic aldehyde and a hardening agent therefor selected from the group consisting of nitrohydroxy paraffins derived from a nitroparaffin and an acyclic aldehyde, said composition being substantially a dry solid and covered with a coating of wax and being capable of conversion to an infusible state when spread in a thin film and subjected to the action of mild heating and pressure.

2,314,309

RADIO RECEIVER

Marvin Hobbs, Chicago, Ill., assignor to E. H. Scott

Application February 2, 1942, Serial No. 429,275
10 Claims. (Cl. 250—20)



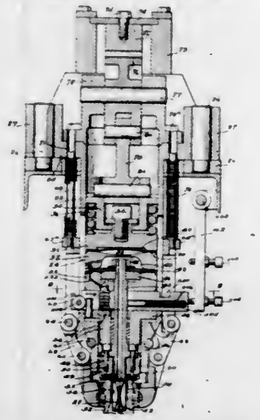
1. A superheterodyne radio receiver including a chassis base, a compartment completely shielded from said base and supported thereby and containing the antenna circuit components for said receiver, a second completely shielded compartment supported by, but electrically isolated from said base and containing the mixer and oscillator components for said receiver, a radio frequency circuit for said receiver said compartments, however, being electrically connected to said base at predetermined points including said antenna circuit, and a vacuum tube amplifier having a base and a grid cap, said vacuum tube being completely shielded and having the base disposed in the mixer-oscillator compartment with the body of the tube bridging the space between the antenna and mixer-oscillator compartments and having the grid cap end extending into the antenna compartment, said mixer and oscillator sections including vacuum tube devices therefor, power supply means for supplying operating current to said devices, leads connecting the power supply to said mixer and oscillator sections means to prevent radiation from the mixer oscillator stages of said receiver comprising a filter disposed in the mixer screen voltage supply lead, said filter being disposed outside of the mixer oscillator compartment and completely shielded, a second filter disposed in the voltage supply lead to the oscillator and being outside of said compartment and completely shielded, and a third filter being disposed in the filament supply lead to said oscillator and disposed outside of said compartment and completely shielded.

2,314,310

BOTTLE TESTING APPARATUS

Albert S. Jackson, Wood River, and Clarence A. Heyne, Alton, Ill., assignors to Owens-Illinois Glass Company, a corporation of Ohio

Application August 16, 1940, Serial No. 352,916
17 Claims. (Cl. 73—51)



2. Testing apparatus for applying internal pressure within an open-mouthed hollow article, which comprises an impervious elastic bulb, means for introducing said bulb into the article, means for sealing the mouth of the article while the latter is filled with a liquid, and means for applying hydraulic pressure within said bulb.

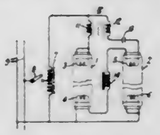
2,314,311

APPARATUS FOR STARTING AND CONTROLLING ELECTRIC DISCHARGE DEVICES

Walter J. Karash, Annapolis, Md., assignor to General Electric Company, a corporation of New York

Application April 21, 1942, Serial No. 439,818
8 Claims. (Cl. 176—124)

1. In combination, a plurality of electric discharge devices arranged to be connected with a source of alternating current supply, the voltage of which is less than the starting voltage of said devices, a first reactive means connected to be responsive to the voltage across one of said devices, a second reactive means whose reactive voltage is opposite to that of said first reactive means



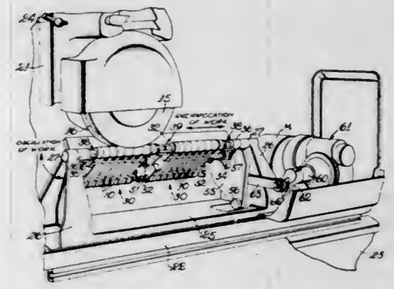
connected in series with said one device, and means responsive to the current passing said one device after it starts for increasing the voltage applied to the other of said devices from said source.

2,314,312

GRINDING METHOD AND APPARATUS

William C. Knapp, East Orange, N. J., assignor to Mattison Machine Works, Rockford, Ill., a corporation of Illinois

Application April 10, 1941, Serial No. 387,787
4 Claims. (Cl. 51—94)



1. The combination in a grinding machine having a rotatable abrasive wheel, of a work support pivotally mounted for oscillation in a direction transverse to the plane of rotation of the wheel, means for oscillating said support including a cam follower on said support eccentrically located relative to the pivotal axis of the support, a cam member pivoted to rock transversely of the plane of rotation of the wheel and having a peripheral cam surface coacting with said follower, said cam surface being shaped to impart uniform angular velocity to the support throughout the major portion of its range of oscillation, and power actuated means for rocking said cam member.

2,314,313

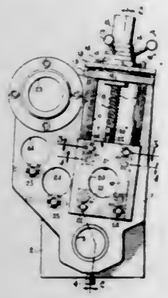
CASING TREATMENT

Cleo A. Rinehart, Chicago, Ill., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware

No Drawing. Application August 15, 1940, Serial No. 352,821
7 Claims. (Cl. 99—175)

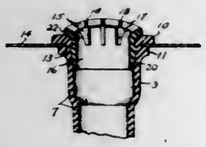
1. In the tenderizing of natural casings wherein an animal intestine normally tending to be tough is treated with a tenderizing enzyme to remove such toughness, the improvement which comprises quickly terminating the action of the enzyme when the desired tenderness is obtained by treating the tenderized casing with an oxidizing agent whereby the enzymatic action of the enzyme is substantially destroyed.

2,314,314
TOOLHOLDER
Theodore A. Wettig, Cincinnati, Ohio, assignor to The Acme Machine Tool Company, Cincinnati, Ohio, a corporation of Ohio
Application August 1, 1940, Serial No. 349,362
3 Claims. (Cl. 29—57)



1. A tool holder, comprising: a bracket supporting a plurality of tools for application to a turret of a machine tool having an elongated opening therethrough for receiving and mounting a tool carrying slide, a pair of parallel V-shaped rails on the front face of the bracket at opposite sides of said slide opening and longitudinally thereof for vertically guiding and supporting the slide, a slide having its body portion recessed within said opening and overlapping said rails and in bearing contact therewith, a plate fixed to the rear side of the body of said slide for mounting the slide upon the bracket, said plate bifurcated at relative opposite sides and ends, to provide yieldable sections adapted to be brought in binding contact with the bracket for rigidly clamping the slide to the bracket, and a screw respectively for each section traversing the slide and connecting with the section, to bring the same into binding contact with the bracket, and means carried by the bracket connecting with the slide for adjusting the same.

2,314,315
RUBBER COUPLING
Charles C. Scheele, Syracuse, N. Y., assignor to Easy Washing Machine Corporation, Syracuse, N. Y., a corporation of Delaware
Application November 27, 1941, Serial No. 420,710
2 Claims. (Cl. 285—54)



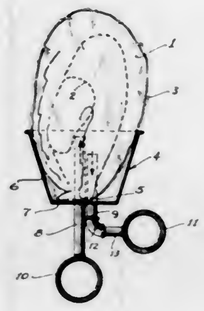
1. A coupling gland for making a connection to a circular aperture in a thin walled vessel, said gland comprising a coupling member made of flexible rubber or the like and a securing member made of rigid material, both of said members being provided with through central bores, said coupling member comprising a tubular body portion, an outwardly extending flange at one end of said body portion and a second outwardly extending flange located adjacent said first or end flange, said flanges being adapted to lie against the opposed surfaces of the vessel wall adjacent said aperture and cooperating to define a narrow groove having a width substantially equal to the thickness of said vessel wall and having a diameter at its base substantially equal to the diameter of said aperture, said securing member comprising an exterior tapered portion and a flange adjacent the large end of said tapered portion, said securing member flange being substantially larger in diameter than the bore of said coupling member, said securing member being adapted to be forced into said coupling member with the inside of said securing member flange bearing against the outside of said end flange of said coupling member, and said securing member being so constructed and arranged as to force the flanges of said coupling member outward and toward each other to grip the vessel wall and as to cooperate with said coupling member and the vessel wall to hold said securing member in place.

2,314,316
FEED DEVICE
Carleton H. Schlesman, Camden, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application November 4, 1941, Serial No. 417,862
11 Claims. (Cl. 214—17)



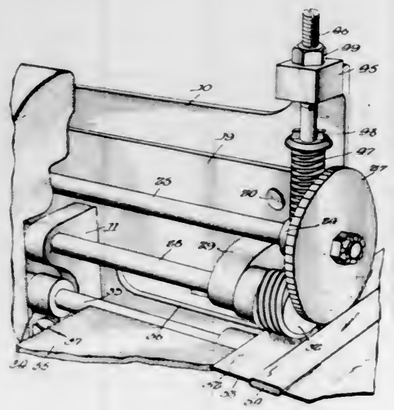
1. In a device for feeding finely divided solid matter to a pressure zone, a hopper, a substantially vertical cylindrical casing communicating with said hopper at its upper end and adapted to its lower end to be connected to means defining said zone for communication with said zone, a plurality of feed tubes within and coaxial with said casing disposed successively along the length of said casing with a substantial space between adjacent ends of successive tubes, the uppermost of said tubes being provided with means to direct flow of solid material by gravity from said hopper into said first tube, the upper end of each other of said tubes being extended outwardly and upwardly to between the tube thereabove and said casing to form an annular space about said tube thereabove, means to vent gases from the upper portion of each of said annular spaces and the space between said casing and the lowermost of said tubes, a rod mounted for reciprocation longitudinally of said casing within said tubes, a plurality of vanes hingedly connected to said rod for relative movement about axes at substantially right angles to the axis of said rod and means to limit upward movement of said vanes relative to said rod.

2,314,317
POULTRY CHILLING
Charles T. Walter, Chicago, Ill., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
Application July 24, 1940, Serial No. 347,251
10 Claims. (Cl. 62—114)



1. The method of quick freezing drawn poultry which comprises injecting cold air into and in direct contact with the body cavity of the carcass.

2,314,318
STRETCHING MACHINE
Marion Morgan Cunningham, South Bend, Ind., assignor to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind., a corporation of Indiana
Application August 3, 1940, Serial No. 350,597
13 Claims. (Cl. 154—1)



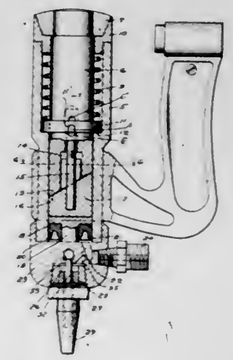
1. A stretching device comprising a standard, rollers for engaging a piece of work, a shaft pivotally connected to said standard and having one of said rollers mounted thereon, means for rotating said rollers, worm screws for engaging said work and stretching same against the constraint of said rollers, a second shaft pivoted to said standard and having one of said screws mounted thereon, means for rotating said screws, and means for pivoting said shaft to move one of said screws into threaded relation with respect to another of said screws.

2,314,319
WING FRAME ASSEMBLY FIXTURE
Frank M. Smith, Dearborn, Mich., assignor, by mesne assignments, to Consolidated Aircraft Corporation, San Diego, Calif.
Application April 13, 1942, Serial No. 438,691
9 Claims. (Cl. 29—89)



1. In a jig for building airplane wing frames or the like, in combination, a rigid base, a plurality of outstanding abutment elements rigidly fixed to said base, a plurality of longitudinally extending members arranged in generally spaced relation with respect to each other and said base, a plurality of outstanding elements fixed with respect to each of said longitudinally extending members and spaced longitudinally thereof from one another by a distance substantially equal to the longitudinal spacing of certain of said first mentioned abutment elements from each other, whereby to enable them to be positioned in opposed relation with respect to said abutment elements, spar locating means fixed with respect to said base, and means for moving said longitudinally extending members longitudinally of said base thereby to clamp a rib between each outstanding element thereof and the corresponding abutment element of said base.

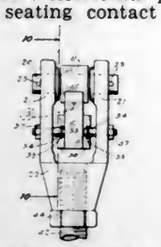
2,314,320
WELDING GUN
Cornelius B. Van Eck, Grand Rapids, Mich., assignor to Progressive Welder Company, Detroit, Mich., a corporation of Michigan
Application July 7, 1941, Serial No. 401,395
8 Claims. (Cl. 219—4)



5. In a welder, a body, a part movable relative to the body from a retracted position to a position in which the welder is engaged with the work, yielding means for urging the part toward the retracted position, and actuating means for moving the part to bring the welder to the work engaging position and for relieving the part of the force of said yielding means during such movement.

2,314,321
BEARING CONSTRUCTION FOR FORCE MEASURING APPARATUS
Oswald S. Carliss, Fairfield, Conn., assignor to The Kron Company, Bridgeport, Conn., a corporation of Connecticut
Original application December 14, 1940, Serial No. 370,097. Divided and this application July 14, 1941, Serial No. 402,312
14 Claims. (Cl. 308—2)

1. In a force measuring instrument including mutually reactive members movable in approximately vertical directions for transmitting a measurable force, antifrictional play restricting devices for checking relative movement of at least one of said members in vagrant directions, including the combination with said members of, a force transmitting knife-edge and carrier therefor on one of said members, a reactive force transmitting seat and carrier therefor on the other of said members said seat having a substantially horizontal line of seating contact with said knife edge and further having a table surface bordering said knife edge affording clearance for said carriers to rock relatively about said line of seating contact, and a plurality of nose-like projections rigid with one of said members displaced from a horizontal plane containing said line of seating contact and pointing



horizontally in opposite directions crosswise said line of contact toward the carrier on the other of said members for engaging therewith in a manner to restrict play between said members in directions crosswise said knife edge.

DESIGNS

MARCH 16, 1943

135,237
DESIGN FOR GOGGLES
William Bausch, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application September 29, 1942, Serial No. 108,355
Term of patent 14 years



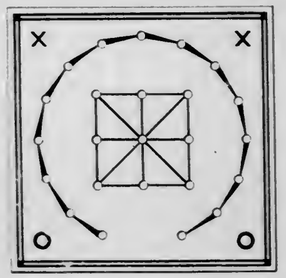
The ornamental design for goggles, substantially as shown and described.

135,238
DESIGN FOR A RUBBER SHOE
George H. Bingham, Jr., Lincoln, Mass., assignor to Cambridge Rubber Co., Cambridge, Mass., a corporation of Massachusetts
Application December 29, 1942, Serial No. 109,157
Term of patent 3½ years



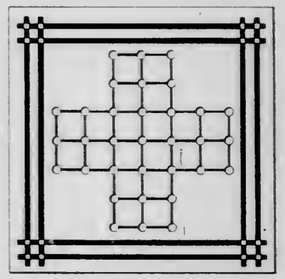
The ornamental design for a rubber shoe, subtially as shown and described.

135,239
DESIGN FOR A GAME BOARD
William F. Drueke, Jr., Grand Rapids, Mich.
Application December 16, 1942, Serial No. 109,047
Term of patent 3½ years



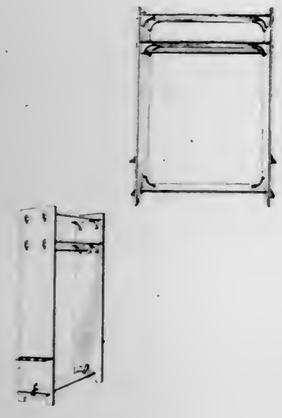
The ornamental design for a game board, as shown and described.

135,240
DESIGN FOR A GAME BOARD
William F. Drueke, Jr., Grand Rapids, Mich.
Application December 16, 1942, Serial No. 109,048
Term of patent 3½ years



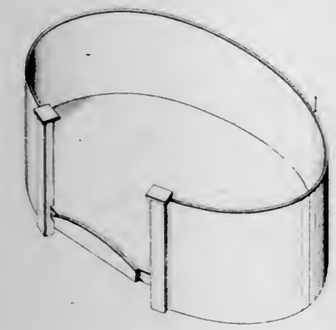
The ornamental design for a game board as shown and described.

135,241
DESIGN FOR A GARMENT RACK
Raymond A. Magnuson, Chicago, Ill., assignor to R. A. Magnuson, A. Magnuson, and Evelyn Peterson, co-partners, doing business as Vogel-Peterson Co., Chicago, Ill.
Application May 27, 1942, Serial No. 107,020
Term of patent 3½ years



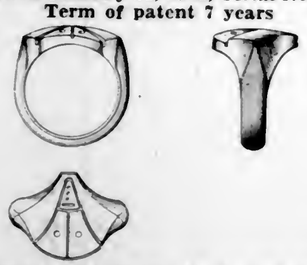
The ornamental design for a garment rack, substantially as shown.

135,242
DESIGN FOR A DOG BED
Joseph J. Meyer, Milwaukee, Wis., assignor to G-H Specialty Company, Milwaukee, Wis., a corporation of Wisconsin
Application June 19, 1942, Serial No. 107,242
Term of patent 14 years



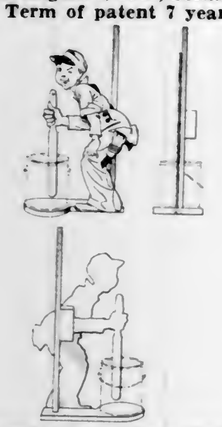
The ornamental design for a dog bed, as shown.

135,243
DESIGN FOR A RING MOUNTING
Charles Birnbaum, Brooklyn, N. Y.
Application January 21, 1943, Serial No. 109,320
Term of patent 7 years



The ornamental design for a ring mounting, substantially as shown.

135,244
DESIGN FOR A DISPLAY DEVICE FOR PAINTS OR THE LIKE
Ernst Borregard, Long Island City, N. Y.
Application August 1, 1941, Serial No. 102,621
Term of patent 7 years



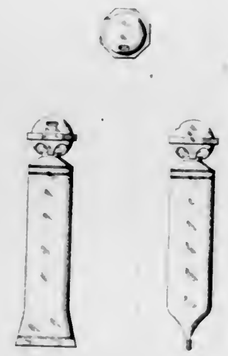
The ornamental design for a display device for paints or the like as shown and described.

135,245
DESIGN FOR AN ASH TRAY
Maurice Britz, Chicago, Ill.
Application January 13, 1943, Serial No. 109,259
Term of patent 3½ years



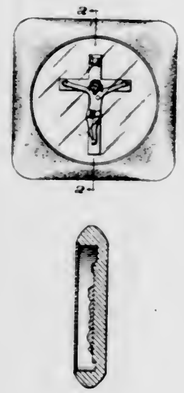
The ornamental design for an ash tray, substantially as shown.

135,246
DESIGN FOR A COMBINED COLLAPSIBLE TUBE AND DISPENSING CLOSURE THEREFOR
Wilfred H. Burke, Hutchinson, Kans.
Application August 17, 1942, Serial No. 107,952
Term of patent 3½ years



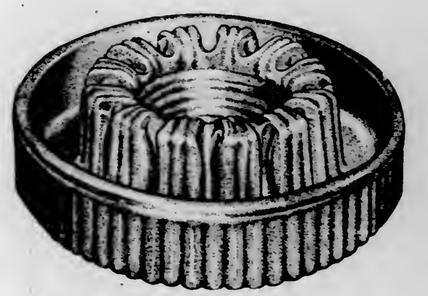
The ornamental design for a combined collapsible tube and dispensing closure therefor, substantially as shown and described.

135,247
DESIGN FOR A CRUCIFIX
James P. Calnan, Belmont, Mass.
Application August 21, 1942, Serial No. 107,990
Term of patent 14 years



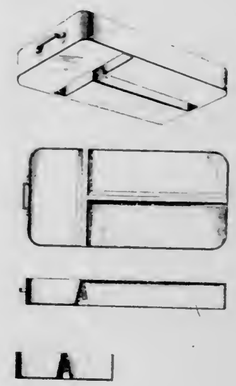
The ornamental design for a crucifix or similar article, substantially as shown.

135,248
DESIGN FOR AN ASH TRAY
Cicero E. Connor, Dallas, Tex.
Application November 23, 1942, Serial No. 108,852
Term of patent 14 years



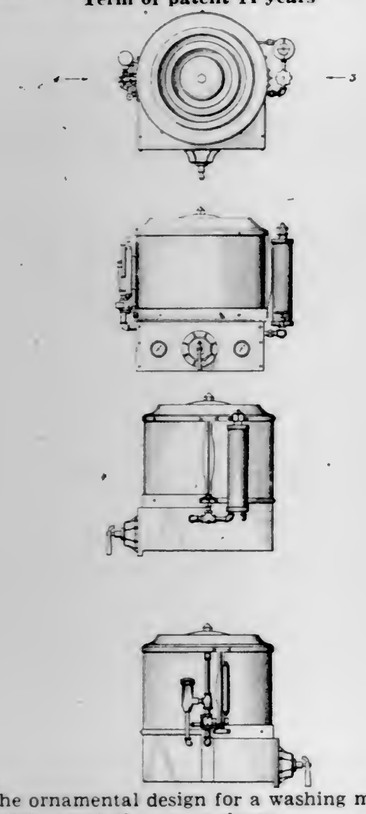
The ornamental design for an ash tray, substantially as shown.

135,249
DESIGN FOR A RATION CONTAINER
Nicholas T. Naranick, United States Army, Casper, Wyoming
Application October 2, 1942, Serial No. 108,394
Term of patent 3½ years



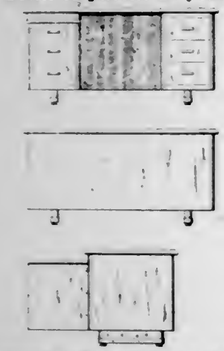
The ornamental design for a ration container, as shown.

135,250
DESIGN FOR A WASHING MACHINE FOR DISHES AND GLASSES
Libero Palmieri, New York, N. Y.
Application March 31, 1942, Serial No. 106,411
Term of patent 14 years



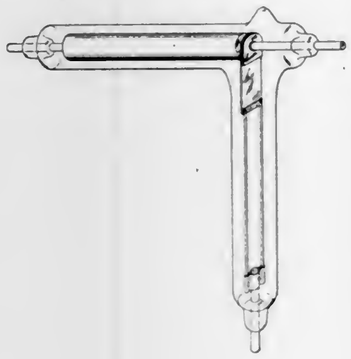
The ornamental design for a washing machine for dishes and glasses, as shown.

135,251
DESIGN FOR A DESK
Charles I. Center and Wilson E. Tarr, South Bend, Ind.
Application February 12, 1941, Serial No. 98,962
Term of patent 14 years



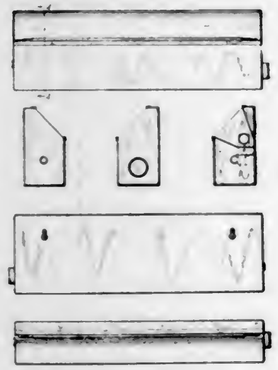
The ornamental design for a desk, as shown and described.

135,252
DESIGN FOR A VACUUM RELAY
William W. Eitel and Jack A. McCullough, San Bruno, Calif., assignors to Eitel-McCullough, Inc., San Bruno, Calif., a corporation of California
Application February 11, 1942, Serial No. 105,760
Term of patent 14 years



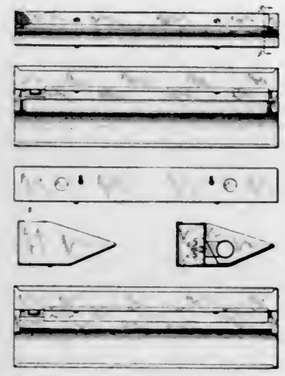
The ornamental design for a vacuum relay, substantially as shown and described.

135,253
DESIGN FOR AN ULTRAVIOLET STERILIZER
Robert A. Hrabak, Lakewood, Ohio, assignor to The Art Metal Company, Cleveland, Ohio, a corporation of Ohio
Application August 10, 1942, Serial No. 107,871
Term of patent 14 years



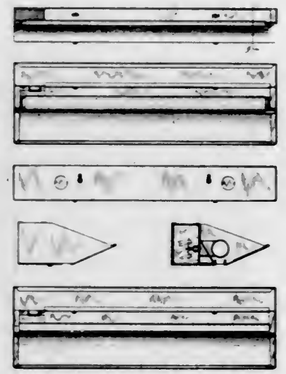
The ornamental design for an ultraviolet sterilizer, substantially as shown.

135,254
DESIGN FOR AN ULTRAVIOLET STERILIZER
Robert A. Hrabak, Lakewood, Ohio, assignor to The Art Metal Company, Cleveland, Ohio, a corporation of Ohio
Application August 10, 1942, Serial No. 107,872
Term of patent 14 years



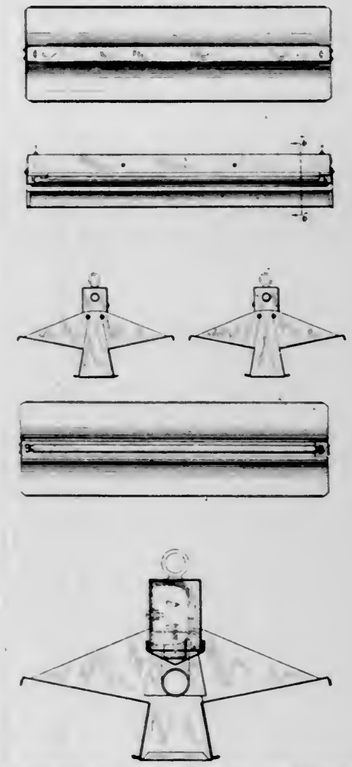
The ornamental design for an ultraviolet sterilizer, substantially as shown.

135,255
DESIGN FOR AN ULTRAVIOLET STERILIZER
Robert A. Hrabak, Lakewood, Ohio, assignor to The Art Metal Company, Cleveland, Ohio, a corporation of Ohio
Application August 10, 1942, Serial No. 107,873
Term of patent 14 years



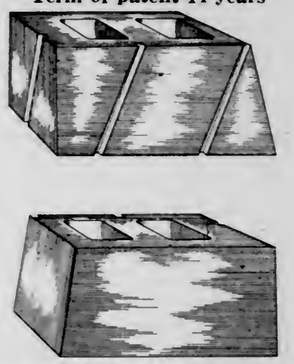
The ornamental design for an ultraviolet sterilizer, substantially as shown.

135,256
DESIGN FOR AN ULTRAVIOLET STERILIZER
Robert A. Hrabak, Lakewood, Ohio, assignor to The Art Metal Company, Cleveland, Ohio, a corporation of Ohio
Application August 12, 1942, Serial No. 107,917
Term of patent 14 years



The ornamental design for an ultraviolet sterilizer, substantially as shown.

135,257
DESIGN FOR A BUILDING BLOCK
Willard A. Larson, Preston, Idaho
Application November 18, 1942, Serial No. 108,814
Term of patent 14 years



The ornamental design for a building block, as shown.

135,258
DESIGN FOR A KNITTING BAG OR THE LIKE
Gerald Murphy, New York, N. Y., assignor to Mark Cross Company, New York, N. Y., a corporation of New York
Application February 11, 1942, Serial No. 105,762
Term of patent 14 years





The ornamental design for a knitting bag or the like, substantially as shown and described.

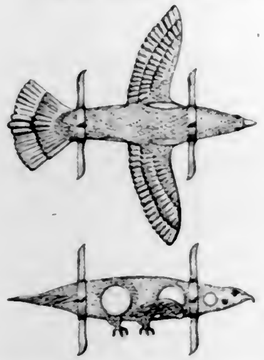
135,259
DESIGN FOR A RING
Beimiro Pereira, New York, N. Y.
Application February 3, 1943, Serial No. 109,419
Term of patent 3½ years





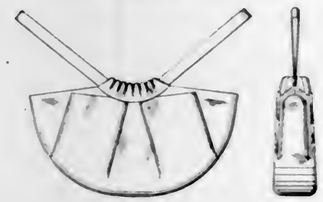
The ornamental design for a ring, substantially as shown.

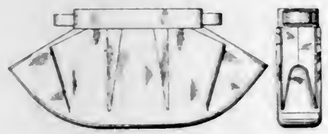
135,260
DESIGN FOR A COMBINED AIRPLANE BODY AND PROPELLERS
John Robinson, Los Angeles, Calif.
Application May 2, 1941, Serial No. 100,743
Term of patent 7 years



The ornamental design for a combined airplane body and propellers, as shown and described.

135,261
DESIGN FOR A HANDBAG
Nathan Sloane and Max Sloane, Brooklyn, N. Y.
Application February 5, 1943, Serial No. 109,469
Term of patent 3½ years





The ornamental design for a handbag, substantially as shown and described.

135,262
DESIGN FOR A PIPE COUPLING
Ralph A. Corley, Mountain Lakes, N. J.
Application June 23, 1942, Serial No. 107,314
Term of patent 14 years



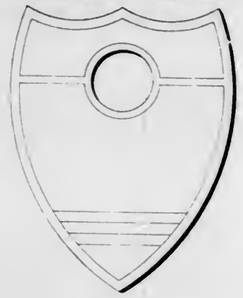
The ornamental design for a pipe coupling, substantially as shown.

135,263
DESIGN FOR AN EMBLEM PIN
Ben Felsenthal, New York, N. Y.
Application December 21, 1942, Serial No. 109,088
Term of patent 3½ years



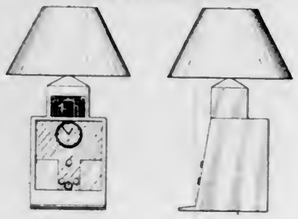
The ornamental design for an emblem pin, substantially as shown.

135,264
DESIGN FOR A PLAQUE BASE OR THE LIKE
Guy E. Gaston and Harold Stilwell, Baltimore, Md.
Application November 12, 1941, Serial No. 104,124
Term of patent 3½ years



The ornamental design for a plaque base or the like, substantially as shown and described.

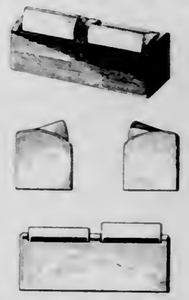
135,265
DESIGN FOR A COMBINED RADIO, CLOCK, AND TABLE LAMP
William J. Henken, Sioux City, Iowa
Application April 26, 1941, Serial No. 100,632
Term of patent 14 years





The ornamental design for a combined radio, clock, and table lamp, as shown.

135,266
DESIGN FOR A DUAL CONTROL FOR PHONOGRAPHS
Louis Z. La Forest, Parsippany-Troy Hills Township, Morris County, N. J., assignor to Thomas A. Edison, Incorporated, West Orange, N. J., a corporation of New Jersey
Application June 27, 1942, Serial No. 107,360
Term of patent 14 years



The ornamental design for a dual control for a sound reproducer or similar article, substantially as shown.

135,267
DESIGN FOR A FIGURE TOY OR THE LIKE
Thomas Lamb, New York, N. Y.
Application February 21, 1942, Serial No. 105,948
Term of patent 7 years



The ornamental design for a figure toy or the like, as shown.

135,268
DESIGN FOR A RING OR SIMILAR ARTICLE
Belmiro Pereira, New York, N. Y.
Application February 3, 1943, Serial No. 109,420
Term of patent 7 years



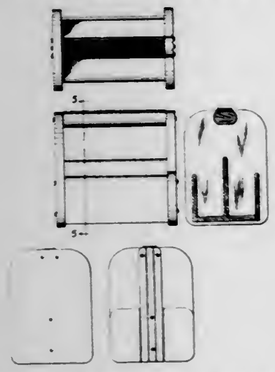
The ornamental design for a ring or similar article, substantially as shown.

135,269
DESIGN FOR A LADY'S SLIP OR SIMILAR ARTICLE
Irving Wasserman, Brooklyn, N. Y.
Application September 12, 1942, Serial No. 108,216
Term of patent 3½ years



The ornamental design for a lady's slip or similar article, substantially as shown and described.

135,270
DESIGN FOR A POLISH KIT
Benjamin Hill Willingham, Nashville, Tenn.
Application November 6, 1942, Serial No. 108,713
Term of patent 3½ years



The ornamental design for a polish kit, substantially as shown.

135,271
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application February 22, 1943, Serial No. 109,601
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

135,272
DESIGN FOR A DRESS
Barbara Moye, New York, N. Y.
Application February 22, 1943, Serial No. 109,602
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

Patents Nos. 2,314,322 to 2,314,860

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CONTENTS

	Page
ISSUE OF MARCH 23, 1943	595
ADJUDICATED PATENTS	595
ADVERSE DECISIONS IN INTERFERENCE	595
DISCLAIMERS	595
APPLICATIONS UNDER EXAMINATION	596
DECISIONS OF THE U. S. COURTS—	
Bramley et al. v. Beeso	597
PATENT SUITS	599
TRADE-MARKS PUBLISHED (75 APPLICATIONS)	601
TRADE-MARK REGISTRATIONS GRANTED	610
TRADE-MARK REGISTRATIONS RENEWED	617
REISSUES	621
PATENTS GRANTED	623
DESIGNS	749

March 23, 1943

Trade-Marks	137	No. 400,580	to No. 400,716,	inclusive.
T. M. Renewals	76			
Reissues	4	No. 22,291	to No. 22,294,	inclusive.
Patents	579	No. 2,314,322	to No. 2,314,860,	inclusive.
Designs	59	No. 135,273	to No. 135,331,	inclusive.
Total	815			

Adjudicated Patents

(C. C. A. Ill.) Cameron patent, No. 1,646,009, for scale, claims 1, 3, 4, 5, 6, 7 and 8 *Held* invalid. *Continental Scale Corporation* v. *Harrison Wholesale Co.*, 132 F.(2d) 463.

(C. C. A. Ill.) Weber patent, No. 1,824,698, for combined lever and coil spring type of scale, claims 8, 9 and 10 *Held* invalid. *Id.*

(C. C. A. Mich.) Suczek patent, No. 1,970,823, for vehicle wheel suspension and springing, *Held* invalid. *Suczek* v. *General Motors Corp.*, 132 F.(2d) 371.

(C. C. A. Ill.) Barler and Burkhard patent, No. 2,066,243, for weighing scale, claims 2 and 6 *Held* invalid. *Continental Scale Corporation* v. *Harrison Wholesale Co.*, 132 F.(2d) 463.

(C. C. A. Calif.) Young patent, No. 2,098,478, for battery container, *Held* invalid. *National Battery Co.* v. *Western Molded Products*, 132 F.(2d) 510.

(C. C. A. Ohio) Iverson patent, No. 2,169,146, for vulcanizing mold and other presses, claim 11 *Held* not infringed. *National Rubber Machinery Co.* v. *McNeil Machine & Engineering Co.*, 132 F.(2d) 436.

(C. C. A. Ill.) Weber and Vanderhoff patent, No. 2,224,327, for weighing scale, claims 1, 2, 4, 5, 7, 10, 15, 17, 19, 21, 22, 25, 26, 28 and 30 *Held* invalid. *Continental Scale Corporation* v. *Harrison Wholesale Co.*, 132 F.(2d) 463.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed.

Pat. 2,233,203, M. T. Flaxman, Lubricating oil, decided February 23, 1943, claims 1, 3, and 7.

Pat. 2,256,247, H. G. Groehn, Die fixture, decided February 17, 1943, claims 1, 2, 3, 4, 5, 6, and 7.

Pat. 2,265,466, C. L. Winter, Carbon strip deleaving machine, decided February 23, 1943, claims 1 and 7.

Disclaimers

1,646,009.—*Hugh M. Cameron*, New York, N. Y. SCALE. Patent dated October 18, 1927. Disclaimer filed February 25, 1943, by the assignee, *Continental Scale Corporation.*

Hereby enters this disclaimer to claims, 1, 3, 4, 5, 6, 7, and 8 in said specification.

1,824,698.—*Mathias J. Weber*, Chicago, Ill. COMBINED LEVER AND COIL SPRING TYPE OF SCALE. Patent dated September 22, 1931. Disclaimer filed February 25, 1943, by the assignee, *Continental Scale Corporation.*

Hereby enters this disclaimer to claims 8, 9, and 10 in said specification.

2,066,243.—*Richard C. Barler and Carl Burkhard*, Goshen, Ind. WEIGHING SCALE. Patent dated December 29, 1936. Disclaimer filed February 25, 1943, by the assignee, *Continental Scale Corporation.*

Hereby enters this disclaimer to claims 2 and 6 in said specification.

2,116,731.—*Austin R. Noll*, New York, N. Y. CODING AND DECODING MACHINE. Patent dated May 10, 1938. Disclaimer filed February 24, 1943, by the assignee, *International Business Machines Corporation.*

Hereby enters this disclaimer to claims 1, 6, 7, 8, 16, 17 and 18 in said specification.

2,224,327.—*Mathias J. Weber and Russell E. Vanderhoff*, Chicago, Ill. WEIGHING SCALE. Patent dated December 10, 1940. Disclaimer filed February 25, 1943, by the assignee, *Continental Scale Corporation.*

Hereby enters this disclaimer to claims, 1, 2, 4, 5, 7, 10, 11, 12, 13, 14, 15, 17, 18, 19, 21, 22, 25, 26, 28, and 30, in said specification.

Conditions of Applications Under Examination at Close of Business March 6, 1943

(Total number of applications awaiting action, excluding Trade-Mark Division, 40,524: Trade-Mark Division, 862. Oldest new case, Apr. 17, 1942: oldest amended, Apr. 22, 1942.)
(The dates given are 1942 except where † indicates 1943)

Divisions, Examiners, and Subjects of Inventions	Oldest new application awaiting office action	Oldest amended application awaiting office action	No. of applications awaiting action
1. TUCKER, M. W., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Domestic Cooking Vessels; Sewerage.	Sept. 26	Nov. 2	378
2. HERRMANN, D., Fishing and Trapping; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering.	Nov. 19	Oct. 2	250
3. WOLFFE, S., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	May 9	May 9	984
4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting.	Oct. 24	Sept. 25	406
5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps.	July 16	July 6	585
6. GENIESSE, E. W., Carbon Chemistry (part)	June 15	June 16	1056
7. JARBOE, C. G., Optics, Photography	July 10	July 3	1001
8. ADAMS, F. L., Furniture; Kitchen and Table Articles; Racks and Cabinets	Aug. 27	Aug. 17	697
9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	Aug. 26	Aug. 24	740
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Sept. 30	Sept. 30	388
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Stop Mechanisms	Sept. 22	Sept. 24	350
13. DONNELLY, A. E., Metal Working (part); Gear Cutting, Milling and Planing; Needle and Pin Making	Aug. 25	Aug. 28	662
14. HANLIN, GEORGE, Metal Working (part); Farriery; Wire Fabrics	Nov. 5	Nov. 6	384
15. HENKIN, BENJ., Glass, Plastic Block and Earthenware Apparatus; Plastics	Aug. 6	July 3	671
16. SPENCER, C. J., Telegraphy; Telephony	July 15	July 16	684
17. HABECKER, LEON B., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Apr. 17	June 5	729
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	July 8	July 21	586
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	June 10	June 10	687
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part).	Aug. 6	July 27	445
21. THOMPSON, T. J., Textiles	Sept. 24	Sept. 4	313
22. RINGLE, D., Aeronautics; Firearms; Ordnance and Explosive Devices	May 29	May 30	1636
23. BARROWS, B., Cash Registers; Calculators (part)	Oct. 9	Oct. 9	127
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	Oct. 1	Oct. 3	636
25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Aug. 5	July 21	589
26. YOUNG, R. R., Electricity—Generation and Motive Power	July 24	Aug. 7	507
27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus.	Aug. 17	June 26	641
28. SOLYOM, H. L., Internal-Combustion Engines (part); Cylinders and Pistons	July 4	May 13	577
29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Package and Article Carriers; Woodworking; Tools; Metal Working, Assembling.	Nov. 3	Nov. 14	339
30. McCANN, LEO P., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Nov. 6	Nov. 7	341
31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils	Sept 12	Sept. 12	1326
32. LESH, K., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	Aug. 15	Aug. 31	642
33. HULL, J. S., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements	Sept. 28	Oct. 5	560
34. SAPERSTEIN, S., Electricity—Meters and Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators.	Sept. 14	Sept. 5	353
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles	Sept 4	Sept. 5	672
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	Oct. 15	Sept. 30	418
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Oct. 27	Nov. 7	513
38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part)	Aug. 8	Sept. 7	679
39. WHITNEY, F. I., Fluid-Pressure Regulators; Valves; Water Distribution	Nov. 30	Dec. 2	347
40. DRUMMOND, E. J., Receptacles	Oct. 20	Oct. 20	409
41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles; Counters and Calculators (part); Typewriting Machines; Check-Controlled Apparatus.	Sept. 5	Sept. 2	424
42. MARANS, H., Electric Signaling	Oct. 9	Oct. 8	340
43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Azo Compounds.	Apr. 29	May 4	996
44. HARVEY, L. P., Refrigeration	June 19	July 9	363
45. HILL, H. D., Shafting and Flexible Shaft Couplings; Wheels and Axles; Resilient Tires and Wheels; Lubrication; Bearings and Guides; Motors; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part).	Sept. 7	Sept. 14	748
46. BLEECKER, V. E., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Heating Systems; Coating Apparatus.	July 6	July 6	465
47. KANOF, WM. J., Clutches and Power Stops; Brakes; Boring and Drilling; Land Vehicles (part)	Aug. 27	Aug. 27	964
48. ROEPKE, O. B., Electricity, General Applications; Igniters	Apr. 20	Apr. 22	747
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	Sept. 12	Aug. 21	613
50. LEVIN, SAMUEL, Resins; Rubber; Carbohydrates and Derivatives	Aug. 7	Aug. 8	1203
51. RACKUS, C. D., Radiant Energy	Aug. 25	Aug. 25	886
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits.	July 8	July 30	621
53. PECK, M. K., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Curtains, Shades and Screens; Cutlery.	Nov. 25	Oct. 14	196
54. STRACHAN, O. W., Electric Lamp and Discharge Devices (part)	Aug. 12	Aug. 24	446
55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery	July 12	June 25	726
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Laminated Fabrics (part); Paper Making	Aug. 4	Aug. 7	857
57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Aug. 24	Sept. 17	357
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working	Oct. 16	Oct. 10	543
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds; Compositions (part).	Apr. 20	May 9	1272
60. GLASS, R. L., Electricity, Heating and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Marine Propulsion; Consumable Electrode Lamp and Discharge Devices.	July 16	July 16	407
61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Laminated Electrical Insulation, Belt, Hose, Tire and Ball Making; Boats and Buoys.	July 9	Aug. 7	509
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	Nov. 7	Aug. 13	436
63. WINKELSTEIN, A. H., Preserving; Poisons; Fermentation; Foods and Beverages; Proteins; Oils and Fats.	May 19	June 8	997
64. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Distillation; Fuel	Sept. 15	Sept. 17	1135
65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays.	July 25	Aug. 10	648
Trade Marks: RICHMOND, F. A.	†Feb. 2	†Feb. 15	862
Designs: KALUPY, H. H.	†Jan. 29	†Feb. 18	327

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

A & W Bulb Company, Inc., Clearwater, Fla. Cut flowers. Serial No. 449,514; Mar. 23. Class 1.

Aeronca Aircraft Corporation, Middletown, Ohio. Airplanes. Serial No. 457,669; Mar. 23. Class 19.

Agency Paper Company, New York, N. Y. Air-mail paper, air-mail envelopes, printing paper, etc. Serial No. 457,533; Mar. 23. Class 37.

Alpha Mills, Schuylkill Haven, Pa. Children's sweaters, two-piece romper suits, pants and creepers. Serial No. 457,560; Mar. 23. Class 39.

Arrco Playing Card Co., Chicago, Ill. Playing cards. Serial No. 458,144; Mar. 23. Class 22.

Atlantic Supply Company, The, Baltimore, Md. Feeds for livestock and poultry. Serial No. 457,734; Mar. 23. Class 46.

Bike Web Company, The, Chicago, Ill. Absorbent cotton, gauze, gauze bandages, etc. Serial No. 457,945; Mar. 23. Class 44.

Buddy Kit Co., Los Angeles, Calif. Kits for toilet articles. Serial No. 449,850; Mar. 23. Class 3.

Burkhardt, Frederic T., Holyoke, Mass. Writing and printing paper. Serial No. 455,473; Mar. 23. Class 37.

Carter Products, Inc., New York, N. Y. Laxative. Serial No. 458,302; Mar. 23. Class 6.

Chicago Musical Instrument Co., Chicago, Ill. Toy pressure-propelled airplanes. Serial No. 457,719; Mar. 23. Class 22.

Colonial Beacon Oil Company, Boston, Mass. Refined, semirefined, and unrefined oils. Serial No. 458,009; Mar. 23. Class 15.

Comet Model Airplane & Supply Company, Incorporated, Chicago, Ill. Model airplanes. Serial No. 456,820; Mar. 23. Class 26.

Consolidated Aircraft Corporation, San Diego, Calif. Airplanes. Serial No. 455,645; Mar. 23. Class 19.

Consolidation Coal Company, New York, N. Y. Coal. Serial No. 457,330; Mar. 23. Class 1.

Davidow, Inc., New York, N. Y. Ladies' and misses' suits, jackets, skirts, etc. Serial No. 458,063; Mar. 23. Class 39.

Deer Park Baking Co., Chicago, Ill. Cookies. Serial No. 455,254; Mar. 23. Class 46.

Denver Chemical Manufacturing Company, The, New York, N. Y. Medicinal preparation. Serial No. 457,931; Mar. 23. Class 6.

De Sanno, Albert P., Jr., Phoenixville, Pa. Mechanical and electrical refrigerating freezers. Serial No. 451,673; Mar. 23. Class 31.

Diversey Corporation, The, Chicago, Ill. Soluble cleaning compound. Serial No. 457,791; Mar. 23. Class 4.

Eastern Tablet Corporation, Albany, N. Y. Sanitary paper drinking cup. Serial No. 451,229; Mar. 23. Class 2.

Eastman Kodak Company, Jersey City, N. J., and Rochester, N. Y. Photographic chemicals. Serial No. 445,389; Mar. 23. Class 6.

Electric Storage Battery Company, The, Philadelphia, Pa. Testing and combined charging and testing for storage batteries. Serial No. 457,062; Mar. 23. Class 26.

Fabrique de Montres Studio, S. A., La Chaux-de-Fonds, Switzerland. Watches, watch movements and parts thereof. Serial No. 457,561; Mar. 23. Class 27.

Finkl & Sons Company, The, Chicago, Ill. Steel. Serial No. 456,419; Mar. 23. Class 14.

General Paint & Varnish Co., doing business as Kwikote Products, Chicago, Ill. Fuel oil conditioner. Serial No. 457,079; Mar. 23. Class 6.

Goldberg, Samuel A., Chicago, Ill. Sweaters and hosiery. Serial No. 457,853; Mar. 23. Class 39.

Gold Seal Importers, Inc., New York, N. Y. Ladies' handbags. Serial No. 458,223; Mar. 23. Class 3.

Gurrieri, Louis, doing business as L. Gurrieri Co., New York, N. Y. Cookie rolling pins. Serial No. 458,069; Mar. 23. Class 13.

Harding & Leggett, Orange Cove, Calif. Fresh citrus fruits, fresh peaches, fresh plums, etc. Serial No. 455,072; Mar. 23. Class 46.

Hos-O-Mat. (See Stone, Samuel O., Jr.)

Howey, Walter, doing business as International Research Laboratory, New York, N. Y. Automobile gas engine fuel mixing device. Serial No. 453,801; Mar. 23. Class 23.

Hutter, George F., doing business as George F. Hutter Company, Buffalo, N. Y. Petroleum solvent, rust preventing compound, a gasoline additive, etc. Serial No. 456,889; Mar. 23. Class 6.

Iceless Cooler Corporation, New York, N. Y. Electrically operated water coolers. Serial No. 458,366; Mar. 23. Class 31.

International Resarch Laboratory. (See Howey, Walter.)

King Features Syndicate, Inc., New York, N. Y. Newspaper section or department. Serial No. 458,101; Mar. 23. Class 38.

Knorr-Maynard, Inc., Detroit, Mich. Cleaning preparation. Serial No. 457,653; Mar. 23. Class 4.

Kwikote Products. (See General Paint & Varnish Co.)

Lowe, E. S., Company, Inc., New York, N. Y. Bingo cards and pads. Serial No. 452,671; Mar. 23. Class 22.

Masonite Corporation, Chicago, Ill. Hard-surfaced lignocellulose composition flooring. Serial No. 456,508; Mar. 23. Class 12.

Masury-Young, Charlestown, Boston, Mass. Liquid floor sealing compound or dressing. Serial No. 457,880; Mar. 23. Class 16.

Medical Fabrics, Inc., Newark, N. J. Elastic cotton bandages. Serial No. 457,984; Mar. 23. Class 44.

Mem Incorporated, New York, N. Y. Toilet water, perfumes, eau de cologne, etc. Serial No. 441,975; Mar. 23. Class 6.

Merrell, Wm. S., Company, The, Cincinnati, Ohio. Product to prevent hemorrhage. Serial No. 457,396; Mar. 23. Class 6.

Merrell, Wm. S., Company, The, Cincinnati, Ohio. Product to supply supplementary calcium, phosphorus, iron, and vitamin D. Serial No. 457,397; Mar. 23. Class 6.

Merrell, Wm. S., Company, The, Cincinnati, Ohio. Product used to prevent hemorrage. Serial No. 457,399; Mar. 23. Class 6.

Merrell, Wm. S., Company, The, Cincinnati, Ohio. Product used to increase the flow of bile. Serial No. 457,401; Mar. 23. Class 6.

Merrell, Wm. S., Company, The, Cincinnati, Ohio. Product for local application to effect granulation and healing. Serial No. 457,402; Mar. 23. Class 6.

Merrell, Wm. S., Company, The, Cincinnati, Ohio. B vitamins. Serial No. 457,683; Mar. 23. Class 6.

Merrell, Wm. S., Company, The, Cincinnati, Ohio. Product used to relieve transient nasal congestion through local application. Serial No. 457,398; Mar. 23. Class 6.

Merriam Company, G. & C., Springfield, Mass. Books. Serial No. 457,628; Mar. 23. Class 38.

National Aluminum Cylinder Head Company, The, Cleveland, Ohio. Cylinder heads. Serial No. 458,245; Mar. 23. Class 23.

National Refining Company, The, Cleveland, Ohio. Lubricating oil. Serial No. 449,775; Mar. 23. Class 15.

Northwestern Yeast Company, Chicago, Ill. Yeast. Serial No. 457,529; Mar. 23. Class 46.

Omar Incorporated, Omaha, Nebr. Pancake flour. Serial No. 457,839; Mar. 23. Class 46.

Philco Corporation, Philadelphia, Pa. Service manuels. Serial No. 450,403; Mar. 23. Class 38.

Phillips Petroleum Company, Bartlesville, Okla. Storage batteries. Serial No. 440,755; Mar. 23. Class 21.

Phillips Petroleum Company, Bartlesville, Okla. Gasoline. Serial No. 457,745; Mar. 23. Class 15.

Pneumatic Scale Corporation, Limited, Norfolk Downs, Mass. Packaging and bottling equipment. Serial No. 411,613; Mar. 23. Class 23.

Pontiac Varnish Company, Pontiac, Mich. Paints, paint enamels, varnishes, etc. Serial No. 453,946; Mar. 23. Class 16.

Premo Pharmaceutical Laboratories, Inc., New York, N. Y. Pharmaceutical preparation. Serial No. 457,922; Mar. 23. Class 6.

Products Corporation of America, Chicago, Ill., and St. Louis, Mo. Wheat germ oil capsules, halibut liver oil capsules, and vitamin capsules. Serial No. 458,338; Mar. 23. Class 6.

Radio Corporation of America, New York, N. Y. Magazine. Serial No. 448,621; Mar. 23. Class 38.

Raniville, F., Company, Grand Rapids, Mich. Belt dressing. Serial No. 457,615; Mar. 23. Class 4.

Recorg Supply Corporation, Chicago, Ill. Preparation of coffee, barley, and chicory. Serial No. 455,872; Mar. 23. Class 46.

Republic Steel Corporation, Cleveland, Ohio. Ferrous metal sheet, strip, and plate. Serial No. 455,544; Mar. 23. Class 14.

Royal Bedding Company, St. Louis, Mo. Mattresses and spring foundations therefor. Serial No. 458,227; Mar. 23. Class 32.

Ruthman Machinery Company, The. Pumps. Serial No. 433,362; Mar. 23. Class 23.

Sears, Roebuck and Co., Chicago, Ill. Dolls. Serial No. 458,229; Mar. 23. Class 22.

Seco Leather Products Company, West New York, N. J. Bill folds. Serial No. 454,992; Mar. 23. Class 3.

Steel Products Corporation, South Windham, Maine. Tackle blocks and parts thereof. Serial No. 455,807; Mar. 23. Class 23.

Stein, Hall Manufacturing Company, Chicago, Ill. Composition for retarding and inhibiting the growth and development of mold in foods and for preserving other products susceptible to the growth of mold. Serial No. 457,664; Mar. 23. Class 6.

Stone, Samuel O., Jr., doing business as Hos-O-Mat, Concord, N. C. Ladies' and men's hosiery. Serial No. 458,050; Mar. 23. Class 39.

Walker-Goulard-Plein Company, Inc., New York, N. Y. Paper-board, cardboard, and writing paper, etc. Serial No. 457,427; Mar. 23. Class 37.

Welmaid Products, Chicago, Ill. Ironing table pads and covers. Serial No. 456,645; Mar. 23. Class 24.

Wooster Brass Company, The, Wooster, Ohio. Fire hose couplings. Serial No. 457,753; Mar. 23. Class 13.

Yard-Man, Inc., Jackson, Mich. Commercial lift trucks. Serial No. 457,488; Mar. 23. Class 19.

Youths Associates Co., Minneapolis, Minn. Periodical. Serial No. 458,215; Mar. 23. Class 38.

LIST OF REGISTRANTS OF TRADE-MARKS

A—C— Devices Company. (See Beymer, Marshall.)

Abernethy, William W., Gastonia, N. C. Medicinal preparation. 400,629; Mar. 23; Serial No. 455,896; published Jan. 12, 1943. Class 6.

Abraham & Straus, Inc., Brooklyn, N. Y. Children's wearing apparel. 400,587; Mar. 23; Serial No. 447,605; published Dec. 29, 1942. Class 39.

Alan Fabrics Corporation, New York, N. Y. Textile fabrics consisting of rayon piece goods. 400,633; Mar. 23; Serial No. 455,993; published Dec. 29, 1942. Class 42.

American Brake Shoe and Foundry Company, The. (See Ramapo Ajax Corporation, assignor.)

American Crayon Company, The, Sandusky, Ohio. Paint. 164,589; renewed Feb. 20, 1943.

American Waltham Watch Company, Boston and Waltham, Mass., and New York, N. Y., assignor to Waltham Watch Company, Waltham, Mass. Watches and parts thereof. 22,859; re-renewed Apr. 25, 1943.

Ames Shovel & Tool Company, Jersey City, N. J., and Boston, Mass., assignor to Ames Baldwin Wyoming Co., Parkersburg, W. Va. Shovels, spades, and scoops. 166,833; renewed Apr. 17, 1943.

Amoskeag-Lawrence Mills, Inc., Manchester, N. H. Piece goods. 400,604; Mar. 23; Serial No. 453,353; published Oct. 13, 1942. Class 42.

Anaconda Copper Mining Company, New York, N. Y. Metals and alloys and ingots. 170,147; renewed July 10, 1943.

Anaconda Wire & Cable Company. (See Tubular Woven Fabric Company, assignor.)

Anderson, Wm., Textile Mfg. Co. Ltd., New York, N. Y. Printed cotton piece goods. 400,653–4; Mar. 23; Serial Nos. 456,448–9; published Jan. 12, 1943. Class 42.

Anderson, Wm., Textile Mfg. Co. Ltd., New York, N. Y. Printed cotton piece goods. 400,655; Mar. 23; Serial No. 456,455; published Jan. 5, 1943. Class 42.

Aubin & Aubin, Phoenix, Ariz. Hair tonic and shampoo. 400,668; Mar. 23; Serial No. 456,619; published Jan. 12, 1943. Class 6.

Avondale Mills, Sylacauga, Ala. Cotton piece goods. 400,651–2; Mar. 23; Serial Nos. 456,413–14; published Jan. 5, 1943. Class 42.

Ayer, Harriet Hubbard, Inc., New York, N. Y. Perfumes. 167,345; renewed May 1, 1943.

Bassons, also doing business as Bassons Dummy Display Products, Maspeth, Long Island, N. Y. Pin cushion. 400,593; Mar. 23; Serial No. 449,881; published Dec. 29, 1942. Class 40.

Baxter Laboratories, Inc., Glenview, Ill. Solutions containing vitamins or constituents thereof and solutions for parenteral therapy. 400,680; Mar. 23; Serial No. 456,819; published Jan. 12, 1943. Class 6.

Bengue, Dr. (See Seltzer, Theodore.)

Beymer, Marshall, doing business as The A—C — Devices Company, Chicago, Ill. Devices for producing and superimposing a carrier wave ionizing current of high oscillation valne. 400,588; Mar. 23; Serial No. 448,355; published Jan. 12, 1943. Class 21.

Bireley's Inc., Hollywood, Calif. Food drinks and products for making the same. 400,580; Mar. 23; Serial No. 419,173; published Jan. 12, 1943. Class 46.

Bock, H. Anton, Co., Inc., New York, N. Y. Cigars, cigarettes, and smoking tobacco. 400,647; Mar. 23; Serial No. 456,332; published Jan. 12, 1943. Class 17.

Bose, Ruth H. (See King, John J., assignor.)

Borden Company, The. (See Merrell-Soule Company, assignor.)

Bost, William D., assignor to Orange-Crush Company, Chicago, Ill. Soft drinks. 171,058; renewed July 31, 1943.

Breier's, Marcus, Sons, New York, N. Y. Sports wear and wearing apparel for men, women, and boys. 400,630; Mar. 23; Serial No. 455,903; published Jan. 12, 1943. Class 39.

Brooke Tool Manufacturing Company Limited, The, Birmingham, England. Milling cutters, reamers, counterborers, etc., all being hand tools having a cutting edge. 400,696; Mar. 23. Class 23.

Brown Boy Bottling Company, Inc., Atlanta, Ga. Beverage and syrup. 400,606; Mar. 23; Serial No. 453,729; published Aug. 4, 1942. Class 45.

Burlington Mills Corporation, Greensboro, N. C. Piece goods. 400,620; Mar. 23; Serial No. 455,171; published Dec. 22, 1942. Class 42.

Burpee, W. Atlee, Co., Philadelphia, Pa. Flower seeds. 170,785; renewed July 24, 1943.

Burpee, W. Atlee, Co., Philadelphia, Pa. Seeds and bulbs. 170,786; renewed July 24, 1943.

Butler, J. W., Paper Company, assignor to Butler Paper Corporation, Chicago, Ill. Papers. 165,323; renewed Mar. 6, 1943.

Cantor Greenspan Co., Inc., New York, N. Y. Rayon piece goods. 400,705; Mar. 23. Class 42.

Carter Products, Inc., New York, N. Y. Medicinal preparation. 400,679; Mar. 23; Serial No. 456,788; published Jan. 12, 1943. Class 6.

Cataract Chemical Company, Inc., Buffalo, N. Y. Adhesive cement and adhesive cement thinner for shoes. 400,611; Mar. 23; Serial No. 454,300; published Jan. 12, 1943. Class 5.

Cicetti, Frederico, doing business as No-Worry Chemical Co., to No-Worry Chemical Co., Newark, N. J. Washing fluid. 170,630; renewed July 17, 1943.

Cinamon, Bessie P. (See Special Chemicals Corporation, assignor.)

Cinamon, Lionel. (See Special Chemicals Corporation, assignor.)

Coast Food Products, Inc., Seattle, Wash. Soy bean sauce. 400,600; Mar. 23; Serial No. 452,742; published Jan. 12, 1943. Class 46.

Cohn-Hall-Marx Co., New York, N. Y. Piece goods. 400,639; Mar. 23; Serial No. 456,096; published Dec. 22, 1942. Class 42.

Columbia Clothing Company, Duluth, Minn. Men's shirts, shorts, gloves, etc. 400,589; Mar. 23; Serial No. 448,602; published Jan. 12, 1943. Class 39.

Commando Shovel Co. (See de Waltoff, Samuel A.)

Comstock Canning Corporation, Newark, N. Y. Frozen vegetables and frozen fruits. 400,708; Mar. 23. Class 46.

Connecticut Telephone & Electric Company, Incorporated, The, Meriden, Conn., assignor, by mesne assignments, to General Electric Company, Schenectady, N. Y. Electric insulating compound and insulating parts of electrical apparatus made therefrom. 165,191; renewed Mar. 6, 1943.

Corning Glass Works, assignor, by mesne assignments, to Corning Glass Works, Corning, N. Y. Glass tea pots. 170,395; renewed July 17, 1943.

Crane & Breed Casket Company, The, Cincinnati, Ohio. Burial caskets. 400,612; Mar. 23; Serial No. 454,329; published Jan. 12, 1943. Class 2.

Davis, A., & Sons, Inc., New York, N. Y. Woolen and worsted fabrics in the piece. 400,664; Mar. 23; Serial No. 456,554; published Jan. 5, 1943. Class 42.

Dayton Rubber Manufacturing Company, The, Dayton, Ohio. Rubber valve caps. 167,687; renewed May 8, 1943.

Dayton Rubber Manufacturing Company, The, Dayton, Ohio. Textile machine parts. 400,642; Mar. 23; Serial No. 456,236; published Dec. 29, 1942. Class 23.

Dean, Edwin, assignor to H. Dean, Hoboken, N. J. Candy. 171,261; renewed July 31, 1943.

Demartini, L., Supply Company, to The L. Demartini Company, San Francisco, Calif., successor. Liquid compound of Mexican vanilla beans, vanillin, and coumarin. 169,993; renewed July 10, 1943.

Detroit White Lead Works, Detroit, Mich. Paints. 167,535; renewed May 1, 1943.

De Waltoff, Samuel A., doing business as Commando Shovel Co., assignor to Commando Shovel Company, Inc., New York, N. Y. Combined sand holder and shovel. 400,628; Mar. 23; Serial No. 455,886; published Dec. 29, 1942. Class 23.

Dewey Foods Products, Inc., Chicago, Ill. Roasted soy beans. 400,691; Mar. 23; Serial No. 457,032; published Jan. 12, 1943. Class 46.

Diamond Calk and Horseshoe Co., Duluth, Minn. Horse shoes and horseshoe calks. 168,676; renewed May 29, 1943.

Dolle, Robert C., doing business as Lakeview Aquatic Farms, Cincinnati, Ohio. Fish foods, turtle and newt food. 400,583; Mar. 23; Serial No. 444,900; published Dec. 2, 1941. Class 46.

Double Mix Company. (See Ryan, William P.)

Douglas, W. L., Shoe Co., Brockton, Mass. Men's, women's, and children's boots, shoes, and slippers. 400,645; Mar. 23; Serial No. 456,308; published Jan. 12, 1943. Class 39.

Electro-Voice Manufacturing Co., Inc., South Bend, Ind. Microphones, microphone stands and microphone accessories. 400,704; Mar. 23. Class 21.

Ely & Walker Dry Goods Company, St. Louis, Mo. Cotton piece goods. 170,310; renewed July 10, 1943.

Ely & Walker Dry Goods Company, St. Louis, Mo. Sheets and pillowcases. 170,702; renewed July 24, 1943.

Enco Chemical Corporation. (See Newberg Chemical Corporation.)

Exhibit Supply Company, Chicago, Ill. Coin-controlled amusement apparatus. 400,686–90; Mar. 23; Serial Nos. 456,978–82; published Jan. 12, 1943. Class 22.

Fairfax Engineering Company, Inc., The, Kansas City, Mo. Machine tools and parts thereof. 400,711; Mar. 23. Class 23.

Fenwal Incorporated, Ashland, Mass. Printed tags, labels, forms, etc. 400,621; Mar. 23; Serial No. 455,261; published Jan. 12, 1943. Class 37.

Finsterwald Clothing Co., assignor to The Fintex Corporation, Detroit, Mich. Men's suits, overcoats, and trousers. 168,069; renewed May 15, 1943.

Fintex Corporation, The. (See Finsterwald Clothing Co., assignor.)

Firestone Tire & Rubber Company, The, Akron, Ohio. Putty knives, sportsmen's knives, hunting knives, etc. 400,603; Mar. 23; Serial No. 453,104; published Jan. 5, 1943. Class 23.

Firestone Tire & Rubber Company, The, Akron, Ohio. Transparent plastic wrapping film. 400,623; Mar. 23; Serial No. 455,336; published Jan. 12, 1943. Class 37.

Fontana Food Products Company, San Francisco, to Fontana Food Products Company, South San Francisco, Calif. Macaroni products, canned fruits, canned vegetables, etc. 170,507; renewed July 17, 1943.

Foreman Fabrics, Inc., New York, N. Y. Piece goods. 400,632; Mar. 23; Serial No. 455,972; published Dec. 29, 1942. Class 42.

Fuller Bros. Ltd., New York, N. Y. Mallets and hammers. 400,715; Mar. 23. Class 23.

General Electric Company. (See Connecticut Telephone & Electric Company, Incorporated, The, assignor.)

General Electric Company, Schenectady, N. Y. Electric fans. 164,398; renewed Feb. 20, 1943.

General Mills, Inc., Minneapolis, Minn. Stock feed. 400,683; Mar. 23; Serial No. 456,886; published Jan. 12, 1943. Class 46.

General Motors Corporation. (See Pharis Tire and Rubber Company, The.)

George Brothers, Dinuba, Calif. Fresh fruits—namely, fresh grapes. 400,586; Mar. 23; Serial No. 447,183; published Dec. 2, 1941. Class 46.

Gillette Safety Razor Company, Boston, Mass. Safety razors. 400,590; Mar. 23; Serial No. 448,694; published Jan. 5, 1943. Class 23.

Gillette Safety Razor Company, Boston, Mass. Safety razors. 400,681; Mar. 23; Serial No. 456,869; published Jan. 5, 1943. Class 23.

Gillette Safety Razor Company, Boston, Mass. Safety razors. 400,682; Mar. 23; Serial No. 456,871; published Jan. 5, 1943. Class 23.

Glasco Products Company, Chicago, Ill. Chemical, scientific, and laboratory glassware. 400,598; Mar. 23; Serial No. 452,232; published Jan. 12, 1943. Class 26.

Goldberg-Held, New York, N. Y. Women's coats, jackets, muffs, etc. 400,644; Mar. 23; Serial No. 456,284; published Jan. 5, 1943. Class 39.

Goodman, M., & Son, New York, N. Y. Hosiery. 400,631; Mar. 23; Serial No. 455,914; published Dec. 22, 1942. Class 39.

Goldsmith's, P., Sons, assignors to The P. Goldsmith Sons Company, assignors to Sport Products, Inc., Cincinnati, Ohio. Caps, men's sport clothes, ladies' sport clothes. 171,192; renewed July 31, 1943.

Granat Bros., Inc., San Francisco, Calif. Jewelry. 400,701; Mar. 23. Class 28.

Gray Marine Motor Company, Detroit, Mich. Marine engines, parts, and auxiliary units. 400,707; Mar. 23. Class 23.

Haiku Fruit & Packing Co., Haiku, Maui, Hawaii, and San Francisco, Calif., assignor to Hawaiian Pineapple Company, Ltd., Honolulu, Hawaii, and San Francisco, Calif. Canned pineapple. 171,266; renewed July 31, 1943.

Halstead, James, Limited, Manchester, England. Piece goods. 400,582; Mar. 23; Serial No. 444,375; published Jan. 12, 1943. Class 42.

Hawaiian Pineapple Company, Ltd. (See Haiku Fruit & Packing Co., assignor.)

Hawaiian Pineapple Company, Ltd., assignor to Hawaiian Pineapple Company, Ltd., Honolulu, Hawaii, and San Francisco, Calif. Canned pineapple. 171,197; renewed July 31, 1943.

Hayssen, H. H., Company, Inc., The, Seneca Falls, N. Y., to C. W. Hayssen, Mobile and Montgomery, Ala., successor. Goiter treatments. 164,616; renewed Feb. 20, 1943.

Hego Fabrics, Inc., New York, N. Y. Piece goods. 400,608; Mar. 23; Serial No. 454,055; published Jan. 12, 1943. Class 42.

Highland Cordage Company, Highland and Hickory, to Highland Cordage Company, Hickory, N. C. Cords, twines, ropes, etc. 171,217; renewed July 31, 1943.

Holtite Manufacturing Company, The, Baltimore, Md. Rubber heels for shoes. 166,552; renewed Apr. 10, 1943.

Hurd, George B., & Co., to George B. Hurd Inc., New York, N. Y., successor. Writing paper and envelopes. 21,138; re-renewed May 17, 1942.

Huyler's, New York, to Huyler's, Long Island City, N. Y. Candy and confections. 169,758; renewed July 3, 1943.

Hydrabuster Company, Benton, Ill. Hydraulically operated coal-mining machines. 400,650; Mar. 23; Serial No. 456,391; published Dec. 29, 1942. Class 23.

Hydraulic Machinery, Inc., Detroit, Mich. Hydraulic power transmission circuits and parts thereof. 400,622; Mar. 23; Serial No. 455,268; published Jan. 5, 1943. Class 23.

Hydraulic Press Manufacturing Company, The, Mount Gilead, Ohio. Hydraulic presses, injection molding machines, die casting machines and hydraulic pumps. 400,672; Mar. 23; Serial No. 456,686; published Jan. 5, 1943. Class 23.

Inland Steel Company. (See Milwaukee Rolling Mill Company, assignor.)

International Mutoscope Reel Co. Inc., Long Island City, N. Y. Phonograph records and voice recording and reproducing machines. 400,640; Mar. 23; Serial No. 456,123; published Jan. 12, 1943. Class 36.

Jersey Carpet Corporation, Clifton, N. J. Rugs and carpets. 400,619; Mar. 23; Serial No. 454,910; published Dec. 22, 1942. Class 42.

Kansas City Macaroni & Importing Co., doing business under the abbreviated title of Kansas City Macaroni Co., Kansas City, Mo., by change of name to Kansas City Macaroni & Importing Co. Macaroni, spaghetti, ready-cut macaroni, etc. 171,169; renewed July 31, 1943.

Kaufmann Department Stores, Inc., Pittsburgh, Pa. Ladies' and misses' ready-to-wear clothing. 400,694; Mar. 23. Class 39.

Kensington Steel Company, Chicago, Ill. Manganese and steel and rough and partly finished manganese and steel castings. 400,709; Mar. 23. Class 14.

Kensington Steel Company, Chicago, Ill. Gears, pinions, mixer arms, etc. 400,710; Mar. 23. Class 23.

Kentucky Looms, Inc., The, Louisville, Ky. Shawl used as a shawl or as a hood. 400,610; Mar. 23; Serial No. 454,232; published Dec. 29, 1942. Class 39.

Keystone Lubricating Company, Philadelphia, Pa. Lubricants. 171,209–10; renewed July 31, 1943.

King Candy Company, Fort Worth, Tex. Candies. 171,257; renewed July 31, 1943.

King, John J., assignor to R. H. Booe, Frankfort, Ky. Candies. 164,801; renewed Feb. 27, 1943.

Klean-Kote Company, Pittsburg, Kans. Chemical solution for treating coal for rendering the same dust-proof. 400,698; Mar. 23. Class 6.

Kleinkramer, Simon, doing business as Perfumery Lybozo, New York, N. Y. Perfume, hand cream, cold cream, etc. 400,697; Mar. 23. Class 6.

Kraft, J. L., & Bros. Co., assignor, by mesne assignments, to Kraft Cheese Company, Chicago, Ill. Cheese. 167,054; renewed Apr. 24, 1943.

L. A. Nut House, Los Angeles, Calif. Potato chips, peanut butter, candy, etc. 400,656; Mar. 23; Serial No. 456,467; published Jan. 12, 1943. Class 46.

Lakeview Aquatic Farms. (See Dolle, Robert C.)

Lambert Pharmacal Company, to Lambert Pharmacal Company, St. Louis, Mo. A medicated tablet for the relief of indigestion and ailments of the throat. 168,134; renewed May 15, 1943.

Lance Packing Co., assignor to Lance, Inc., Charlotte, N. C. Candy, peanut butter, peanut butter sandwich, etc. 170,701; renewed July 24, 1943.

Lederle Laboratories, Inc., New York, N. Y. Medicinal preparation for the treatment of poison ivy. 400,665; Mar. 23; Serial No. 456,606; published Jan. 5, 1943. Class 6.

Lee Laboratories Incorporated. (See Sanitas Company, Inc., The, assignor.)

Lewel Mfg. Co., Inc., New York, N. Y. Corsets and foundation garments. 400,662; Mar. 23; Serial No. 456,535; published Jan. 5, 1943. Class 39.

Liebmann Breweries, Inc., Brooklyn, N. Y. Ale. 400,666; Mar. 23; Serial No. 456,607; published Jan. 5, 1943. Class 48.

Longines-Wittnauer Co. Inc., The, New York, N. Y. Watches and clocks. 400,692; Mar. 23. Class 27.

Mallory, George B., doing business as Soap-Eater Co. of America, Albuquerque, N. Mex. Washing powder. 400,597; Mar. 23; Serial No. 452,195; published Jan. 12, 1943. Class 4.

Marsh, Jordan, Company, Boston, Mass. Bindings, snap fasteners, dress shields, etc. 163,957; renewed Feb. 6, 1943.

Marsh, Jordan, Company, Boston, Mass. Boots and shoes. 164,021; renewed Feb. 6, 1943.

Marshall Field & Company, Chicago, Ill. Pins and needles. 168,205; renewed May 15, 1943.

Marta Cigar Company, New York, N. Y. Cigars. 400,643; Mar. 23; Serial No. 456,242; published Jan. 12, 1943. Class 17.

McKay Company, New York, N. Y. Compound for coloring electric bulbs. 170,372; renewed July 17, 1943.

McKay Company, New York, N. Y. Chemical compound for etching glass. 170,751; renewed July 24, 1943.

Medina Medical Co. (See Simon, Richard.)
Merrell-Soule Company, Syracuse, assignor, by mesne assignments, to The Borden Company, New York, N. Y. Whole-milk powder. 171,105; renewed July 31, 1943.
Milwaukee Rolling Mill Company, Greenfield, Wis., assignor to Inland Steel Company, Chicago, Ill. Sheet steel. 164,743; renewed Feb. 27, 1943.
Minnesota Valley Canning Company, Le Sueur, Minn. Canned corn and peas. 400,693; Mar. 23. Class 46.
Montgomery, Wm., Company, Philadelphia, Pa. Lemon soda, ginger ale, root beer, etc. 400,678; Mar. 23; Serial No. 456,785; published Jan. 5, 1943. Class 45.
Mooresville Co-Operative Creamery Co., Inc., The, Mooresville, N. C. Butter. 170,897; renewed July 24, 1943.
Movietonews, Inc., New York, N. Y. Motion picture films. 400,616; Mar. 23; Serial No. 454,641; published Jan. 12, 1943. Class 26.
Naco Fertilizer Company, New York, N. Y. Insecticide dust. 400,595–6; Mar. 23; Serial Nos. 452,022–3; published June 16, 1942. Class 6.
Nash Coffee Company, to Nash-Finch Company, Minneapolis, Minn., successor. Peanut butter. 166,439; renewed Apr. 3, 1943.
Nashua Manufacturing Company, Boston, Mass. Blankets. 400,614; Mar. 23; Serial No. 454,453; published Dec. 29, 1942. Class 42.
National Fabrics Corporation, New York, N. Y. Piece goods of silk, wool, cotton, etc. 400,714; Mar. 23. Class 42.
National Machine Products Company, Detroit, Mich. Nuts. 400,700; Mar. 23. Class 13.
Newberg Chemical Corporation, now by change of name Enco Chemical Corporation, New York, N. Y. Lecithin and lecithin containing compounds. 400,592; Mar. 23; Serial No. 449,498; published Mar. 10, 1942. Class 6
No-Worry Chemical Co. (See Cicetti, Frederico.)
Orange-Crush Company. (See Bost, William D., assignor.)
Paul, John, Co., Bangor, Maine. Outer shirts, pants, overalls, men's and women's industrial work uniforms, etc. 400,712; Mar. 23. Class 39.
Pedigree Fabrics, Inc., New York, N. Y. Rayon piece goods. 400,663; Mar. 23; Serial No. 456,541; published Jan. 5, 1943. Class 42.
Perfumery Lybozo. (See Kleinkramer, Simon.)
Peter Pan Foundations, Inc., New York, N. Y. Brassière. 400,675; Mar. 23; Serial No. 456,749; published Jan. 12, 1943. Class 39.
Pfeiffer, S., Manufacturing Company, St. Louis, Mo. Medicinal preparation. 170,205; renewed July 10, 1943.
Pharis Tire and Rubber Company, The, Newark, Ohio, assignor to General Motors Corporation, Detroit, Mich. Pneumatic tires and tubes for vehicle wheels. 400,581; Mar. 23; Serial No. 442,329; published May 27, 1941. Class 35.
Philco Corporation, Philadelphia, Pa. Piece goods. 400,591; Mar. 23; Serial No. 449,155; published Jan. 12, 1943. Class 42.
Philco Corporation, Philadelphia, Pa. Vegetable bins. 400,615; Mar. 23; Serial No. 454,607; published Jan. 12, 1943. Class 2.
Plainville Electrical Products Company, The, Plainville, Conn. Knife switches, panel boards, switchboards and fuse reducers. 171,073; renewed July 31, 1943.
Pondel Fabrics, Inc., Pawtucket, R. I. Fabrics in the piece made of rayon. 400,634; Mar. 23; Serial No. 456,031; published Dec. 29, 1942. Class 42.
Pondel Fabrics, Inc., Pawtucket, R. I. Fabrics in the piece made of rayon. 400,635–6; Mar. 23; Serial Nos. 456,044–5; published Dec. 29, 1942. Class 42.
Pondel Fabrics, Inc., Pawtucket, R. I. Fabrics in the piece made of rayon. 400,637; Mar. 23; Serial No. 456,047; published Dec. 29, 1942. Class 42.
Premo Pharmaceutical Laboratories, Inc., New York, N. Y. Pharmaceutical preparation. 400,670; Mar. 23; Serial No. 456,658; published Jan. 12, 1943. Class 6.
Prince Matchabelli, Inc., New York, N. Y. Perfume. 400,684; Mar. 23; Serial No. 456,897; published Jan. 12, 1943. Class 6.
Prince Matchabelli, Inc., New York, N. Y. Cologne and dusting powder. 400,685; Mar. 23; Serial No. 456,898; published Jan. 12, 1943. Class 6.
Racine Universal Motor Company, Chicago, Ill., to Racine Universal Motor Company, Racine, Wis., successor. Electrical products. 164,695; renewed Feb. 27, 1943.
Ramapo Ajax Corporation, assignor to The American Brake Shoe and Foundry Company, New York, N. Y. Railway track material. 169,851; renewed July 3, 1943.
Rawnsley, S. H., Limited, Wilsden, Bradford, Yorkshire, England. Piece goods. 400,613; Mar. 23; Serial No. 454,434; published Jan. 12, 1943. Class 42.
Reciprocal Trade Corporation, New York, N. Y. Air raid shelter construction materials consisting of cement and steel wire reinforcements. 400,699; Mar. 23. Class 12.
Reed Corporation of America, Los Angeles, Calif. Reeds for wood-wind musical instruments. 400,626; Mar. 23; Serial No. 455,711; published Jan. 12, 1943. Class 36.
Rosenberg Bros. & Co., San Francisco, Calif. Dried fruits. 400,703; Mar. 23. Class 46.
Royal Typewriter Company, Inc., New York, N. Y. Carbon paper. 400,659; Mar. 23; Serial No. 456,510; published Jan. 12, 1943. Class 11.
Royce Chemical Company, Carlton Hill, N. J. Synthetic resin. 400,660; Mar. 23; Serial No. 456,511; published Jan. 5, 1943. Class 6.
Ryan, William P., doing business as Double Mix Company, assignor to Double-Mix, Inc., Kansas City, Mo. Composition for use with milk and butter or oleomargarine to produce a spread. 400,599; Mar. 23; Serial No. 452,623; published Jan. 12, 1943. Class 6.
Salisbury, W. H., & Co., Chicago, Ill. Rubber blankets used to cover high potential electrical devices. 400,713; Mar. 23. Class 50.
Sands, Taylor & Wood Co., Boston, to Sands, Taylor & Wood Company, Somerville, Mass. Wheat flour. 170,857–8; renewed July 24, 1943.
Sandura Company, Inc., Philadelphia, Pa. Printed felt base floor coverings. 400,667; Mar. 23; Serial No. 456,615; published Jan. 12, 1943. Class 20.
Sandvik Saw & Tool Corporation, New York, N. Y. Saw files. 400,676; Mar. 23; Serial No. 456,754; published Jan. 5, 1943. Class 23.
Sandvik Saw & Tool Corporation, New York, N. Y. Files. 400,677; Mar. 23; Serial No. 456,755; published Jan. 5, 1943. Class 23.
Sanitas Company, Inc., The, Jersey City, N. J., and Brooklyn, N. Y., assignor to Lee Laboratories Incorporated, Cambridge, Mass. Shampoo preparation. 165,608; renewed Mar. 13, 1943.
Sanitas Company, Inc., The, Jersey City, N. J., and Brooklyn, N. Y., assignor to Lee Laboratories Incorporated, Cambridge, Mass. Shampoo preparation. 165,622; renewed Mar. 13, 1943.
Sapolin Co. Inc., New York, N. Y. Interior paints. 400,658; Mar. 23; Serial No. 456,497; published Jan. 12, 1943. Class 16.
Sargo Company, New York, N. Y. Game. 400,657; Mar. 23; Serial No. 456,473; published Jan. 12, 1943. Class 22.
Saxe Rushworth Co. Inc., New York, N. Y. Extract used in tanning leather. 400,605; Mar. 23; Serial No. 453,586; published Jan. 5, 1943. Class 6.
Schwartz & Benjamin Inc., New York, N. Y. Ladies' and misses' shoes and slippers. 400,618; Mar. 23; Serial No. 454,879; published Jan. 12, 1943. Class 39.
Seal-Sac, Inc., New York, N. Y. Bowl covers and electrical appliance covers. 400,627; Mar. 23; Serial No. 455,875; published Jan. 12, 1943 Class 50.
Seeman Brothers, assignor to Seeman Brothers, Inc., New York, N. Y. Canned fruits. 23,089; re-renewed May 23, 1943.
Seeman Brothers, assignor to Seeman Brothers, Inc., New York, N. Y. Cereal products. 23,126; re-renewed May 30, 1943.
Seltzer, Theodore, doing business as Dr. Bengue, West Hoboken, assignor to Bengue, Inc., Union City, N. J. Remedy for use in the treatment of rheumatism, gout, neuralgia. 163,167; renewed Jan. 2, 1943.
Shellmar Products Company, Mount Vernon, Ohio. Wraps of laminated transparent material. 400,602; Mar. 23; Serial No. 453,044; published Jan. 12, 1943. Class 37.
Shirley Fabrics Corporation, New York, N. Y. Textile fabrics in the piece. 400,638; Mar. 23; Serial No. 456,084; published Jan. 5, 1943. Class 42.
Simon, Richard, doing business as Medina Medical Co., Chicago, Ill. Preparation for treating wounds and sores. 400,601; Mar. 23; Serial No. 452,871; published Jan. 12, 1943. Class 6.
Smith & Egge Manf'g. Co., The, Bridgeport, assignor to The Turner & Seymour Manufacturing Company, Torrington, Conn. Sheet metal chains. 171,090; renewed July 31, 1943.
Smith, J. Allen & Company, Knoxville, Tenn. Stock feed. 171,611; renewed July 31, 1943.
Soap-Eater Co. of America. (See Mallory, George B.)
Socony-Vacuum Oil Company, Incorporated. (See Standard Oil Company of New York.)
Soff, Leroy D., doing business as Specialty Chemical Co., Long Island City, N. Y. Preparation suitable for treatment of athlete's foot, minor cuts and lacerations, burns, etc. 400,669; Mar. 23; Serial No. 456,632; published Jan. 5, 1943. Class 6.
Special Chemicals Corporation, assignor to Lionel Cinamon and Bessie P. Cinamon, doing business as Special Chemicals Company, New York, N. Y. Mixture of chemicals to impart non-oxidizing qualities. 400,673; Mar. 23; Serial No. 456,696; published Jan. 5, 1943. Class 6.
Specialty Chemical Co. (See Soff, Leroy D.)
Special Chemicals Corporation, assignor to Lionel Cinamon and Bessie P. Cinamon, doing business as Special Chemicals Company, New York, N. Y. Mixture of chemicals used for soldering, welding, and brazing. 400,674; Mar. 23; Serial No. 456,701; published Jan. 5, 1943. Class 6.
Sport Products, Inc. (See Goldsmith's, P., Sons, assignor.)
Standard Oil Company of New York, New York, N. Y., by change of name to Socony-Vacuum Oil Company, Incorporated. Lubricating grease. 167,800; renewed May 8, 1943.
Standard Oil Company of New York, New York, N. Y., by change of name to Socony-Vacuum Oil Company, Incorporated. Petroleum and products of petroleum. 169,461–3; renewed June 19, 1943.

Stanley Works, The, New Britain, Conn. Hammer. 171,249; renewed July 31, 1943.
Sterling Textile Printers Inc., New York, N. Y. Cotton, rayon, wool, etc., piece goods. 400,594; Mar. 23; Serial No. 451,323; published Dec. 29, 1942. Class 42.
Straus & Schram, Chicago, Ill. Household furniture. 400,609; Mar. 23; Serial No. 454,154; published Jan. 12, 1943. Class 32.
Stroock, S., & Co., Inc., New York, N. Y. Woolen piece goods. 400,706; Mar. 23. Class 42.
Thermatomic Carbon Co., Pittsburgh, Pa., to Thermatomic Carbon Company, New York, N. Y. Pigments for paints. 165,195; renewed Mar. 6, 1943.
Thermatomic Carbon Co., Pittsburgh, Pa., to Thermatomic Carbon Company, New York, N. Y. Printing inks. 166,590; renewed Apr. 10, 1943.
Tubbs Cordage Company, San Francisco, Calif. Sisal rope. 170,595; renewed July 17, 1943.
Tubbs Cordage Company, San Francisco, Calif. Rope. 170,596; renewed July 17, 1943.
Tubular Woven Fabric Company, Pawtucket, R. I., assignor to Anaconda Wire & Cable Company, New York, N. Y. Protective covering for electrical wires. 170,391; renewed July 17, 1943.
Turner & Seymour Manufacturing Company, The. (See Smith & Egge Manf'g. Co., The, assignor.)
Union-Baystate Co., Inc., Cambridge, Mass. Adhesive cement. 400,671; Mar. 23; Serial No. 456,678; published Jan. 12, 1943. Class 5.
United States Dental Manufacturing Co., The, Cleveland, Ohio. Dental tools and appliances. 164,254; renewed Feb. 13, 1943.
United States Finishing Company, The, Norwich, Conn. Piece goods. 400,584; Mar. 23; Serial No. 445,565; published Sept. 8, 1942. Class 42.
U. S. Hame Company, by merger to Ushco Manufacturing Company, Inc., Buffalo, N. Y. Hames, hame trimmings, and saddlery hardware. 171,211–12; renewed July 31, 1943.
Ushco Manufacturing Company, Inc. (See U. S. Hame Company.)
Vanity Fair Silk Mills, Reading, Pa., by change of name to Vanity Fair Mills, Inc. Ladies' silk underwear. 171,198; renewed July 31, 1943.
Victory Placket Co., New York, N. Y. Button and buttonhole tape. 400,641; Mar. 23; Serial No. 456,134; published Dec. 29, 1942. Class 40.
Vivette Foundations, Inc., New York, N. Y. Girdles, corsets, brassières, etc. 400,607; Mar. 23; Serial No. 453,764; published Jan. 5, 1943. Class 39.
Wales Chemical Co. (See Weinberg, Louis.)
Wallace, John H., Jr., doing business as Wallace Laboratories, assignor to Wallace Laboratories, Inc., New Brunswick, N. J. Pharmaceutical ointment with antiseptic properties. 400,624; Mar. 23; Serial No. 455,463; published Jan. 5, 1943. Class 6.
Wallace, R., & Sons Manufacturing Company, Wallingford, Conn. Sterling silver flatware and sterling silver hollow ware. 400,702; Mar. 23. Class 28.
Waltham Watch Company. (See American Waltham Watch Company, assignor.)
Warren Featherbone Co., The, Three Oaks, Mich. Baby pants. 400,661; Mar. 23; Serial No. 456,519; published Jan. 5, 1943. Class 39.
Weinberg, Louis, doing business as Wales Chemical Co., Brooklyn, N. Y. Epsom salt, bicarbonate of soda, aspirin, etc. 400,716; Mar. 23. Class 6.
Wester Bros., assignor, by mesne assignments, to Herbert Wester, doing business as Wester Bros., New York, N. Y. Cutlery. 166,646; renewed Apr. 10, 1943.
Wheeler, Jack L., Brisbane, Calif. Garment pressing form. 400,695; Mar. 23. Class 24.
White, Ed. & Sons, Yukon, Fla. Men's clothing. 400,625; Mar. 23; Serial No. 455,686; published Jan. 12, 1943. Class 39.
Whitin, Paul, Manufacturing Company, The, Northbridge, Mass. Fabrics made of rayon, cellulose acetate rayon, silk, etc. 400,617; Mar. 23; Serial No. 454,771; published Jan. 5, 1943. Class 42.
Wimelbacher & Rice, New York, N. Y. Leather and fabric gloves. 400,648; Mar. 23; Serial No. 456,352; published Jan. 12, 1943. Class 39.
Wolferman, Fred, Co., to Fred Wolferman, Incorporated, Kansas City, Mo., successor. Coffee. 135,562; renewed Oct. 20, 1940.
Woolsey, C. A., Paint & Color Co. Inc., New York, N. Y. Paints, paint enamels, varnishes, etc. 400,649; Mar. 23; Serial No. 456,354; published Jan. 12, 1943. Class 16.
Zaninovich, George, doing business as Zaninovich Bros., Dinuba, Calif. Fresh citrus fruit. 400,585; Mar. 23; Serial No. 446,849; published June 16, 1942. Class 46.
Zaninovich, Minnie, doing business as Antone Zaninovich & Sons., Orange Cove, Calif. Fresh grapes. 400,646; Mar. 23; Serial No. 456,329; published Jan. 12, 1943. Class 46.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Seeds and bulbs. W. Atlee Burpee Co. 170,786; renewed July 24, 1943.
Seeds, Flower. W. Atlee Burpee Co. 170,785; renewed July 24, 1943.

CLASS 2

Bins, Vegetable. Philco Corporation. 400,615; Mar. 23; Serial No. 454,607; published Jan. 12, 1943.
Caskets, Burial. Crane & Breed Casket Company. 400,612; Mar. 23; Serial No. 454,329; published Jan. 12, 1943.

CLASS 3

Hames, hame trimmings, and saddlery hardware. U. S. Hame Company. 171,211–12; renewed July 31, 1943.
Horseshoes and horseshoe calks. Diamond Calk and Horseshoe Co. 168,676; renewed May 29, 1943.

CLASS 4

Washing fluid. F. Cicetti. 170,630; renewed July 17, 1943.
Washing powder. G. B. Mallory. 400,597; Mar. 23; Serial No. 452,195; published Jan. 12, 1943.

CLASS 5

Adhesive cement. Union-Baystate Co. 400,671; Mar. 23; Serial No. 456,678; published Jan. 12, 1943.
Cement and adhesive cement thinner for shoes. Cataract Chemical Company. 400,611; Mar. 23; Serial No. 454,300; published Jan. 12, 1943.

CLASS 6

Chemical compound for etching glass. McKay Company. 170,751; renewed July 24, 1943.
Chemical solution for treating coal for rendering the same dustproof. Klean-Kote Company. 400,698; Mar. 23.
Chemicals to impart non-oxidizing qualities, Mixture of. Special Chemicals Corporation. 400,673; Mar. 23; Serial No. 456,696; published Jan. 5, 1943.
Chemicals used for soldering, welding, and brazing, Mixture of. Special Chemicals Corporation. 400,674; Mar. 23; Serial No. 456,701; published Jan. 5, 1943.
Cologne and dusting powder. Prince Matchabelli, Inc. 400,685; Mar. 23; Serial No. 456,898; published Jan. 12, 1943.
Composition for use with milk and butter or oleomargarine to produce a spread. W. P. Ryan. 400,599; Mar. 23; Serial No. 452,623; published Jan. 12, 1943.
Compound for coloring electric bulbs. McKay Company. 170,372; renewed July 17, 1943.
Epsom salt, bicarbonate of soda, aspirin, etc. L. Weinberg. 400,716; Mar. 23.
Extract used in tanning leather. Saxe Rushworth Co. Inc. 400,605; Mar. 23; Serial No. 453,586; published Jan. 5, 1943.
Goiter treatments. H. H. Hayssen Company. 164,616; renewed Feb. 20, 1943.
Insecticide dust. Naco Fertilizer Company. 400,595–6; Mar. 23; Serial Nos. 452,022–3; published June 16, 1942.
Lecithin and lecithin containing compounds. Neuberg Chemical Corporation. 400,592; Mar. 23; Serial No. 449,498; published Mar. 10, 1942.
Medicated tablet for relief of indigestion and ailments of the throat. A. Lambert Pharmacal Company. 168,134; renewed May 15, 1943.
Medicinal preparation. W. W. Abernethy. 400,629; Mar. 23; Serial No. 455,896; published Jan. 12, 1943.
Medicinal preparation. Carter Products, Inc. 400,679; Mar. 23; Serial No. 456,788; published Jan. 12, 1943.
Medicinal preparation. S. Pfeiffer Manufacturing Company. 170,205; renewed July 10, 1943.
Medicinal preparation for the treatment of poison ivy. Lederle Laboratories, Inc. 400,665; Mar. 23; Serial No. 456,606; published Jan. 5, 1943.
Perfume. Prince Matchabelli, Inc. 400,684; Mar. 23; Serial No. 456,897; published Jan. 12, 1943.
Perfume, hand cream, cold cream, etc. S. Kleinkramer. 400,697; Mar. 23.
Perfumes. Harriet Hubbard Ayer, Inc. 167,345; renewed May 1, 1943.
Pharmaceutical ointment with antiseptic properties. J. H. Wallace, Jr. 400,624; Mar. 23; Serial No. 455,463; published Jan. 5, 1943.
Pharmaceutical preparation. Premo Pharmaceutical Laboratories, Inc. 400,670; Mar. 23; Serial No. 456,658; published Jan. 12, 1943.
Preparation for treating wounds and sores. R. Simon. 400,601; Mar. 23; Serial No. 452,871; published Jan. 12, 1943.
Preparation suitable for treatment of athlete's foot, minor cuts and lacerations, burns, etc. L. D. Soff. 400,669; Mar. 23; Serial No. 456,632; published Jan. 5, 1943.

Remedy for use in the treatment of rheumatism, gout, neuralgia. T. Seltzer. 163,167; renewed Jan. 2, 1943.
Resin, Synthetic. Royce Chemical Company. 400,660; Mar. 23; Serial No. 456,511; published Jan. 5, 1943.
Shampoo preparation. Sanitas Company. 165,608; renewed Mar. 13, 1943.
Shampoo preparation. Sanitas Company. 165,622; renewed Mar. 13, 1943.
Solutions containing vitamins or constituents thereof and solutions for parenteral therapy. Baxter Laboratories, Inc. 400,680; Mar. 23; Serial No. 456,819; published Jan. 12, 1943.
Tonic and shampoo, Hair. Aubin & Aubin. 400,668; Mar. 23; Serial No. 456,619; published Jan. 12, 1943.

CLASS 7

Cords, twines, ropes, etc. Highland Cordage Company. 171,217; renewed July 31, 1943.
Rope. Tubbs Cordage Company. 170,596; renewed July 17, 1943.
Rope, Sisal. Tubbs Cordage Company. 170,595; renewed July 17, 1943.

CLASS 11

Carbon paper. Royal Typewriter Company. 400,659; Mar. 23; Serial No. 456,510; published Jan. 12, 1943.
Inks, Printing. Thermatomic Carbon Co. 166,590; renewed Apr. 10, 1943.

CLASS 12

Construction materials consisting of cement and steel wire reinforcements. Air raid shelter. Reciprocal Trade Corporation. 400,699; Mar. 23.

CLASS 13

Chains, Sheet-metal. Smith & Egge Manf'g. Co. 171,090; renewed July 31, 1943.
Nuts. National Machine Products Company. 400,700; Mar. 23.

CLASS 14

Manganese and steel and rough and partly finished manganese and steel castings. Kensington Steel Company. 400,709; Mar. 23.
Metals and alloys and ingots. Anaconda Copper Mining Company. 170,147; renewed July 10, 1943.
Railway track material. Ramapo Ajax Corporation. 169,851; renewed July 3, 1943.
Steel, Sheet. Milwaukee Rolling Mill Company. 164,743; renewed Feb. 27, 1943.

CLASS 15

Grease, Lubricating. Standard Oil Company of New York. 167,800; renewed May 8, 1943.
Lubricants. Keystone Lubricating Company. 171,209–10; renewed July 31, 1943.
Petroleum and products of petroleum. Standard Oil Company of New York. 169,461–3; renewed June 19, 1943.

CLASS 16

Paint. American Crayon Company. 164,589; renewed Feb. 20, 1943.
Paints. Detroit White Lead Works. 167,535; renewed May 1, 1943.
Paints, Interior. Sapolin Co. Inc. 400,658; Mar. 23; Serial No. 456,497; published Jan. 12, 1943.
Paints, paint enamels, varnishes, etc. C. A. Woolsey Paint & Color Co. Inc. 400,649; Mar. 23; Serial No. 456,354; published Jan. 12, 1943.
Pigments for paints. Thermatomic Carbon Co. 165,195; renewed Mar. 6, 1943.

CLASS 17

Cigars. Marta Cigar Company. 400,643; Mar. 23; Serial No. 456,242; published Jan. 12, 1943.
Cigars, cigarettes, and smoking tobacco. H. Anton Bock Co., Inc. 400,647; Mar. 23; Serial No. 456,332; published Jan. 12, 1943.

CLASS 20

Floor coverings, Printed felt base. Sandura Company. 400,667; Mar. 23; Serial No. 456,615; published Jan. 12, 1943.

CLASS 21

Covering for electrical wires, Protective. Tubular Woven Fabric Company. 170,391; renewed July 17, 1943.
Devices for producing and superimposing a carrier wave ionizing current of high oscillation value. M. Beymer. 400,588; Mar. 23; Serial No. 448,355; published Jan. 12, 1943.
Electric insulating compound and insulating parts of electrical apparatus made therefrom. Connecticut Telephone & Electric Company. 165,191; renewed Mar. 6, 1943.
Electrical products. Racine Universal Motor Company. 164,695; renewed Feb. 27, 1943.
Fans, Electric. General Electric Company. 164,398; renewed Feb. 20, 1943.
Microphones, microphone stands and microphone accessories. Electro-Voice Manufacturing Co. 400,704; Mar. 23.
Switches, panel boards, switchboards, and fuse reducers. Knife. Plainville Electrical Products Company. 171,073; renewed July 31, 1943.

CLASS 22

Coin-controlled amusement apparatus. Exhibit Supply Company. 400,686–90; Mar. 23; Serial No. 456,978–82; published Jan. 12, 1943.
Game. Sargo Company. 400,657; Mar. 23; Serial No. 456,473; published Jan. 12, 1943.

CLASS 23

Coal-mining machines, Hydraulically operated. Hydrabuster Company. 400,650; Mar. 23; Serial No. 456,391; published Dec. 29, 1942.
Cutlery. Wester Bros. 166,646; renewed Apr. 10, 1943.
Cutters, reamers, counterbores, etc., Milling, all being hand tools having a cutting edge. Brooke Tool Manufacturing Company Limited. 400,696; Mar. 23.
Files. Sandvik Saw & Tool Corporation. 400,677; Mar. 23; Serial No. 456,755; published Jan. 5, 1943.
Gears, pinions, mixer arms, etc. Kensington Steel Company. 400,710; Mar. 23.
Hammer. Stanley Works. 171,249; renewed July 31, 1943.
Hydraulic power transmission circuits and parts thereof. Hydraulic Machinery, Inc. 400,622; Mar. 23; Serial No. 455,268; published Jan. 5, 1943.
Hydraulic presses, injection molding machines, die casting machines and hydraulic pumps. Hydraulic Press Manufacturing Company. 400,672; Mar. 23; Serial No. 456,686; published Jan. 5, 1943.
Machine tools and parts thereof. Fairfax Engineering Company. 400,711; Mar. 23.
Mallets and hammers. Fuller Bros. Ltd. 400,715; Mar. 23.
Marine engines, parts, and auxiliary units. Gray Marine Motor Company. 400,707; Mar. 23.
Putty knives, sportsmen's knives, hunting knives, etc. Firestone Tire & Rubber Company. 400,603; Mar. 23; Serial No. 453,104; published Jan. 5, 1943.
Razors, Safety. Gillette Safety Razor Company. 400,590; Mar. 23; Serial No. 448,694; published Jan. 5, 1943.
Razors, Safety. Gillette Safety Razor Company. 400,681; Mar. 23; Serial No. 456,869; published Jan. 5, 1943.
Razors, Safety. Gillette Safety Razor Company. 400,682; Mar. 23; Serial No. 456,871; published Jan. 5, 1943.
Sand holder and shovel, Combined. S. A. de Waltoff. 400,628; Mar. 23; Serial No. 455,886; published Dec. 29, 1942.
Saw files. Sandvik Saw & Tool Corporation. 400,676; Mar. 23; Serial No. 456,754; published Jan. 5, 1943.
Shovels, spades, and scoops. Ames Shovel & Tool Company. 166,833; renewed Apr. 17, 1943.
Textile machine parts. Dayton Rubber Manufacturing Company. 400,642; Mar. 23; Serial No. 456,236; published Dec. 29, 1942.

CLASS 24

Pressing form, Garment. J. L. Wheeler. 400,695; Mar. 23.

CLASS 26

Films, Motion picture. Movietonews, Inc. 400,616; Mar. 23; Serial No. 454,641; published Jan. 12, 1943.
Glassware, Chemical, scientific and laboratory. Glasco Products Company. 400,598; Mar. 23; Serial No. 452,232; published Jan. 12, 1943.

CLASS 27

Watches and clocks. Longines-Wittnauer Co. Inc. 400,692; Mar. 23.
Watches and parts thereof. American Waltham Watch Company. 22,859; re-renewed Apr. 25, 1943.

CLASS 28

Flatware and sterling silver hollowware, Sterling silver. R. Wallace & Sons Manufacturing Company. 400,702; Mar. 23.
Jewelry. Gramat Bros., Inc. 400,701; Mar. 23.

CLASS 32

Furniture, Household. Straus & Schram. 400,609; Mar. 23; Serial No. 454,154; published Jan. 12, 1943.

CLASS 33

Tea pots, Glass. Corning Glass Works. 170,395; renewed July 17, 1943.

CLASS 35

Tires and tubes for vehicle wheels, Pneumatic. Pharis Tire and Rubber Company. 400,581; Mar. 23; Serial No. 442,329; published May 27, 1941.
Valve caps, Rubber. Dayton Rubber Manufacturing Company. 167,687; renewed May 8, 1943.

CLASS 36

Phonograph records and voice recording and reproducing machines. International Mutoscope Reel Co. Inc. 400,640; Mar. 23; Serial No. 456,123; published Jan. 12, 1943.

Reeds for wood-wind musical instruments. Reed Corporation of America. 400,626; Mar. 23; Serial No. 455,711; published Jan. 12, 1943.

CLASS 37

Film, Transparent plastic wrapping. Firestone Tire & Rubber Company. 400,623; Mar. 23; Serial No. 455,336; published Jan. 12, 1943.
Paper and envelopes, Writing. George B. Hurd & Co. 21,138; re-renewed May 17, 1942.
Papers. J. W. Butler Paper Company. 165,323; renewed Mar. 6, 1943.
Tags, labels, forms, etc., Printed. Fenwal Incorporated. 400,621; Mar. 23; Serial No. 455,261; published Jan. 12, 1943.
Wraps of laminated transparent material. Shellmar Products Company. 400,602; Mar. 23; Serial No. 453,044; published Jan. 12, 1943.

CLASS 39

Boots and shoes. Jordan Marsh Company. 164,021; renewed Feb. 6, 1943.
Boots, shoes, and slippers, Men's, women's, and children's. W. L. Douglas Shoe Co. 400,645; Mar. 23; Serial No. 456,308; published Jan. 12, 1943.
Brassière. Peter Pan Foundations, Inc. 400,675; Mar. 23; Serial No. 456,749; published Jan. 12, 1943.
Caps, men's sport clothes, ladies' sport clothes. P. Goldsmith's Sons. 171,192; renewed July 31, 1943.
Clothing, Ladies' and misses' ready-to-wear. Kaufmann Department Stores, Inc. 400,694; Mar. 23.
Clothing, Men's. Ed White & Sons. 400,625; Mar. 23; Serial No. 455,686; published Jan. 12, 1943.
Coats, jackets, muffs, etc., Women's. Goldberg-Held. 400,644; Mar. 23; Serial No. 456,284; published Jan. 5, 1943.
Corsets and foundation garments. Lewel Mfg. Co. 400,662; Mar. 23; Serial No. 456,535; published Jan. 5, 1943.
Girdles, corsets, brassières, etc. Vivette Foundations, Inc. 400,607; Mar. 23; Serial No. 453,764; published Jan. 5, 1943.
Gloves, Leather and fabric. Wimelbacher & Rice. 400,648; Mar. 23; Serial No. 456,352; published Jan. 12, 1943.
Heels for shoes, Rubber. Holtite Manufacturing Company. 166,552; renewed Apr. 10, 1943.
Hosiery. M. Goodman & Son. 400,631; Mar. 23; Serial No. 455,914; published Dec. 22, 1942.
Pants, Baby. Warren Featherbone Co. 400,661; Mar. 23; Serial No. 456,519; published Jan. 5, 1943.
Shawl used as a shawl or as a hood. Kentucky Looms, Inc. 400,610; Mar. 23; Serial No. 454,232; published Dec. 29, 1942.
Shirts, pants, overalls, men's and women's industrial work uniforms, Outer. John Paul Co. 400,712; Mar. 23.
Shirts, shorts, gloves, etc., Men's. Columbia Clothing Company. 400,589; Mar. 23; Serial No. 448,602; published Jan. 12, 1943.
Shoes and slippers, Ladies' and misses'. Schwartz & Benjamin Inc. 400,618; Mar. 23; Serial No. 454,879; published Jan. 12, 1943.
Sports wear and wearing apparel for men, women, and boys. Marcus Breier's Sons. 400,630; Mar. 23; Serial No. 455,903; published Jan. 12, 1943.
Suits, overcoats, and trousers, Men's. Finsterwald Clothing Co. 168,089; renewed May 15, 1943.
Underwear, Ladies' silk. Vanity Fair Silk Mills. 171,198; renewed July 31, 1943.
Wearing apparel, Children's. Abraham & Straus, Inc. 400,587; Mar. 23; Serial No. 447,605; published Dec. 29, 1942.

CLASS 40

Bindings, snap fasteners, dress shields, etc. Jordan Marsh Company. 163,957; renewed Feb. 6, 1943.
Button and buttonhole tape. Victory Placket Co. 400,641; Mar. 23; Serial No. 456,134; published Dec. 29, 1942.
Pin cushion. Bassons. 400,593; Mar. 23; Serial No. 449,881; published Dec. 29, 1942.
Pins and needles. Marshall Field & Company. 168,205; renewed May 15, 1943.

CLASS 42

Blankets. Nashua Manufacturing Company. 400,614; Mar. 23; Serial No. 454,453; published Dec. 29, 1942.
Cotton piece goods. Ely & Walker Dry Goods Company. 170,310; renewed July 10, 1943.
Cotton piece goods. Avondale Mills. 400,651–2; Mar. 23; Serial Nos. 456,413–14; published Jan. 5, 1943.
Cotton piece goods, Printed. Wm. Anderson Textile Mfg. Co. Ltd. 400,653–4; Mar. 23; Serial Nos. 456,448–9; published Jan. 12, 1943.
Cotton piece goods, Printed. Wm. Anderson Textile Mfg. Co. Ltd. 400,655; Mar. 23; Serial No. 456,455; published Jan. 5, 1943.
Cotton, rayon, wool, etc., piece goods. Sterling Textile Printers Inc. 400,594; Mar. 23; Serial No. 451,323; published Dec. 29, 1942.
Fabrics consisting of rayon piece goods, Textile. Alan Fabrics Corporation. 400,633; Mar. 23; Serial No. 455,993; published Dec. 29, 1942.
Fabrics in the piece made of rayon. Pondel Fabrics, Inc. 400,634; Mar. 23; Serial No. 456,031; published Dec. 29, 1942.
Fabrics in the piece made of rayon. Pondel Fabrics, Inc. 400,635–6; Mar. 23; Serial Nos. 456,044–5; published Dec. 29, 1942.
Fabrics in the piece made of rayon. Pondel Fabrics, Inc. 400,637; Mar. 23; Serial No. 456,047; published Dec. 29, 1942.
Fabrics made of rayon, cellulose acetate rayon, silk, etc. Paul Whitin Manufacturing Company. 400,617; Mar. 23; Serial No. 454,771; published Jan. 5, 1943.
Piece goods. Amoskeag-Lawrence Mills, Inc. 400,604; Mar. 23; Serial No. 453,353; published Oct. 13, 1942.
Piece goods. James Halstead Limited. 400,582; Mar. 23; Serial No. 444,375; published Jan. 12, 1943.
Piece goods. Burlington Mills Corporation. 400,620; Mar. 23; Serial No. 455,171; published Dec. 22, 1942.
Piece goods. Cohn-Hall-Marx Co. 400,639; Mar. 23; Serial No. 456,096; published Dec. 22, 1942.
Piece goods. Foreman Fabrics, Inc. 400,632; Mar. 23; Serial No. 455,972; published Dec. 29, 1942.
Piece goods. Hego Fabrics, Inc. 400,608; Mar. 23; Serial No. 454,055; published Jan. 12, 1943.
Piece goods. Philco Corporation. 400,591; Mar. 23; Serial No. 449,155; published Jan. 12, 1943.
Piece goods. S. H. Rawnsley Limited. 400,613; Mar. 23; Serial No. 454,434; published Jan. 12, 1943.
Piece goods. United States Finishing Company. 400,584; Mar. 23; Serial No. 445,565; published Sept. 8, 1942.
Piece goods of silk, wool, cotton, etc. National Fabrics Corporation. 400,714; Mar. 23.
Rayon piece goods. Pedigree Fabrics, Inc. 400,663; Mar. 23; Serial No. 456,541; published Jan. 5, 1943.
Rayon piece goods. Cantor Greenspan Co. 400,705; Mar. 23.
Rugs and carpets. Jersey Carpet Corporation. 400,619; Mar. 23; Serial No. 454,910; published Dec. 22, 1942.
Sheets and pillowcases. Ely & Walker Dry Goods Company. 170,702; renewed July 24, 1943.
Textile fabrics in the piece. Shirley Fabrics Corporation. 400,638; Mar. 23; Serial No. 456,038; published Jan. 5, 1943.
Woolen and worsted fabrics in the piece. A. Davis & Sons, Inc. 400,664; Mar. 23; Serial No. 456,554; published Jan. 5, 1943.
Woolen piece goods. S. Stroock & Co. 400,706; Mar. 23.

CLASS 44

Dental tools and appliances. United States Dental Manufacturing Co. 164,254; renewed Feb. 13, 1943.

CLASS 45

Beverage and syrup. Brown Boy Bottling Company. 400,606; Mar. 23; Serial No. 453,729; published Aug. 4, 1942.
Lemon soda, ginger ale, root beer, etc. Wm. Montgomery Company. 400,678; Mar. 23; Serial No. 456,785; published Jan. 5, 1943.
Soft drinks. W. D. Bost. 171,058; renewed July 31, 1943.

CLASS 46

Butter. Mooresville Co-Operative Creamery Co. 170,897; renewed July 24, 1943.
Candles. J. J. King. 164,801; renewed Feb. 27, 1943.
Candles. King Candy Company. 171,257; renewed July 31, 1943.
Candy. E. Dean. 171,261; renewed July 31, 1943.
Candy and confections. Huyler's. 169,758; renewed July 3, 1943.
Candy, peanut butter, peanut butter sandwich, etc. Lance Packing Co. 170,701; renewed July 24, 1943.
Canned corn and peas. Minnesota Valley Canning Company. 400,693; Mar. 23.
Canned fruits. Seeman Brothers. 23,089; re-renewed May 23, 1943.
Canned pineapple. Hawaiian Pineapple Company. 171,197; renewed July 31, 1943.
Canned pineapple. Haiku Fruit & Packing Co. 171,266; renewed July 31, 1943.
Cereal products. Seeman Brothers. 23,126; re-renewed May 30, 1943.
Cheese. J. L. Kraft & Bros. Co. 167,054; renewed Apr. 24, 1943.
Coffee. Fred Wolferman Co. 135,562; renewed Oct. 20, 1940.
Compound of Mexican vanilla beans, vanillin, and coumarin, Liquid. L. Demartini Supply Company. 169,993; renewed July 10, 1943.
Drinks and products for making the same, Food. Bireley's Inc. 400,580; Mar. 23; Serial No. 419,173; published Jan. 12, 1943.
Feed, Stock. General Mills, Inc. 400,683; Mar. 23; Serial No. 456,886; published Jan. 12, 1943.
Feed, Stock. J. Allen Smith & Company. 171,011; renewed July 31, 1943.
Fish foods, turtle and newt food. R. C. Dolle. 400,583; Mar. 23; Serial No. 444,900; published Dec. 2, 1941.
Flour, Wheat. Sands, Taylor & Wood Co. 170,857–8; renewed July 24, 1943.
Frozen vegetables and frozen fruits. Comstock Canning Corporation. 400,708; Mar. 23.

Fruit, Fresh citrus. G. Zaninovich. 400,585; Mar. 23; Serial No. 446,849; published June 16, 1942.
Fruits, Dried. Rosenberg Bros. & Co. 400,703; Mar. 23.
Fruits, Fresh. George Brothers. 400,586; Mar. 23; Serial No. 447,183; published Dec. 2, 1941.
Grapes, Fresh. M. Zaninovich. 400,646; Mar. 23; Serial No. 456,329; published Jan. 12, 1943.
Macaroni products, canned fruits, canned vegetables, etc. Fontana Food Products Company. 170,507; renewed July 17, 1943.
Macaroni, spaghetti, ready-cut macaroni, etc. Kansas City Macaroni & Importing Co. 171,169; renewed July 31, 1943.
Peanut butter. Nash Coffee Company. 166,439; renewed Apr. 3, 1943.
Potato chips, peanut butter, candy, etc. L. A. Nut House. 400,656; Mar. 23; Serial No. 456,467; published Jan. 12, 1943.
Soy bean sauce. Coast Food Products, Inc. 400,600; Mar. 23; Serial No. 452,742; published Jan. 12, 1943.
Soy beans, Roasted. Dewey Food Products, Inc. 400,691; Mar. 23; Serial No. 457,032; published Jan. 12, 1943.
Whole-milk powder. Merrell-Soule Company. 171,105; renewed July 31, 1943.

CLASS 48

Ale. Liebmann Breweries, Inc. 400,666; Mar. 23; Serial No. 456,607; published Jan. 5, 1943.

CLASS 50

Covers and electrical appliance covers, Bowl. Seal-Sac, Inc. 400,627; Mar. 23; Serial No. 455,875; published Jan. 12, 1943.
Rubber blankets used to cover high potential electrical devices. W. H. Salisbury & Co. 400,713; Mar. 23.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 23D DAY OF MARCH, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Campbell, Paul F., Saginaw, Mich., assignor, by mesne assignments, to Casco Products Corporation, Bridgeport, Conn. Coffee brewer. Re. 22,291; Mar. 23.
Casco Products Corporation. (See Campbell, Paul F., assignor.)
Gaubert, Rene J., assignor to Simplex Wrapping Machine Co., Oakland, Calif. Bag making machine and method. Re. 22,292; Mar. 23.
Keinath, George, Larchmont, N. Y. System for recording a plurality of measuring magnitudes. Re. 22,293; Mar. 23.
Maussenet, John W., Long Island City, N. Y. Bottle closure. Re. 22,294; Mar. 23.
Simplex Wrapping Machine Co. (See Gaubert, Rene J., assignor.)

LIST OF DESIGN PATENTEES

Army Air Cadettes. (See Bercker, Frank H., assignor.)
Baines, John N., Chicago, Ill. Sign or the like. 135,279; Mar. 23.
Bassons. (See Englebardt, Charles P., assignor.)
Bausch & Lomb Optical Company. (See Flint, Edward F., assignor.)
Bercker, Frank H., assignor to Army Air Cadettes, Milwaukee, Wis. Pin. 135,305; Mar. 23.
Bourget, Frank E., et al. (See Rosier, Philip G., assignor.)
Cadet Smokestands Company. (See Fletcher, Maurice J., assignor.)
Cashin, Bonnie, New York, N. Y. Dress. 135,326; Mar. 23.
Cashin, Bonnie, New York, N. Y. Dress. 135,327; Mar. 23.
Conant, David J., Cleveland Heights, assignor to Jack & Heintz, Inc., Bedford, Ohio. External energizer for internal combustion engine starters. 135,306; Mar. 23.
Conlan, David, New York, N. Y. Signal lights staff. 135,290; Mar. 23.
Container Corporation of America. (See Ost, Donald E., assignor.)
Cook, Robert L., Dallas, Tex. Combination fire screen and seat. 135,298; Mar. 23.
Dann, Charles W., East Orange, assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Combined speaker-microphone and control unit. 135,320; Mar. 23.
Devine, John J., Middletown, Conn. Electric lamp bulb. 135,299; Mar. 23.
Edison, Thomas A., Incorporated. (See Dann, Charles W., assignor.)
Eitel, William W., San Bruno, and J. A. McCullough, Millbrae, assignors to Eitel-McCullough, Inc., San Bruno, Calif. Vacuum tube. 135,307; Mar. 23.
Eitel, William W., San Bruno, and J. A. McCullough, Millbrae, assignors to Eitel-McCullough, Inc., San Bruno, Calif. Vacuum tube. 135,308; Mar. 23.
Eitel, William W., San Bruno, and J. A. McCullough, Millbrae, assignors to Eitel-McCullough, Inc., San Bruno, Calif. Vacuum tube. 135,309; Mar. 23.
Eitel, William W., San Bruno, and J. A. McCullough, Millbrae, assignors to Eitel-McCullough, Inc., San Bruno, Calif. Vacuum tube. 135,310; Mar. 23.
Eitel, William W., San Bruno, and J. A. McCullough, Millbrae, assignors to Eitel-McCullough, Inc., San Bruno, Calif. Vacuum tube. 135,311; Mar. 23.
Eitel, William W., San Bruno, and J. A. McCullough, Millbrae, assignors to Eitel-McCullough, Inc., San Bruno, Calif. Vacuum tube. 135,312; Mar. 23.
Eitel, William W., San Bruno, and J. A. McCullough, Millbrae, assignors to Eitel-McCullough, Inc., San Bruno, Calif. Vacuum tube. 135,313; Mar. 23.
Eitel-McCullough, Inc. (See Eitel, W. W., and McCullough, assignors.)
Englebardt, Charles P., Far Rockaway, assignors to Bassons, Maspeth, Long Island, New York. Pin cushion. 135,280; Mar. 23.
Felsenthal, Ben, New York, N. Y. Emblem pin. 135,300; Mar. 23.
Ferrill, Thomas M., Jr. (See Jenks, F. A., Ferrill, Jr., and Folland.)
Fletcher, Maurice J., assignor to Cadet Smokestands Company, Des Moines, Iowa. Cigarette tray. 135,291; Mar. 23.
Flint, Edward F., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Octant. 135,314; Mar. 23.
Folland, Donald F. (See Jenks, F. A., Ferrill, Jr., and Folland.)
Freeman, Louis J., New York, N. Y. Bedspread. 135,315; Mar. 23.
Gair, Milton M., Redlands, Calif. Advertising sign or the like. 135,281; Mar. 23.
Gibson Electric Refrigerator Corporation. (See Janes, Richard B., assignor.)
Giordano, Salvatore, South Ozone Park, assignor to Frank J. Quigan, Inc., Maspeth, Long Island, N. Y. Charger clip or the like. 135,292; Mar. 23.
Green, Thomas C., U. S. Marine Corps. Navigational instrument. 135,282; Mar. 23.
Harpignies, Zinaida, Kew Gardens, N. Y. Hat. 135,321; Mar. 23.
Heller, Elias, Brooklyn, N. Y. Brassière. 135,316; Mar. 23.
Herszkowicz, Lewek, New York, N. Y. Knotted fabric. 135,328; Mar. 23.
Hickman, Willie L., Tampa, assignor of one-half to W. J. Trowell, Sulphur Springs, Fla. Salt shaker. 135,273; Mar. 23.
Hunting, Arthur J., Eureka, Calif. Bathtub. 135,283; Mar. 23.
Hutson, Alton W. and H. M., Del Rio, Tex. Catapult. 135,284; Mar. 23.
Hutson, Hazel M. (See Hutson, Alton W. and H. M.)
Jack & Heintz, Inc. (See Conant, David J., assignor.)
Jacobs, Joseph S., New York, N. Y. Victory plaque. 135,285; Mar. 23.
Janes, Richard B., assignor to Gibson Electric Refrigerator Corporation, Greenville, Mich. Refrigerator. 135,274; Mar. 23.
Janes, Richard B., assignor to Gibson Electric Refrigerator Corporation, Greenville, Mich. Refrigerator. 135,275; Mar. 23.
Jeannette Glass Company, The. (See Sloan, Carl T., assignor.)
Jenks, Frederic A., Rockville Centre, T. M. Ferrill, Jr., Hempstead, and D. F. Folland, East Hempstead, assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Aircraft landing instrument indicator. 135,322; Mar. 23.
Kafka, Elsa M., New York, N. Y. Pin or similar article. 135,286; Mar. 23.
Kiekhaefer Corporation. (See Kiekhaefer, Elmer C., assignor.)
Kiekhaefer, Elmer C., assignor to Kiekhaefer Corporation, Cedarburg, Wis. Outboard motor. 135,329; Mar. 23.
Land, Frank, Boston, Mass. Lady's suit. 135,330; Mar. 23.
Lentheric, Incorporated. (See McIntosh, Frank, assignor.)
Liberatore, Yolanda M., Chicago, Ill., assignor to Standard Safety Equipment Co. Woman's cap. 135,323; Mar. 23.
Mastrangelo, Frank, Fitchburg, Mass. Settee. 135,287; Mar. 23.
McCullough, Jack A. (See Eitel, W. W., and McCullough.)
McIntosh, Frank, assignor to Lentheric, Incorporated, New York, N. Y. Bottle. 135,293; Mar. 23.
Messinger, Harold L., assignor of one-half to L. P. Romano, Los Angeles, Calif. Swimming propeller. 135,331; Mar. 23.
Meyer, Maximilian C., Brooklyn, N. Y. Jewelry pin. 135,301; Mar. 23.
Meyer, Maximilian C., Brooklyn, N. Y. Jewelry pin or similar article. 135,317; Mar. 23.
Meyer, Maximilian C., Brooklyn, N. Y. Earring. 135,318; Mar. 23.
National Plaque Specialties Co. (See Rosier, Philip G.)
Ost, Donald E., Glen Ellyn, assignor to Container Corporation of America, Chicago, Ill. Carton. 135,294; Mar. 23.
Parker, Thomas J., Oaklandon, Ind. Toy. 135,295; Mar. 23.
Pearson, John H., Lowell, Mass. Portable heater. 135,324; Mar. 23.

Perkins, Hilda E., Binghamton, N. Y. Picture frame. 135,288; Mar. 23.
Poutinen, Paul T., Manhasset, assignor to Waldes Koh-I-Noor, Inc., Long Island City, N. Y. Display package for a slide fastener. 135,276; Mar. 23.
Quigan, Frank J., Inc. (See Giordano, Salvatore, assignor.)
Reynolds, Edwin, Vineland, N. J. Hair curler or similar article. 135,302; Mar. 23.
Romano, Lawrence P. (See Messinger, Harold L., assignor.)
Rosler, Phillip G., assignor to P. G. Rosler, G. J. Spatuzza, and F. E. Bourget, co-partners, doing business under the firm name of National Plaque Specialties Co., Chicago, Ill. Honor roll plaque. 135,289; Mar. 23.
Rubin, Jack, New York, N. Y. Textile fabric. 135,319; Mar. 23
Scher, Louis S., New York, N. Y. Auxiliary telephone receiver. 135,303; Mar. 23.
Sereno, Lawrence R., Montreal, Wis. Dessert jar. 135,296; Mar. 23.
Sloan, Carl T., assignor to The Jeannette Glass Company, Jeannette, Pa. Glass tumbler or similar article. 135,297; Mar. 23.
Spatuzza, George J., et al. (See Rosler, Phillip G., assignor.)
Sperry Gyroscope Company, Inc. (See Jenks, F. A., Ferrill, Jr., and Folland, assignors.)
Standard Safety Equipment Co. (See Liberatore, Yolanda M., assignor.)
Swofford, Peter J., Fort Worth, Tex. Automobile door or similar article. 135,325; Mar. 23.
Thomasson, Marjorie J., Mount Lebanon, Pa. Soap box. 135,304; Mar. 23.
Trowell, William J. (See Hickman, Willie L., assignor.)
Waldes Koh-I-Noor, Inc. (See Poutinen, Paul T., assignor.)
Whisler, Ardo L., Port Huron, Mich. Glove display stand. 135,277; Mar. 23.
Zavolner, Leo, Brooklyn, N. Y. Hose supporter. 135,278; Mar. 23.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 23D DAY OF MARCH, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Adams, Everett E., Chicago, Ill., and H. M. Pflager, St. Louis, Mo. Railway car truck. 2,314,644; Mar. 23.
Air Reduction Company. (See Anderson, James L., assignor.)
Akin, George H., et al. (See Akin, John H., assignor.)
Akin, John H., assignor of one-third to A. A. Dealy and one-third to G. H. Akin, Ames, Iowa. Bowling ball grip. 2,314,811; Mar. 23.
Aktiebolaget Atlas Diesel. (See Thege, Edvin O. P., assignor.)
Alberty, Fred J. (See Drake, E. P., Alberty, and Kagley.)
Alburger, James R., Merion, Pa., assignor to Radio Corporation of America. Photographic reversal process. 2,314,380; Mar. 23.
Alexander, Emmett L., and A. W. Braithwaite, assignors to The George E. Failing Supply Company, Enid, Okla. Rat-hole drilling attachment for rotary drilling rigs. 2,314,323; Mar. 23.
Alien Property Custodian. (See Schouten, Cornelis.)
Alien Property Custodian. (See Tauty, Rene.)
Allan, George W., and A. H. Simpson, assignors to Intertype Corporation, Brooklyn, N. Y. Typographical machine. 2,314,324; Mar. 23.
Allender, Samuel S., New York, N. Y., assignor to Universal Oil Products Company, Chicago, Ill. Treatment of hydrocarbons. 2,314,435; Mar. 23.
Alox Corporation. (See Burwell, Arthur W., assignor.)
American Chain & Cable Company. (See Reyburn, John R., assignor.)
American Cyanamid Company. (See Caryl, Coleman R., assignor.)
American Cyanamid Company. (See Foster, G. H., and Lento, Jr., assignors.)
American Cyanamid Company. (See Hultquist, Martin E., assignor.)
American Cyanamid Company. (See McClellan, P. P., and Bacon, assignors.)
American Cyanamid Company. (See McClellan, P. P., and Ericks, assignors.)
American Cyanamid Company. (See Pineo, Orrin W., assignor.)
American Cyanamid Company. (See Wolf, Clayton S., assignor.)
American Optical Company. (See Moulton, Harold R., assignor.)
American Sales Company. (See Rosenfeld, Morris W., assignor.)
American Steel and Wire Company of New Jersey, The. (See Peterson, Thomas F., assignor.)
Anderson, Alfred. (See Banning, J. D., and Anderson.)
Anderson, Ivan C., Gloucester, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Pad cover and making same. 2,314,436; Mar. 23.
Anderson, James L., Closter, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Can welding machine. 2,314,437; Mar. 23.
Anglo California National Bank of San Francisco, The, as trustee. (See Brandt, Alfred, assignor.)
Anthes Force Oiler Company. (See Tolbert, William P., assignor.)
Anthony Company. (See Wachter, Lester W., assignor.)
Apex Electrical Manufacturing Company, The. (See Frantz, Paul E., assignor.)
Appel, Richard, Sunnyside, Long Island, N. Y. Vibrating trick toy. 2,314,472; Mar. 23.
Arch-O-Graph Company. (See Hyland, D. F., Brenner, H. L. and John, and Knudsen.)
Arden Farms Co. (See Ray, Don, assignor.)
Arnett, Oliver J., Santa Ana, Calif. Street sweeping machine. 2,314,381; Mar. 23.
Arnold, William O., Turtle Township, Rock County, Wis. Work feeding mechanism. 2,314,605; Mar. 23.
Artinian, Avedis, New York, and C. M. Chapman, Glen Cove, N. Y. Preserving food juices. 2,314,837; Mar. 23.
Ashcroft, Donald G., Saltcoats, Scotland, assignor to Imperial Chemical Industries Limited. Apparatus useful for the manufacture of electric blasting caps. 2,314,606; Mar. 23.
Asimow, Morris, Los Angeles, Calif. Apparatus for indicating temperature of cutting tools. 2,314,753; Mar. 23.
Atlanta Stove Works. (See Jones, B., Jr., and White, Robert H. and L.)
Atlantic Coast Fisheries Company, The. (See Taylor, Harden F., assignor.)
Ault, Waldo C., Springfield, Pa., assignor to The United Gas Improvement Company. Production of aryl-substituted phenols. 2,314,322; Mar. 23.
Automotive Sprinkler Company. (See Wilson, John H., assignor.)
Aviation Corporation, The. (See Maule, Belford D. and J. D., assignors.)
Aviation Corporation, The. (See Maule, June D., assignor.)
Bacon, Jack C. (See McClellan, P. P., and Bacon.)
Bailey, William J. A., Packanack Lake, N. J., and Hugo Panissidi, Jamaica, assignors to International Business Machines Corporation, New York, N. Y. Duplication verification apparatus. 2,314,679; Mar. 23.
Baird, John B., assignor to Hudson Engineering Corporation, Houston, Tex. Spray head. 2,314,754; Mar. 23.
Baker, Thomas A., Logansport, Ind. Fluid system and regulating device therefor. 2,314,569; Mar. 23.
Ball, Thomas M., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Throttle control. 2,314,570; Mar. 23.
Ballarino, Joseph, Gary, Ind. Spoon holding attachment for cooking pans. 2,314,755; Mar. 23.
Banning, John D., Chicago, and A. Anderson, Elmhurst, Ill., assignors to Davidson Manufacturing Corporation. Storage tank and compressor assembly. 2,314,438; Mar. 23.
Bardco Manufacturing & Sales Company. (See Jervis, Fred, assignor.)
Barlow, Joseph R., assignor of one-half to C. X. Wunderly, Pittsburgh, Pa. Support for materials. 2,314,473; Mar. 23.
Barney, Duane R., and G. W. Weaver, East Orange, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Power factor measuring system. 2,314,851; Mar. 23.
Bassick Company, The. (See Claude-Mantle, Arthur, assignor.)
Batsel, Cecil N., Camden, N. J., assignor to Radio Corporation of America. Television system. 2,314,680; Mar. 23.
Batsel, Max C., Haddonfield, N. J., assignor to Radio Corporation of America. Electrical sound reproduction. 2,314,382; Mar. 23.
Bauman, Thomas S., Toledo, Ohio, assignor to Libbey Glass Company. Apparatus for banding articles. 2,314,474; Mar. 23.
Beatty, Lester A., Keenesburg, Colo. Beet topper and digger. 2,314,681; Mar. 23.
Becket, Alan L., East Orange, N. J. Cover. 2,314,682; Mar. 23.
Bedford, William A., Jr., Hingham, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Lock nut. 2,314,756; Mar. 23.
Beegle, Daniel F., Kennewick, Wash. Asparagus top cutter. 2,314,439; Mar. 23.
Bell Telephone Laboratories, Incorporated. (See Brown, J. R. C., Jr., and Wooten, assignors.)
Bell Telephone Laboratories, Incorporated. (See Knoop, William A., assignor.)
Bell Telephone Laboratories, Incorporated. (See Phelps, Walter A., assignor.)
Bell Telephone Laboratories, Incorporated. (See Roberts, John G., and Richard, assignors.)
Bell Telephone Laboratories, Incorporated. (See Sandalls, George, Jr., assignor.)
Bell Telephone Laboratories, Incorporated. (See Shepherd, William G., assignor.)
Bell Telephone Laboratories, Incorporated. (See Wright, Sumner B., assignor.)
Bemis Bro. Bag Company. (See Ewer, Arthur C., assignor.)
Bendix Aviation Corporation. (See Kurzina, Stanley B., Jr., assignor.)
Bendix Aviation Corporation. (See Zwack, Raymond T., assignor.)
Benedict, Edward L., assignor to Elb Products, Inc., New York, N. Y. Machine for plaiting. 2,314,757; Mar. 23.
Berners, Edward C., deceased, by C. Pilon, administratrix, assignor to M. P. Braun, Fond du Lac, Wis. Fountain pencil. 2,314,383; Mar. 23.
Berns, Milton H., Blasdell, assignor to Electro Refractories & Alloys Corporation, Buffalo, N. Y. Refractory composition. 2,314,758; Mar. 23.
Berry, Mitchell M., assignor to Boeing Aircraft Company, Seattle, Wash. Piston sealing assembly. 2,314,683; Mar. 23.
Bertoglio, Peter J. (See Dittus, F. W., Bertoglio, and Spaulding.)
Berwick, Albert G. (See Berwick, Frederick W. and A. G.)

Berwick, Frederick W. and A. G., Streatham, London, England, assignors to The De Laval Separator Company, New York, N. Y. Device for delivering measured quantities of liquid. 2,314,384; Mar. 23.
Bigelow-Sanford Carpet Co. Inc. (See Knowland, R. G., and Donnelly, assignors.)
Binkert, Carl F., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Producing bent laminated safety glass. 2,314,325; Mar. 23.
Bird, Len O., Glendale, and E. P. Drake, Los Angeles, assignor to R. G. Le Tourneau, Inc., Stockton, Calif. Control for trail builders. 2,314,475; Mar. 23.
Bischoff, Robert, Baltimore, Md. Plug valve. 2,314,759; Mar. 23.
Blackhawk Mfg. Co. (See Mandl, Sigmund, assignor.)
Blair, Walter, Detroit, Mich., assignor to Phillips Screw Company. Power screw driver. 2,314,760; Mar. 23.
Blau, Henry H., Elmira, N. Y., and R. W. Kell, Charlerol, Pa., assignors to Corning Glass Works, Corning, N. Y. Making glass articles. 2,314,812; Mar. 23.
Blaw-Knox Company. (See Harrington, Edward L., assignor.)
Bludworth, Joseph E., Cumberland, Md., assignor to Celanese Corporation of America. Preparation of aliphatic peracids by oxidation of aldehydes. 2,314,385; Mar. 23.
Bluemle, Arnold A., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Electric switch. 2,314,684; Mar. 23.
Blumenthal, Edward A., Chicago, Ill. Radiator shutter construction. 2,314,476; Mar. 23.
Bockonok, Stefan, Enola, Pa. Water gauge. 2,314,761; Mar. 23.
Bodey, Charles E., Jr., assignor to Edward E. Johnson, Incorporated, St. Paul, Minn. Well screen having water contacting surfaces formed of plastic material. 2,314,477; Mar. 23.
Boeing Aircraft Company. (See Berry, Mitchell M., assignor.)
Boltz, Fred S., Mansfield, Mass. Folding clothes drier and making same. 2,314,762; Mar. 23.
Bomford, Douglas R., Bevington Hall, near Evesham, assignor to Bomford & Evershed Limited, Salford Priors, near Evesham, England. Means or machinery for clearing or excavating ditches. 2,314,763; Mar. 23.
Bomford & Evershed Limited. (See Bomford, Douglas R., assignor.)
Bond, Donald S., Philadelphia, Pa., assignor to Radio Corporation of America. Feedback amplifier circuits. 2,314,813; Mar. 23.
Borland, Bruce, Chicago, Ill. Seal. 2,314,814; Mar. 23.
Bow Arch Corporation. (See Rietzke, August, assignor.)
Bradwell, Robert H., assignor to G. H. Rauschenberg, Dalton, Ga. Tufting machine. 2,314,339; Mar. 23.
Braithwaite, Albert W. (See Alexander, E. L., and Braithwaite.)
Brandt, Alfred, Swansea, Wales, assignor, by mesne assignments, to The Anglo California National Bank of San Francisco, San Francisco, Calif., a National Banking Association, as trustee. Heat treatment of magnesium base alloys. 2,314,852; Mar. 23.
Brandt, Alfred, Swansea, Wales, assignor, by mesne assignments, to The Anglo California National Bank of San Francisco, San Francisco, Calif., a National Banking Association, as trustee for the benefit of Reconstruction Finance Corporation, San Francisco, Calif. Heat treatment of magnesium base alloys. 2,314,853; Mar. 23.
Brandt, Alfred, Swansea, Wales, assignor, by mesne assignments, to The Anglo California National Bank of San Francisco, San Francisco, Calif., a National Banking Association, as trustee. Heat treatment of magnesium base alloys. 2,314,854; Mar. 23.
Brandt, Howard, New York, N. Y. Appliance for motor vehicles. 2,314,815; Mar. 23.
Braun, Mary P. (See Berners, Edward C., assignor.)
Brend, William R., assignor to Lock Joint Pipe Company, East Orange, N. J. Pipe joint. 2,314,386; Mar. 23.
Brenner, Hugo L. (See Hyland, D. F., Brenner, Hugo L. and John, and Knudsen.)
Brenner, John. (See Hyland, D. F., Brenner, Hugo L. and John, and Knudsen.)
Brooke, Norman E., Washington, D. C. Weed cutter. 2,314,685; Mar. 23.
Brosius, Edgar E., Pittsburgh, Pa. Manipulator. 2,314,686; Mar. 23.
Brower, Floyd E., Gardiner, Oreg. Self-locking caster stepladder. 2,314,478; Mar. 23.
Brown, Carl D. (See Draper, R. C., and Brown.)
Brown, George H., Haddonfield, N. J., assignor to Radio Corporation of America. Ultra high frequency wattmeter. 2,314,764; Mar. 23.
Brown, John A., and J. E. Clarke, assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Coating granular materials and product thereof. 2,314,340; Mar. 23.
Brown, Joshua R. C., Jr., Jackson Heights, N. Y., and L. A. Wooten, Maplewood, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Desulphurizing carbon coated metals. 2,314,816; Mar. 23.
Brunner, Otto, Jackson Heights, assignor to Henry Leonard & Thomas, Inc., Ozone Park, N. Y. Display card, particularly for pipe stems. 2,314,765; Mar. 23.
Brunner, Walter. (See Zerweck, W., and Brunner.)
Brunswick-Balke-Collender Company, The. (See Debicki, Alfred F., assignor.)
Buchman, Edwin R., Pasadena, Calif., assignor to Research Corporation, New York, N. Y. Producing gamma-halogen gamma-aceto propyl alcohol. 2,314,571; Mar. 23.
Bull, Arthur W., Grosse Pointe, and G. G. Havens, Detroit, Mich., assignors to United States Rubber Company, New York, N. Y. Surface heating element. 2,314,766; Mar. 23.
Burns, Jabez, & Sons, Inc. (See Kopf, Joseph L., assignor.)
Burrell, Guy H., Mount Lebanon, assignor to Burrell Technical Supply Company, Pittsburgh, Pa. Adjustable rubber valve. 2,314,767; Mar. 23.
Burrell Technical Supply Company. (See Burrell, Guy H., assignor.)
Burt, Harold A., St. Albans, N. Y., assignor to Mergenthaler Linotype Company. Typographical composing machine. 2,314,768; Mar. 23.
Burwell, Arthur W., Niagara Falls, assignor to Alox Corporation, New York, N. Y. Neutral lubricity-increasing agents. 2,314,769; Mar. 23.
Busch, Ralph B. (See Graves, C. B., and Busch.)
Buzzard, Robert W., Kensington, Md. Method of and bath for coating magnesium. 2,314,341; Mar. 14.
Cadwallader, Robert, Detroit, assignor to Chrysler Corporation, Highland Park, Mich. License plate holder and lamp assembly. 2,314,326; Mar. 23.
Calderno, Cincetta, administrator, et al. (See D'Annunzio, Alfred.)
Campbell, Donald J., Spring Lake, Mich. Producing artillery projectile bodies. 2,314,342; Mar. 23.
Campbell, Donald J., Spring Lake, Mich. Casting metal. 2,314,839; Mar. 23.
Carlson, Wilbur L., Rochester, N. Y., assignor to General Motors Corporation, Detroit, Mich. Battery charging system. 2,314,687; Mar. 23.
Carlsson, Emma V., Greensboro, N. C. Balanced diet selecting apparatus. 2,314,387; Mar. 23.
Carnegie-Illinois Steel Corporation. (See Cook, W. O., and Romine, assignors.)
Carnegie-Illinois Steel Corporation. (See Korner, William E., assignor.)
Carnegie-Illinois Steel Corporation. (See Mursch, William H., assignor.)
Carrier Corporation. (See Jones, Walter, assignor.)
Carter, Leslie F., Leonia, N. J., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Erecting device for gyro verticals. 2,314,343; Mar. 23.
Caryl, Coleman R., Riverside, Conn., assignor to American Cyanamid Company, New York, N. Y. Detergent composition. 2,314,840; Mar. 23.
Celanese Corporation of America. (See Bludworth, Joseph E., assignor.)
Cellulose Research Corporation, The. (See Olsen, Fredrich, assignor.)
Certain-Teed Products Corporation. (See Hoggatt, Gilbert A., assignor.)
Certain-Teed Products Corporation. (See Peterson, Arthur S., assignor.)
Chabrand, Oscar A., et al. (See Hall, Carlos, and Fernando, assignors.)
Chace, W. M., Company. (See Matthews, Howard D., assignor.)
Chain Belt Company. (See Longenecker, Charles I., assignor.)
Chapman, Cloyd M. (See Artinian, A., and Chapman.)
Chenicek, Joseph A., assignor to Universal Oil Products Company, Chicago, Ill. Treatment of hydrocarbons. 2,314,388; Mar. 23.
Chitz, Herman E., East Cleveland, Ohio, now by judicial change of name H. E. Sheets. Turboengine. 2,314,572; Mar. 23.
Christensen, August B., South Bethlehem, Pa. Lunch box. 2,314,688; Mar. 23.
Christensen, O. Neil, Oak Park, assignor to Stewart-Warner Corporation, Chicago, Ill. Illuminated instrument pointer. 2,314,817; Mar. 23.
Christiansen, Andrew L., Willowbrook, Calif. Fish segregating, sizing, and directing apparatus. 2,314,479; Mar. 23.
Chrysler Corporation. (See Ball, Thomas M., assignor.)
Chrysler Corporation. (See Cadwallader, Robert, assignor.)
Chrysler Corporation. (See Keller, Robert T., assignor.)
Chrysler Corporation. (See Neracher, C. A., and Dunn, assignors.)
Chrysler Corporation. (See Pennington, Gordon R., assignor.)
Chrysler Corporation. (See Wallace, David A., assignor.)
Cinch Manufacturing Corporation. (See Del Camp, Scipione M., assignor.)
Clark Equipment Company. (See Ormsby, Donald D., assignor.)
Clark, Francis R., Leonia, N. J., and A. D'Antonio, Longmeadow, assignors to Package Machinery Company, Springfield, Mass. Wrapper sealing machine. 2,314,441; Mar. 23.

Clark, Frank P., St. Paul, Minn. Calipering device. 2,314,480; Mar. 23.
Clark, George N., and E. R. Lesage, Denver, Colo. Air cleaner. 2,314,573; Mar. 23.
Clark, Gordon, Kinsella, Alberta, Canada. Ticket container for milk bottles. 2,314,607; Mar. 23.
Clarke, John E. (See Brown, J. A., and Clarke.)
Clarkson, Robert J. (See Sherman, S. H., and Clarkson.)
Claud-Mantle, Arthur Trumbull, assignor to The Bassick Company, Bridgeport, Conn. Wheel shroud fastener. 2,314,651; Mar. 23.
Cogswell, Elliot P., assignor to United-Carr Fastener Corporation, Cambridge, Mass. Attaching device. 2,314,770; Mar. 23.
Combined Optical Industries Limited. (See Kingston, Arthur W., assignor.)
Compton, Charles A., Washington, D. C. Headrest. 2,314,771; Mar. 23.
Conn, Mervin E. (See Roethell, B. E., and Conn.)
Consoco Incorporated. (See Scharpenberg, Charles C., assignor.)
Continental Can Company. (See Pearson, Paul E., assignor.)
Cook, George B., Summit, N. J., assignor to Standard Oil Development Company. Combination high and low pressure storage tank. 2,314,442; Mar. 23.
Cook, Willard O., and H. E. Romine, Pittsburgh, Pa., assignors to Carnegie-Illinois Steel Corporation. Surface treatment of tinned material. 2,314,818; Mar. 23.
Cornell, Fay D., Pasadena, Calif. Husbandry system. 2,314,344; Mar. 23.
Corning Glass Works. (See Balu, H. H., and Kell, assignors.)
Corning Glass Works. (See Greene, Charles H., assignor.)
Corning Glass Works. (See Hinkley, Ray A., assignor.)
Corning Glass Works. (See Willson, Herbert S., assignor.)
Corra, Thomas, New York, N. Y. Broiler. 2,314,772; Mar. 23.
Cortella, Alphonse, New York, assignor to T. K. Patterson, Rockville Centre, N. Y. Phonograph device. 2,314,345; Mar. 23.
Crafts, Irving M., Portland, and C. B. Taylor, Middletown, assignors to The Pickering Governor Company, Portland, Conn. Governor for prime movers. 2,314,841; Mar. 23.
Craig, Charles R., Pittsfield, Mass., assignor to General Electric Company. Protective device. 2,314,346; Mar. 23.
Craig, Ollison, assignor to Riley Stoker Corporation, Worcester, Mass. Beater element for pulverizing apparatus. 2,314,689; Mar. 23.
Crane Co. (See Fennema, Richard, assignor.)
Crawford, H. Barney, et al., trustee. (See Odor, Ralph K., assignor.)
Crawford, John W. C., Frodsham, and N. McLeish, Runcorn, England, assignors to Imperial Chemical Industries Limited. Purification of alpha chloroacrylic compounds preliminary to polymerization. 2,314,443; Mar. 23.
Crittenden, Philip L., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Clutch control mechanism. 2,314,444; Mar. 23.
Crooks, Charles E., assignor to Spotnails, Inc., Chicago, Ill. Finishing nail. 2,314,481; Mar. 23.
Cunningham, Marion M., South Bend, Ind., and E. T. Wise, Plymouth, Mich., assignors to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind. Cushion structure. 2,314,608; Mar. 23.
Curtiss, George E., Jr., Abington, Pa., assignor to The Stanley Works, New Britain, Conn. Latch retracting mechanism. 2,314,609; Mar. 23.
Cutler-Hammer, Inc. (See Lillquist, Arvid E., assignor.)
Dahlman, Eben D., Grandy, Minn. Vine pulling machine. 2,314,773; Mar. 23.
D'Annunzio, Alfred, Roosevelt, N. Y., deceased, A. D'Annunzio, G. De Blasio, and C. Calderone, administrators. Self-igniting cigarette. 2,314,389; Mar. 23.
D'Annunzio, Antonio, administrator, et al. (See D'Annunzio, Alfred.)
D'Antonio, Alfred. (See Clark, F. R., and D'Antonio.)
Davidson Manufacturing Corporation. (See Banning, J. D., and Anderson, assignors.)
Da Volt, Darwin. (See Summers, Berl E., assignor.)
Dawson, George H., assignor to Wilson-Jones Company, Chicago, Ill. Punch. 2,314,690; Mar. 23.
Dawson, John W., Auburndale, Mass., and R. N. Stoddard, East Orange, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Welding apparatus. 2,314,691; Mar. 23.
Day, Phillip E., Alhambra, Calif. Synchronizing system. 2,314,610; Mar. 23.
Dealy, Allene Akin, et al. (See Akin, John H., assignor.)
Dean, Roy H. (See Jackson, J. W., and Dean.)
Debicki, Alfred F., Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Pocket for billiard tables. 2,314,774; Mar. 23.
De Blasio, Giuseppe, administrator, et al. (See D'Annunzio, Alfred.)
De Fries, Walter, Pittsburgh, Pa., assignor to Fort Pitt Bedding Company. Mattress and the like. 2,314,482; Mar. 23.
De Laval Separator Company, The. (See Berwick, Frederick W. and Albert G., assignors.)
Del Camp, Scipione M., Maywood, assignor to Cinch Manufacturing Corporation, Chicago, Ill. Electrical terminal and terminal installation. 2,314,855; Mar. 23.
Derr, Willard A., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Control system. 2,314,692; Mar. 23.
Detroit Lubricator Company. (See Russel, Philip S., assignor.)
De Vellier, William A., Newark, N. J., assignor to New Process Screw Corporation, Waterville, Conn. Method and apparatus for rolling screws. 2,314,390; Mar. 23.
De Vellier, William A., New York, N. Y., assignor to New Process Screw Corporation, Waterville, Conn. Screw and its manufacture. 2,314,391; Mar. 23.
De Vlieg, Charles B., Detroit, assignor to Le Maire Tool & Manufacturing Company, Dearborn, Mich. Automatic grinder. 2,314,483; Mar. 23.
Dexter, Frederick A., assignor to The Leavitt Machine Company, Orange, Mass. Cutter head. 2,314,775; Mar. 23.
Diamond Iron Works, Incorporated. (See Hortvet, Richard M., assignor.)
Dickerman, Hubert E., Springfield, Mass., assignor to Savage Arms Corporation, New York, N. Y. Device for making rear sights for firearms. 2,314,574; Mar. 23.
Dickinson, Robert C., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electric circuit interrupter. 2,314,693; Mar. 23.
Dimmick, Glenn L., Haddonfield, N. J., assignor to Radio Corporation of America. Monitoring device. 2,314,392; Mar. 23.
Disney, Walt, Productions. (See Pickley, Leonard B., assignor.)
Dittus, Frederick W., Berkeley, P. J. Bertoglio, Alameda, and W. H. Spaulding, Berkeley, assignors to Standard Oil Company of California, San Francisco, Calif. Pipe expansion joint. 2,314,776; Mar. 23.
Divco-Twin Truck Company. (See Nicol, John, assignor.)
Dodds, Clarence W., Sharon, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electrical conductor. 2,314,694; Mar. 23.
Dodge, Kern, et al., trustee. (See Odor, Ralph K., assignor.)
Donnelly, James M. (See Knowland, R. G., and Donnelly.)
Doran, Albert B., Brentwood Heights, Calif., assignor to Dorex, Inc., Reno, Nev. Antidetonant. 2,314,575; Mar. 23.
Doran, Albert B., assignor to Dorex Corporation, Los Angeles, Calif. Treating oils. 2,314,576; Mar. 23.
Dorex, Inc. (See Doran, Albert B., assignor.)
Dougherty, Frank, Huntington Park, Calif. Tobacco user's appliance. 2,314,393; Mar. 23.
Dow Chemical Company, The. (See Mills, Lindley E., assignor.)
Drake, Edward P. (See Bird, L. O., and Drake.)
Drake, Edward P., and F. J. Alberty, Los Angeles, and W. H. Kagley, assignors to Lindsay Ripe Olive Company, Lindsay, Calif. Metering and aligning machine. 2,314,484; Mar. 23.
Drake, John L., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Glass cutting apparatus. 2,314,327; Mar. 23.
Draper Corporation. (See Draper, R. C., and Brown, assignors.)
Draper, Robert C., and C. D. Brown, assignors to Draper Corporation, Hopedale, Mass. Threading block for loom shuttles. 2,314,485; Mar. 23.
Dreyer, Albert, Lucerne, Switzerland. Method and apparatus for making flexible tubing. 2,314,611; Mar. 23.
Dryfood Ltd. (See Salzburg, August A., assignor.)
Duda, Wentzel R., Mount Lebanon, Pa. Hold-down device. 2,314,645; Mar. 23.
Duffy, John J., Tacoma, Wash. Windmill. 2,314,612; Mar. 23.
Duncan Electric Manufacturing Company. (See Green, Stanley S., assignor.)
Dunn, Harry E., assignor to W. E. Dunn Manufacturing Company, Holland, Mich. Cement block molding machine. 2,314,577; Mar. 23.
Dunn, W. E., Manufacturing Company. (See Dunn, Harry E., assignor.)
Dunn, William T. (See Neracher, C. A., and Dunn.)
Du Pont, E. I., de Nemours & Company. (See Kirst, W. E., and Winning, assignors.)
Du Pont, E. I., de Nemours & Company. (See Lee, H. R., and Young, assignors.)
Du Pont, E. I., de Nemours & Company. (See Winning, Clarence H., assignor.)
Du Pont, E. I., de Nemours & Company. (See Winning, C. H., and Miller, assignors.)
Dusdieker, Stanley W., Des Moines, Iowa. Light operated control system for electric lights. 2,314,695; Mar. 23.
Du Vall, Emile M., assignor to R. E. Owens, Chicago, Ill. Expanding rivet. 2,314,445; Mar. 23.

Dvorak, James J., Chicago, assignor to H. S. Simpson, Evanston, Ill. Apparatus for cooling sand mullers. 2,314,486; Mar. 23.
Dzus Fastener Co. (See White, W. T., and Zimmerman, assignors.)
Eastern Corrugated Container Corporation. (See Greenberg, Abbot, assignor.)
Edison General Electric Appliance Company. (See Stoddard, Edgar S., assignor.)
Edison General Electric Appliance Company. (See Walker, Forrest A., assignor.)
Edna Brass Mfg. Company, The. (See Hedeman, W. N., and Snyder, assignors.)
Elb Products, Inc. (See Benedict, Edward L., assignor.)
Electric & Musical Industries Limited. (See Lubszynski, Hans G., assignor.)
Electro Refractories & Alloys Corporation. (See Berns, Milton H., assignor.)
Enderle, Frank C., Los Angeles, Calif. Flue or vent pipe. 2,314,328; Mar. 23.
Endter, Waldemar A., Long Beach, Calif. Wedge keeper for rotary latches. 2,314,613; Mar. 23.
Erb, Nathan J., San Francisco, Calif. Tab index. 2,314,578; Mar. 23.
Ericks, Walter P. (See McClellan, P. P., and Ericks.)
Ericson, Walter M., Milwaukee, Wis. Spraying coatings, particularly asphaltic coatings and the like. 2,314,329; Mar. 23.
Eshbaugh, Jesse E., and N. Walker, Flint, assignors to General Motors Corporation, Detroit, Mich. Gasoline tank sealing cap. 2,314,330; Mar. 23.
Everest, J. H., et al., trustee. (See Odor, Ralph K., assignor.)
Ewer, Arthur C., Brooklyn, N. Y., assignor to Bemis Bro. Bag Company, St. Louis, Mo. Closure. 2,314,819; Mar. 23.
Failing, George E., Supply Company, The. (See Alexander, E. L., and Braithwaite, assignors.)
Fairbanks, Sumner C., Passaic, assignor to The Hamersley Manufacturing Company, Garfield, N. J. Impregnated paper. 2,314,820; Mar. 23.
Fairmount Tool and Forging Co., The. (See Gambino, Joseph, assignor.)
Fallis, Herbert B., Wichita, Kans. Device for holding garbage cans. 2,314,331; Mar. 23.
Farrington, Hastings M., London, England. Mechanical pencil. 2,314,777; Mar. 23.
Fecker, Theodor, Berlin, Germany, assignor to General Electric Company. Transmitter. 2,314,487; Mar. 23.
Fellows, Fred H., North Chicago, Ill., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Tubular latch. 2,314,488; Mar. 23.
Fennema, Richard, assignor to Crane Co., Chicago, Ill. Gland bolt retainer. 2,314,489; Mar. 23.
Ferguson, Robert P., Cranford, N. J., assignor to Standard Oil Development Company. Refining of oils. 2,314,446; Mar. 23.
Ferris, Donald K., Geneva, N. Y. Apparatus for washing articles. 2,314,332; Mar. 23.
Filtrol Company of California. (See Kelley, William, assignor.)
Fisher, Ernest F., Passaic, N. J. Preparing filling material for incendiary bombs and flares. 2,314,614; Mar. 23.
Ford Motor Company. (See Sorensen, C. E., and Sheldrick, assignors.)
Ford Motor Company. (See Wharam, John J., assignor.)
Forsberg Axel A., Stockholm, Sweden. Vacuum cleaner. 2,314,858; Mar. 23.
Fort Pitt Bedding Company. (See de Fries, Walter, assignor.)
Foster, George H., and L. L. Lento, Jr., Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Preparation of dipotassium monosodium ferricyanide. 2,314,347; Mar. 23.
Francis, Alfred W., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, New York, N. Y. Chemical process. 2,314,333; Mar. 23.
Frank, Louis, Taft, Calif. Wire or rod connector. 2,314,579; Mar. 23.
Franklin, Reginald G., and F. J. Wilkins, Norton-on-Tees, England, assignors to Imperial Chemical Industries Limited. Production of nitro compounds. 2,314,615; Mar. 23.
Frantz, Paul E., Euclid, assignor to The Apex Electrical Manufacturing Company, Cleveland, Ohio. Suction cleaner. 2,314,334; Mar. 23.
Freeman, Robert E. (See Stempel, H. K., and Freeman.)
Frey, Frederick E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Hydrocarbon derivative. 2,314,335; Mar. 23.
Frieders, Robert T. (See Sullivan, O. J., and Frieders.)
Fritts, George E., Torrance, Calif. Device for gripping rods and the like. 2,314,821; Mar. 23.
Froelich, George E., assignor to Hamilton Manufacturing Company, Two Rivers, Wis. Physician's examining table or the like. 2,314,778; Mar. 23.
Fuhrmann, Warren, Kearny, N. J. Tag. 2,314,779; Mar. 23.
Funk, James M., Ottawa, Ill., assignor to Lonergan Manufacturing Company, Albion, Mich. Air conditioning and circulating apparatus. 2,413,696; Mar. 23.
Gade, Harald F., Philadelphia, assignor to Pennsylvania Manufacturing Company, Jenkintown, Pa. Lock nut and manufacture. 2,314,780; Mar. 23.
Gaire, Paul E., Weehawken, N. J. Fishing reel. 2,314,616; Mar. 23.
Galainena y Quesada, Mariano José, Habana, Cuba. Controlling specific gravities. 2,314,822; Mar. 23.
Gambino, Joseph, assignor to The Fairmount Tool and Forging Co., Cleveland, Ohio. Dolly block construction. 2,314,617; Mar. 23.
Ganis, Harry J., Winchester, Va. Marine mine destroyer. 2,314,781; Mar. 23.
Garand, John C., Springfield, Mass. Abrading tool. 2,314,348; Mar. 23.
Garretson, Owen L., Detroit, Mich., assignor to Phillips Petroleum Company. Carburetor. 2,314,580; Mar. 23.
Gehne, Reynold. (See Toelke, A. F., Gehne, and Wenta.)
General Aniline & Film Corporation. (See Manchen F., and Schmidt, assignors.)
General Aniline & Film Corporation. (See v. Bock, B., Ufer, and Kleiner, assignors.)
General Aniline & Film Corporation. (See Zerweck, W., and Brunner, assignors.)
General Electric Company. (See Craig, Charles R., assignor.)
General Electric Company. (See Fecker, Theodor, assignor.)
General Electric Company. (See Norris, Rollin H., assignor.)
General Motors Corporation. (See Bluemle, Arnold A., assignor.)
General Motors Corporation. (See Carlson, Wilbur L., assignor.)
General Motors Corporation. (See Eshbaugh, J. E., and Walker, assignors.)
General Motors Corporation. (See Lillquist, Torsten O., assignor.)
General Motors Corporation. (See McCormack, Alex A., assignor.)
General Motors Corporation. (See McCormick, Francis H., assignor.)
General Motors Corporation. (See Rabezzana, Hector, assignor.)
General Motors Corporation. (See Schilling, Robert, assignor.)
George, Frederick D., Sacramento, Calif., assignor to Intertype Corporation, Brooklyn, N. Y. Typographical composing machine. 2,314,536; Mar. 23.
Gerich, Valentine, New York, N. Y. Sectional boiler. 2,314,581; Mar. 23.
Gerich, Valentine, New York, N. Y. Two-way driftpin, swaging, and aligning tool. 2,314,582; Mar. 23.
Gessler, Otto C., Detroit, Mich. Concealed hinge. 2,314,337; Mar. 23.
Gill Glass & Fixture Company. (See Orth, Richard, assignor.)
Gill, James C., et al. (See Sigler, Laurence M., assignor.)
Gill, Kathryn B., et al. (See Sigler, Laurence M., assignor.)
Gillette Safety Razor Company. (See Testi, Nicholas, assignor.)
Girdelstone, Frances G. (See Keats, Harold B., assignor.)
Goff, Roland L., Yreka, Calif. Meat chopping block smoothing machine. 2,314,697; Mar. 23.
Gold, Archibald. (See Leathers, W., and Gold.)
Goldman, Sylvan N., Oklahoma City, Okla. Grocery sacker. 2,314,490; Mar. 23.
Goodale, Raymond H., Worcester, Mass. Simultaneously testing and filtering solutions. 2,314,336; Mar. 23.
Goodale, Raymond H. (See McClintock, Leslie A., assignor.)
Goodman Manufacturing Company. (See Holstein, John H., assignor.)
Gora, Henry Z., Bridgeport, Conn., assignor to Jenkins Bros., New York, N. Y. Molding apparatus. 2,314,823; Mar. 23.
Goretsky, Louis, Roxbury, Mass. Ear muff. 2,314,782; Mar. 23.
Graves, Charles B., Maplewood, and R. B. Busch, Webster Groves, assignors to Sefton Fibre Can Company, Maplewood, Mo. Container. 2,314,338; Mar. 23.
Gray, Frederick J., Cheltenham, England. Supplying air to submerged submarines. 2,314,698; Mar. 23.
Green, Isaac H. C., Pawtucket, assignor to Hemphill Company, Central Falls, R. I. Knitting. 2,314,618; Mar. 23.
Green, Stanley S., assignor to Duncan Electric Manufacturing Company, La Fayette, Ind. Overload compensation for watt-hour meters. 2,314,447; Mar. 23.
Greenberg, Abbot, New York, assignor to Eastern Corrugated Container Corporation, Brooklyn, N. Y. Inner packing of corrugated board. 2,314,491; Mar. 23.
Greene, Charles H., assignor to Corning Glass Works, Corning, N. Y. Making glass articles. 2,314,824; Mar. 23.
Grey, John D. (See McCarty, Madison P., assignor.)
Growdon, Leonard R. (See Morris, D. F., and Growdon.)
Guettler, Arthur E., New York, N. Y. Adjustable ventilator. 2,314,492; Mar. 23.
Guth, Durward O., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Flexible sheeted abrasive. 2,314,340; Mar. 23.
Guy, Frederick M., assignor to Guy and Murton, Incorporated, Detroit, Mich. Shock absorber. 2,314,493; Mar. 23.

Guy, Luther S., Brentwood, Md. Shoe polisher. 2,314,394; Mar. 23.
Guy and Murton, Incorporated. (See Guy, Frederick M., assignor.)
Haas, Otto R., North Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Housing for shoe machines. 2,314,350; Mar. 23.
Hale, Danforth R., Madison, N. J., assignor to Radio Corporation of America. Luminescent material. 2,314,699; Mar. 23.
Hall, Carlos and F., assignors of twenty-five per cent to H. H. Hallatt and twenty-five per cent to O. A. Chabrand, Mexico City, Mexico. Washer placing machine. 2,314,494; Mar. 23.
Hall, Fernando. (See Hall, Carlos and F.)
Hall, James V., Decatur, Ga. Combination ledger and statement sheet. 2,314,495; Mar. 23.
Hallatt, Harry H., et al. (See Hall, Carlos and F., assignors.)
Hamersley Manufacturing Company. (See Fairbanks, Sumner C., assignor.)
Hamilton Manufacturing Company. (See Froelich, George E., assignor.)
Hamilton Metal Products Company, The. (See Piker, Herbert M., assignor.)
Hammond, Laurens, Chicago, Ill. Electrical musical instrument. 2,314,496; Mar. 23.
Hanlon & Wilson Company. (See Sabol, Ernest J.)
Hanshaw, Fred, Port Huron, Mich. Fowl picker. 2,314,700; Mar. 23.
Hargrave, John C., Kings Langley, and D. C. Williams, London, England. Course-indicating apparatus for vehicles. 2,314,497; Mar. 23.
Harrington, Edward L., assignor to Blaw-Knox Company, Pittsburgh, Pa. Clamshell bucket. 2,314,395; Mar. 23.
Harris-Seybold-Potter Company. (See Harrold, Charles W., assignor.)
Harrold, Charles W., University Heights, assignor to Harris-Seybold-Potter Company, Cleveland, Ohio. Inking mechanism for printing presses. 2,314,351; Mar. 23.
Harvel Corporation, The. (See Harvey, Mortimer T., assignor.)
Harvey, Mortimer T., East Orange, N. J., assignor to The Harvel Corporation. Laminated product. 2,314,701; Mar. 23.
Havens, Glenn G. (See Bull, A. W., and Havens.)
Havens, Glenn G. (See Moore, O. B., Havens, and Wikle.)
Hayes Industries, Inc. (See King, James T., assignor.)
Hedeman, William N., Cincinnati, and W. E. Snyder, Silverton, assignors to The Edna Brass Mfg. Company, Cincinnati, Ohio. Single valve gear for plural valve control. 2,314,842; Mar. 23.
Helgoth, Bud, St. Louis, Mo. Black-out shade construction. 2,314,784; Mar. 23.
Hemphill Company. (See Green, Isaac H. C., assignor.)
Henry, Sidney, New York, N. Y. Hair net. 2,314,396; Mar. 23.
Henze, Henry R., Austin, Tex., assignor to Eli Lilly and Company, Indianapolis, Ind. 5-ethyl-5-phenyl barbituric compounds and preparing these compounds. 2,314,537; Mar. 23.
Herbester, George, Cleveland, Ohio. Heating apparatus. 2,314,825; Mar. 23.
Hess, William P., Menlo Park, Calif. Yarn holder. 2,314,619; Mar. 23.
Hewitt, Ellis E., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Locomotive brake equipment. 2,314,397; Mar. 23.
Higgins, Joseph E., Grand Island, Nebr. Rotary lawn sprinkler. 2,314,702; Mar. 23.
Hinkley, Ray A., assignor to Corning Glass Works, Corning, N. Y. Method and apparatus for perforating glass articles. 2,314,826; Mar. 23.
Hoagland, Lucille E., Rosemead, Calif. Sleeve pressing pad. 2,314,498; Mar. 23.
Hoch, Walter A., Forest Hills, assignor to New York Pressing Iron Company, Inc., New York, N. Y. Garment pressing machine. 2,314,398; Mar. 23.
Hoffoss, John E., assignor to Reed Roller Bit Company, Houston, Tex. Coring apparatus. 2,314,352; Mar. 23.
Hoggatt, Gilbert A., Snyder, assignor to Certain-Teed Products Corporation, New York, N. Y. Wall construction. 2,314,448; Mar. 23.
Hoggatt, Gilbert A., Snyder, assignor to Certain-Teed Products Corporation, New York, N. Y. Wall construction. 2,314,449; Mar. 23.
Holland, John D., London, England, assignor to International Standard Electric Corporation, New York, N. Y. Radio receiver. 2,314,785; Mar. 23.
Hollenbeck, Ernest L., Los Angeles, Calif. Fluid control applicator. 2,314,538; Mar. 23.
Hollenbeck, Ernest L., Los Angeles, Calif. Fluid control applicator. 2,314,539; Mar. 23.
Holstein, John H., assignor to Goodman Manufacturing Company, Chicago, Ill. Shaker conveyer. 2,314,786; Mar. 23.
Holtzclaw, John B., Roselle, and G. E. Serniuk, Elizabeth, N. J., assignors to Standard Oil Development Company. Emulsifying and scouring assistant for mineral sulphonates. 2,314,450; Mar. 23.
Hortvet, Richard M., Minneapolis, assignor to Diamond Iron Works, Incorporated, Minneapolis, Minn. Extracting pure nitrogen from air. 2,314,827; Mar. 23.
Hotchkiss, E. H., Company, The. (See Polzer, Fridolin, assignor.)
Howard, Darnley E., Washington, D. C. Apparatus for reproducing three-dimensional patterns and the like. 2,314,499; Mar. 23.
Howarth, Harry A. S., Philadelphia, Pa. Bearing. 2,314,703; Mar. 23.
Hudson Engineering Corporation. (See Baird, John B., assignor.)
Hultquist, Martin E., North Plainfield, N. J., assignor to American Cyanamid Company, New York, N. Y. Producing nicotinamide. 2,314,843; Mar. 23.
Humphries, William A., Stanford, Ky. Printing device. 2,314,828; Mar. 23.
Hunt, Grover C., Carlisle, Pa. Grinding machine. 2,314,787; Mar. 23.
Hunter, Robert H., Cleveland, Ohio. Photographing unit. 2,314,829; Mar. 23.
Hunter, Robert H., Cleveland, Ohio. Tent. 2,314,830; Mar. 23.
Huntington, Richard L., Norman, Okla., assignor to Phillips Petroleum Company. Apparatus for measuring volume of bottom hole portion of well bores. 2,314,540; Mar. 23.
Hyland, Daniel F., H. L. Brenner, J. Brenner, and E. M. Knudsen, assignors to Arch-O-Graph Company, St. Louis, Mo. Machine for making lift blanks. 2,314,541; Mar. 23.
Illinois Tool Works. (See Olson, Carl G., assignor.)
Illinois Tool Works. (See Poupitch, Ougljesa J., assignor.)
Imperial Chemical Industries Limited. (See Ashcroft, Donald G., assignor.)
Imperial Chemical Industries Limited. (See Crawford, J. W. C., and McLeish, assignors.)
Imperial Chemical Industries Limited. (See Franklin, R. G., and Wilkins, assignors.)
Innes, John W., Philadelphia, Pa. Welding jig. 2,314,788; Mar. 23.
International Business Machines Corporation. (See Bailey, W. J. A., and Panissidi, assignors.)
International Business Machines Corporation. (See Leathers, W., and Gold, assignors.)
International Standard Electric Corporation. (See Holland, John D., assignor.)
Intertype Corporation. (See Allan, G. W., and Simpson, assignors.)
Intertype Corporation. (See George, Frederick D., assignor.)
Jackes-Evans Manufacturing Company. (See Toelke, A. F. Gehne, and Wenta, assignors.)
Jackson, John W., Dearborn Hills, and R. H. Dean, assignors to Ternstedt Manufacturing Company, Detroit, Mich. Outside door handle. 2,314,399; Mar. 23.
Jackson, Kermit J., Honolulu, Territory of Hawaii. Pineapple grading apparatus. 2,314,704; Mar. 23.
Jacobsen, Edwin, Glendale, Calif. Internal combustion engine. 2,314,789; Mar. 23.
Jacobson, James J., New York, N. Y. Display stand. 2,314,500; Mar. 23.
Jander, Yorke G., Greenwich, Conn. Safety means for agricultural implements. 2,314,620; Mar. 23.
Janonis, George, Detroit, Mich. Door latch mechanism. 2,314,400; Mar. 23.
Jasco, Incorporated. (See Thwaites, Herman L., assignor.)
Jasperson, Robert E., United States Navy. Navigational coordinator. 2,314,353; Mar. 23.
Jefferson, Lorenz E., Baltimore, Md. Awning hanger. 2,314,354; Mar. 23.
Jenkins Bros. (See Gora, Henry Z., assignor.)
Jenter Corporation. (See Jenter, Martin, assignor.)
Jenter, Martin, Pelham, N. Y., assignor to Jenter Corporation, Ridgefield, N. J. Folder. 2,314,790; Mar. 23.
Jervis, Fred, Los Angeles, Calif., assignor, by mesne assignments, to Bardeo Manufacturing & Sales Company, Dayton, Ohio. Alternator control system. 2,314,501; Mar. 23.
Johns, Thomas H., Swissvale, and P. W. Sylvander, McKeesport, Pa. Bucket. 2,314,835; Mar. 23.
Johnson, Edward E., Incorporated. (See Bodey, Charles E., Jr., assignor.)
Johnson, Evert F., assignor to The Pennzoil Company, Oil City, Pa. Follow-up card file holding and designating machine. 2,314,705; Mar. 23.
Johnson, Frank A., San Francisco, Calif. Biscuit and cooky cutter and ejector. 2,314,401; Mar. 23.
Johnson, Frank B. (See Stahly, E. E., and Johnson.)
Johnston, Howard M., assignor to Massey-Harris Company Ltd., Toronto, Ontario, Canada. Grain grinder gate valve. 2,314,706; Mar. 23.
Jones, Bolling, Jr., R. H. and L. White, assignors to Atlanta Stove Works, Atlanta, Ga. Portable stove. 2,314,791; Mar. 23.
Jones, Walter, Princeton, N. J., assignor to Carrier Corporation, Syracuse, N. Y. Refrigeration. 2,314,402; Mar. 23.
Jordan, Ralph J. (See Wagner, Erwin and W. S., and Jordan.)
Kafowi, Jan, Far Rockaway, N. Y. Metalworking apparatus and method. 2,314,403; Mar. 23.

Kagley, William H. (See Drake, E. P., Alberty, and Kagley.)
Kamlet, Jonas, Brooklyn, N. Y., assignor to Miles Laboratories, Inc., Elkhart, Ind. Preparation of d-tartaric acid by fermentation. 2,314,831; Mar. 23.
Katcher, Morris, New York, N. Y. Hydraulic steering stabilizer. 2,314,404; Mar. 23.
Katzin, Martin, Riverhead, N. Y., assignor to Radio Corporation of America. Signaling system. 2,314,707; Mar. 23.
Kauffman, Walter L., II, assignor to Lovell Manufacturing Company, Erie, Pa. Wringer and the like. 2,314,708; Mar. 23.
Kauffman, Walter L., II, assignor to Lovell Manufacturing Company, Erie, Pa. Wringer and the like. 2,314,709; Mar. 23.
Keasbey & Mattison Company. (See Schuetz, Clyde C., assignor.)
Keats, Harold B., assignor of one-half to F. G. Girdlestone, Vancouver, British Columbia, Canada. Escutcheon plate for door latches. 2,314,646; Mar. 23.
Keese, Beverly W., Oshkosh, Wis., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Power transmitting mechanism. 2,314,833; Mar. 23.
Kell, Raymond W. (See Blau, H. H., and Kell.)
Keller, Robert T., Royal Oak, assignor to Chrysler Corporation, Highland Park, Mich. Combined tail lamp and gas tank filling vent. 2,314,710; Mar. 23.
Kelley, Cecil S., Forest Hills, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Pneumatic switch device. 2,314,405; Mar. 23.
Kelley, William, assignor, by mesne assignments, to Filtrol Company of California, Los Angeles, Calif. Refining oils of edible type. 2,314,621; Mar. 23.
Kellogg, Edward W., Moorestown, N. J., assignor to Radio Corporation of America. Projection printer. 2,314,406; Mar. 23.
Kelly, Harold S., Amarillo, Tex., assignor to Phillips Petroleum Company. Dual purpose traveling block. 2,314,502; Mar. 23.
Kelly, Raymond A., and W. F. Raddon, Salt Lake City, Utah. Cleaning device. 2,314,711; Mar. 23.
Kern, Fred T., Milwaukee, Wis. Apparatus for separating materials. 2,314,542; Mar. 23.
Kiel, John R., Merchantville, N. J., assignor to M. R. Kiel, Wilmette, Ill. Sound on film. 2,314,834; Mar. 23.
Kiel, Mary R. (See Kiel, J. R., assignor.)
King, James T., Burbank, Calif., assignor to Hayes Industries, Inc., Jackson, Mich. Expander tube brake. 2,314,712; Mar. 23.
Kingston, Arthur W., assignor to Combined Optical Industries Limited, London, England. Optical lens and similar device. 2,314,838; Mar. 23.
Kirch, Charles E., Alden, N. Y. Device for mounting wall cabinets. 2,314,713; Mar. 23.
Kirst, William E., and C. H. Winning, Woodbury, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Explosive composition. 2,314,832; Mar. 23.
Kirsten, Kurt F. J., Seattle, Wash., assignor to M. G. Trontman, Columbus, Ohio. Electric switch. 2,314,407; Mar. 23.
Kitsman, William L., Bartlesville, Okla., assignor to Phillips Petroleum Company. Well pumping apparatus. 2,314,583; Mar. 23.
Klamp, Paul, assignor to The Timken Roller Bearing Company, Canton, Ohio. Bearing mounting. 2,314,622; Mar. 23.
Kleiner, Helmut. (See v. Bock, B., Ufer, and Kleiner.)
Knight, Julian G., Brooklyn, N. Y. Outlet box installation. 2,314,408; Mar. 23.
Knoop, William A., Hempstead, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Magnetic coil structure. 2,314,409; Mar. 23.
Knowland, Richard G., Pelham, and J. M. Donnelly, Amsterdam, N. Y., assignors to Bigelow-Sanford Carpet Co. Inc., Thompsonville, Conn. Fabric. 2,314,844; Mar. 23.
Knox, Harry A., Washington, D. C. Track shoe. 2,314,355 Mar. 23.
Knudsen, Elmer M. (See Hyland, D. F., Brenner, Hugo L. and John, and Knudsen.)
Kopf, Joseph L., Maplewood, N. J., assignor to Jabez Burns & Sons, Inc., New York, N. Y. Coffee maker. 2,314,543; Mar. 23.
Korner, William E., Gary, Ind., assignor to Carnegie-Illinois Steel Corporation. Device or attachment for lifting boxes and the like. 2,314,792; Mar. 23.
Kouyoumjian, Haroutiun K., Wakefield, R. I. Electric switch. 2,314,714; Mar. 23.
Kraft, Herman O., Detroit, Mich. Window screen. 2,314,715; Mar. 23.
Kribs, Edward F. (See Millikan, N. E., and Kribs.)
Kritz, Leo L., Spencer, Iowa. Annunciator. 2,314,584; Mar. 23.
Kurgas, Walter A., assignor to E. B. Moore, St. Louis, Mo. Artificial tooth. 2,314,503; Mar. 23.
Kurkjian, Yervant H., Hawthorne, N. J., assignor, by mesne assignments, to Julius Schmid, Inc., New York, N. Y. Bead forming and printing device. 2,314,716; Mar. 23.
Kurlash Company, The. (See Tuttle, W. R., and Stickel, assignors.)
Kurzina, Stanley B., Jr., Elmira, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Backpedaling brake for velocipedes. 2,314,845; Mar. 23.
Lammle, Jacob J., Long Lake, S. Dak. Bag holding device. 2,314,410; Mar. 23.
Landwehr, Richard F., Laurelton, assignor to Sagamor Metal Goods Corporation, New York, N. Y. Carrying case. 2,314,717; Mar. 23.
Lannan, George M. (See Tucker, J. L., and Lannan.)
Larson, Andrew, Tacoma, Wash. Door check and holding device. 2,314,544; Mar. 23.
Larson, Kenneth R., Des Plaines, Ill., and G. M. Walraven, assignors to Snap-On Tools Corporation, Kenosha, Wis. Ratchet mechanism. 2,314,623; Mar. 23.
Law, Stanley W., St. Paul, Minn. Variable resistance unit. 2,314,793; Mar. 23.
Leathers, Ward, Brooklyn, and A. Gold, New York, N. Y., assignors, by mesne assignments, to International Business Machines Corporation. Accounting apparatus. 2,314,718; Mar. 23.
Leathers, Ward, Brooklyn, N. Y., assignor, by mesne assignments, to International Business Machines Corporation. Automatic meter-reading apparatus. 2,314,719; Mar. 23.
Leathers, Ward, Brooklyn, N. Y., assignor, by mesne assignments, to International Business Machines Corporation. Automatic meter-reading apparatus. 2,314,720; Mar. 23.
Leavitt Machine Company, The. (See Dexter, Frederick A., assignor.)
Lee, Henry R., Pitman, N. J., and C. A. Young, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Compounds of the anthraquinone series. 2,314,356; Mar. 23.
Lefler Corporation. (See Tandler, W. S., Teller, and Walker, assignors.)
Lehman, Carl E., Chicago, Ill. Faucet attachment. 2,314,357; Mar. 23.
Le Maire Tool & Manufacturing Company. (See De Vlieg, Charles B., assignor.)
Lemle, William, Chicago, Ill. Ash-retaining cigarette holder. 2,314,585; Mar. 23.
Lénin, Georges, Saint-Cyr-sur-Mer, France, assignor to Olaer Patent Company, New York, N. Y. Fire control device. 2,314,860; Mar. 23.
Lento, Louis L., Jr. (See Foster, G. H., and Lento.)
Leonard, Henry, & Thomas, Inc. (See Brunner, Otto, assignor.)
Lesage, Ernest R. (See Clark, G. N., and Lesage.)
Lesser, Julian L. (See Olman, Peter M., assignor.)
Le Tourneau, R. G., Inc. (See Bird, L. O., and Drake, assignors.)
Levison, Samuel, Chicago, Ill. Treatment of fruits and vegetables. 2,314,586; Mar. 23.
Lewis, William H., Los Angeles, Calif. Asphalt finisher and spreader. 2,314,358; Mar. 23.
Libbey Glass Company. (See Bauman, Thomas C., assignor.)
Libbey-Owens-Ford Glass Company. (See Binkert, Carl F., assignor.)
Libbey-Owens-Ford Glass Company. (See Drake, John L., assignor.)
Libbey-Owens-Ford Glass Company. (See Worden, Edward M., assignor.)
Lifchultz, Leo B., Chicago, Ill. Leash. 2,314,501; Mar. 23.
Lilquist, Arvid E., assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Electromagnetic brake. 2,314,451; Mar. 23.
Lilquist, Torsten O., Clarendon Hills, Ill., assignor to General Motors Corporation, Detroit, Mich. Generating electric drive and control system. 2,314,587; Mar. 23.
Lillquist, Torsten O., Clarendon Hills, Ill., assignor to General Motors Corporation, Detroit, Mich. Generating electric drive and control system. 2,314,588; Mar. 23.
Lilly, Eli, and Company. (See Henze, Harry E., assignor.)
Linder, Ernest G., Philadelphia, Pa., assignor to Radio Corporation of America. Microwave device. 2,314,794; Mar. 23.
Lindfelt, Edward C., Des Moines, Iowa. Glove. 2,314,545; Mar. 23.
Lindsay Pipe Olive Company. (See Drake, E. P., Alberty, and Kagley, assignors.)
Ljungstrom, Erik, Lidingo, Sweden. Hermetically sealed can. 2,314,452; Mar. 23.
Lock Joint Pipe Company. (See Brend, William R., assignor.)
Lonergan Manufacturing Company. (See Funk, James M., assignor.)
Longenecker, Charles I., Wauwatosa, assignor to Chain Belt Company, Milwaukee, Wis. Batch charging apparatus for concrete mixers. 2,314,647; Mar. 23.
Lovell Manufacturing Company. (See Kauffman, Walter L., II.)
Lowenstein, Herman H., Chicago, Ill. Diorama construction. 2,314,721; Mar. 23.
Lubszynski, Hans G., Hillingdon, assignor to Electric & Musical Industries Limited, Hayes, Middlesex, England. Television transmitting and the like system. 2,314,648; Mar. 23.

Luck, David G. C., Haddon Heights, N. J., assignor to Radio Corporation of America. Radio range. 2,314,795; Mar. 23.
Lundvall, John S., assignor to Union Asbestos & Rubber Company, Chicago, Ill. Refrigerator car hatch closure. 2,314,649; Mar. 23.
Lyon, Norman W., assignor to Package Machinery Company, Springfield, Mass. Web registering device. 2,314,411; Mar. 23.
Macaulay, Walter B., Oakland, assignor to Yuba Manufacturing Company, San Francisco, Calif. Dredge hull. 2,314,624; Mar. 23.
Mack, Edward L., Douglaston, N. Y., and E. H. Morse, Nutley, N. J., assignors to Reynolds Research Corporation, Richmond, Va. Coating and filming machine and apparatus. 2,314,453; Mar. 23.
Madsen, Paul S., Bethany, assignor to The Seamless Rubber Company, New Haven, Conn. Ice bag. 2,314,650; Mar. 23.
Maggin, Bernard, Detroit, Mich. Recording barograph. 2,314,722; Mar. 23.
Manchen, Friedrich, and W. Schmidt, Ludwigshafen-on-the-Rhine, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y. Production of esters of halogen alcohols. 2,314,454; Mar. 23.
Mandl, Siegmund, assignor to Blackhawk Mfg. Co., Milwaukee, Wis. Jack assemblage. 2,314,589; Mar. 23.
Mankoff, Henry J., Wichita, Kans. Feed grinding rotor. 2,314,723; Mar. 23.
Marathon Paper Mills Company. (See Sullivan, O. J., and Frieders, assignors.)
Marsan, Edward P., Chicago, Ill. Colostomy protector. 2,314,724; Mar. 23.
Marshall, Albert M. (See Page, Arthur A., assignor.)
Marx, Herman, New York, N. Y. Combination wearing apparel and protector therefor. 2,314,796; Mar. 23.
Massey-Harris Company Ltd. (See Johnston, Howard M., assignor.)
Massey-Harris Company Ltd. (See Shenstone, Osborne H., assignor.)
Masterson, John F., Evanston, assignor to Twinkle Toes, Inc., Chicago, Ill. Hose protector and the like. 2,314,359; Mar. 23.
Matthews, Howard D., assignor to W. M. Chace Company, Detroit, Mich. Thermostatic element. 2,314,412; Mar. 23.
Maule, Belford D., and J. D. Maule, Michigan Center, Mich., assignors to The Aviation Corporation, Williamsport, Pa. Starter for internal combustion engines. 2,314,547; Mar. 23.
Maule, June D. (See Maule, Belford D. and June D.)
Maule, June D., Michigan Center, Mich., assignor to The Aviation Corporation, Williamsport, Pa. Airplane starter combination. 2,314,546; Mar. 23.
McCarthy, Henry J., Danvers, Mass., assignor to Sylvania Electric Products. Thermal relay for electric discharge lamp. 2,314,725; Mar. 23.
McCarty, Madison P., assignor of one-half to J. D. Grey, Dallas, Tex. Electro vacuum vibrator. 2,314,590; Mar. 23.
McClellan, Paul P., Old Greenwich, and W. P. Bricks, Cos Cob, Conn., assignors to American Cyanamid Company, New York, N. Y. Stabilized ice color composition containing guanylurea. 2,314,652; Mar. 23.
McClellan, Paul P., Old Greenwich, and J. C. Bacon, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Sulpho esters of cis-endomethylene - 3.6 - Δ^4 - tetrahydrophthalic acid. 2,314,846; Mar. 23.
McClintock, Leslie A., assignor to R. H. Goodale, Worcester, Mass. Filter paper and its manufacture and use. 2,314,548; Mar. 23.
McClure, Glenn T., McKeesport, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake means. 2,314,413; Mar. 23.
McCormack, Alex A., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,314,591; Mar. 23.
McCormick, Francis H., assignor to General Motors Corporation, Dayton, Ohio. Domestic appliance. 2,314,592; Mar. 23.
McDevitt, William J., Toronto, Ontario, Canada. Reversible valve. 2,314,653; Mar. 23.
McEnery, Joseph P., New York, N. Y. Package holder. 2,314,360; Mar. 23.
McIntyre, William D., Monroe, J. M. Nickelsen, Ann Arbor, and C. E. Read, assignors to Monroe Auto Equipment Company, Monroe, Mich. Spring suspension for vehicles. 2,314,505; Mar. 23.
McKenzie, M. W., et al., trustee. (See Odor, Ralph K., assignor.)
McLean, Robert E., Fort Benning, Ga. Rotary type can opener. 2,314,506; Mar. 23.
McLeish, Nancy. (See Crawford, J. W. C., and McLeish.)
Mead Corporation, The. (See Morris, D. F., and Growdon, assignors.)
Medcalf, Lee A., Fairgrove, Mich. Seed sorting machine. 2,314,593; Mar. 23.
Meinhardt, Maude E., assignor to H. M. Melvin, Los Angeles, Calif. Rock crusher and disintegrator. 2,314,414; Mar. 23.
Melvin, Hallie M. (See Meinhardt, Maude E., assignor.)
Mergenthaler Linotype Company. (See Burt, Harold A., assignor.)
Merrifield, John D., Rocky Ford, Colo. Automatic weighing machine. 2,314,654; Mar. 23.
Metzner, Albert W. (See Sherman, John Q.)
Meutsch, Charles C., Buffalo, N. Y. Spring suspension for furniture. 2,314,361; Mar. 23.
Milbrath, Arthur F., assignor to Wisconsin Motor Corporation, Milwaukee, Wis. Combination reducing and reversing drive unit. 2,314,549; Mar. 23.
Miles Laboratories, Inc. (See Kamlet, Jonas, assignor.)
Miller, Ross J. (See Winning, C. H., and Miller.)
Millikan, Norman E., Brownsburg, and E. F. Kribs, Indianapolis, Ind. Barbecue oven. 2,314,627; Mar. 23.
Mills, Lindley E., assignor to The Dow Chemical Company, Midland, Mich. Termite control. 2,314,362; Mar. 23.
Minnesota Mining & Manufacturing Company. (See Brown, J. A., and Clarke, assignors.)
Minnesota Mining & Manufacturing Company. (See Guth, Durward O., assignor.)
Minter, James H., Columbus, Ga. Kiln. 2,314,507; Mar. 23.
Mishawak Rubber and Woolen Manufacturing Company. (See Cunningham, M. M., and Wise, assignors.)
Miskin, Arthur R., Ucon, Idaho. Weaning device for animals. 2,314,625; Mar. 23.
Mitchell, Robert, Co. Limited, The. (See Woelfel, Harold M., assignor.)
Monies, Martin L., Lafayette, La. Multiple torpedo. 2,314,655; Mar. 23.
Monolith Portland Cement Company. (See West, C. T., and Treshow, assignors.)
Monroe Auto Equipment Company. (See McIntyre, W. D., Nickelsen, and Read, assignors.)
Monteleone, Ernest J., Jersey City, N. J. Display device. 2,314,508; Mar. 23.
Moore, E. B. (See Kurgas, Walter A., assignor.)
Moore, Laurence L. (See Winslow, C. A., and Moore.)
Moore, Osborne B., and G. G. Havens, Detroit, and G. F. Wikle, Grosse Pointe, Mich., assignors to United States Rubber Company, New York, N. Y. Apparatus for treating tires. 2,314,726; Mar. 23.
Morella, Frank, Milwaukee, Wis. Variable speed ironer. 2,314,415; Mar. 23.
Morris, Donald F., and L. R. Growdon, assignors to The Mead Corporation, Chillicothe, Ohio. Paper manufacture. 2,314,797; Mar. 23.
Morse, Earle H. (See Mack, E. L., and Morse.)
Morten, Louis G., Teaneck, N. J., assignor to John B. Pierce Foundation, New York, N. Y. Electricity conductor unit with fixed socket-end conductors. 2,314,727; Mar. 23.
Morton, Henry E., Muskegon Heights, Mich. Welding and flash removing machine. 2,314,656; Mar. 23.
Moulton, Harold R., assignor to American Optical Company, Southbridge, Mass. Heat retarding device. 2,314,363; Mar. 23
Muldoon, John J. Roseville, assignor to Ternstedt Manufacturing Company, Detroit, Mich. Door-hold-open device. 2,314,416; Mar. 23.
Murphy, Howard J., Greenwood, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Lock nut device. 2,314,728; Mar. 23.
Murray Deodorizers Limited. (See Murray, Henry L., assignor.)
Murray, Henry L., Parnell, Auckland, assignor to Murray Deodorizers Limited, Auckland, New Zealand. Apparatus for pasteurizing and/or deodorizing and cooling lacteal liquids under vacuum. 2,314,455; Mar. 23.
Mursch, William H., Crafton, Pa., assignor to Carnegie-Illinois Steel Corporation. Open hearth charging device. 2,314,729; Mar. 23.
Musher Foundation, Incorporated. (See Musher, Sidney, assignor.)
Musher, Sidney, assignor to Musher Foundation, Incorporated, New York, N. Y. Oil and stabilizing same. 2,314,364; Mar. 23.
Musher, Sidney, assignor to Musher Foundation, Incorporated, New York, N. Y. Stabilizing glyceride oils. 2,314,365; Mar. 23.
Muskin Shoe Company, The. (See Rubin, A., and Faber, assignors.)
Nadell, Jerome S., Birmingham, Mich. Structural fabric. 2,314,456; Mar. 23.
National Blank Book Company. (See Schade, Frank S., assignor.)
National Blank Book Company. (See Schade, John, assignor.)
National Folding Box Company. (See Ringler, William A., assignor.)
Neal, Robert, Dalton, Ga. Picture frame. 2,314,417; Mar. 23.
Neiman, Robert, assignor to E. A. Steinbock, Louisville, Ky. Investment. 2,314,626; Mar. 23.
Neracher, Carl A., and W. T. Dunn, Detroit, assignors to Chrysler Corporation, Highland Park, Mich. Power transmission. 2,314,594; Mar. 23.
Neuby, Errett, et al., trustee. (See Odor, Ralph K., assignor.)
Neunherz, Herbert W., Gardner, Mass. Hardware. 2,314,418; Mar. 23.
New Process Screw Corporation. (See De Vellier, William A., assignor.)

New York Pressing Iron Company. (See Hoch, Walter A., assignor.)
Nickelsen, John M. (See McIntyre, W. D., Nickelsen and Read.)
Nicol, John, assignor to Divco-Twin Truck Company, Detroit, Mich. Vehicle control mechanism. 2,314,730; Mar. 23.
Norris, Rollin H., Schenectady, N. Y., assignor to General Electric Company. Refrigerator. 2,314,657; Mar. 23.
Northern Equipment Company. (See Veenschoten, Vincent V., assignor.)
Northrop Aircraft, Inc. (See Pavlecka, Vladimir H., assignor.)
Nyhagen, Barney R., Bronx, N. Y. Manually operated dry shaver. 2,314,731; Mar. 23.
Odor, Ralph K., Edmond, assignor to J. H. Everest, E. Neuby, M. W. McKenzie, W. H. Odor, R. K. Odor, H. B. Crawford, Oklahoma County, Okla., and K. Dodge, Philadelphia, Pa., Trustees. Machine for manufacturing fabricated metallic structures. 2,314,510; Mar. 23.
Odor, William H., et al. (See Odor, Ralph K., assignor.)
Ohls, Robert L., assignor to Reed Roller Bit Company, Houston, Tex. Valve. 2,314,732; Mar. 23.
Olaer Patent Company. (See Lénin, Georges, assignor.)
Olman, Pete M., Los Angeles, Calif., assignor of one-half to J. L. Lesser. Automobile service tray. 2,314,550; Mar. 23.
Olsen, Fredrich, assignor to The Cellulose Research Corporation, East Alton, Ill. Preparing wood pulp. 2,314,658; Mar. 23.
Olson, Carl G., assignor to Illinois Tool Works, Chicago, Ill. Lock nut. 2,314,509; Mar. 23.
Olson, Stanley C., La Crosse, Wis. Vehicle. 2,314,419; Mar. 23.
Olson, Wilbur K., assignor to W. A. Sheaffer Pen Company, Fort Madison, Iowa. Fountain pen. 2,314,551; Mar. 23.
Ormsby, Donald D., assignor to Clark Equipment Company, Buchanan, Mich. Motor vehicle. 2,314,511; Mar. 23.
Orr, Donald J., Arnolds Park, Iowa. Scale structure for vehicles. 2,314,552; Mar. 23.
Orth, Richard, assignor to Gill Glass & Fixture Company, Philadelphia, Pa. Fluorescent lighting equipment. 2,314,420; Mar. 23.
Owen, Frank M., Oklahoma City, Okla. Automatic cathead. 2,314,733; Mar. 23.
Owens-Corning Fiberglas Corporation. (See Tucker, J. L., and Lannan, assignors.)
Owens, Robert E. (See Du Vall, Emile M., assignor.)
Pacific Clay Products Company. (See Wind, Fred V., assignor.)
Package Machinery Company. (See Clark, F. R., and A'Antonio, assignors.)
Package Machinery Company. (See Lyon, Norman W., assignor.)
Page, Arthur A., Red Wing, Minn., assignor, by mesne assignments, to Albert M. Marshall, Kansas City, Mo. Rotary sewage distributor. 2,314,423; Mar. 23.
Paget, Win W., Michigan City, Ind., assignor to Sullivan Machinery Company. Drilling apparatus. 2,314,366; Mar 23.
Palm, George H., assignor to Stewart-Warner Corporation, Chicago, Ill. Control valve. 2,314,553; Mar. 23.
Panissidi, Hugo. (See Bailey, W. J. A., and Panissidi.)
Parker, Arthur L., Cleveland, Ohio. Valve assembly for fuel systems. 2,314,512; Mar. 23.
Parker Rust Proof Company. (See Thompson, John S., assignor.)
Parry, Frank, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Rotary take-up for sewing machines. 2,314,513; Mar. 23.
Parsons, Alfred H., San Francisco, Calif. Tonometer. 2,314,514; Mar. 23.
Patterson, Edgar W., Long Beach, Calif. Gear unit. 2,314,595; Mar. 23.
Patterson, Thomas K. (See Cortella, Alphonse, assignor.)
Pavlecka, Vladimir H., Pacific Palisades, assignor to Northrop Aircraft, Inc., Hawthorne, Calif. Electric arc welding torch. 2,314,628; Mar. 23.
Pearson, Paul E., Chicago, Ill., assignor to Continental Can Company, New York, N. Y. Scroll strip forming apparatus. 2,314,367; Mar. 23.
Pearson, Paul E., Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Apparatus for internally coating containers. 2,314,515; Mar. 23.
Pellegrin, Elmer D., and H. H. Ring, assignors to Geo. D. Roper Corporation, Rockford, Ill. Handle construction and mounting therefor. 2,314,596; Mar. 23.
Penn Electric Switch Co. (See Shaw, Burton E., assignor.)
Pennington, Gordon R., Birmingham, assignor to Chrysler Corporation, Highland Park, Mich. Power transmission and control means therefor. 2,314,554; Mar. 23.
Pennsylvania Manufacturing Company. (See Gade, Harald F., assignor.)
Pennzoil Company, The. (See Johnson, Evert F., assignor.)
Peterman, Earl B., Canfield, Ohio. Shaper. 2,314,660; Mar. 23.
Peterson, Arnold E., Burbank, Calif. Folding pushcart for babies. 2,314,659; Mar. 23.
Peterson, Arthur S., Marseille, Ill., assignor to Certain-Teed Products Corporation, New York, N. Y. Control apparatus. 2,314,421; Mar. 23.
Peterson, Thomas F., Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey. Composite electric conductor strand. 2,314,798; Mar. 23.
Pflager, Harry M. (See Adams, E. G., and Pflager.)
Phelan, Louis A. M., Rockton, Ill. Insulated freezer shell and transmission. 2,314,598; Mar. 23.
Phelan, Stephen R., Memphis, Tenn. Making geophysical surveys. 2,314,597; Mar. 23.
Phelps, Walter A., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Carrier wave production and control. 2,314,422; Mar. 23.
Phillips, Harry A., Chicago, Ill. Oil separator for refrigeration systems. 2,314,516; Mar. 23.
Phillips Petroleum Company. (See Frey, Frederick E., assignor.)
Phillips Petroleum Company. (See Garretson, Owen L., assignor.)
Phillips Petroleum Company. (See Huntington, Richard L., assignor.)
Phillips Petroleum Company. (See Kelly, Harold S., assignor.)
Phillips Petroleum Company. (See Kitsman, William L., assignor.)
Phillips Screw Company. (See Blair, Walter, assignor.)
Pickering Governor Company, The. (See Crafts, I. M., and Taylor, assignors.)
Pickley, Leonard B., assignor to Walt Disney Productions, Los Angeles, Calif. Creating illusions. 2,314,629; Mar. 23.
Pierce, John B., Foundation. (See Morten, Louis G., assignor.)
Piker, Herbert M., assignor to The Hamilton Metal Products Company, Hamilton, Ohio. Carrying means. 2,314,799; Mar. 23.
Pilon, Catherine, administratrix. (See Berners, Edward C.)
Pineo, Orrin W., Milo, Maine, assignor, by mesne assignments, to American Cyanamid Company, New York, N. Y. Infrared spectrophotometer. 2,314,800; Mar. 23.
Pinney, H. H. (See Smith, Lewis H., assignor.)
Pioneer Parachute Company. (See Smith, Floyd, assignor.)
Polzer, Fridolin, assignor to The E. H. Hotchkiss Company, Norwalk, Conn. Fastener driving machine. 2,314,847; Mar. 23.
Polzer, Fridolin, assignor to The E. H. Hotchkiss Company, Norwalk, Conn. Fastener driving machine. 2,314,848; Mar. 23.
Portnow, Michael P., Newark, N. J. Headlight and parts thereof. 2,314,735; Mar. 23.
Poupitch, Ouglјesa J., assignor to Illinois Tool Works, Chicago, Ill. Fastener device. 2,314,368; Mar. 23.
Preuss, John, Memphis, Tenn. Tanker. 2,314,555; Mar. 23.
Ptasnik, Kelman J., New York, N. Y. Portable cigarette making machine. 2,314,734; Mar. 23.
Pucci, John G., Westerly, R. I. Illuminatable vanity case and like container. 2,314,517; Mar. 23.
Rabezzana, Hector, Flint, assignor to General Motors Corporation, Detroit, Mich. Plug supporting member for spark plug cleaners. 2,314,556; Mar. 23.
Raddon, Winfield F. (See Kelly, R. A., and Raddon.)
Radio Corporation of America. (See Alburger, James R., assignor.)
Radio Corporation of America. (See Batsel, Cecil N., assignor.)
Radio Corporation of America. (See Batsel, Max C., assignor.)
Radio Corporation of America. (See Bond, Donald S., assignor.)
Radio Corporation of America. (See Brown, George H., assignor.)
Radio Corporation of America. (See Dimmick, Glenn L., assignor.)
Radio Corporation of America. (See Hale, Danforth R., assignor.)
Radio Corporation of America. (See Katzin, Martin, assignor.)
Radio Corporation of America. (See Kellogg, Edward W., assignor.)
Radio Corporation of America. (See Linder, Ernest G., assignor.)
Radio Corporation of America. (See Luck, David G. C., assignor.)
Rastetter, Louis C., et al. (See White, William T., assignor.)
Rastetter, William C., Jr., et al. (See White, William T., assignor.)
Ratigan, James P., Los Angeles, Calif. Wire line grip. 2,314,630; Mar. 23.
Rauschenberg, Gerhardt H. (See Bradwell, Robert H., assignor.)
Rawlins, Herbert L., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit interrupter. 2,314,661; Mar. 23.

Ray, Don, Beverly Hills, assignor to Arden Farms Co., Los Angeles, Calif. Container. 2,314,631; Mar. 23.
Ray, William A., Glendale, Calif. Thermostat. 2,314,599; Mar. 23.
Read, Charles E. (See McIntyre, W. D., Nickelsen, and Read.)
Rear, James C., Berkeley, assignor to The Union Ice Company, San Francisco, Calif. Refrigerated dispenser. 2,314,632; Mar. 23.
Reed Roller Bit Company. (See Hoffoss, John E., assignor.)
Reed Roller Bit Company. (See Ohls, Robert L., assignor.)
Reed, Thomas F., Dormont, Pa., assignor to United States Steel Corporation of Delaware. Continuous steel strip pickling. 2,314,369; Mar. 23.
Research Corporation. (See Buchman, Edwin R., assignor.)
Reyburn, John R., Fairfield, Conn., assignor to American Chain & Cable Company, Inc. Vehicle bumper construction. 2,314,600; Mar. 23.
Reynolds Research Corporation. (See Mack, E. L., and Morse, assignors.)
Richard, Charles D. (See Robert, J. G., and Richard.)
Riedi, Arnold T., Dubuque, Iowa. Fish net mounting. 2,314,633; Mar. 23.
Rietzke, August, Gordons Corners, assignor, by mesne assignments, to Bow Arch Corporation, Mercer County, N. J. Marine propulsion. 2,314,370; Mar. 23.
Riley Stoker Corporation. (See Craig, Ollison, assignor.)
Ring, Harold H. (See Pellegrin, E. D., and Ring.)
Ringler, William A., Wayne, Pa., assignor to National Folding Box Company, New Haven, Conn. Tray display and container. 2,314,424; Mar. 23.
Ritchie, John R., Minneapolis, Minn. Road roller structure. 2,314,601; Mar. 23.
Roberts, John G., Dobbs Ferry, and C. D. Richard, West New Brighton, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone call transmitter. 2,314,801; Mar. 23.
Robinson, David M., assignor to The Stanley Works, New Britain, Conn. Swing-up door counterbalancing means. 2,314,634; Mar. 23.
Roetheli, Bruno E., and M. E. Conn, Baton Rouge, La., assignors to Standard Oil Development Company. Producing dimers of olefins. 2,314,457; Mar. 23.
Romine, Hugh E. (See Cook, W. O., and Romine.)
Roper, Geo. D., Corporation. (See Pellegrin, E. D., and Ring, assignors.)
Rosenfeld, Morris W., Brookline, assignor to American Sales Company, Boston, Mass. Phonograph record holder. 2,314,557; Mar. 23.
Rubin, Abraham, Harrisburg, and G. A. Faber, Millersburg, Pa., assignors to The Muskin Shoe Company, Baltimore, Md. Shoe manufacture. 2,314,425; Mar. 23.
Russel, Philip S., assignor to Detroit Lubricator Company, Detroit, Mich. Apparatus for and method of air conditioning. 2,314,558; Mar. 23.
Sabol, Ernest J., Pittsburgh, assignor, by mesne assignments, to A. G. Wilson, J. R. Wilson and T. F. Wilson, Wilkinsburg, Pa., co-partners trading as Hanlon & Wilson Company. Rail bond terminal. 2,314,736; Mar. 23.
Sabol, Ernest J., Pittsburgh, assignor, by mesne assignments, to A. G., J. R., and T. F. Wilson, Wilkinsburg, Pa., co-partners trading as Hanlon & Wilson Company. Rail bond terminal. 2,314,737; Mar. 23.
Sagamor Metal Goods Corporation. (See Landwehr, Richard F., assignor.)
Salzburg, August A., assignor to Dryfood Ltd., London, England. Dry starch product. 2,314,459; Mar. 23.
Sandalls, George, Jr., North Tarrytown, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 2,314,518; Mar. 23.
Savage Arms Corporation. (See Dickerman, Hubert E., assignor.)
Schaad, Raymond E., assignor to Universal Oil Products Company, Chicago, Ill. Treatment of hydrocarbons. 2,314,460; Mar. 23.
Schade, Frank S., assignor to National Blank Book Company, Holyoke, Mass. Post binder. 2,314,427; Mar. 23.
Schade, John, assignor to National Blank Book Company, Holyoke, Mass. Single ring toggle unit for ring binders. 2,314,426; Mar. 23.
Schaefer, Edward E., Oak Park, Ill. Venetian blind. 2,314,461; Mar. 23.
Scharpenberg, Charles C., Bakersfield, assignor to Consoco Incorporated, Los Angeles, Calif. Torque control in rotary well drilling. 2,314,560; Mar. 23.
Schedin, Frances, administrator. (See Schedin, Nels.)
Schedin, Nels, Milaca, Minn., F. Schedin, administrator of said N. Schedin, deceased. Sand eliminator. 2,314,662; Mar. 23.
Schenk, Eduard, Oakdale, Pa. Electric welding. 2,314,738; Mar. 23.
Schilling, Robert, assignor to General Motors Corporation, Detroit, Mich. Headlight tester. 2,314,559; Mar. 23.
Schlage Lock Company. (See Schlage, Walter R., assignor.)
Schlage, Walter R., Burlingame, assignor to Schlage Lock Comoany, San Francisco, Calif. Door lock. 2,314,462; Mar. 23.
Schmid, Julius, Inc. (See Kurkjian, Yervant H., assignor.)
Schmidt, Willi. (See Manchen, F., and Schmidt.)
Schouten, Cornelis, Delft, Netherlands; vested in the Alien Property Custodian. Jig for treating ore-bearing and like materials. 2,314,428; Mar. 23.
Schuetz, Clyde C., Mount Prospect, Ill., assignor to Keasbey & Mattison Company, Ambler, Pa. Decorative slab. 2,314,856; Mar. 23.
Schultz Engineering Corporation. (See Schultz, R. H., and Siebert, assignors.)
Schultz, Rudolph H., and A. J. Siebert, assignors to Schultz Engineering Corporation, Brooklyn, N. Y. Adhesive applying attachment. 2,314,519; Mar. 23.
Schumaker, William L., Milwaukee, Wis. Lighting fixture. 2,314,520; Mar. 23.
Schwartz, George S., Brownwood, Tex. Illuminated artificial bait holder. 2,314,521; Mar. 23.
Schwebs, Robert K., Hortonville, Wis. Refrigerator car. 2,314,463; Mar. 23.
Seaman, Otto J. L., Encino, Calif. Producing composite photographs. 2,314,663; Mar. 23.
Seamless Rubber Company, The. (See Madsen, Paul S., assignor.)
Sefton Fibre Can Company. (See Graves, C. B., and Busch, assignors.)
Seil, Gilbert E., Cynwyd, Pa. Rotary kiln. 2,314,836; Mar. 23.
Seldomridge, Lonnie A., Long Beach, Calif. Rake. 2,314,635; Mar. 23.
Serniuk, George E. (See Holtzclaw, J. B., and Serniuk.)
Sette, Frederick E., Scott Bar, Calif. Handle structure. 2,314,522; Mar. 23.
Shaw, Burton E., Bristol, assignor to Penn Electric Switch Co., Goshen, Ind. Line starter switch. 2,314,464; Mar. 23.
Shaw, Burton E., Bristol, assignor to Penn Electric Switch Co., Goshen, Ind. Switch. 2,314,465; Mar. 23.
Sheaffer, Walter A., assignor to W. A. Sheaffer Pen Company, Fort Madison, Iowa. Pour-out closure. 2,314,562; Mar. 23.
Sheaffer, W. A., Pen Company. (See Olson, Wilbur K., assignor.)
Sheaffer, W. A., Pen Company. (See Sheaffer, Walter A., assignor.)
Shaeffer, W. A., Pen Company. (See Stempel, H. K., and Freeman, assignors.)
Sheets, Herman E. (See Chitz, Herman E.)
Sheldrick, Laurence S. (See Sorensen, C. E., and Sheldrick.)
Shenstone, Osborn H., assignor to Massey-Harris Company Ltd., Toronto, Ontario, Canada. Transmission mechanism. 2,314,664; Mar. 23.
Sherherd, William G., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrical circuit employing grid-controlled gas discharge tubes. 2,314,739; Mar. 23.
Sherman, J. Q., deceased, Dayton, Ohio, K. M. Sherman, W. C. Sherman, and W. B. Turner, Dayton, Ohio, executors and A. W. Metzner, Dayton, Ohio; said Metzner assignor to said K. M. Sherman, W. C. Sherman and W. B. Turner, executors of said J. Q. Sherman, deceased. Recording apparatus. 2,314,371; Mar. 23.
Sherman, Katherine M., et al., executors. (See Sherman, John W.)
Sherman, Stuart H., La Grange, and R. J. Clarkson, Hogansville, Ga., assignors to United States Rubber Company, New York, N. Y. Ring traveler. 2,314,740; Mar. 23.
Sherman, William C., et al., executors. (See Sherman, John Q.)
Siebert, Adam J. (See Schultz, R. H., and Siebert.)
Sigler, Laurence M., St. Louis, Mo., assignor of one-third to K. B. Gill and one-third to J. C. Gill, San Francisco, Calif. Machine for opening eggs and separating the contents. 2,314,741; Mar. 23.
Simpson, Albert H. (See Allan, G. W., and Simpson.)
Simpson, Emory G., assignor to Ternstedt Manufacturing Company, Detroit, Mich. Releasable window regulator clutch. 2,314,429; Mar. 23.
Simpson, Herbert S. (See Dvorak, James J., assignor.)
Singer Manufacturing Company, The. (See Parry, Frank, assignor.)
Skerritt, Roy P., Detroit, Mich. Gravity feed control device. 2,314,802; Mar. 23.
Skowronski, Felix J., Colonia, N. J., assignor of one-half to The Winkler-Koch Patent Company, Wichita, Kans. Cracking process. 2,314,561; Mar. 23.
Slabkowicz, Louis L., assignor, by mesne assignments, to The Regents of the University of Michigan, Ann Arbor, Mich. Transferring heat by a heat exchange liquid. 2,314,636; Mar. 23.
Smith, Floyd, assignor to Pioneer Parachute Company, Inc., Manchester, Conn. Parachute harness. 2,314,602; Mar. 23.
Smith, Harry W., Worcester, Mass. Dip stick. 2,314,430; Mar. 23.
Smith, Lewis H., Cleveland, assignor to H. H. Pinney, Shaker Heights, Ohio. Circulating unit. 2,314,667; Mar. 23.
Snap-On Tools Corporation. (See Larson, K. R., and Walraven, assignors.)
Snyder, William E. (See Hedeman, W. N., and Snyder.)
Socony-Vacuum Oil Company. (See Francis, Alfred W., assignor.)

Sorensen, Charles E., Detroit, and L. S. Sheldrick, assignors to Ford Motor Company, Dearborn, Mich. Vehicle frame. 2,314,603; Mar. 23.
Spaulding, William H. (See Dittus, F. W., Bertoglio, and Spaulding.)
Specht, Herman C., Houston, Tex. Tool holder. 2,314,665; Mar. 23.
Speer, Alexander S., Buffalo, N. Y. Wallboard joint structure. 2,314,523; Mar. 23.
Spence Engineering Company. (See Spence, Paulsen, assignor.)
Spence, Paulson, East Orange, N. J., assignor to Spence Engineering Company, Inc., Walden, N. Y. Cooling system. 2,314,524; Mar. 23.
Sperry Gyroscope Company. (See Carter, Leslie F., assignor.)
Spilhaus, Athelstan F., University Heights, N. Y., assignor to Submarine Signal Company, Boston, Mass. Sea sampler. 2,314,372; Mar. 23.
Spotnails, Inc. (See Crooks, Charles E., assignor.)
Stahly, Eldon E., and F. B. Johnson, Baton Rouge, La., assignor to Standard Oil Development Company. Polymerizing olefins. 2,314,458; Mar. 23.
Standard Oil Company, The. (See Tighe, William P., assignor.)
Standard Oil Company of California. (See Dittus, F. W., Bertoglio, and Spaulding, assignors.)
Standard Oil Development Company. (See Cook, George B., assignor.)
Standard Oil Development Company. (See Ferguson, Robert P., assignor.)
Standard Oil Development Company. (See Holtzclaw, J. B., and Serniuk, assignors.)
Standard Oil Development Company. (See Roethell, B. E., and Conn, assignors.)
Standard Oil Development Company. (See Stahley, E. E., and Johnson, assignors.)
Stanley Works, The. (See Curtiss, George E., Jr., assignor.)
Stanley Works, The. (See Robinson, David M., assignor.)
Start, Ernest. (See Start, Harry W., and Ernest.)
Start, Harry W., Carlton, and E. Start, Wilford, England. Straight-bar knitting machine. 2,314,742; Mar. 23.
Steinbock, Edmund A. (See Neiman, Robert, assignor.)
Stempel, Herman K., and R. E. Freeman, assignors to W. A. Sheaffer Pen Company, Fort Madison, Iowa. Fountain pen. 2,314,563; Mar. 23.
Stewart-Warner Corporation. (See Christensen, O. Neil, assignor.)
Stewart-Warner Corporation. (See Palm, George H., assignor.)
Stickel, Charles W. (See Tuttle, W. R., and Stickel.)
Stoddard, Edgar S., Berwyn, assignor to Edison General Electric Appliance Company, Inc., Chicago, Ill. Washing apparatus. 2,314,666; Mar. 23.
Stoddard, Ralph N. (See Dawson, J. W., and Stoddard.)
Straits, Lloyd A., United States Navy. Buckle. 2,314,373; Mar. 23.
Straits, Lloyd A., United States Navy. Buckle. 2,314,859; Mar. 23.
Strike, George N., Los Angeles, Calif. Cooling delivery machine. 2,314,431; Mar. 23.
Submarine Signal Company. (See Spilhaus, Athelstan F., assignor.)
Sullivan Machinery Company. (See Paget, Win W., assignor.)
Sullivan, Owen J., Appleton, and R. T. Frieders, Menasha, assignors to Marathon Paper Mills Company, Rothschild, Wis. Dispensing carton. 2,314,849; Mar. 23.
Summers, Bert E., assignor of one-half to D. Da Volt, Denver, Colo. Garden hose sprinkler. 2,314,525; Mar. 23.
Sundholm, Edwin P., Albert City, Iowa. Coupler. 2,314,374; Mar. 23.
Sunseri, Marguerite H., Pittsburgh, Pa. Child's garment. 2,314,432; Mar. 23.
Surgident, Ltd. (See van Rossem, Walter J., assignor.)
Sylvander, Paul W. (See Johns, Thomas H., assignor.)
Sylvania Electric Products. (See McCarthy, Henry J., assignor.)
Talbot, Evariste E., Fall River, Mass. Shuttle. 2,314,668; Mar. 23.
Talbot, Evariste E., Fall River, Mass. Shuttle. 2,314,669; Mar. 23.
Tancred, William L., assignor to Veeder-Root Incorporated, Hartford, Conn. Register. 2,314,637; Mar. 23.
Tandler, William S., and W. Teller, New York, and D. S. Walker, Bronx, assignors to Lefier Corporation, New York, N. Y. Lace curtain machine. 2,314,526; Mar. 23.
Tauty, Rene, Clichy, France; vested in the Alien Property Custodian. Device for airchutes. 2,314,433; Mar. 23.
Taylor, Charles B. (See Crafts, I. M., and Taylor.)
Taylor, Hardon F., assignor to The Atlantic Coast Fisheries Company, New York, N. Y. Making sealed capsules. 2,314,527; Mar. 23.
Teller, William. (See Tandler, W. S., Teller and Walker.)
Temple, Robert, Swissvale, Pa., assignor, by mesne assignments, to Temple Velocity Equipment, Inc., Denver, Colo. Underwater cable cutter. 2,314,528; Mar. 23.
Temple Velocity Equipment, Inc. (See Temple, Robert, assignor.)
Ternstedt Manufacturing Company. (See Jackson, J. W., and Dean, assignors.)
Ternstedt Manufacturing Company. (See Muldoon, John J., assignor.)
Ternstedt Manufacturing Company. (See Simpson, Emory G., assignor.)
Testi, Nicholas, assignor to Gillette Safety Razor Company, Boston, Mass. Safety razor. 2,314,564; Mar. 23.
Texas Company, The. (See Thurston, Robert R., assignor.)
Thege, Edvin O. P., assignor to Aktiebolaget Atlas Diesel, Stockholm, Sweden. Internal combustion engine. 2,314,670; Mar. 23.
Thompson, John S., assignor to Parker Rust Proof Company, Detroit, Mich. Coated ferrous article and making the same. 2,314,565; Mar. 23.
Thurston, Robert R., Chappaqua, assignor, by mesne assignments, to The Texas Company, New York, N. Y. Making roofing products. 2,314,529; Mar. 23.
Thwaites, Herman L., Clark Township, Union County, N. J., assignor, by mesne assignments, to Jasco, Incorporated. Inhibitor for chemical deterioration. 2,314,466; Mar. 23.
Tighe, William P., Cleveland Heights, assignor to The Standard Oil Company, Cleveland, Ohio. Antiwelding lubricant preparation. 2,314,530; Mar. 23.
Timken-Detroit Axle Company, The. (See Keese, Beverly W., assignor.)
Timken Roller Bearing Company, The. (See Klamp, Paul, assignor.)
Toelke, August F., Velda Village, R. Gehne, Pine Lawn, and P. J. Wenta, Brentwood, assignors to Jackes-Evans Manufacturing Company, St. Louis, Mo. Packaging apparatus. 2,314,434; Mar. 23.
Tolbert, William P., assignor to Anthes Force Oiler Company, Fort Madison, Iowa. Reflector. 2,314,566; Mar. 23.
Treshow, Michael. (See West, C. T., and Treshow.)
Troutman, Mona G. (See Kirsten, Kurt F. J., assignor.)
Tubbs, Orville, Chicago, Ill. Dipping equipment. 2,314,467; Mar. 23.
Tucker, Jesse L., and G. M. Lannan, Newark, assignors, by mesne assignments, to Owens-Corning Fiberglas Corporation, Toledo, Ohio. Apparatus for manufacturing slivers. 2,314,857; Mar. 23.
Tummins, Samuel H., Houston, Tex. Wallboard fastener. 2,314,638; Mar. 23.
Turner, Wellmore B., executor et al. (See Sherman, John Q.)
Tuttle, William R., and C. W. Stickel, assignors to The Kurlash Company, Inc., Rochester, N. Y. Eyelash curler. 2,314,375; Mar. 23.
Tuttle, William R., and C. W. Stickel, assignors to The Kurlash Company, Inc., Rochester, N. Y. Eyelash curler. 2,314,376; Mar. 23.
Twinkle Toes, Inc. (See Masterson, John F., assignor.)
Ufer, Hanns. (See v. Bock, B., Ufer, and Kleiner.)
Union Asbestos & Rubber Company. (See Lundvall, John S., assignor.)
Union Ice Company, The. (See Rear, James C., assignor.)
United-Carr Fastener Corporation. (See Bedford, William A., Jr., assignor.)
United-Carr Fastener Corporation. (See Cogswell, Elliot P., assignor.)
United-Carr Fastener Corporation. (See Murphy, Howard J., assignor.)
United-Carr Fastener Corporation. (See Woodward, Clement A., assignor.)
United Gas Improvement Company, The. (See Ault, Waldo C., assignor.)
United Shoe Machinery Corporation. (See Anderson, Ivan C., assignor.)
United Shoe Machinery Corporation. (See Haas, Otto R., assignor.)
United States Rubber Company. (See Bull, A. W., and Havens, assignors.)
United States Rubber Company. (See Moore, O. B., Havens, and Wikle, assignors.)
United States Rubber Company. (See Sherman, S. H., and Clarkson, assignors.)
United States Steel Corporation of Delaware. (See Reed, Thomas F., assignor.)
Universal Oil Products Company. (See Allender, Samuel S., assignor.)
Universal Oil Products Company. (See Chenicek, Joseph A., assignor.)
Universal Oil Products Company. (See Schaad, Raymond E., assignor.)
University of Michigan, Regents of the. (See Slabkowicz, Louis L., assignor.)
Urschel, William E., Valparaiso, Ind. Molding and depositing machine for solidifiable plastic materials. 2,314,468; Mar. 23.
V. Bock, Bernd, and H. Ufer, Ludwigshafen-on-the-Rhine, and H. Kleiner, Cologne-Mulheim, Germany, assignors to General Aniline & Film Corporation. Azo dyestuffs and coloring therewith. 2,314,440; Mar. 23.
Van der Horst Corporation of America. (See Ven der Horst, Henderik, assignor.)

Van der Horst, Henderik, Hilversum, Netherlands, assignor, by mesne assignments, to Van der Horst Corporation of America. Producing chromium wearing surfaces. 2,314,604; Mar. 23.
Van Rossem, Walter J., assignor to Surgident, Ltd., Los Angeles, Calif. Molding flask. 2,314,377; Mar. 23.
Van Rossem, Walter J., assignor to Surgident, Ltd., Los Angeles, Calif. Molding method. 2,314,378; Mar. 23.
Vecchio, Luigi, Syracuse, N. Y. Electrical appliance plug. 2,314,671; Mar. 23.
Veeder-Root Incorporated. (See Tancred, William L., assignor.)
Veenschoten, Vincent V., assignor to Northern Equipment Company, Erie, Pa. Feed water regulator. 2,314,672; Mar. 23.
Vogel, Joseph A., Wilmington, Del. Tree removing and supporting apparatus. 2,314,567; Mar. 23.
Wachter, Lester W., assignor to Anthony Company, Streator, Ill. Tipping mechanism. 2,314,531; Mar. 23.
Wagner, Chester I., Brooklyn, N. Y. Paper fastener. 2,314,532; Mar. 23.
Wagner, Erwin, Berwyn, W. S. Wagner and R. J. Jordan, assignors to Wagner Sign Service, Incorporated, Chicago, Ill. Sign element and mounting the same. 2,314,803; Mar. 23.
Wagner Sign Service, Incorporated. (See Wagner, Erwin and W. S., and Jordan, assignors.)
Wagner, Walter S. (See Wagner, Erwin and W. S., and Jordan.)
Walker, David S. (See Tandler, L. S., Teller, and Walker.)
Walker, Elbra E., Hastings, Nebr. Harrow disk mounting. 2,314,469; Mar. 23.
Walker, Forrest A., Oak Park, assignor to Edison General Electric Appliance Company, Inc., Chicago, Ill. Washing apparatus. 2,314,673; Mar. 23.
Walker, Nelson. (See Eshbaugh, J. E., and Walker.)
Wallace, David A., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Lapping process. 2,314,533; Mar. 23.
Walraven, George M. (See Larson, K. R., and Walraven.)
Walters, Robert C., East St. Louis, Ill. Automatic punchboard. 2,314,743; Mar. 23.
Walton, Ulysses S., Memphis, Tenn. Denture. 2,314,674; Mar. 23.
Warren, Donald M., La Fayette, Ind. Toy figure. 2,314,744; Mar. 23.
Warren, Walter F., Hermosa Beach, Calif. Fastener. 2,314,470; Mar. 23.
Weaver, Glenn W. (See Barney, D. R., and Weaver.)
Wenta, Peter J. (See Toelke, A. F., Gehne, and Wenta.)
Wesley, Edward L. (See Wesley, Walter F., assignor.)
Wesley, Walter F., assignor, by mesne assignments, to E. L. Wesley, Minneapolis, Minn. Pump. 2,314,745; Mar. 23.
West, Carleton T., Tehachapi, and M. Treshow, West Los Angeles, Calif., assignors to Monolith Portland Cement Company. Cement sack. 2,314,639; Mar. 23.
Western Electric Company. (See Barney, D. R., and Weaver, assignors.)
Westinghouse Air Brake Company, The. (See Crittenden, Philip L., assignor.)
Westinghouse Air Brake Company, The. (See Hewitt, Ellis E., assignor.)
Westinghouse Air Brake Company, The. (See Kelley, Cecil S., assignor.)
Westinghouse Air Brake Company, The. (See McClure, Glenn T., assignor.)
Westinghouse Electric & Manufacturing Company. (See Dawson, J. W., and Stoddard, assignors.)
Westinghouse Electric & Manufacturing Company. (See Derr, Willard A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Dickinson, Robert C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Dodds, Clarence W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Rawlins, Herbert L., assignor.)
Wharam, John J., assignor to Ford Motor Company, Dearborn, Mich. Motor vehicle lock. 2,314,568; Mar. 23.
White, Lynt. (See Jones, B., Jr., White, Robert H., and Lynt.)
White, Mortimer A., Rochester, N. Y. Fishing rod holder. 2,314,747; Mar. 23.
White, Robert H. (See Jones, B., Jr., and White, Robert H. and L.)
White, Will T., and C. H. Zimmerman, Akron, Ohio, assignors to Dzus Fastener Co., Inc., Babylon, N. Y. Fastener assembly. 2,314,746; Mar. 23.
White, William T., assignor of one-third to W. C. Rastetter, Jr., and one-third to L. C. Rastetter, Fort Wayne, Ind. Clothes drying apparatus. 2,314,748; Mar. 23.
Wiggins, John H., Chicago, Ill. Floating tank roof seal. 2,314,805; Mar. 23.
Wikle, George F. (See Moore, O. B., Havens, and Wikle.)
Wilkins, Frederick J. (See Franklin, R. G., and Wilkins.)
Williams, Denis C. (See Hargrave, J. G., and Williams.)
Willner, Philipp, assignor to Phil Will's Die Cutting Corp., New York, N. Y. Spool, bobbin, or the like. 2,314,749; Mar. 23.
Will's, Phil, Die Cutting Corp. (See Willner, Philipp, assignor.)
Willson, Herbert S., assignor to Corning Glass Works, Corning, N. Y. Glass article. 2,314,804; Mar. 23.
Wilson, Asbury G., et al. (See Sabol, Ernest J., assignor.)
Wilson, John H., assignor to Automotive Sprinkler Company, North Platte, Nebr. Lawn sprinkler. 2,314,675; Mar. 23.
Wilson, John R., et al. (See Sabol, Ernest J., assignor.)
Wilson-Jones Company. (See Dawson, George H., assignor.)
Wilson, Ralph W., New York, N. Y. Dispensing closure for containers. 2,314,676; Mar. 23.
Wilson, Theodore F., et al. (See Sabol, Ernest J., assignor.)
Wind, Fred V., assignor to Pacific Clay Products Company, Los Angeles, Calif. Pottery setter. 2,314,534; Mar. 23.
Winkler-Koch Patent Company, The. (See Skowronski, Felix J., assignor.)
Winning, Clarence H. (See Kirst, W. E., and Winning.)
Winning, Clarence H., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Explosive composition. 2,314,806; Mar. 23.
Winning, Clarence H., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Explosive composition. 2,314,807; Mar. 23.
Winning, Clarence H., and R. J. Miller, Woodbury, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Explosive composition. 2,314,808; Mar. 23.
Winning, Clarence H., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Explosive composition. 2,314,809; Mar. 23.
Winning, Clarence H., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Explosive composition. 2,314,810; Mar. 23.
Winslow, Charles A., and L. L. Moore, assignors to Winslow Engineering Co., Oakland, Calif. Lubricant purifier. 2,314,640; Mar. 23.
Winslow Engineering Co. (See Winslow, C. A., and Moore, assignors.)
Wisconsin Motor Corporation. (See Malbrath, Arthur F., assignor.)
Wise, Ernest T. (See Cunningham, M. M., and Wise.)
Woelfel, Harold M., assignor to The Robert Mitchell Co. Limited, Montreal, Quebec, Canada. Air vent. 2,314,850; Mar. 23.
Wolf, Clayton S., New Haven, Conn., assignor, by mesne assignments, to American Cyanamid Company, New York, N. Y. Briquette carbonizing process using modified tar or pitch binders. 2,314,641; Mar. 23.
Woodings, Emanuel, Oakmont, assignor to Woodings-Verona Tool Works, Verona, Pa. Combined rail anchor and ballast tamper. 2,314,750; Mar. 23.
Woodings-Verona Tool Works. (See Woodings, Emanuel, assignor.)
Woodward, Clement A., Dedham, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Electrical connection. 2,314,751; Mar. 23.
Wooten, Leland A. (See Brown, J. R. C., Jr., and Wooten.)
Worcester, Charles B., Riverside, Calif. Portable photographing unit. 2,314,642; Mar. 23.
Worden, Edward M., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Cutting machine. 2,314,535; Mar. 23.
Wright, Sumner B., South Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Two-way television and speech television. 2,314,471; Mar. 23.
Wunderly, Charles X. (See Barlow, Joseph R., assignor.)
Yale & Towne Manufacturing Company, The. (See Fellows, Fred H., assignor.)
Young, Charles A. (See Lee, H. R., and Young.)
Young, Homer W., Springfield, Mo. Compensating typebar buffer for typewriters. 2,314,677; Mar. 23.
Young, Leonard A., Detroit, Mich. Garment hanger. 2,314,643; Mar. 23.
Yuba Manufacturing Company. (See Macaulay, Walter B., assignor.)
Zerweck, Werner, and W. Brunner, Frankfort-on-the-Main-Fechenheim, Germany, assignors to General Aniline & Film Corporation, New York, N. Y. Producing para-hydroxyarylsulphones. 2,314,379; Mar. 23.
Zimmermann, Charles H. (See White, W. T., and Zimmermann.)
Zint, George, Wapakoneta, Ohio. Bomb or similar device. 2,314,678; Mar. 23.
Zwack, Raymond T., East Orange, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind. Flowmeter. 2,314,752; Mar. 23.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 23D DAY OF MARCH, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Bag making machine and method. R. J. Gaubert. Re. 22,292; Mar. 23.
Bottle closure. J. W. Maussenet. Re. 22,294; Mar. 23.
Coffee brewer. P. F. Campbell. Re. 22,291; Mar. 23.
System for recording a plurality of measuring magnitudes. G. Keinath. Re. 22,293; Mar. 23.

LIST OF DESIGN INVENTIONS

Aircraft landing instrument indicator. F. A. Jenks, T. M. Ferrill, Jr., and D. F. Folland. 135,322; Mar. 23.
Bathtub. A. J. Hunting. 135,283; Mar. 23.
Bedspread. L. J. Freeman. 135,315; Mar. 23.
Box, Soap. M. J. Thomasson. 135,304; Mar. 23.
Brassière. E. Helier. 135,316; Mar. 23.
Bulb, Electric lamp. J. J. Devine. 135,299; Mar. 23.
Bottle. F. McIntosh. 135,293; Mar. 23.
Cap, Woman's. Y. M. Liberatore. 135,323; Mar. 23.
Carton. D. E. Ost. 135,294; Mar. 23.
Catapult. A. W. and H. M. Hutson. 135,284; Mar. 23.
Clip or the like, Charger. S. Giordano. 135,292; Mar. 23.
Curler or similar article, Hair. E. Reynolds. 135,302; Mar. 23.
Door or similar article, Automobile. P. J. Swofford. 135,325; Mar. 23.
Dress. B. Cashin. 135,326–7; Mar. 23.
Earring. M. C. Meyer. 135,318; Mar. 23.
Energizer for internal combustion engine starters, External. D. J. Conant. 135,306; Mar. 23.
Fabric, Knotted. L. Herszkowicz. 135,328; Mar. 23.
Fabric, Textile. J. Rubin. 135,319; Mar. 23.
Frame, Picture. H. E. Perkins. 135,288; Mar. 23.
Hat. Z. Harpignies. 135,321; Mar. 23.
Heater, Portable. J. H. Pearson. 135,324; Mar. 23.
Instrument, Navigational. T. C. Green. 135,282; Mar. 23.
Jar, Dessert. L. R. Sereno. 135,296; Mar. 23.
Motor, Outboard. K. C. Kiekhaefer. 135,329; Mar. 23
Octant. E. F. Flint. 135,314; Mar. 23.
Package for a slide fastener, Display. P. T. Poutinen. 135,276; Mar. 23.
Pin. F. H. Bercker. 135,305; Mar. 23.
Pin cushion. C. P. Englebardt. 135,280; Mar. 23.
Pin, Emblem. B. Felsenthal. 135,300; Mar. 23.
Pin, Jewelry. M. C. Meyer. 135,301; Mar. 23.
Pin or similar article. E. M. Kafka. 135,286; Mar. 23.
Pin or similar article, Jewelry. M. C. Meyer. 135,317; Mar. 23.
Plaque, Honor roll. P. G. Rosier. 135,289; Mar. 23.
Plaque, Victory. J. S. Jacobs. 135,285; Mar. 23.
Propeller, Swimming. H. L. Messinger. 135,331; Mar. 23.
Refrigerator. R. B. Janes. 135,274–5; Mar. 23.
Screen and seat, Combination fire. R. L. Cook. 135,298; Mar. 23.
Settee. F. Mastrangelo. 135,287; Mar. 23.
Shaker, Salt. W. L. Hickman. 135,273; Mar. 23.
Sign or the like. J. N. Baines. 135,279; Mar. 23.
Sign or the like, Advertising. M. M. Gair. 135,281; Mar. 23.
Signal lights staff. D. Conlan. 135,290; Mar. 23.
Speaker-microphone and control unit, Combined. C. W. Dann. 135,320; Mar. 23.
Stand, Glove display. A. L. Whisler. 135,277; Mar. 23.
Suit, Lady's. F. Land. 135,330; Mar. 23.
Supporter, Hose. L. Zavolner. 135,278; Mar. 23.
Telephone receiver, Auxiliary. L. S. Scher. 135,303; Mar. 23.
Toy. T. J. Parker. 135,295; Mar. 23.
Tray, Cigarette. M. J. Fletcher. 135,291; Mar. 23.
Tumbler or similar article, Glass. C. T. Sloan. 135,297; Mar. 23.
Vacuum tube. W. W. Eitel and J. A. McCullough. 135,307–13; Mar. 23.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 23D DAY OF MARCH, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrading tool. J. C. Garand. 2,314,348; Mar. 23.
Abrasive, Flexible sheeted. D. O. Guth. 2,314,349; Mar. 23.
Accounting apparatus. W. Leathers and A. Gold. 2,314,718; Mar. 23.
Acid by fermentation, Preparation of d-tartaric. J. Kamlet. 2,314,831; Mar. 23.
Adhesive applying attachment. R. H. Schultz and A. J. Seibert. 2,314,519; Mar. 23.
Air cleaner. G. N. Clark and E. R. Lasage. 2,314,573; Mar. 23.
Air conditioning and circulating apparatus. J. M. Funk. 2,314,696; Mar. 23.
Aliphatic peracids by oxidation of aldehydes, Preparation of. J. E. Bludworth. 2,314,385; Mar. 23.
Alternator control system. F. Jervis. 2,314,501; Mar. 23.
Anchor and ballast tamper, Combined rail. E. Woodings. 2,314,750; Mar. 23.
Annunciator. L. L. Kritz. 2,314,584; Mar. 23.
Antidetonant. A. B. Doran. 2,314,575; Mar. 23.
Apparatus for and method of air conditioning. P. S. Russel. 2,314,558; Mar. 23.
Apparatus for banding articles. T. S. Bauman. 2,314,474; Mar. 23.
Apparatus for cooling sand mullers. J. J. Dvorak. 2,314,486; Mar. 23.
Apparatus for indicating temperature of cutting tools. M. Asimow. 2,314,753; Mar. 23.
Apparatus for internally coating containers. P. E. Pearson. 2,314,515; Mar. 23.
Apparatus for manufacturing slivers. J. L. Tucker and G. M. Lannan. 2,314,857; Mar. 23.
Apparatus for measuring volume of bottom hole portion of well bores. R. L. Huntington. 2,314,540; Mar. 23.
Apparatus for pasteurizing and/or deodorizing and cooling lacteal liquids under vacuum. H. L. Murray. 2,314,455; Mar. 23.
Apparatus for reproducing three-dimensional patterns and the like. D. E. Howard. 2,314,499; Mar. 23.
Apparatus for separating materials. F. T. Kern. 2,314,542; Mar. 23.
Apparatus for treating tires. O. B. Moore, G. G. Havens, and G. F. Mikle. 2,314,726; Mar. 23.
Apparatus for washing articles. D. K. Ferris. 2,314,332; Mar. 23.
Apparatus useful for the manufacture of electric blasting caps. D. G. Ashcroft. 2,314,606; Mar. 23.
Appliance, Domestic. F. H. McCormick. 2,314,592; Mar. 23.
Appliance for motor vehicles. H. Brandt. 2,314,815; Mar. 23.
Applicator, Fluid control. E. L. Hollenbeck. 2,314,538–9; Mar. 23.
Artillery projectile bodies, Producing. D. J. Campbell. 2,314,342; Mar. 23.
Aryl-substituted phenols, Production of. W. C. Ault. 2,314,322; Mar. 23.
Ash-retaining cigarette holder. W. Lemle. 2,314,585; Mar. 23.
Asparagus top cutter. D. F. Beegle. 2,314,439; Mar. 23.
Asphalt finisher and spreader. W. H. Lewis. 2,314,358; Mar. 23.
Attaching device. E. P. Cogswell. 2,314,770; Mar. 23.
Automatic meter-reading apparatus. W. Leathers. 2,314,719–20; Mar. 23.
Automatic weighing machine. J. D. Merrifield. 2,314,654; Mar. 23.
Automobile service tray. P. M. Olman. 2,314,550; Mar. 23.
Awning hanger. L. E. Jefferson. 2,314,354; Mar. 23.
Azo dyestuffs and process for coloring therewith. B. v. Bock, H. Ufer, and H. Kleiner. 2,314,440; Mar. 23.
Bag: *See*—
Ice bag.
Bag holding device. J. J. Lammle. 2,314,410; Mar. 23.
Ball grip, Bowling. J. H. Akin. 2,314,811; Mar. 23.
Barbituric compounds and preparing these compounds, 5-ethyl-5-phenyl. H. R. Henze. 2,314,537; Mar. 23.
Batch charging apparatus for concrete mixers. C. I. Longenecker. 2,314,647; Mar. 23.
Battery charging system. W. L. Carlson. 2,314,687; Mar. 23.
Bead forming and printing device. Y. H. Kurkjian. 2,314,716; Mar. 23.
Bearing. H. A. S. Howarth. 2,314,703; Mar. 23.
Bearing mounting. P. Klamp. 2,314,622; Mar. 23.
Beater element for pulverizing apparatus. O. Craig. 2,314,689; Mar. 23.
Beet topper and digger. L. A. Beatty. 2,314,681; Mar. 23.
Binder, Post. F. S. Schade. 2,314,427; Mar. 23.
Biscuit and cooky cutter and ejector. F. A. Johnson. 2,314,401; Mar. 23.
Blind, Venetian. E. E. Schaefer. 2,314,461; Mar. 23.
Block: *See*—
Dual purpose traveling block.
Boiler: *See*—
Sectional boiler.
Bolt retainer, Gland. R. Fennema. 2,314,489; Mar. 23.
Bomb or similar device. G. Zint. 2,314,678; Mar. 23.
Box: *See*—
Lunch box.
Box installation, Outlet. J. G. Knight. 2,314,408; Mar. 23.
Brake: *See*—
Electromagnetic brake. Expander tube brake.
Brake for velocipedes, Backpedaling. S. B. Kurzina, Jr. 2,314,845; Mar. 23.
Brake means. G. T. McClure. 2,314,413; Mar. 23.
Briquette carbonizing process using modified tar or pitch binders. C. S. Wolf. 2,314,641; Mar. 23.
Broiler. T. Corra. 2,314,772; Mar. 23.
Bucket. T. H. Johns and P. W. Sylvander. 2,314,835; Mar. 23.
Bucket, Clamshell. E. L. Harrington. 2,314,395; Mar. 23.
Buckle. L. A. Straits. 2,314,373; Mar. 23.
Buckle. L. A. Straits. 2,314,859; Mar. 23.
Bumper construction, Vehicle. J. R. Reyburn. 2,314,600; Mar. 23.
Can: *See*—
Hermetically sealed can.
Can opener, Rotary type. R. E. McLean. 2,314,506; Mar. 23.
Can welding machine. J. L. Anderson. 2,314,437; Mar. 23.
Cap: *See*—
Gasoline tank sealing cap.
Capsules, Making sealed. H. F. Taylor. 2,314,527; Mar. 23.
Car: *See*—
Refrigerator car.
Carbon coated metals, Desulphurizing. J. R. C. Brown, Jr., and L. A. Wooten. 2,314,816; Mar. 23.
Carburetor. O. L. Garretson. 2,314,580; Mar. 23.
Card file holding and designating machine, Follow-up. E. F. Johnson. 2,314,705; Mar. 23.
Carrier wave production and control. W. A. Phelps. 2,314,422; Mar. 23.
Carrying case. R. F. Landwehr. 2,314,717; Mar. 23.
Carrying means. H. M. Piker. 2,314,799; Mar. 23.
Carton, Dispensing. O. J. Sullivan and R. T. Frieders. 2,314,849; Mar. 23.
Case: *See*—
Carrying case.
Cathead, Automatic. F. M. Owen. 2,314,733; Mar. 23.
Cement block molding machine. H. E. Dunn. 2,314,577; Mar. 23.
Cement sack. C. T. West and M. Treshow. 2,314,639; Mar. 23.
Chemical process. A. W. Francis. 2,314,333; Mar. 23.
Chromium wearing surfaces, Producing. H. Van der Horst. 2,314,604; Mar. 23.
Cigarette making machine, Portable. K. J. Ptasnik. 2,314,734; Mar. 23.
Cigarette, Self-igniting. A. D'Annunzio. 2,314,389; Mar. 23.
Circuit feedback amplifier. D. S. Bond. 2,314,813; Mar. 23.
Circuit interrupter. H. L. Rawlins. 2,314,661; Mar. 23.
Circulating unit. L. H. Smith. 2,314,667; Mar. 23.
Cleaner: *See*—
Air cleaner. Vacuum cleaner.
Suction cleaner.
Cleaning device. R. A. Kelly and W. F. Raddon. 2,314,711; Mar. 23.
Closure. A. C. Ewer. 2,314,819; Mar. 23.
Closure, Pour-out. W. A. Sheaffer. 2,314,562; Mar. 23.

Clothes drying apparatus. W. T. White. 2,314,748; Mar. 23.
Clutch: *See*—
Releasable window regulator clutch.
Clutch control mechanism. P. L. Crittenden. 2,314,444; Mar. 23.
Coated ferrous article and making the same. J. S. Thompson. 2,314,565; Mar. 23.
Coating and filming machine and apparatus. E. L. Mack and E. H. Morse. 2,314,453; Mar. 23.
Coatings, particularly asphaltic coatings and the like, Spraying. W. M. Ericson. 2,314,329; Mar. 23.
Coffee maker. J. L. Kopf. 2,314,543; Mar. 23.
Combination high and low pressure storage tank. G. B. Cook. 2,314,442; Mar. 23.
Color composition containing guanylurea, Stabilized ice. P. P. McClellan and W. P. Ericks. 2,314,652; Mar. 23.
Colostomy protector. E. P. Marsan. 2,314,724; Mar. 23.
Composite photographs, Producing. O. J. L. Seaman. 2,314,663; Mar. 23.
Compounds of the anthraquinone series. H. R. Lee and C. A. Young. 2,314,356; Mar. 23.
Connector: *See*—
Wire or rod connector.
Container: *See*—
Tray display and container.
Vanity case and like container.
Container. C. B. Graves and R. B. Busch. 2,314,338; Mar. 23.
Container. D. Ray. 2,314,631; Mar. 23.
Control apparatus. A. S. Peterson. 2,314,421; Mar. 23.
Control for trail builders. L. O. Bird and E. P. Drake. 2,314,475; Mar. 23.
Control system. W. A. Derr. 2,314,692; Mar. 23.
Control valve. G. H. Palm. 2,314,553; Mar. 23.
Cooling delivery machine. G. N. Strike. 2,314,431; Mar. 23.
Cooling system. P. Spence. 2,314,524; Mar. 23.
Coring apparatus. J. E. Hoffoss. 2,314,352; Mar. 23.
Coupler. E. P. Sundholm. 2,314,374; Mar. 23.
Course-indicating apparatus for vehicles. J. G. Hargrave and D. C. Williams. 2,314,497; Mar. 23.
Cover. A. L. Becket. 2,314,682; Mar. 23.
Cracking process. F. J. Skowronski. 2,314,561; Mar. 23.
Curler, Eyelash. W. R. Tuttle and C. W. Stickel. 2,314,375–6; Mar. 23.
Cushion structure. M. M. Cunningham and E. T. Wise. 2,314,608; Mar. 23.
Cutter: *See*—
Asparagus top cutter.
Weed cutter.
Underwater cable cutter.
Cutter head. F. A. Dexter. 2,314,775; Mar. 23.
Cutting machine. E. M. Worden. 2,314,535; Mar. 23.
Denture. U. S. Walton. 2,314,674; Mar. 23.
Detergent composition. C. R. Caryl. 2,314,840; Mar. 23.
Device for airchutes. R. Tauty. 2,314,433; Mar. 23.
Device or attachment for lifting boxes and the like. W. E. Korner. 2,314,792; Mar. 23.
Device for delivering measured quantities of liquid. F. W. Berwick and A. G. Berwick. 2,314,384; Mar. 23.
Device for gripping rods and the like. G. E. Fritts. 2,314,821; Mar. 23.
Device for holding garbage cans. H. B. Fallis. 2,314,331; Mar. 23.
Device for making rear sights for firearms. H. E. Dickerman. 2,314,574; Mar. 23.
Device for mounting wall cabinets. C. E. Kirch. 2,314,713; Mar. 23.
Diet selecting apparatus, Balanced. E. V. Carlsson. 2,314,387; Mar. 23.
Dimers of olefins, Producing. B. E. Roetheli and M. E. Conn. 2,314,457; Mar. 23.
Diorama construction. H. H. Lowenstein. 2,314,721; Mar. 23.
Dipotassium monosodium ferricyanide, Preparation of. U. H. Foster and L. L. Lento, Jr. 2,314,347; Mar. 23.
Dipping equipment. O. Tubbs. 2,314,467; Mar. 23.
Dispenser: *See*—
Refrigerated dispenser.
Dispensing closure for containers. R. W. Wilson. 2,314,676; Mar. 23.
Display card, particularly for pipe stems. O. Brunner. 2,314,765; Mar. 23.
Display device. E. J. Monteleone. 2,314,508; Mar. 23.
Display stand. J. J. Jacobson. 2,314,500; Mar. 23.
Dolly block construction. J. Gambino. 2,314,617; Mar. 23.
Door check and holding device. A. Larson. 2,314,544; Mar. 23.
Door counterbalancing means, Swing-up. D. M. Robinson. 2,314,634; Mar. 23.
Door-hold-open device. J. J. Muldoon. 2,314,416; Mar. 23.
Door latch mechanism. G. Janonis. 2,314,400; Mar. 23.
Door lock. W. R. Schlage. 2,314,462; Mar. 23.
Dredge hull. W. B. Macaulay. 2,314,624; Mar. 23.
Drier and making same, Folding clothes. F. S. Boltz. 2,314,762; Mar. 23.
Driftpin, swaging and aligning tool, Two-way. V. Gerich. 2,314,582; Mar. 23.
Drilling apparatus. W. W. Paget. 2,314,366; Mar. 23.
Drilling attachment for rotary drilling rigs, Rat-hole. E. L. Alexander and A. W. Braithwaite. 2,314,323; Mar. 23.
Dual purpose traveling block. H. S. Kelly. 2,314,502; Mar. 23.
Duplication verification apparatus. W. J. A. Bailey and H. Panissidi. 2,314,679; Mar. 23.
Ear muff. L. Goretsky. 2,314,782; Mar. 23.
Electric arc welding torch. V. H. Pavlecka. 2,314,628; Mar. 23.
Electric circuit employing grid-controlled gas discharge tubes. W. G. Shepherd. 2,314,739; Mar. 23.
Electric circuit interrupter. R. C. Dickinson. 2,314,693; Mar. 23.
Electric conductor strand, Composite. T. F. Peterson. 2,314,798; Mar. 23.
Electric drive and control system, Generating. T. O. Lillquist. 2,314,587–8; Mar. 23.
Electric switch. A. A. Bluemle. 2,314,684; Mar. 23.
Electric switch. K. F. J. Kirsten. 2,314,407; Mar. 23.
Electric switch. H. K. Kouyoumjian. 2,314,714; Mar. 23.
Electric welding. E. Schenk. 2,314,738; Mar. 23.
Electrical appliance plug. L. Vecchio. 2,314,671; Mar. 23.
Electrical conductor. C. W. Dodds. 2,314,694; Mar. 23.
Electrical connection. C. A. Woodward. 2,314,751, Mar. 23.
Electrical musical instrument. L. Hammond. 2,314,496; Mar. 23.
Electrical sound reproduction. M. C. Batsel. 2,314,382; Mar. 23.
Electrical terminal and terminal installation. S. M. Del Camp. 2,314,855; Mar. 23.
Electricity conductor unit with fixed socket-end conductors. L. G. Morten. 2,314,727; Mar. 23.
Electromagnetic brake. A. E. Lillquist. 2,314,451; Mar. 23.
Electro vacuum vibrator. M. P. McCarty. 2,314,590; Mar. 23.
Emulsifying and scouring assistant for mineral sulphonates. J. B. Holtzclaw and G. E. Serniuk. 2,314,450; Mar. 23.
Engine: *See*—
Internal combustion engine.
Erecting device for gyro verticals. L. F. Carter. 2,314,343; Mar. 23.
Esters of cis-endomethylene-3,6-Δ4-tetrahydrophthalic acid, Sulpho. P. P. McClellan and J. C. Bacon. 2,314,846; Mar. 23.
Esters of halogen alcohols, Production of. F. Manchen and W. Schmidt. 2,314,454; Mar. 23.
Expander tube brake. J. T. King. 2,314,712; Mar. 23.
Explosive composition. W. E. Kirst and C. H. Winning. 2,314,832, Mar. 23.
Explosive composition. C. H. Winning. 2,314,806–7; Mar. 23.
Explosive composition. C. H. Winning. 2,314,809–10; Mar. 23.
Explosive composition. C. H. Winning and R. J. Miller. 2,314,808; Mar. 23.
Fabric: *See*—
Structural fabric.
Fabric. R. G. Knowland and J. M. Donnelly. 2,314,844; Mar. 23.
Fastener: *See*—
Paper fastener.
Wheel shroud fastener.
Wallboard fastener.
Fastener. W. F. Warren. 2,314,470; Mar. 23.
Fastener assembly. W. T. White and C. H. Zimmerman. 2,314,746; Mar. 23.
Fastener device. O. J. Poupitch. 2,314,368; Mar. 23.
Fastener driving machine. F. Polzer. 2,314,847–8; Mar. 23.
Faucet attachment. C. E. Lehman. 2,314,357; Mar. 23.
Feed control device, Gravity. R. P. Skerritt. 2,314,802; Mar. 23.
Feed water regulator. V. V. Veenschoten. 2,314,672; Mar. 23.
Feeding mechanism, Work. W. O. Arnold. 2,314,605; Mar. 23.
Filling material for incendiary bombs and flares, Preparing. E. F. Fisher. 2,314,614; Mar. 23.
Filter paper and its manufacture and use. L. A. McClintock. 2,314,548; Mar. 23.
Fire control device. G. Lénin. 2,314,860; Mar. 23.
Fish net mounting. A. T. Riedi. 2,314,633; Mar. 23.
Fish segregating, sizing and directing apparatus. A. R. Christiansen. 2,314,479; Mar. 23.
Fishing reel. P. E. Gaire. 2,314,616; Mar. 23.
Fishing rod holder. M. A. White. 2,314,747; Mar. 23.
Flourescent lighting equipment. R. Orth. 2,314,420; Mar. 23.
Flowmeter. R. T. Zwack. 2,314,752; Mar. 23.
Flue or vent pipe. F. C. Enderle. 2,314,328; Mar. 23.
Fluid system and regulating device therefor. T. A. Baker. 2,314,569; Mar. 23.
Folder. M. Jenter. 2,314,790; Mar. 23.
Folding pushcart for babies. A. E. Peterson. 2,314,659; Mar. 23.

Food juices, Preserving. A. Artinian and C. M. Chapman. 2,314,837; Mar. 23.
Fowl picker. F. Hanshaw. 2,314,700; Mar. 23.
Frame: *See*—
Picture frame.
Vehicle frame.
Fruits and vegetables, Treatment of. S. Levison. 2,314,586; Mar. 23.
Gamma-halogen gamma-aceto propyl alcohol, Producing. E. R. Buchman. 2,314,571; Mar. 23.
Garment, Child's. M. H. Sunseri. 2,314,432; Mar. 23.
Garment hanger. L. A. Young. 2,314,643; Mar. 23.
Garment pressing machine. W. A. Hoch. 2,314,398; Mar. 23.
Gasoline tank sealing cap. J. E. Eshbaugh and N. Walker. 2,314,330; Mar. 23.
Gauge: *See*—
Water gauge.
Gear unit. E. W. Patterson. 2,314,595; Mar. 23.
Geophysical surveys, Making. S. R. Phelan. 2,314,597; Mar. 23.
Glass article. H. S. Willson. 2,314,804; Mar. 23.
Glass articles, Making. H. H. Blau and R. W. Kell. 2,314,812; Mar. 23.
Glass articles, Making. C. H. Greene. 2,314,824; Mar. 23.
Glass articles, Method and apparatus for perforating. R. A. Hinkley. 2,314,826; Mar. 23.
Glass cutting apparatus. J. L. Drake. 2,314,327; Mar. 23.
Glove. E. C. Lindfelt. 2,314,545; Mar. 23.
Governor for prime movers. I. M. Crafts and C. B. Taylor. 2,314,841; Mar. 23.
Grain grinder gate valve. H. M. Johnston. 2,314,706; Mar. 23.
Granular materials and product thereof, Coating. J. A. Brown and J. E. Clarke. 2,314,340; Mar. 23.
Gravities, Controlling specific. M. J. Galainena y Quesada. 2,314,822; Mar. 23.
Grinder, Automatic. C. B. De Vlieg. 2,314,483; Mar. 23.
Grinding machine. G. C. Hunt. 2,314,787; Mar. 23.
Handle: *See*—
Outside door handle.
Handle construction and mounting therefor. E. D. Pellegrin and H. H. Ring. 2,314,596; Mar. 23.
Handle structure. F. E. Sette. 2,314,522; Mar. 23.
Hanger: *See*—
Awning hanger.
Garment hanger.
Hardware. H. W. Neunherz. 2,314,418; Mar. 23.
Harrow disk mounting. E. E. Walker. 2,314,469; Mar. 23.
Headlight and parts thereof. M. P. Portnow. 2,314,735; Mar. 23.
Headlight tester. R. Schilling. 2,314,559; Mar. 23.
Headrest. C. A. Compton. 2,314,771; Mar. 23.
Hearth charging device, Open. W. H. Mursch. 2,314,729; Mar. 23.
Heat retarding device. H. R. Moulton. 2,314,363; Mar. 23.
Heat treatment of magnesium base alloys. A. Brandt. 2,314,852–4; Mar. 23.
Heating apparatus. G. Herbster. 2,314,825; Mar. 23.
Heating element, Surface. A. W. Bull and G. G. Havens. 2,314,766; Mar. 23.
Hermetically sealed can. E. Ljungstrom. 2,314,452; Mar. 23.
Hinge, Concealed. O. C. Gessler. 2,314,337; Mar. 23.
Hold-down device. W. R. Duda. 2,314,645; Mar. 23.
Holder: *See*—
Ash-retaining cigarette holder.
Package holder.
Phonograph record holder.
Fishing rod holder.
Tool holder.
Illuminated artificial bait holder.
Yarn holder.
Hose protector. J. F. Masterson. 2,314,359; Mar. 23.
Housing for shoe machines. O. R. Haas. 2,314,350; Mar 23.
Husbandry system. F. D. Cornell. 2,314,344; Mar. 23.
Hydrocarbon derivative. F. E. Frey. 2,314,335; Mar. 23.
Hydrocarbons, Treatment of. S. S. Allender. 2,314,435; Mar. 23.
Hydrocarbons, Treatment of. J. A. Chenicek. 2,314,388; Mar. 23.
Hydrocarbons, Treatment of. R. E. Schaad. 2,314,460; Mar. 23.
Ice bag. P. S. Madsen. 2,314,650; Mar. 23.
Illuminated artificial bait holder. G. S. Schwartz. 2,314,521; Mar. 23.
Illusions, Creating. L. B. Pickley. 2,314,629; Mar. 23.
Index, Tab. N. J. Erb. 2,314,578; Mar. 23.
Infrared spectrophotometer. O. W. Pineo. 2,314,800; Mar. 23.
Inhibitor for chemical deterioration. H. L. Thwaites. 2,314,466; Mar. 23.
Inking mechanism for printing presses. C. W. Harrold. 2,314,351; Mar. 23.
Inner packing of corrugated board. A. Greenberg. 2,314,491; Mar. 23.
Instrument pointer, Illuminated. O. N. Christensen. 2,314,817; Mar. 23.
Insulated freezer shell and transmission. L. A. M. Phelan. 2,314,598; Mar. 23.
Internal combustion engine. E. Jacobsen. 2,314,789; Mar. 23.
Internal combustion engine. E. O. Thege. 2,314,670; Mar. 23.
Internal combustion engine, Starter for. B. D. and J. D. Maule. 2,314,547; Mar. 23.
Investment. R. Neiman. 2,314,626; Mar. 23.
Ironer, Variable speed. F. Morella. 2,314,415; Mar. 23.
Jack assemblage. S. Mandl. 2,314,589; Mar. 23.
Jig for treating ore-bearing and like materials. C. Schouten. 2,314,428; Mar. 23.
Joint: *See*—
Pipe joint.
Pipe expansion joint.
Kiln. J. H. Minter. 2,314,507; Mar. 23.
Kiln, Rotary. G. E. Seil. 2,314,836; Mar. 23.
Knitting. I. H. C. Green. 2,314,618; Mar. 23.
Knitting machine, Straight-bar. H. W. and E. Start. 2,314,742; Mar. 23.
Lace curtain machine. W. S. Tandler, W. Teller, and D. S. Walker. 2,314,526; Mar. 23.
Laminated product. M. T. Harvey. 2,314,701; Mar. 23.
Lamp: *See*—
Relay for electric discharge lamp.
Lamp and gas tank filling vent, Combined tail. R. T. Keller. 2,314,710; Mar. 23.
Lapping process. D. A. Wallace. 2,314,533; Mar. 23.
Latch: *See*—
Tubular latch.
Latch retracting mechanism. G. E. Curtiss, Jr. 2,314,609; Mar. 23.
Lawn sprinkler. J. H. Wilson. 2,314,675; Mar. 23.
Lawn sprinkler, Rotary. J. E. Higgins. 2,314,702; Mar. 23.
Leash. L. B. Lifehultz. 2,314,504; Mar. 23.
Ledger and statement sheet, Combination. J. V. Hall. 2,314,495; Mar. 23.
License plate holder and lamp assembly. R. Cadwallader. 2,314,326; Mar. 23.
Light operated control system for electric lights. S. W. Dusdieker. 2,314,695; Mar. 23.
Lighting fixture. W. L. Schumaker. 2,314,520; Mar. 23.
Line starter switch. B. E. Shaw. 2,314,464; Mar. 23.
Lock: *See*—
Door lock.
Motor vehicle lock.
Lock nut. C. G. Olson. 2,314,509; Mar. 23.
Locomotive brake equipment. E. E. Hewitt. 2,314,397; Mar. 23.
Lubricant preparation, Antiwelding. W. P. Tighe. 2,314,530; Mar. 23.
Lubricant purifier. C. A. Winslow and L. L. Moore. 2,314,640; Mar. 23.
Lubricity-increasing agents, Neutral. A. W. Burwell. 2,314,769; Mar. 23.
Luminescent material. D. R. Hale. 2,314,699; Mar. 23.
Lunch box. A. B. Christensen. 2,314,688; Mar. 23.
Machine for making lift blanks. D. F. Hyland, H. L. Brenner, J. Brenner, and E. M. Knudsen. 2,314,541; Mar. 23.
Machine for manufacturing fabricated metallic structures. R. K. Odor. 2,314,510; Mar. 23.
Machine for opening eggs and separating the contents. L. M. Sigler. 2,314,741; Mar. 23.
Machine for plaiting. E. L. Benedict. 2,314,757; Mar. 23.
Machinery for clearing or excavating ditches, Means or. D. R. Bomford. 2,314,763; Mar. 23.
Magnesium, Method of and bath for coating. R. W. Buzzard. 2,314,341; Mar. 23.
Magnetic coil structure. W. A. Knoop. 2,314,409; Mar. 23.
Manipulator. E. E. Brosius. 2,314,686; Mar. 23.
Marine mine destroyer. H. J. Ganis. 2,314,781; Mar. 23.
Marine propulsion. A. Rietzke. 2,314,370; Mar. 23.
Mattress and the like. W. de Fries. 2,314,482; Mar. 23.
Measuring system, Power factor. D. R. Barney and G. W. Weaver. 2,314,851; Mar. 23.
Meat chopping block smoothing machine. R. L. Goff. 2,314,697; Mar. 23.
Metal, Casting. D. J. Campbell. 2,314,839; Mar. 23.
Metalworking apparatus and method. J. Kafowi. 2,314,403; Mar. 23.
Metering and aligning machine. E. P. Drake, F. J. Alberty, and W. H. Kagley. 2,314,484; Mar. 23.
Microwave device. E. G. Linder. 2,314,794; Mar. 23.
Molding and depositing machine for solidifiable plastic materials. W. E. Urschel. 2,314,468; Mar. 23.
Molding apparatus. H. Z. Gora. 2,314,823; Mar. 23.
Molding flask. W. J. van Rossem. 2,314,377; Mar. 23.
Molding method. W. J. van Rossem. 2,314,378; Mar. 23.
Monitoring device. G. L. Dimmick. 2,314,392; Mar. 23.
Motor vehicle. D. D. Ormsby. 2,314,511; Mar. 23.
Motor vehicle lock. J. J. Wharam. 2,314,568; Mar. 23.
Mounting: *See*—
Bearing mounting.
Harrow disk mounting.
Fish net mounting.
Nail Finishing. C. E. Crooks. 2,314,481; Mar. 23.
Navigational coordinator. R. E. Jasperson. 2,314,353; Mar. 23.
Net, Hair. S. Henry. 2,314,396; Mar. 23.
Nicotinamide, Producing. M. E. Hultquist. 2,314,843; Mar. 23.
Nitro compounds, Production of. R. G. Franklin and F. J. Wilkins. 2,314,615; Mar. 23.

Nitrogen from air, Extracting pure. R. M. Hortvet. 2,314,827; Mar. 23.
Nut and manufacture, Lock. H. F. Gade. 2,314,780; Mar. 23.
Nut device, Lock. H. J. Murphy. 2,314,728; Mar. 23.
Nut, Lock. W. A. Bedford, Jr. 2,314,756; Mar. 23.
Oil and stabilizing same. S. Musher. 2,314,364; Mar. 23.
Oil separator for refrigeration systems. H. A. Phillips. 2,314,516; Mar. 23.
Oils, Method for treating. A. B. Doran. 2,314,576; Mar. 23.
Oils of edible type, Refining. W. Kelley. 2,314,621; Mar. 23.
Oils, Refining of. R. P. Ferguson. 2,314,416; Mar. 23.
Oils, Stabilizing glyceride. S. Musher. 2,314,365; Mar. 23.
Optical lens and similar device. A. W. Kingston. 2,314,838; Mar. 23.
Outside door handle. J. W. Jackson and R. H. Dean. 2,314,399; Mar. 23.
Oven, Barbecue. N. E. Millikan. 2,314,627; Mar. 23.
Overload compensation for watt-hour meters. S. S. Green. 2,314,447; Mar. 23.
Package holder. J. P. McEnery. 2,314,360; Mar. 23.
Packaging apparatus. A. F. Toelke, R. Gehne, and P. J. Wenta. 2,314,434; Mar. 23.
Pad; *See*—
Sleeve pressing pad.
Pad cover and making same. I. C. Anderson. 2,314,436; Mar. 23.
Paper fastener. C. I. Wagner. 2,314,532; Mar. 23.
Paper, Impregnated. S. C. Fairbanks. 2,314,820; Mar. 23.
Paper manufacture. D. F. Morris and L. R. Growdon. 2,314,797; Mar. 23.
Parachute harness. F. Smith. 2,314,602; Mar. 23.
Para-hydroxyarylsulphones, Producing. W. Zerweck and W. Brunner. 2,314,379; Mar. 23.
Pen, Fountain. W. K. Olson. 2,314,551; Mar. 23.
Pen, Fountain. H. D. Stempel and R. E. Freeman. 2,314,563; Mar. 23.
Pencil, Fountain. E. C. Berners. 2,314,383; Mar. 23.
Pencil, Mechanical. H. M. Farrington. 2,314,777; Mar. 18.
Phonograph device. A. Cortella. 2,314,345; Mar. 23.
Phonograph record holder. M. W. Rosenfeld. 2,314,557; Mar. 23.
Photographic reversal process. J. R. Alburger. 2,314,380; Mar. 23.
Photographing unit. R. H. Hunter. 2,314,829; Mar. 23.
Photographing unit, Portable. C. B. Worcester. 2,314,642; Mar. 23.
Picture frame. R. Neal. 2,314,417; Mar. 23.
Pineapple grading apparatus. K. J. Jackson. 2,314,704; Mar. 23.
Pipe; *See*—
Flue or vent pipe.
Pipe expansion joint. F. W. Dittus, P. J. Bertoglio, and W. H. Spaulding. 2,314,776; Mar. 23.
Pipe joint. W. R. Brend. 2,314,386; Mar. 23.
Piston sealing assembly. M. M. Berry. 2,314,683; Mar. 23.
Plate for door latches, Escutcheon. H. B. Keats. 2,314,646; Mar. 23.
Plug; *See*—
Electrical appliance plug.
Plug supporting member for spark plug cleaners. R. Rabezzana. 2,314,556; Mar. 23.
Plug valve. R. Bischoff. 2,314,759; Mar. 23.
Pocket for billiard tables. A. F. Debicki. 2,314,774; Mar. 23.
Polymerizating olefins. E. E. Stahly and F. B. Johnson. 2,314,458; Mar. 23.
Pottery setter. F. V. Wind. 2,314,534; Mar. 23.
Power transmission. C. A. Neracher and W. T. Dunn. 2,314,594; Mar. 23.
Power transmission and control means therefor. G. R. Pennington. 2,314,554; Mar. 23.
Printer, Projection. E. W. Kellogg. 2,314,406; Mar. 23.
Printing device. W. A. Humphries. 2,314,828; Mar. 23.
Protective device. C. R. Craig. 2,314,346; Mar. 23.
Protector; *See*—
Colostomy protector. Hose protector.
Pump. W. F. Wesley. 2,314,745; Mar. 23.
Punch. G. H. Dawson. 2,314,690; Mar. 23.
Punchboard, Automatic. R. C. Walters. 2,314,743; Mar. 23.
Purification of alpha chloroacrylic compounds preliminary to polymerization. J. W. C. Crawford and N. McLeish. 2,314,443; Mar. 23.
Radiator shutter construction. E. A. Blumenthal. 2,314,476; Mar. 23.
Radio range. D. G. C. Luck. 2,314,795; Mar. 23.
Radio receiver. J. D. Holland. 2,314,785; Mar. 23.
Rail bond terminal. E. J. Sabol. 2,314,736–7; Mar. 23.
Railway car truck. E. E. Adams and H. M. Pflager. 2,314,644; Mar. 23.
Ratchet mechanism. K. R. Larson and G. M. Walraven. 2,314,623; Mar. 23.
Rake. L. A. Seldomridge. 2,314,635; Mar. 23.
Razor, Safety. N. Testi. 2,314,564; Mar. 23.
Recording apparatus. J. Q. Sherman and A. W. Metzner. 2,314,371; Mar. 23.
Recording barograph. B. Maggin. 2,314,722; Mar. 23.
Reducing and reversing drive unit, Combination. A. F. Milbrath. 2,314,549; Mar. 23.
Reel; *See*—
Fishing reel.
Reflector. W. P. Tolbert. 2,314,566; Mar. 23.
Refractory composition. M. H. Berns. 2,314,758; Mar. 23.
Refrigerated dispenser. J. C. Rear. 2,314,632; Mar. 23.
Refrigerating apparatus. A. A. McCormack. 2,314,591; Mar. 23.
Refrigeration. W. Jones. 2,314,402; Mar. 23.
Refrigerator. R. H. Norris. 2,314,657; Mar. 23.
Refrigerator car. R. K. Schwebs. 2,314,463; Mar. 23.
Refrigerator car hatch closure. J. S. Lundvall. 2,314,649; Mar. 23.
Register. W. L. Tancred. 2,314,637; Mar. 23.
Registering device, Web. N. W. Lyon. 2,314,411; Mar. 23.
Regulator; *See*—
Feed water regulator.
Relay for electric discharge lamp, Thermal. H. J. McCarthy. 2,314,725; Mar. 23.
Releasable window regulator clutch. E. G. Simpson. 2,314,429; Mar. 23.
Resistance unit, Variable. S. W. Law. 2,314,793; Mar. 23.
Reversible valve. W. J. McDevitt. 2,314,653; Mar. 23.
Ring toggle unit for ring binders, Single. J. Schade. 2,314,426; Mar. 23.
Ring traveler. S. H. Sherman and R. J. Clarkson. 2,314,740; Mar. 23.
Rivet, Expanding. E. M. Du Vall. 2,314,445; Mar. 23.
Rock crusher and disintegrator. M. E. Meinhardt. 2,314,414; Mar. 23.
Roller structure, Road. J. R. Ritchie. 2,314,601; Mar. 23.
Roofing products, Making. R. R. Thurston. 2,314,529; Mar. 23.
Rotary take-up for sewing machines. F. Parry. 2,314,513; Mar. 23.
Rotor, Feed grinding. H. J. Mankoff. 2,314,723; Mar. 23.
Rubber valve, Adjustable. G. H. Burrell. 2,314,767; Mar. 23.
Sacker, Grocery. S. N. Goldman. 2,314,490; Mar. 23.
Safety glass, Producing bent laminated. C. F. Binkert. 2,314,325; Mar. 23.
Safety means for agricultural implements. V. G. Jander. 2,314,620; Mar. 23.
Sampler, Sea. A. F. Spilhaus. 2,314,372; Mar. 23.
Sand eliminator. N. Schedin. 2,314,662; Mar. 23.
Scale structure for vehicles. D. J. Orr. 2,314,552; Mar. 23.
Screen; *See*—
Window screen.
Screw and its manufacture. W. A. De Vellier. 2,314,391; Mar. 23.
Screw driver, Power. W. Blair. 2,314,760; Mar. 23.
Screws, Method and apparatus for rolling. W. A. De Vellier. 2,314,390; Mar. 23.
Seal. B. Borland. 2,314,814; Mar. 23.
Seal, Floating tank roof. J. H. Wiggins. 2,314,805; Mar. 23.
Sectional boiler. V. Gerich. 2,314,581; Mar. 23.
Seed sorting machine. L. A. Medcalf. 2,314,593; Mar. 23.
Sewage distributor, Rotary. A. A. Page. 2,314,423; Mar. 23.
Shade construction, Black-out. B. Helgoth. 2,314,784; Mar. 23.
Shaker conveyer. J. H. Holstein. 2,314,786; Mar. 23.
Shaper. E. B. Peterman. 2,314,660; Mar. 23.
Shaver, Manually operated dry. B. R. Nyhagen. 2,314,731; Mar. 23.
Shock absorber. F. M. Guy. 2,314,493; Mar. 23.
Shoe manufacture. A. Rubin and G. A. Faber. 2,314,425; Mar. 23.
Shoe polisher. L. S. Guy. 2,314,394; Mar. 23.
Shoe, Track. H. A. Knox. 2,314,355; Mar. 23.
Shuttle. E. E. Talbot. 2,314,668–9; Mar. 23.
Sign element and mounting the same. E. and W. S. Wagner and R. J. Jordan. 2,314,803; Mar. 23.
Signaling system. M. Katzin. 2,314,707; Mar. 23.
Slab, Decorative. C. C. Schnetz. 2,314,856; Mar. 23.
Sleeve pressing pad. L. E. Hoagland. 2,314,498; Mar. 23.
Slipering device. F. P. Clark. 2,314,480; Mar. 23.
Sound on film. J. R. Klei. 2,314,834; Mar. 23.
Spool, bobbin, or the like. P. Willner. 2,314,749; Mar. 23.
Spoon holding attachment for cooking pans. J. Ballarino. 2,314,755; Mar. 23.
Spray head. J. B. Baird. 2,314,754; Mar. 23.
Spring suspension for furniture. C. C. Meutsch. 2,314,361; Mar. 23.
Spring suspension for vehicles. W. D. McIntyre, J. M. Nickelsen, and C. E. Read. 2,314,505; Mar. 23.
Sprinkler, Garden hose. B. E. Summers. 2,314,525; Mar. 23.
Stand; *See*—
Display stand.
Starch product, Dry. A. A. Salzburg. 2,314,459; Mar. 23.

Starter combination, Airplane. J. D. Maule. 2,314,546; Mar. 23.
Steel strip pickling, Continuous. T. F. Reed. 2,314,369; Mar. 23.
Steering stabilizer, Hydraulic. M. Katcher. 2,314,404; Mar. 23.
Stepladder, Self-locking caster. F. E. Brower. 2,314,478; Mar. 23.
Stick, Dip. H. W. Smith. 2,314,430; Mar. 23.
Storage tank and compressor assembly. J. D. Banning and A. Anderson. 2,314,438; Mar. 23.
Stove, Portable. B. Jones, Jr., R. H. White, and L. White. 2,314,791; Mar. 23.
Street sweeping machine. O. J. Arnett. 2,314,381; Mar. 23.
Strip forming apparatus. Scroll. P. E. Pearson. 2,315,367; Mar. 23.
Structural fabric. J. S. Nadell. 2,314,456; Mar. 23.
Suction cleaner. P. E. Frantz. 2,314,334; Mar. 23.
Supplying air to submerged submarines. F. J. Gray. 2,314,698; Mar. 23.
Support for materials. J. R. Barlow. 2,314,473; Mar. 23.
Surface treatment of tinned material. W. O. Cook and H. E. Romine. 2,314,818; Mar. 23.
Switch; *See*—
Electric switch. Line starter switch.
Switch. B. E. Shaw. 2,314,405; Mar. 23.
Switch device, Pneumatic. C. S. Kelley. 2,314,405; Mar. 23.
Synchronizing system. P. E. Day. 2,314,610; Mar. 23.
Table or the like, Physician's examining. G. E. Froelich. 2,314,778; Mar. 23.
Tag. W. Fuhrmann. 2,314,779; Mar. 23.
Tank; *See*—
Combination high and low pressure storage tank.
Tanker. J. Preuss. 2,314,555; Mar. 23.
Telephone call transmitter. J. G. Roberts and C. D. Richard. 2,314,801; Mar. 23.
Telephone system. G. Sandalls, Jr. 2,314,518; Mar. 23.
Television and speech television, Two-way. S. B. Wright. 2,314,471; Mar. 23.
Television system. C. N. Batsel. 2,314,680; Mar. 23.
Television transmitting and the like system. H. G. Lubszynski. 2,314,648; Mar. 23.
Tent. R. H. Hunter. 2,314,830; Mar. 23.
Termite control. L. E. Mills. 2,314,362; Mar. 23.
Testing and filtering solutions, Simultaneously. R. H. Goodale. 2,314,336; Mar. 23.
Thermostat. W. A. Ray. 2,314,599; Mar. 23.
Thermostatic element. H. D. Matthews. 2,314,412; Mar. 23.
Threading block for loom shuttles. R. C. Draper and C. D. Brown. 2,314,485; Mar. 23.
Throttle control. T. M. Ball. 2,314,570; Mar. 23.
Ticket container for milk bottles. G. Clark. 2,314,607; Mar. 23.
Tipping mechanism. L. W. Wachter. 2,314,531; Mar. 23.
Tobacco user's appliance. F. Dougherty. 2,314,393; Mar. 23.
Tonometer. A. H. Parsons. 2,314,514; Mar. 23.
Tool; *See*—
Abrading tool.
Driftpin, swaging and aligning tool.
Tool holder. H. C. Specht. 2,314,665; Mar. 23.
Tooth, Artificial. W. A. Kurgas. 2,314,503; Mar. 23.
Torpedo, Multiple. M. L. Monies. 2,314,655; Mar. 23.
Torque control in rotary well drilling. C. C. Scharpenberg. 2,314,560; Mar. 23.
Toy figure. D. M. Warren. 2,314,744; Mar. 23.
Toy, Vibrating trick. R. Appel. 2,314,472; Mar. 23.
Transferring heat by a heat exchange liquid. L. L. Slabkowicz. 2,314,636; Mar. 23.
Transmission mechanism. O. H. Shenstone. 2,314,664; Mar. 23.
Transmitter. T. Fecker. 2,314,487; Mar. 23.
Transmitting mechanism, Power. B. W. Keese. 2,314,833; Mar. 23.
Tray display and container. W. A. Ringler. 2,314,424; Mar. 23.
Tree removing and supporting apparatus. J. A. Vogel. 2,314,567; Mar. 23.
Tubing, Method and apparatus for making flexible A. Dreyer. 2,314,611; Mar. 23.
Tubular latch. F. N. Fellows. 2,314,488; Mar. 23.
Tufting machine. R. H. Bradwell. 2,314,339; Mar. 23.
Turboengine. H. E. Chitz. 2,314,572; Mar. 23.
Type-bar buffer for typewriters, Compensating. H. W. Young. 2,314,677; Mar. 23.
Typographical composing machine. H. A. Burt 2,314,768; Mar. 23.
Typographical composing machine. F. D. George. 2,314,536; Mar. 23.
Typographical machine. G. W. Allan and A. H. Simpson. 2,314,324; Mar. 23.
Underwater cable cutter. R. Temple. 2,314,528; Mar. 23.
Vacuum cleaner. A. A. Forsberg. 2,314,858; Mar. 23.
Valve; *See*—
Control valve. Reversible valve.
Grain grinder gate valve. Rubber valve.
Plug valve.
Valve. R. L. Ohls. 2,314,732; Mar. 23.
Valve assembly for fuel systems. A. L. Parker. 2,314,512; Mar. 23.
Valve gear for plural valve control, Single. W. N. Hedeman and W. E. Snyder. 2,314,842; Mar. 23.
Vanity case and like container, Illuminatable. J. G. Pucci. 2,314,517; Mar. 23.
Vehicle; *See*—
Motor vehicle.
Vehicle. S. C. Olson. 2,314,419; Mar. 23.
Vehicle control mechanism. J. Nicol. 2,314,730; Mar. 23.
Vehicle frame. C. E. Sorensen and L. S. Sheldrick. 2,314,603; Mar. 23.
Vent, Air. H. M. Woelfel. 2,314,850; Mar. 23.
Ventilator, Adjustable. A. E. Guettler. 2,314,492; Mar. 23.
Vine pulling machine. E. D. Dahlman. 2,314,773; Mar. 23.
Wallboard fastener. S. H. Tummins. 2,314,638; Mar. 23.
Wallboard joint structure. A. S. Speer. 2,314,523; Mar. 23.
Wall construction. G. A. Hoggatt. 2,314,448–9; Mar. 23.
Washer placing machine. C. and F. Hall. 2,314,494; Mar. 23.
Washing apparatus. E. S. Stoddard. 2,314,666; Mar. 23.
Washing apparatus. F. A. Walker. 2,314,673; Mar. 23.
Water gauge. S. Bochonok. 2,314,761; Mar. 23.
Wattmeter, Ultra high frequency. G. H. Brown. 2,314,764; Mar. 23.
Weaning device for animals. A. R. Miskin. 2,314,625; Mar. 23.
Wearing apparel and protector therefor, Combination. H. Marx. 2,314,796; Mar. 23.
Wedge keeper for rotary latches. W. A. Endter. 2,314,613; Mar. 23.
Weed cutter. N. E. Brooke. 2,314,685; Mar. 23.
Welding and flash removing machine. H. E. Morton. 2,314,656; Mar. 23.
Welding apparatus. J. W. Dawson and R. N. Stoddard. 2,314,691; Mar. 23.
Welding jig. J. W. Innes. 2,314,788; Mar. 23.
Well pumping apparatus. W. L. Kitsman. 2,314,583; Mar. 23.
Well screen having water contacting surfaces formed of plastic material. C. E. Bodey, Jr. 2,314,477; Mar. 23.
Wheel shroud fastener. A. Claud-Mantle. 2,314,651; Mar. 23.
Windmill. J. J. Duffy. 2,314,612; Mar. 23.
Window screen. H. O. Kraft. 2,314,715; Mar. 23.
Wire line grip. J. P. Ratigan. 2,314,630; Mar. 23.
Wire or rod connector. L. Frank. 2,314,579; Mar. 23.
Wood pulp, Preparing. F. Olsen. 2,314,658; Mar. 23.
Wrapper sealing machine. F. Clark and A. D'Antonio. 2,314,441; Mar. 23.
Wringer and the like. W. L. Kauffman, II. 2,314,708–9; Mar. 23.
Yarn holder. W. P. Hess. 2,314,619; Mar. 23.

CLASSIFICATION OF PATENTS

ISSUED MARCH 23, 1943

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

1— 49: 2,314,847
2,314,848
2— 112: 2,314,432
159: 2,314,545
209: 2,314,782
5— 337: 2,314,771
8— 45: 2,314,652
50: 2,314,440
10— 86: 2,314,780
12— 60: 2,314,541
142: 2,314,425
15— 16: 2,314,334
86: 2,314,381
136: 2,314,383
138: 2,314,394
2,314,538
139: 2,314,539
221: 2,314,711
16— 44: 2,314,478
49: 2,314,544
115: 2,314,799
116: 2,314,596
125: 2,314,522
135: 2,314,337
142: 2,314,416
17— 11.1: 2,314,700
18— 1: 2,314,494
2: 2,314,716
2,314,726
33: 2,314,377
34: 2,314,823
48: 2,314,529
55.1: 2,314,378
19— 150: 2,314,857
20— 19: 2,314,634
74: 2,314,481
22— 89: 2,314,486
126: 2,314,342
188: 2,314,626
200: 2,314,839
23— 77: 2,314,347
220: 2,314,827
230: 2,314,336
253: 2,314,548
24— 153: 2,314,532
192: 2,314,373
2,314,859
221: 2,314,470
230.5: 2,314,354
243: 2,314,630
249: 2,314,821
25— 41: 2,314,468
2,314,577
142: 2,314,507
153: 2,314,534
28— 79: 2,314,482
2,314,844
29— 95.1: 2,314,582
100: 2,314,665
30— 9: 2,314,506
43: 2,314,731
72: 2,314,564
130: 2,314,401
304: 2,314,635
315: 2,314,685
32— 2: 2,314,674
9: 2,314,503
33— 1: 2,314,353
27: 2,314,535
126.7: 2,314,430
174: 2,314,480
2,314,811
180: 2,314,559
34— 86: 2,314,748
35— 1: 2,314,387
2,314,721
54: 2,314,790
36— 10: 2,314,359
72: 2,314,796

37— 103: 2,314,763
144: 2,314,475
186: 2,314,395
38— 8: 2,314,431
56: 2,314,415
141: 2,314,498
40— 21: 2,314,779
42: 2,314,497
130: 2,314,326
142: 2,314,803
152.1: 2,314,417
43— 4: 2,314,747
44: 2,314,521
44— 1: 2,314,614
68: 2,314,575
73: 2,314,388
46— 157: 2,314,744
47— 37: 2,314,567
49— 28: 2,314,826
52: 2,314,327
77: 2,314,824
79: 2,314,325
2,314,812
92: 2,314,804
51— 8: 2,314,556
90: 2,314,483
161: 2,314,787
184.2: 2,314,348
290: 2,314,533
295: 2,314,340
298: 2,314,349
52— 11: 2,314,806
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2,314,808
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53— 3: Re.22,291
2,314,543
55— 66: 2,314,773
107: 2,314,681
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400.1: 2,314,620
57— 125: 2,314,740
62— 2: 2,314,524
24: 2,314,463
114: 2,314,598
115: 2,314,402
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2,314,591
65— 65: 2,314,755
66— 1: 2,314,618
148: 2,314,742
67— 29: 2,314,829
68— 253: 2,314,708
269: 2,314,709
70— 153: 2,314,462
252: 2,314,568
72— 16: 2,314,408
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118: 2,314,448
2,314,638
73— 51: Re.22,293
2,314,514
2,314,540
247: 2,314,752
330: 2,314,761
343: 2,314,754
74— 5: 2,314,343
22: 2,314,759
326: 2,314,833
376: 2,314,549
414: 2,314,595
472: 2,314,554
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484: 2,314,730

78— 60: 2,314,403
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96: 2,314,686
80— 9: 2,314,390
61: 2,314,391
81— 15: 2,314,617
83— 8: 2,314,706
11: 2,314,689
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84— 1,23: 2,314,496
85— 2.4: 2,314,770
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86— 1: 2,314,606
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88— 16: 2,314,629
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13.1: 2,314,499
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93— 2: 2,314,441
3: 2,314,434
11: Re.22,292
94— 34: 2,314,682
44: 2,314,358
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99.7: 2,314,492
99— 103: 2,314,586
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101— 147: 2,314,351
324: 2,314,828
102— 2: 2,314,678
103— 5: 2,314,583
151: 2,314,745
220: 2,314,662
105—224.1: 2,314,644
106— 44: 2,314,758
112— 79: 2,314,339
248: 2,314,513
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99: 2,314,788
114— 16.4: 2,314,668
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221: 2,314,528
240: 2,314,781
115— 37: 2,314,370
116— 129: 2,314,817
175: 2,314,508
117— 55: 2,314,436
68: 2,314,797
104: 2,314,329
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130: 2,314,625
120— 19: 2,314,777
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121— 38: 2,314,398
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122— 68: 2,314,667
225: 2,314,581
451.1: 2,314,672
123— 51: 2,314,670
197: 2,314,789
126— 8: 2,314,627
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110: 2,314,825
128— 38: 2,314,590
283: 2,314,724
129— 12: 2,314,427
16.1: 2,314,705
24: 2,314,426
131— 7: 2,314,389
79: 2,314,734
170: 2,314,393
175: 2,314,585
132— 32: 2,314,375
2,314,376
49: 2,314,396
135— 1: 2,314,830
137— 18: 2,314,372
78: 2,314,822
144: 2,314,842
138— 67: 2,314,328
139— 212: 2,314,485
222: 2,314,668
223: 2,314,669
141— 9: 2,314,332
144— 2: 2,314,697
32: 2,314,760
134: 2,314,660
146— 2: 2,314,741
148— 6: 2,314,818
6.5: 2,314,565
8: 2,314,369
13.1: 2,314,816
21.3: 2,314,852
2,314,853
2,314,854
150— 1: 2,314,639
2.1: 2,314,650
151— 21: 2,314,509
2,314,756
32: 2,314,728
154— 1: 2,314,713
31: 2,314,757
43: 2,314,701
273: 2,314,363
155— 179: 2,314,361
2,314,608
160— 41: 2,314,784
94: 2,314,715
173: 2,314,461
164— 49: 2,314,367
55: 2,314,645
91: 2,314,690
115: 2,314,679
2,314,718
166— 5: 2,314,477
170— 27: 2,314,612
135.6: 2,314,610
171— 95: 2,314,764
264: 2,314,447
172— 245: 2,314,851
173— 324: 2,314,855
332: 2,314,671
363: 2,314,751
174— 25: 2,314,694
75: 2,314,727
128: 2,314,798
175— 182: 2,314,597
294: 2,314,587
375: 2,314,695
176— 124: 2,314,725

177— 329: 2,314,584
351: 2,314,749
2,314,720
353: 2,314,692
178— 5.6: 2,314,471
7.1: 2,314,680
7.2: 2,314,648
7.7: 2,314,409
51: 2,314,422
179— 27: 2,314,518
90: 2,314,801
100.3: 2,314,382
100.4: 2,314,834
171: 2,314,487
2,314,813
180— 17: 2,314,664
44: 2,314,511
82: 2,314,815
183— 12: 2,314,573
67: 2,314,858
185— 39: 2,314,546
2,314,547
188— 89: 2,314,493
152: 2,314,712
171: 2,314,451
189— 34: 2,314,456
62: 2,314,476
192— 6: 2,314,845
43.2: 2,314,623
195— 47: 2,314,831
196— 10: 2,314,333
2,314,435
2,314,458
197— 183: 2,314,677
198— 30: 2,314,484
162: 2,314,605
220: 2,314,786
199— 22: 2,314,535
45: 2,314,324
2,314,768
200— 67: 2,314,714
83: 2,314,405
114: 2,314,561
2,314,693
120: 2,314,846
138: 2,314,599
154: 2,314,465
159: 2,314,407
164: 2,314,684
201— 63: 2,314,793
202— 26: 2,314,641
57: 2,314,443
204— 26: 2,314,601
56: 2,314,341
206— 44: 2,314,424
58: 2,314,849
209— 99: 2,314,704
102: 2,314,479
113: 2,314,593
428: 2,314,542
455: 2,314,428
210— 84: 2,314,357
131: 2,314,640
211— 40: 2,314,557
50: 2,314,473
60: 2,314,765
74: 2,314,500
178: 2,314,762
214— 31: 2,314,729
75: 2,314,792
430: 2,314,647
215— 25: Re.22,294
100: 2,314,607
219— 4: 2,314,691
6: 2,314,611

219— 10: 2,314,738
15: 2,314,628
19: 2,314,766
35: 2,314,592
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220— 1: 2,314,835
3: 2,314,442
9: 2,314,657
26: 2,314,805
32: 2,314,666
2,314,673
36: 2,314,717
44: 2,314,330
56: 2,314,688
61: 2,314,452
86: 2,314,710
221— 12: 2,314,562
112: 2,314,384
223— 92: 2,314,643
226— 20: 2,314,527
228— 14: 2,314,338
2,314,491
2,314,631
57: 2,314,819
230— 126: 2,314,572
2,314,696
235: 2,314,438
234— 17: 2,314,722
235— 1: 2,314,637
236— 44: 2,314,558
91: 2,314,802
238— 315: 2,314,750
240— 6.45: 2,314,517
41: 2,314,735
78: 2,314,420
2,314,520
242— 84.4: 2,314,616
98: 2,314,504
115: 2,314,619
119: 2,314,749
148: 2,314,433
151: 2,314,602
248— 94: 2,314,633
97: 2,314,410
149: 2,314,490
310: 2,314,360
358: 2,314,464
361: 2,314,331
249— 44: 2,314,654
250— 6: 2,314,707
11: 2,314,795
20: 2,314,785
27: 2,314,739
2,314,794
43: 2,314,800
81: 2,314,699
251— 102: 2,314,512
2,314,732
122: 2,314,767
125: 2,314,553
159: 2,314,653
252— 8.7: 2,314,450
42: 2,314,769
45: 2,314,530
78: 2,314,636
137: 2,314,840
254— 93: 2,314,589
173: 2,314,733
197: 2,314,502
255— 19: 2,314,323
2,314,560
47: 2,314,366
72: 2,314,352
259— 23: 2,314,421
260— 257: 2,314,537
295: 2,314,843
371: 2,314,356
398.5: 2,314,364

260—398.5:	2,314,365	261—	11:	2,314,580	280—	41:	2,314,659	287—	20.3:	2,314,737	
	427:	2,314,621	263—	32:	2,314,836		90:	2,314,404		76:	2,314,579
	463:	2,314,454	264—	3:	2,314,841		106:	2,314,603	290—	17:	2,314,588
	468:	2,314,846	265—	40:	2,314,552	282—	8:	2,314,495		40:	2,314,501
	502:	2,314,385	267—	8:	2,314,505		15:	2,314,371		50:	2,314,687
	504:	2,314,571	268—	125:	2,314,429	283—	42:	2,314,578	292—	1:	2,314,646
	607:	2,314,379	271—	2.3:	2,314,406	285—	90:	2,314,776		167:	2,314,609
	619:	2,314,322		2.6:	2,314,411		163:	2,314,386		169:	2,314,488
	644:	2,314,615	272—	27:	2,314,472		169:	2,314,374		213:	2,314,613
	662:	2,314,335	273—	12:	2,314,774	286—	33:	2,314,489		215:	2,314,651
	669:	2,314,466		139:	2,314,743	287—	20:	2,314,418		223:	2,314,400
	683.1:	2,314,457	274—	13:	2,314,345		20.3:	2,314,736		315:	2,314,814

292—	347:	2,314,399	303—	59:	2,314,397						
293—	55:	2,314,600	305—	10:	2,314,355						
296—	19:	2,314,419	308—	160:	2,314,703						
297—	15:	2,314,412		181:	2,314,469						
298—	22:	2,314,531		207:	2,314,622						
299—	50:	2,314,675	309—	23:	2,314,683						
	69:	2,314,423	311—	7:	2,314,778						
		2,314,702		21:	2,314,550						
	97:	2,314,676	312—	36:	2,314,632						
	104:	2,314,525									
	130:	2,314,754									
303—	23:	2,314,413									

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

Re.22,294:	215— 25	2,314,409:	178—7.7	2,314,522:	16—125	2,314,616:	242—84.4	2,314,710:	220—86	2,314,796:	36— 72
2,314,325:	49— 79	2,314,417:	40—152.1	2,314,527:	226— 20	2,314,619:	242—115	2,314,711:	15—221	2,314,818:	148— 6
2,314,331:	248—361	2,314,444:	121— 40	2,314,528:	114—221	2,314,620:	56—400.1	2,314,717:	220— 36	2,314,819:	229— 57
2,314,338:	229— 14	2,314,449:	72— 31	2,314,546:	185— 39	2,314,621:	260—427	2,314,727:	174— 75	2,314,828:	101—324
2,314,342:	22—126	2,314,490:	248—149	2,314,547:	185— 39	2,314,627:	126— 8	2,314,729:	214— 31	2,314,840:	252—137
2,314,348:	51—184.2	2,314,492:	98—99.7	2,314,573:	183— 12	2,314,641:	202— 26	2,314,747:	43— 4		
2,314,360:	248—310	2,314,496:	84—1.23	2,314,575:	44— 68	2,314,651:	292—215	2,314,750:	238—315		
2,314,363:	154—273	2,314,505:	267— 8	2,314,586:	99—103	2,314,666:	220— 32	2,314,753:	73—343		
2,314,404:	280— 90	2,314,511:	180— 44	2,314,614:	44— 1	2,314,708:	68—253	2,314,791:	126— 25		

U. S. GOVERNMENT PRINTING OFFICE: 1943

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

BRAMLEY ET AL.

v.

BEESE

No. 4,666. Decided December 26, 1942

[— F.(2d) —]

1. INTERFERENCE—RIGHT TO MAKE COUNTS.

"The burden of appellants' argument as to why their diagrammatic drawing and incomplete description are sufficient to support the involved counts is to the effect that it is enough to acquaint one skilled in the art how to construct and use the device and that it is not necessary to go into detail and show all the elements, such as 'means for rotating said chamber.' The difficulty with that position is that in this kind of proceeding specific limitations in a count cannot be ignored, and some disclosure that satisfactorily teaches the art the manner or preferred manner in which the structure may be made and used must be furnished. Where there is no means shown, the disclosure is deficient."

2. SAME—PRIORITY.

Record reviewed and *Held* that the showing of the application of Bramley et al., the senior party, is not sufficient under section 4888 R. S. (35 U. S. C., § 33) to support the counts in issue and that the Board of Interference Examiners properly awarded priority to Beese, the junior party.

APPEAL from the Patent Office. Affirmed.

Mr. Robert H. Shields et al. (*Mr. Albert J. Kramer* of counsel) for Bramley et al.

Mr. J. W. Greenbowe (*Mr. Towson Price* of counsel) for Beese.

BLAND, *J.:*

Appellants Bramley and Brewer have here appealed from a decision of the Board of Interference Examiners of the United States Patent Office reversing, in effect, a decision of the Primary Examiner as to the right of appellants to make claims corresponding to the counts in issue, and awarding priority to the junior party, Beese, appellee.

Bramley and Brewer filed their involved application on March 22, 1939, while that of Beese was filed on August 25, 1939.

The interference was declared upon two counts corresponding to claims taken from the Beese application. Count 1 is on the method and count 2 is on the apparatus, both relating to the separation of gases. They read as follows:

1. The method of separating the heavier and lighter components of a gas, comprising introducing said gas into a chamber formed by plates disposed opposite one another and maintained at different temperatures, rotating said chamber, and drawing the lighter component off from the axial portion and the heavier component off from the peripheral portion of said chamber.

2. Apparatus for separating the heavier and lighter components of a gas, comprising a chamber, means for maintaining opposite walls of said chamber at different temperatures, means for rotating said chamber, and means for drawing the lighter component off from the axial portion, and the heavier component off from the peripheral portion, of said chamber.

The invention involved seems to be well described in appellants' brief as follows:

The subject matter of this interference relates to the separation of mixed gases having different molecular weights or of a single gas having a heavier component and a lighter component. Such components of a single gas are generally referred to as isotopes. The method of accomplishing such separation in accordance with the counts is similar in one respect to that of the ordinary cream separator, by making use of centrifugal action. In addition to centrifugal action one side of the separator is maintained at a temperature different from the other. As a result of this temperature difference and centrifugal action a thermal diffusion of the gas components is obtained, together with a movement of these components toward different regions. * * *

The preliminary statement of Beese alleged no date to which he was entitled earlier than the filing date of Bramley and Brewer, and Beese was accordingly ordered to show cause why judgment on the record should not be entered against him. Beese then moved to dissolve the interference on the following grounds:

(1) The disclosure of the party Bramley and Brewer is too indefinite to support either of the counts.

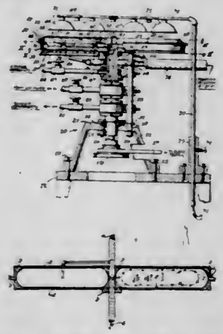
(2) The disclosure of Bramley and Brewer is inoperative insofar as it relates to the counts of the interference, so they have no right to make either count.

(3) The substance of the sentences added to the Bramley and Brewer specification after the paragraph describing Figure 3 on page 5 is new matter.

The Primary Examiner held that the Bramley and Brewer disclosure was sufficient to support the counts and therefore denied the motion of appellee to dissolve the interference. He discussed the questions involved at considerable length. His rulings and reasons therefor will be discussed in more detail later.

Upon final hearing before the Board of Interference Examiners, the Board held, for reasons which will be more fully discussed hereinafter, that the Bramley and Brewer disclosure was not sufficient to support the counts and awarded priority to the party Beese.

Before discussing the issues involved, we think it will be helpful to set out here Fig. 3 of the Bramley and Brewer application and Fig. 1 of the Beese application. The latter is inserted by reason of the fact that Beese contends that the counts should be interpreted in the light of his application and his disclosure.



The Bramley and Brewer application, as originally filed, explained their drawing (Fig. 3) in the following language:

The apparatus illustrated in Figure 3 is so designed that all gas motion is imparted by centrifugal force. The apparatus consists of a heated plate 1, which stands

parallel to cold plate 2. The space between the hot plate 1 and cold plate 2 is enclosed by thermal insulators 3.

The Primary Examiner rejected all the claims, 1 to 5, inclusive, of the Bramley and Brewer application as filed, upon the ground, among others, that they were indefinite. Appellants then cancelled claims 1 to 4, inclusive, amended claim 5, submitted one new claim, 6, and also amended their specification. One of the amendments to the specification reads as follows:

In this type of apparatus, heated plate 1, cold plate 2, and insulators 3 are supported in such a position that the whole apparatus revolves on a spindle which contains tube 4 and outlet tube 6. Outlet tube 5 is situated at the periphery of the apparatus.

Beese argues that this amendment comprises new matter, but in view of our conclusion it will not be necessary for us to decide that question.

Amended claim 5 and new claim 6 were subsequently rejected upon the prior art. Some time later, appellants submitted two claims identical with claims 1 and 6 of the Beese application and corresponding to the counts in issue, the claims apparently having been suggested to them for the purpose of interference. Thereupon the present interference was declared.

In his motion to dissolve, Beese, after quoting from appellants' application (as originally filed) the above-quoted description relating to Fig. 3, argued that—

This is all there was about the *only* figure apparently *supposed* to show how gases are separated by means of centrifugal force, except for the *brief* description of this figure reading as follows:

"Figure 3 is a cross-sectional view of a type of apparatus that may be used in which mass motion is imparted to the gas within the apparatus by means of centrifugal force."

• • • • • • •

From this meager description it is not at all clear how any possible use could be made of the apparatus. However, if we give Bramley and Brewer the benefit of their description of Figures 1 and 2, we might assume that the lower plate 1 is heated, like the plates 1 of Figures 1 and 2, and the upper plate 2 is cooled, like the plates 2 of Figures 1 and 2. However, even on this assumption, we do not yet have a definite and operative disclosure, because there is no showing, either *about what axis* the chamber or double-chambered device *rotates*, *what causes* it to rotate, or *what shape* it is in *plan*. [Italics quoted.]

He then contended that the added words describing Figure 3 constituted new matter and continued:

A consideration of Figure 3, shows that gas apparently passes entirely through a *hollow tube* from top to bottom, which tube apparently encloses portions of the pipes marked "4" and "6." If this is a spindle, there is no disclosure of *why* gas should circulate therethrough, and how gas is admitted to the pipe 4, and withdrawn from the pipe 6, if they are rotated with said spindle. [Italics quoted.]

He concluded by stating:

Looking at the disclosure of Figure 3 of Bramley and Brewer in its *most favorable* light (but without going to the disclosure of *Beese* for amplification or explanation), it is seen that it is *inoperative*, first, because the application of heat below and cold above would so stir up any gas therein, that *no possible separation could be effected*; second, gas apparently passes directly through the *whole length* of the two chambers, from right to left, which would cause a further *stirring up* of the gas; third, there is no disclosure of the *shape* of the chamber or chambers, as viewed from *above*; fourth, there is no disclosure of *how* gas or air is introduced to or withdrawn from the chamber or chambers; and fifth, there is no disclosure of how the chamber (or chambers) is (or are) mounted and rotated.

In view of the foregoing discussion, it is clear that there is no support for the counts, and particularly the method steps of count 1, such as *introducing* gas into a chamber, *rotating* said chamber, and *drawing* the lighter component from the axial portion, and the heavier component from the peripheral portion of the chamber.

As for count 2, it is clear that there is no apparatus disclosed for *separating* the heavier and lighter components of a gas, comprising *means* for *maintaining* opposite walls of a chamber at *different* temperatures, *means* for *rotating* the chamber, and *means* for *drawing* the lighter component from the axial portion, and the heavier component from the peripheral portion.

Even if Figure 3 can be assumed to show a chamber in which the wall 1 is hot, and the wall 2 is cold, there is no disclosure of *means for maintaining such walls at different temperatures*. [Italics quoted.]

We have set out at some length the above argument of Beese, made upon the motion to dissolve, for the reason that we think it, when considered with the drawings, supra, presents clearly the fatal defects of appellants' disclosure which prompted the Board to award priority to Beese.

The Primary Examiner ruled, in substance, that in Fig. 3 pipes 4 and 6 are enclosed in a hollow shaft and that "the same reference characters as used on the different embodiments designate corresponding parts and conditions." He further said:

• • • The intake pipe 4 communicating with but one side of the structure in Fig. 3 makes it evident that the chamber must be annular. The arrows indicating the circulation of gases and the position of the lighter K and heavier I constituents show that tubes 5 and 6 must be at the axis of rotation. The only apparent utility for the enclosing shaft is to produce rotation of the body. It therefore is held that the Bramley and Brewer application discloses a chamber formed between spaced, parallel plates 1, 2 and that said plates are mounted for rotation upon the shaft enclosing tubes 4, 6.

As to the means for rotating the device, the Examiner, we think, improperly held that—

The mere suggestion that the plates are rotated responds to the broad "means for rotating."

These holdings were contested before the Board of Interference Examiners, and it held in part as follows:

In essence, the question to be decided is whether or not Figure 3 of the Bramley and Brewer application, taken with the verbal description, satisfies the requirement of R. S. 4888 as to sufficiency of disclosure.

Inspection of Figure 3 reveals that it is extremely diagrammatic. From the character of this showing it is a matter of conjecture as to the specific structure and operation intended to be represented thereby. Standing alone, in the absence of legends, it obviously is impossible to read method count 1 on this figure. As for apparatus count 2, this also is not readable on Figure 3. There indubitably is no showing, diagrammatic or otherwise, of "means for maintaining opposite walls • • • at different temperatures," or of "means for rotating said chamber."

• • • • • • •

The argument of Bramley and Brewer that such means are "conventional" has been considered but is not deemed applicable herein. In view of the nature of the subject matter in controversy, it appears doubtful if there could be "conventional" means; in any event there is nothing in the record supporting the asserted "conventional" character of such means.

Apropos the matter of rotating the device shown in Figure 3 to effect motion of the gas through "centrifugal force," the question also arises how, under such conditions of rapid motion, it would be possible for the pipes 5, 5 to be connected to means for "drawing off the heavy gas." The sketch, it should be noted, shows pipes 5 as broken, thereby indicating that they extend to the receiver for the heavier component.

A diagrammatic sketch of this character, which admittedly must be supplemented by "conventional" details to make it complete and operative, is not deemed a disclosure of the precise invention for which a patent is sought and the preferred embodiment thereof. Certainly this meager showing and somewhat cryptic description falls far short of the full, clear, concise and exact disclosure required by R. S. 4888, and therefore does not adequately support apparatus count 2.

While there is a somewhat more colorable basis for the method count, nevertheless there is, actually, the same fatal defect with respect to the disclosure. The method count, by its very terms, could only be performed in the apparatus described in count 2. Lacking a satisfactory disclosure of means for performing the process, applicants Bramley and Brewer likewise fail to meet the statutory requirement as to sufficiency of disclosure of the method.

The question of inoperativeness of the Beese structure was not raised before the Board, and appellants have not raised it in their reasons of appeal. Nevertheless, they ask us to consider it inasmuch as they did not discover that the Beese disclosure was inoperative until they were preparing their brief for appeal here. It is too well settled to require the citation of any authority that questions not raised before the tribunals below and not covered by the reasons of appeal are not before this court for review, and we therefore will give no consideration to this question.

We agree with the Board of Interference Examiners that appellants' diagrammatic drawing with the meager description of the same, even after amendment to the description in the particulars heretofore mentioned, is not a sufficient showing to support the counts involved. Section 4888 of the Revised Statutes (35 U. S. C. § 33) requires that—

Before any inventor or discoverer shall receive a patent for his invention or discovery, he shall make application therefor in writing, to the Commissioner of Patents, and shall file in the Patent Office a written description of the same, and of the manner and process of making, constructing, compounding, and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art or science to which it appertains, or with which it is most nearly connected, to make, construct, compound, and use the same; and in case of a machine, he shall explain the principle thereof, and the best mode in which he has contemplated applying that principle, so as to distinguish it from other inventions; and he shall particularly point out and distinctly claim the part, improvement, or combination which he claims as his invention or discovery.

[1] The burden of appellants' argument as to why their diagrammatic drawing and incomplete description are sufficient to support the involved counts is to the effect that it is enough to acquaint one skilled in the art how to construct and use the device and that it is not necessary to go into detail and show all the elements, such as "means for rotating said chamber." The difficulty with that position is that in this kind of proceeding specific limitations in a count cannot be ignored, and some disclosure that satisfactorily teaches the art the manner or preferred manner in which the structure may be made and used must be furnished. Where there is no means shown, the disclosure is deficient. There is nothing in appellants' application to satisfactorily teach one skilled in the art the manner in which they make or use their structure. In this case, we are in much the same position as we were in *Brand* v. *Thomas*, 25 C. C. P. A. (Patents) 1053, 96 F.(2d) 301, 496 O. G. 561, where it was held that the appellee had no right to make the count and we said:

• • • Lack of clear disclosure is not supplied by a speculation as to what one skilled in the art might do or might not do if he followed the teaching of the inventor. The disclosure should be clearer than to suggest that one skilled in the art *might* construct the device in a particular manner. • • • [Italics quoted.]

Appellants have assigned as a reason of appeal the failure of the Board of Interference Examiners to take into account all the figures of the drawings contained in their application. It is not contended that the counts read upon any figure other than Fig. 3. It is true that they argue that since the same numerals are used in all their drawings, some of the means called for by the counts may be explained by reference to the other figures. Nevertheless, even upon taking into account all the figures of the drawings and the specification as a whole, we, after careful consideration, are not convinced that appellants' application is sufficiently "full, clear, concise, and exact" in its terms as to comply with the statutory requirement.

We are especially impressed with the merit of appellee's contention that there is no showing in the application of Bramley and Brewer as to the cause or manner of rotation of the chamber, or the shape of the chamber, or how the heavier component of the gas is drawn off. It seems to us that the Board of Interference Examiners was correct in holding that the mere mention of centrifugal force does not supply the requirement of count 2, which calls for "means for rotating said chamber."

In view of our conclusions as to these matters, it is unnecessary for us to discuss the numerous other questions raised by both parties.

[2] The decision of the Board of Interference Examiners is affirmed.

Affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,479,397, F. Mossberg, Carrier for braiding machine, D. C. Mass., Doc. 228, *Mossberg Pressed Steel Corp.* v. *J. E. Chace*. Dismissed for lack of prosecution Jan. 2, 1943.

1,482,028, Oswald & Holley, Artificial-refrigerating apparatus, D. C., N. D. Ill., E. Div., Doc. 2443, *The Hoover Co., Inc.*, v. *The Crosley Distributing Corp., Inc.* Claims 2 and 5 held invalid, bill dismissed Jan. 7, 1943.

1,498,269, J. J. Harris, Adhesive material, D. C., N. D. Ill., E. Div., Doc. 3030, *J. J. Harris* v. *M. H. Detrick Co.* Dismissed with prejudice by stipulation Nov. 24, 1942.

1,519,357, H. Campbell, Elevating and tilting device for automobiles, D. C., N. D. Ill., E. Div., Doc. 1908, *H. Campbell* v. *The U. S. Air Compressor Co. et al.* Dismissed Nov. 6, 1942.

1,570,320, A. E. Serewicz, Spark plug and method of making same, filed Jan. 18, 1943, D. C., N. D. Ill., E. Div., Doc. 43C35, *A. E. Serewicz* v. *A. C. Spark Plug Co.* Doc. 43C36, *A. E. Serewicz* v. *Champion Spark Plug Co.*

1,570,819, B. Bart, Method of electroplating and apparatus therefor, filed Jan. 22, 1943, D. C., E. D. N. Y., Doc. 3108, *Bart Laboratories* v. *U. S. Galvanizing & Plating Equipment Corp.*

1,633,641, F. C. Kasch, Roof construction, D. C., N. D. Ohio, E. Div., Doc. 20985, *Monroe Property Co.* v. *The Kasch Roofing Co. et al.* Bill dismissed by stipulation of counsel Jan. 6, 1943.

1,682,188, G. W. Schaefer, Printing and index device, D. C., N. D. Ill., E. Div., Doc. 4375, *Addressograph-Multigraph Corp.* v. *Pruitt Office Machines.* Patent held valid and infringed, injunction Sept. 28, 1942.

1,710,531, J. H. Cohen, Electrical device, D. C., N. D. Ill., E. Div., Doc. 3164, *Casco Products Corp.* v. *Sinko Tool & Mfg. Co.* Dismissed with prejudice Dec. 17, 1942.

1,724,569, R. M. Elliott, High chair structure, D. C., N. D. Ill., E. Div., Doc. 3871, *The Lehman Co. of America, Inc.*, v. *Kroll Bros. Co.* Claim 3 held invalid, bill dismissed Dec. 18, 1942.

1,889,429, Wiegand & Venuto, Carbon black and process of making same. D. C. Mass., Doc. 1782, *Binney & Smith Co.* v. *Godfrey L. Cabot, Inc.* Bill dismissed Jan. 28, 1943.

1,925,893, G. M. Bacon, Milk delivery motor vehicle, D. C., E. D. Mich. (Detroit), Doc. 8307, *Northern Motors Corp.* v. *Divco-Twin Truck Co.* Dismissed without prejudice Apr. 22, 1941.

1,950,372, L. W. Cross, Expanded metal and method and apparatus for manufacturing the same, D. C., N. D. Ohio, E. Div., Doc. E5047, *The Consolidated Expanded Metal Companies* v. *U. S. Gypsum Co.* Dismissed Jan. 16, 1943.

1,962,264, H. Veit, Hair cutting and thinning shears, D. C., N. D. Ill., E. Div., Doc. 1628, *Jetter & Scheerer Products, Inc., et al.* v. *American Beauty Products Co., Inc.* Consent decree holding patent valid and infringed, injunction Nov. 27, 1942.

1,964,811, C. O. Cozzens, Ophthalmic mounting, D. C., N. D. Ill., E. D. Ill., E. Div., Doc. 14656, *American Optical Co. et al.* v. *Sager Glove Corp.* Dismissed without prejudice Dec. 31, 1942.

1,979,493, S. R. Salvio, Dental impression form, D. C., N. D. Ill., E. Div., Doc. 3226, *S. R. Salvio* v. *Oral Products.* Order by default holding patent valid and infringed, injunction Nov. 20, 1942.

2,032,067, E. E. Perkins, Paper envelope, D. C., S. D. Calif. (Los Angeles), Doc. 2332-BH, *Perkins Products Co.* v. *Superior Macaroni Co.* Injunction Feb. 3, 1943.

2,109,678, N. A. Nelson, Contact switch for ball rolling games, D. C., N. D. Ill., E. Div., Doc. 4178, *Ace Patents Corp.* v. *Genco, Inc.* Patent held valid and infringed Nov. 4, 1942; filed Nov. 24, 1942, D. C., N. D. Ill., E. Div., Doc. 4876, *Ace Patents Corp.* v. *D. Gottlieb & Co.*

2,132,077, Lane & Hammer, Method of making blue-veined cheese, D. C., E. D. Wis. (Milwaukee), Doc. 588, *Iowa State College Research Foundation* v. *Tolibia Cheese Corp.* Claim 2 held valid and infringed; claim 3 held invalid Feb. 1, 1943.

2,132,399, H. Cooper, Leather cemented article, filed Feb. 10, 1943, D. C., S. D. N. Y., Doc. 20/349, *H. Cooper* v. *Sheepskin Lining Co., Inc.*

2,142,814. (See 2,143,931.)

2,143,931, J. I. Aronson, Sporting jacket; Re. 21,184 (of 2,142,814), A. R. Fitch, Garment, D. C., S. D. N. Y., Doc. 7/69, *Aronette Mfg. Co., Inc.*, v. *Adirondack Sportswear, Inc., et al.* Judgment favor defendant Jan. 23, 1942.

2,197,216, M. L. Kaufmann, Door hanger and fuel charging means for rotary furnaces, D. C., N. D. Ill., E. Div., Doc. 3074, *H. Lindenberger* v. *Interstate Smelting & Refining Co., Inc.* Dismissed without prejudice Oct. 13, 1942.

2,281,792, J. S. Ott, Toy airplane construction, D. C., N. D. Ill., E. Div., Doc. 4780, *Joe Ott Mfg. Co.* v. *Model Aircraft Co.* Dismissed for want of prosecution Dec. 14, 1942.

Re. 16,061, F. W. Thurston, Drill; Re. 17,557, same, Mining drill, C. C. A., 6th Cir., Doc. 9219, *Detachable Bit Co.* v. *Timken Roller Bearing Co.* Decree holding patents invalid affirmed Feb. 2, 1943.

Re. 17,557. (See Re. 16,061.)

Re. 21,184. (See 2,143,931.)

Des. 95,432, J. R. Jones, Food slicer, filed Jan. 11, 1943, D. C., W. D. Ark. (Texarkana), Doc. 133, *J. R. Jones* v. *C. L. Montgomery.*

Des. 120,081, S. Novak, Dress ensemble, D. C., N. D. Ill., E. Div., Doc. 1748, *Flora Dress Co.* v. *Winnie Winkle Dress Shop, Inc.* Dismissed on motion of plaintiff July 8, 1940.

Des. 120,179, S. Novak, Dress ensemble, D. C., N. D. Ill., E. Div., Doc. 1749, *Flora Dress Co.* v. *Wm. Paddor.* Dismissed on motion of plaintiff July 8, 1940.

Des. 132,576, B. Goldman, Embroidered fabric, D. C., S. D. N. Y., Doc. 19/102, *Oppenheimer, Feis Co.* v. *Central Lace & Fabrics Co.* Consent order of discontinuance (notice Feb. 8, 1943).

Des. 133,601, H. H. Stahl, Dress, D. C., S. D. N. Y., Doc. 19/253, *Highlight Fashions, Inc.*, v. *Roseweb Frocks, Inc.* Consent order of discontinuance (notice Feb. 2, 1942).

Des. 133,773, H. H. Stahl, Dress, D. C., S. D. N. Y., Doc. 19/400, *Highlight Fashions, Inc.*, v. *Roseweb Frocks, Inc.* Consent order of discontinuance (notice Feb. 2, 1943).

Des. 133,997, B. A. Mackey, Bank, D. C., N. D. Ill., E. Div., Doc. 4855, *B. A. Mackey* v. *Stern-Good Co., Inc., et al.* Consent decree holding patent valid and infringed Dec. 8, 1942.

Des. 134,440, A. Gershuny, Dress, filed Feb. 10, 1943, D. C., S. D. N. Y., Doc. 20/350, *Highlight Fashions, Inc.*, v. *Arcadia Dress Co.*

Des. 134,755, L. Decker, Dress, filed Feb. 11, 1943, D. C., S. D. N. Y., Doc. 20/353, *Richter & Decker, Inc.*, v. *Andora Frocks.*

T. M. 141,813, Taylor Instrument Co., Thermometers, compasses, urinalysis instruments, etc.; T. M. 313,523, same, Charts; T. M. 314,945, same, Altimeter, anerold barometers, etc., D. C., N. D. Ill., E. Div., Doc. 2639, *Taylor Instrument Co.* v. *Fawley-Brost Co.* Trade-marks held valid and infringed Jan. 8, 1943.

T. M. 165,182, Siemers-Marshall Electric Co., Electric lighting fixtures for show-cases; T. M. 219,550, Day-Brite Reflector Co., Electric lighting fixtures; T. M. 378,033, Day-Brite Lighting, Inc., Electric lighting fixtures, particularly fluorescent industrial fixtures, D. C., N. E. Ill., E. Div., Doc. 4567, *Day-Brite Lighting, Inc.*, v. *Daylike Lighting Co.* Dismissed on stipulation Oct. 29, 1942.

T. M. 219,550. (See T. M. 165,182.)

T. M. 313,523. (See T. M. 141,813.)

T. M. 314,945. (See T. M. 141,813.)

T. M. 368,528, Loma Linda Food Co., Beverage making compound, filed Oct. 28, 1942, D. C., N. D. Ill., E. Div., Doc. 4791, *Loma Linda Food Co.* v. *Sokol & Co., Inc., et al.*

T. M. 378,033. (See T. M. 165,182.)

T. M. 391,964, Associated Distributors, Inc., Lipstick, rouge, face powder, etc., D. C., N. D. Ill., E. Div. Doc. 3849, *Associated Distributors* v. *F. W. Woolworth Co.* Dismissed on motion of plaintiff Dec. 24, 1942.

T. M. 393,983, F. E. Williamson, An osmium base alloy, suit for declaratory judgment filed Jan. 29, 1943, D. C., N. D. Ill., E. Div., Doc. 43C75, *The Paraloy Co.* v. *Permo Products Corp.*

TRADE-MARKS

OFFICIAL GAZETTE, MARCH 23, 1943

[VOL. 548. No. 4]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 449,514. A & W BULB COMPANY, INC., Clearwater, Fla. Filed Dec. 16, 1941.



The drawing is lined for blue.

FOR CUT FLOWERS—NAMELY, GLADIOLUS, AND BULBS.

Claims use since May 20, 1941.

Ser. No. 457,330. CONSOLIDATION COAL COMPANY, New York, N. Y. Filed Dec. 11, 1942.



FOR COAL.

Claims use since Oct. 15, 1942.

CLASS 2

RECEPTACLES

Ser. No. 451,229. EASTERN TABLET CORPORATION, Albany, N. Y. Filed Feb. 26, 1942.

ECONOMY

FOR SANITARY PAPER DRINKING CUP.

Claims use since Jan. 15, 1921.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 449,850. BUDDY KIT CO., Los Angeles, Calif. Filed Dec. 30, 1941.

Buddy Kit

No claim is made to the word "Kit" apart from the mark.

FOR KITS FOR TOILET ARTICLES.

Claims use since Jan. 7, 1941.

Ser. No. 454,992. SECO LEATHER PRODUCTS COMPANY, West New York, N. J. Filed Aug. 19, 1942.

PASS-MASTER

Applicant is the owner of trade-mark registration No. 397,369.

FOR BILL FOLDS.

Claims use since February, 1940.

Ser. No. 458,223. GOLD SEAL IMPORTERS, INC., New York, N. Y. Filed Jan. 29, 1943.

Swirls

FOR LADIES' HANDBAGS.

Claims use since July, 1942.

CLASS 4

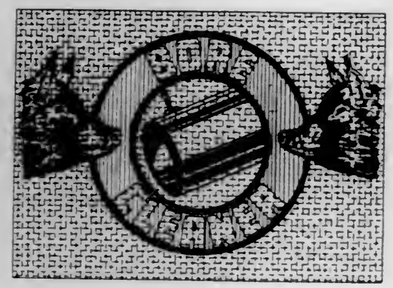
ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 457,615. F. RANIVILLE COMPANY, Grand Rapids, Mich. Filed Dec. 26, 1942.

LiXiT
Liquid
BELT DRESSING

The words "Liquid Belt Dressing" are disclaimed apart from the mark.
FOR BELT DRESSING.
Claims use since Sept. 15, 1942.

Ser. No. 457,653. KNORR-MAYNARD, INC., Detroit, Mich. Filed Dec. 30, 1942.



Applicant disclaims the words "Bore Cleaner" apart from the mark.
FOR CLEANING PREPARATION FOR THE METAL PARTS OF A GUN, INCLUDING THE GUN BORE.
Claims use since Nov. 5, 1942.

Ser. No. 457,791. THE DIVERSEY CORPORATION, Chicago, Ill. Filed Jan. 7, 1943.

STRIPTEX

FOR SOLUBLE CLEANING COMPOUND IN POWDERED FORM.
Claims use since Nov. 16, 1942.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 441,975. MEM INCORPORATED, New York, N. Y. Filed Mar. 26, 1941.

point vert

The drawing is lined for green.
FOR TOILET WATER, PERFUMES, EAU DE COLOGNE, SACHETS, AND BRILLIANTINE.
Claims use since 1924.

Ser. No. 445,389. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y. Filed July 16, 1941.

DK-20

FOR PHOTOGRAPHIC CHEMICALS—NAMELY, DEVELOPERS AND REPLENISHERS THEREFOR.
Claims use since Dec. 12, 1938.

Ser. No. 456,889. GEORGE F. HUTTER, doing business as George F. Hutter Company, Buffalo, N. Y. Filed Nov. 18, 1942.

Parfax

FOR PETROLEUM SOLVENT IN THE FORM OF A CHEMICAL PETROLEUM COMPOUND FOR REMOVING RUST FORMATIONS AND GUMMY DEPOSITS, RUST PREVENTING COMPOUND, A GASOLINE ADDITIVE, GASOLINE ADDITIVE AND BOOSTER, STARTING AID, IN THE FORM OF A CHEMICAL PETROLEUM COMPOUND FOR USE IN THE LUBRICATING OIL IN THE ENGINE CRANK CASE, INSECTICIDE, AND AUTO LAY-UP KITS (CONTAINING ONE OR MORE OF THE AFOREMENTIONED ARTICLES).
Claims use to petroleum solvent, and rust preventing compound since on or about Nov. 1, 1937; to gasoline additive, and gasoline additive and booster since about Nov. 1, 1938; to starting aid, and insecticide since about Nov. 1, 1940; and to the kit since about Nov. 1, 1941.

Ser. No. 457,079. GENERAL PAINT & VARNISH CO., doing business as Kwikote Products, Chicago, Ill. Filed Nov. 27, 1942.

KWIKSOL

FOR FUEL OIL CONDITIONER ACTING AS A NON-CORROSIVE SOLVENT WHICH DISSOLVES CARBON AND GUM DEPOSITS.
Claims use since July, 1942.

Ser. No. 457,396. THE WM. S. MERRELL COMPANY, Cincinnati, Ohio. Filed Dec. 14, 1942.

AMPROKAY

FOR PRODUCT USED TO PREVENT HEMORRHAGE.
Claims use since Nov. 19, 1942.

Ser. No. 457,397. THE WM. S. MERRELL COMPANY, Cincinnati, Ohio. Filed Dec. 14, 1942.

CALVIDRON

FOR PRODUCT TO SUPPLY SUPPLEMENTARY CALCIUM, PHOSPHORUS, IRON, AND VITAMIN D.
Claims use since Nov. 19, 1942.

Ser. No. 457,398. THE WM. S. MERRELL COMPANY, Cincinnati, Ohio. Filed Dec. 14, 1942.

VONEDRIN

FOR PRODUCT USED TO RELIEVE TRANSIENT NASAL CONGESTION THROUGH LOCAL APPLICATION.
Claims use since Nov. 19, 1942.

Ser. No. 457,399. THE WM. S. MERRELL COMPANY, Cincinnati, Ohio. Filed Dec. 14, 1942.

MENDIOSOL

FOR PRODUCT USED TO PREVENT HEMORRHAGE.
Claims use since Nov. 19, 1942.

Ser. No. 457,401. THE WM. S. MERRELL COMPANY, Cincinnati, Ohio. Filed Dec. 14, 1942.

BI-KETOLAN

FOR PRODUCT USED TO INCREASE THE FLOW OF BILE.
Claims use since Nov. 19, 1942.

Ser. No. 457,402. THE WM. S. MERRELL COMPANY, Cincinnati, Ohio. Filed Dec. 14, 1942.

URALANUM

FOR PRODUCT FOR LOCAL APPLICATION TO EFFECT GRANULATION AND HEALING.
Claims use since Nov. 19, 1942.

Ser. No. 457,664. STEIN, HALL MANUFACTURING COMPANY, Chicago, Ill. Filed Dec. 30, 1942.

M I

FOR COMPOSITION FOR RETARDING AND INHIBITING THE GROWTH AND DEVELOPMENT OF MOLD IN FOODS AND FOR PRESERVING OTHER PRODUCTS SUSCEPTIBLE TO THE GROWTH OF MOLD SOLD IN THE FORM OF A POWDER PREPARATION.
Claims use since Nov. 27, 1941.

Ser. No. 457,683. THE WM. S. MERRELL COMPANY, Cincinnati, Ohio. Filed Dec. 31, 1942.

INFA-CONCEMIN

FOR B VITAMINS.
Claims use since Oct. 8, 1942.

Ser. No. 457,922. PREMO PHARMACEUTICAL LABORATORIES, INC., New York, N. Y. Filed Jan. 14, 1943.

TECAL

FOR PHARMACEUTICAL PREPARATION OF THEOBROMINE CALCIUM SALICYLATE FOR USE AS A DIURETIC AND IN CIRCULATORY DISORDERS INVOLVING HYPER TENSION.
Claims use since June 1, 1942.

Ser. No. 457,931. THE DENVER CHEMICAL MANUFACTURING COMPANY, New York, N. Y. Filed Jan. 15, 1943.

"AUNTY FLO"

FOR MEDICINAL PREPARATION POSSESSING HEALING PROPERTIES AND BEING A HEALING PREPARATION FOR INJURIES AND ACUTE AND CHRONIC INFLAMMATORY AFFECTIONS.
Claims use since Jan. 5, 1943.

Ser. No. 458,302. CARTER PRODUCTS, INC., New York, N. Y. Filed Feb. 2, 1943.

CARTREX

FOR LAXATIVE.
Claims use since Jan. 23, 1943.

Ser. No. 458,338. PRODUCTS CORPORATION OF AMERICA, Chicago, Ill., and St. Louis, Mo. Filed Feb. 4, 1943.

VITAPRO

FOR WHEAT GERM OIL CAPSULES, HALIBUT LIVER OIL CAPSULES, AND VITAMIN CAPSULES.
Claims use since Oct. 15, 1940.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 456,508. MASONITE CORPORATION, Chicago, Ill. Filed Oct. 29, 1942.

CENTURY OF PROGRESS FLOORING

No claim is made to the word "Flooring" apart from the mark.
FOR HARD-SURFACED LIGNO-CELLULOSE COMPOSITION FLOORING.
Claims use since Jan. 1, 1934.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 457,753. THE WOOSTER BRASS COMPANY, Wooster, Ohio. Filed Jan. 4, 1943.

SKI-LUG

The word "Lug" is disclaimed apart from the mark.
FOR FIRE HOSE COUPLINGS.
Claims use since Dec. 11, 1942.

Ser. No. 458,069. LOUIS GURRIERI, doing business as L. Gurrieri Co., New York, N. Y. Filed Jan. 21, 1943.

COOKIE JIFFY ROLLER

No claim is made to the words "Cookie" and "Roller" apart from the mark.
FOR COOKIE ROLLING PINS.
Claims use since June, 1940.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 455,544. REPUBLIC STEEL CORPORATION, Cleveland, Ohio. Filed Sept. 15, 1942.

ELECTRO ZINCBOND

Applicant is owner of Reg. No. 395,814.
FOR FERROUS METAL SHEET, STRIP, AND PLATE.
Claims use since June 2, 1942.

Ser. No. 456,419. A. FINKL & SONS COMPANY, Chicago, Ill. Filed Oct. 26, 1942.

DURODI

FOR STEEL USED FOR DIE BLOCKS AND INSERTS IN DROP HAMMERS AND FORGING PRESSES; STEEL USED FOR FORGING MACHINE AND UPSETTING MACHINE DIES, PUNCHES, HEADERS AND GRIPPERS; STEEL USED FOR DIES USED IN HOT OR COLD STAMPING AND COINING; AND STEEL USED FOR HOT AND COLD FORMING ROLLS, BACKUP ROLLS AND STRAIGHTENING ROLLS.
Claims use since Apr. 5, 1921.

CLASS 15

OILS AND GREASES

Ser. No. 449,775. THE NATIONAL REFINING COMPANY, Cleveland, Ohio. Filed Dec. 26, 1941.

NATIONAL
EN-AR-CO
C1

FOR LUBRICATING OIL.
Claims use since January, 1941.

Ser. No. 457,745. PHILLIPS PETROLEUM COMPANY, Bartlesville, Okla. Filed Jan. 4, 1943.

ISO VERSION
GASOLINE

The word "Gasoline" is disclaimed apart from the mark.
FOR GASOLINE.
Claims use since Dec. 5, 1942.

Ser. No. 458,009. COLONIAL BEACON OIL COMPANY, Boston, Mass. Filed Jan. 19, 1943.

Colonial

FOR REFINED, SEMIREFINED, AND UNREFINED OILS MADE FROM PETROLEUM, BOTH WITH AND WITHOUT ADMIXTURE OF ANIMAL, VEGETABLE, OR MINERAL OILS, FOR ILLUMINATING, BURNING, POWER, FUEL, AND LUBRICATING PURPOSES, AND LUBRICATING GREASES.
Claims use since Jan. 1, 1904.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 453,946. PONTIAC VARNISH COMPANY, Pontiac, Mich. Filed June 29, 1942.

PONTIAC

FOR PAINTS IN READY MIXED FORM, PAINT ENAMELS, VARNISHES, AND LACQUERS IN READY MIXED FORM.
Claims use since 1902.

Ser. No. 457,880. MASURY-YOUNG COMPANY, Charlestown, Boston, Mass. Filed Jan. 12, 1943.

TRAZSEAL

FOR LIQUID FLOOR SEALING COMPOUND IN THE NATURE OF A VARNISH.
Claims use since Sept. 27, 1940.

CLASS 19

VEHICLES, NOT INCLUDING ENGINES

Ser. No. 455,645. CONSOLIDATED AIRCRAFT CORPORATION, San Diego, Calif. Filed Sept. 21, 1942.



The representation of the goods is disclaimed apart from the mark.
FOR AIRPLANES.
Claims use since July 22, 1942.

Ser. No. 457,488. YARD-MAN, INC., Jackson, Mich. Filed Dec. 17, 1942.

truck-man

"Truck" is disclaimed apart from the mark.
FOR COMMERCIAL LIFT TRUCKS.
Claims use since Sept. 3, 1942.

Ser. No. 457,669. AERONCA AIRCRAFT CORPORATION, Middletown, Ohio. Filed Dec. 31, 1942.



No claim is made to the words "First" and "Finest" apart from the mark.
FOR AIRPLANES.
Claims use since Nov. 19, 1942.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 440,755. PHILLIPS PETROLEUM COMPANY, Bartlesville, Okla. Filed Feb. 18, 1941.

Phillips
UNIQUE

The word "Phillips" is disclaimed apart from the mark.
FOR STORAGE BATTERIES.
Claims use since Oct. 23, 1940.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 452,671. E. S. LOWE COMPANY, INC., New York, N. Y. Filed Apr. 29, 1942.

BINGO

Applicant disclaims the word "Bingo" apart from the mark.
FOR BINGO CARDS AND PADS.
Claims use since Feb. 16, 1942.

Ser. No. 457,719. CHICAGO MUSICAL INSTRUMENT CO., Chicago, Ill. Filed Jan. 2, 1943.

Cataplane

FOR TOY PRESSURE-PROPELLED AIRPLANES.
Claims use since Nov. 5, 1942.

Ser. No. 458,144. ARRCO PLAYING CARD CO., Chicago, Ill. Filed Jan. 25, 1943.

CLUB RENO

Applicant disclaims the word "Reno" apart from the mark.
FOR PLAYING CARDS.
Claims use since October, 1939.

Ser. No. 458,229. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Jan. 29, 1943.

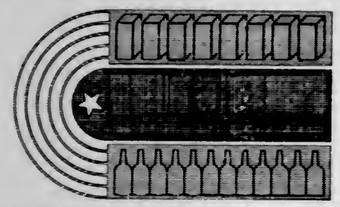
Dorable

FOR DOLLS.
Claims use since November, 1940.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 411,613. PNEUMATIC SCALE CORPORATION, LIMITED, Norfolk Downs, Mass. Filed Oct. 14, 1938.



FOR PACKAGING AND BOTTLING EQUIPMENT.
Claims use since Sept. 1, 1937.

Ser. No. 433,362. THE RUTHMAN MACHINERY COMPANY, Cincinnati, Ohio. Filed June 25, 1940.



Applicant disclaims the words "Coolant Pump Cincinnati, Ohio."
FOR PUMPS, SPECIFICALLY MOTOR DRIVEN AND BELT DRIVEN CENTRIFUGAL PUMPS.
Claims use since June 3, 1925.

Ser. No. 453,801. WALTER HOWEY, doing business as International Research Laboratory, New York, N. Y. Filed June 22, 1942.

HYPER CHARGER

The word "Charger" is disclaimed apart from the mark.
FOR AUTOMOBILE GAS ENGINE FUEL MIXING DEVICE.
Claims use since May 25, 1942.

Ser. No. 455,807. STEEL PRODUCTS CORPORATION, South Windham, Maine. Filed Sept. 26, 1942.



FOR TACKLE BLOCKS AND PARTS THEREOF.
Claims use since Sept. 16, 1942.

Ser. No. 458,245. THE NATIONAL ALUMINUM CYLINDER HEAD COMPANY, Cleveland, Ohio. Filed Jan. 30, 1943.
No claim is made to the representation of a cylinder head apart from the mark.



FOR CYLINDER HEADS.
Claims use since Oct. 10, 1942.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 456,645. WELMAID PRODUCTS, Chicago, Ill. Filed Nov. 4, 1942.

ZEPHYR

FOR IRONING TABLE PADS AND COVERS.
Claims use since Jan. 13, 1940.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 456,820. COMET MODEL AIRPLANE & SUPPLY COMPANY, INCORPORATED, Chicago, Ill. Filed Nov. 14, 1942.

Air-o-Trainer

FOR MODEL AIRPLANES—NAMELY, MINIATURE AIRPLANES FOR CLASSROOM INSTRUCTION WORK.
Claims use since Sept. 10, 1942.

Ser. No. 457,062. THE ELECTRIC STORAGE BATTERY COMPANY, Philadelphia, Pa. Filed Nov. 26, 1942.

"MINUTE-MAN"

FOR TESTING AND COMBINED CHARGING AND TESTING APPARATUS FOR STORAGE BATTERIES.
Claims use since June, 1937.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 457,561. FABRIQUE DE MONTRES STUDIO, S. A., La Chaux-de-Fonds, Switzerland. Filed Dec. 22, 1942.

STUDIO

FOR WATCHES, WATCH MOVEMENTS AND PARTS THEREOF.
Claims use since Mar. 11, 1903.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 451,673. ALBERT P. DE SANNO, JR., Phoenixville, Pa. Filed Mar. 17, 1942.

FRIGAFOOD

FOR MECHANICAL AND ELECTRICAL REFRIGERATING FREEZERS FOR PREPARING QUICK FROZEN OR FROSTED FOODS, SUCH AS FRUITS, VEGETABLES AND MEATS.
Claims use since Feb. 9, 1941.

Ser. No. 458,366. ICELESS COOLER CORPORATION, New York, N. Y. Filed Feb. 6, 1943.



FOR ELECTRICALLY OPERATED WATER COOLERS.
Claims use since October, 1930.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 458,227. ROYAL BEDDING COMPANY, St. Louis, Mo. Filed Jan. 29, 1943.

MAGIC SLEEP

FOR MATTRESSES AND SPRING FOUNDATIONS THEREFOR.
Claims use since Apr. 15, 1933.

CLASS 37

PAPER AND STATIONERY

Ser. No. 455,473. FREDERIC T. BURKHARDT, Holyoke, Mass. Filed Sept. 11, 1942.

Stratosphere

FOR WRITING AND PRINTING PAPER.
Claims use since June 23, 1942.

Ser. No. 457,427. WALKER-GOULARD-PLEHN COMPANY, INC., New York, N. Y. Filed Dec. 15, 1942.

COMO-FLEX

FOR PAPER-BOARD, CARDBOARD, AND WRITING PAPER, WRAPPING PAPER, AND PRINTING PAPER.
Claims use since Apr. 13, 1942.

Ser. No. 457,533. AGENCY PAPER COMPANY, New York, N. Y. Filed Dec. 21, 1942.

Sky-Lane

FOR AIR-MAIL PAPER, AIR-MAIL ENVELOPES, PRINTING PAPER, MAILING ENVELOPES, AND WRITING PAPER, TABLETS, AND DUPLICATION PAPERS.
Claims use since Nov. 13, 1940.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 448,621. RADIO CORPORATION OF AMERICA, New York, N. Y. Filed Nov. 13, 1941.

RADIO AGE

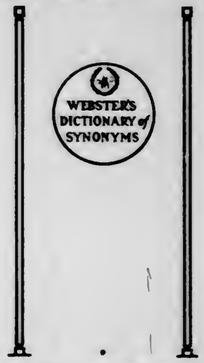
Applicant disclaims the word "Radio" apart from the mark.
FOR MAGAZINE PUBLISHED QUARTERLY.
Claims use since Oct. 26, 1941.

Ser. No. 450,403. PHILCO CORPORATION, Philadelphia, Pa. Filed Jan. 22, 1942.

PHILCO

FOR SERVICE MANUALS PUBLISHED FROM TIME TO TIME.
Claims use since 1932.

Ser. No. 457,628. G. & C. MERRIAM COMPANY, Springfield, Mass. Filed Dec. 28, 1942.



Applicant is the owner of Reg. Nos. 59,130 and 59,189, both of which are effected under the 10-year proviso of the act of February 20, 1905. No claim is made to the words "Dictionary of Synonyms" except as shown.
FOR BOOKS—NAMELY, DICTIONARIES.
Claims use since Aug. 20, 1942.

Ser. No. 458,101. KING FEATURES SYNDICATE, INC., New York, N. Y. Filed Jan. 22, 1943.

JUNIOR MISCHIEFS

FOR NEWSPAPER SECTION OR DEPARTMENT.
Claims use since Nov. 30, 1942.

Ser. No. 458,215. YOUTHS ASSOCIATES CO., Minneapolis, Minn. Filed Jan. 28, 1943.

Mine

FOR PERIODICAL.
Claims use since August, 1942.

CLASS 39

CLOTHING

Ser. No. 457,560. ALPHA MILLS, Schuylkill Haven, Pa. Filed Dec. 22, 1942.

Kidettes

FOR CHILDREN'S SWEATERS, TWO-PIECE ROMPER SUITS, PANTS AND CREEPERS.
Claims use since Nov. 17, 1942.

Ser. No. 457,853. SAMUEL A. GOLDBERG, Chicago, Ill. Filed Jan. 11, 1943.

GOLD MAID PRODUCTS

Applicant is the owner of trade-mark registration No. 171,241. The word "Products" is disclaimed apart from the mark.
FOR SWEATERS AND HOSIERY.
Claims use since Mar. 4, 1942.

Ser. No. 458,050. SAMUEL O. STONE, JR., doing business as Hos-O-Mat, Concord, N. C. Filed Jan. 20, 1943.

HOS-O-MAT

Applicant disclaims the word "Hos" except as shown.
FOR LADIES' AND MEN'S HOSIERY.
Claims use since Jan. 14, 1943.

Ser. No. 458,063. DAVIDOW, INC., New York, N. Y. Filed Jan. 21, 1943.

DAVENTREE

FOR LADIES' AND MISSES' SUITS, JACKETS, SKIRTS, DRESSES, COATS, DRESS ENSEMBLES, AND BLOUSES.
Claims use since August, 1932.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 457,945. THE BIKE WEB COMPANY, Chicago, Ill. Filed Jan. 16, 1943.

BIKE

FOR ABSORBENT COTTON, GAUZE, GAUZE BANDAGES, DRESSING PADS, OR COMPRESSES AND ADHESIVE TAPE.
Claims use since Mar. 6, 1936, on adhesive tape; and since Oct. 16, 1942, on the other goods.

Ser. No. 457,984. MEDICAL FABRICS, INC., Newark, N. J. Filed Jan. 18, 1943.

MED

FOR ELASTIC COTTON BANDAGES.
Claims use since June, 1942.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 455,072. HARDING & LEGGETT, Orange Cove, Calif. Filed Aug. 24, 1942.

DIAMOND Mountain

FOR FRESH CITRUS FRUITS, FRESH PEACHES, FRESH PLUMS, FRESH GRAPES, AND FRESH TOMATOES.
Claims use since Nov. 15, 1935.

Ser. No. 455,254. DEER PARK BAKING CO., Chicago, Ill. Filed Sept. 2, 1942.

NODS

FOR COOKIES OF VARIOUS TYPES AND SHAPES.
Claims use since Feb. 1, 1942.

Ser. No. 455,872. RECORG SUPPLY CORPORATION, Chicago, Ill. Filed Sept. 30, 1942.

SUBCO

FOR PREPARATION OF COFFEE, BARLEY, AND CHICORY FOR USE AS A TABLE BEVERAGE.
Claims use since Aug. 20, 1942.

Ser. No. 457,529. NORTHWESTERN YEAST COMPANY, Chicago, Ill. Filed Dec. 19, 1942.

YEAST FOAM

The word "Yeast" is disclaimed apart from the mark. The drawing is lined for yellow, red, and blue.
FOR YEAST.
Claims use since Aug. 17, 1942, on mark shown; however, a slightly modified form including the words "Yeast Foam" has been used since May 18, 1879.

Ser. No. 457,734. THE ATLANTIC SUPPLY COMPANY, Baltimore, Md. Filed Jan. 4, 1943.

FERM-E-SOL

FOR FEEDS FOR LIVESTOCK AND POULTRY--NAMELY, CONDENSED DISTILLERS' SOLUBLES.
Claims use since July 17, 1942.

Ser. No. 457,839. OMAR INCORPORATED, Omaha, Nebr. Filed Jan. 9, 1943.

RANCH HOUSE

FOR PANCAKE FLOUR.
Claims use since Oct. 1, 1942.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

MARCH 23, 1943

400,580. FOOD DRINKS AND PRODUCTS FOR MAKING THE SAME—NAMELY, TOMATO COCKTAIL, GRAPEFRUIT COCKTAIL, CONCENTRATED TOMATO JUICE (TOMATO PASTE), AND CONCENTRATED GRAPEFRUIT JUICE. BIRELEY'S INC., Hollywood, Calif.

Filed May 8, 1939. Serial No. 419,173. PUBLISHED JANUARY 12, 1943. Class 46.

400,581. PNEUMATIC TIRES AND TUBES FOR VEHICLE WHEELS. THE PHARIS TIRE AND RUBBER COMPANY, Newark, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware.

Filed April 5, 1941. Serial No. 442,329. PUBLISHED MAY 27, 1941. Class 35.

400,582. PIECE GOODS OF COTTON, RAYON, WOOL, WORSTED, SILK OR LINEN, OR OF ADMIXTURES OF ANY OF THESE MATERIALS. JAMES HALSTEAD LIMITED, Manchester, England.

Filed June 10, 1941. Serial No. 444,375. PUBLISHED JANUARY 12, 1943. Class 42.

400,583. FISH FOODS, TURTLE AND NEWT FOOD. ROBERT C. DOLLE, doing business as Lakeview Aquatic Farms, Cincinnati, Ohio.

Filed June 27, 1941. Serial No. 444,900. PUBLISHED DECEMBER 2, 1941. Class 46.

400,584. PIECE GOODS FOR DRESSES AND SUITS OF COTTON, LINEN, RAYON, WOOL, AND MIXTURES OF THESE FIBRES, NOT INCLUDING BUNTING. THE UNITED STATES FINISHING COMPANY, Norwich, Conn.

Filed July 22, 1941. Serial No. 445,565. PUBLISHED SEPTEMBER 8, 1942. Class 42.

400,585. FRESH CITRUS FRUIT. GEORGE ZANINOVICH, doing business as Zaninovich Bros., Dinuba, Calif.

Filed September 6, 1941. Serial No. 446,849. PUBLISHED JUNE 16, 1942. Class 46.

400,586. FRESH FRUITS—NAMELY, FRESH GRAPES. GEORGE BROTHERS, Dinuba, Calif.

Filed September 19, 1941. Serial No. 447,183. PUBLISHED DECEMBER 2, 1941. Class 46.

400,587. CHILDREN'S WEARING APPAREL—NAMELY, HATS, COATS, DRESSES, COTTON SUITS, JACKETS, OUTER SKIRTS, OUTER SHIRTS, OUTER SHORTS, SWEATERS, SNOW SUITS, PLAY SUITS, AND BATHING SUITS. ABRAHAM & STRAUS, INC., Brooklyn, N. Y.

Filed October 8, 1941. Serial No. 447,605. PUBLISHED DECEMBER 29, 1942. Class 39.

400,588. DEVICES FOR PRODUCING AND SUPERIMPOSING A CARRIER WAVE IONIZING CURRENT OF HIGH OSCILLATION VALUE OVER THE REGULAR A. C. OR D. C. WELDING AMPERAGE OUTPUT OF A. C. OR D. C. WELDERS, ETC. MARSHALL BEYMER, doing business as The A—C—Devices Company, Chicago, Ill.

Filed November 3, 1941. Serial No. 448,355. PUBLISHED JANUARY 12, 1943. Class 21.

400,589. MEN'S DRESS SHIRTS AND OUTER SHIRTS, TENNIS SHORTS, BATHING SHORTS, AND UNDERSHORTS, LEATHER AND FABRIC GLOVES, ETC. COLUMBIA CLOTHING COMPANY, Duluth, Minn.

Filed November 13, 1941. Serial No. 448,602. PUBLISHED JANUARY 12, 1943. Class 39.

400,590. SAFETY RAZORS. GILLETTE SAFETY RAZOR COMPANY, Boston, Mass.

Filed November 17, 1941. Serial No. 448,694. PUBLISHED JANUARY 5, 1943. Class 23.

400,591. PIECE GOODS—NAMELY, GRILLE CLOTH OF COTTON, RAYON, AND COMBINATIONS THEREOF. PHILCO CORPORATION, Philadelphia, Pa.

Filed December 3, 1941. Serial No. 449,155. PUBLISHED JANUARY 12, 1943. Class 42.

400,592. LECITHIN AND LECITHIN CONTAINING COMPOUNDS. NEUBERG CHEMICAL CORPORATION, New York, N. Y., now by change of name Enco Chemical Corporation.

Filed December 15, 1941. Serial No. 449,498. PUBLISHED MARCH 10, 1942. Class 6.

400,593. PINCUSHION. BASSONS, also doing business as Bassons Dummy Display Products, Maspeth, Long Island, N. Y.

Filed December 31, 1941. Serial No. 449,881. PUBLISHED DECEMBER 29, 1942. Class 40.

400,594. COTTON, RAYON, WOOL, SPUN RAYON, AND SILK PIECE GOODS. STERLING TEXTILE PRINTERS INC., New York, N. Y.

Filed February 28, 1942. Serial No. 451,323. PUBLISHED DECEMBER 29, 1942. Class 42.

400,595. INSECTICIDE DUST. NACO FERTILIZER COMPANY, New York, N. Y.

Filed March 30, 1942. Serial No. 452,022. PUBLISHED JUNE 16, 1942. Class 6.

400,596. INSECTICIDE DUST. NACO FERTILIZER COMPANY, New York, N. Y.

Filed March 30, 1942. Serial No. 452,023. PUBLISHED JUNE 16, 1942. Class 6.

400,597. WASHING POWDER. GEORGE B. MALLORY, doing business as Soap-Eater Co. of America, Albuquerque, N. Mex.

Filed April 7, 1942. Serial No. 452,195. PUBLISHED JANUARY 12, 1943. Class 4.

400,598. CHEMICAL, SCIENTIFIC, AND LABORATORY GLASSWARE, ETC. GLASCO PRODUCTS COMPANY, Chicago, Ill.

Filed April 3, 1942. Serial No. 452,232. PUBLISHED JANUARY 12, 1943. Class 26.

400,599. COMPOSITION COMPRISING SALT, BICARBONATE OF SODA, RENNIN AND COLORING IN TABLET OR POWDERED FORM FOR USE WITH MILK AND BUTTER OR OLEOMARGARINE TO PRODUCE A SPREAD. WILLIAM P. RYAN, doing business as Double Mix Company, Kansas City, Mo., assignor to Double-Mix, Inc., Kansas City, Mo., a corporation of Missouri.

Filed April 27, 1942. Serial No. 452,623. PUBLISHED JANUARY 12, 1943. Class 6.

400,600. SOY BEAN SAUCE. COAST FOOD PRODUCTS, INC., Seattle, Wash.

Filed May 2, 1942. Serial No. 452,742. PUBLISHED JANUARY 12, 1943. Class 46.

400,601. PREPARATION FOR TREATING WOUNDS AND SORES EXPEDITING THE HEALING THEREOF. RICHARD SIMON, doing business as Medina Medical Co., Chicago, Ill.

Filed May 7, 1942. Serial No. 452,871. PUBLISHED JANUARY 12, 1943. Class 6.

400,602. WRAPS OF LAMINATED TRANSPARENT MATERIAL. SHELLMAR PRODUCTS COMPANY, Mount Vernon, Ohio.

Filed May 15, 1942. Serial No. 453,044. PUBLISHED JANUARY 12, 1943. Class 37.

400,603. PUTTY KNIVES, SPORTSMEN'S KNIVES, HUNTING KNIVES, PARING KNIVES, POCKET KNIVES, KEY CHAIN KNIVES AND KITCHEN CUTLERY SETS. THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio.

Filed May 19, 1942. Serial No. 453,104. PUBLISHED JANUARY 5, 1943. Class 23.

400,604. PIECE GOODS MADE OF COTTON, RAYON, PROTEIN FIBERS, AND MIXTURES THEREOF. AMOSKEAG-LAWRENCE MILLS, INC., Manchester, N. H.

Filed May 29, 1942. Serial No. 453,353. PUBLISHED OCTOBER 13, 1942. Class 42.

400,605. EXTRACT USED IN TANNING LEATHER. SAXE RUSHWORTH CO. INC., New York, N. Y.

Filed June 10, 1942. Serial No. 453,586. PUBLISHED JANUARY 5, 1943. Class 6.

400,606. NONALCOHOLIC, MALTLESS CARBONATED BEVERAGE AND SYRUP FOR MAKING THE SAME. BROWN BOY BOTTLING COMPANY, INC., Atlanta, Ga.

Filed June 18, 1942. Serial No. 453,729. PUBLISHED AUGUST 4, 1942. Class 45.

400,607. GIRDLES, CORSETS, BRASSIÈRES, AND GARTER BELTS. VIVETTE FOUNDATIONS, INC., New York, N. Y.

Filed June 19, 1942. Serial No. 453,764. PUBLISHED JANUARY 5, 1943. Class 39.

400,608. PIECE GOODS MADE OF MIXTURES OF RAYON AND COTTON. HEGO FABRICS, INC., New York, N. Y.

Filed July 4, 1942. Serial No. 454,055. PUBLISHED JANUARY 12, 1943. Class 42.

400,609. HOUSEHOLD FURNITURE—NAMELY, LIVING ROOM FURNITURE, STUFFED AND OTHERWISE, ETC. STRAUS & SCHRAM, Chicago, Ill.

Filed July 10, 1942. Serial No. 454,154. PUBLISHED JANUARY 12, 1943. Class 32.

400,610. SHAWL USED AS A SHAWL OR AS A HOOD. THE KENTUCKY LOOMS, INC., Louisville, Ky.

Filed July 15, 1942. Serial No. 454,232. PUBLISHED DECEMBER 29, 1942. Class 39.

400,611. ADHESIVE CEMENT AND ADHESIVE CEMENT THINNER FOR SHOES. CATARACT CHEMICAL COMPANY, INC., Buffalo, N. Y.

Filed July 18, 1942. Serial No. 454,300. PUBLISHED JANUARY 12, 1943. Class 5.

400,612. BURIAL CASKETS. THE CRANE & BREED CASKET COMPANY, Cincinnati, Ohio.

Filed July 20, 1942. Serial No. 454,329. PUBLISHED JANUARY 12, 1943. Class 2.

400,613. PIECE GOODS OF WOOL, WORSTED, HAIR, COTTON, SILK, RAYON, NYLON, LINEN OR HEMP, OR MIXTURES OF THESE MATERIALS. S. H. RAWNSLEY LIMITED, Wilsden, Bradford, Yorkshire, England.

Filed July 22, 1942. Serial No. 454,434. PUBLISHED JANUARY 12, 1943. Class 42.

400,614. BLANKETS MADE OF COTTON, WOOL, OR SYNTHETIC FIBRE, AND ANY COMBINATION THEREOF. NASHUA MANUFACTURING COMPANY, Boston, Mass.

Filed July 23, 1942. Serial No. 454,453. PUBLISHED DECEMBER 29, 1942. Class 42.

400,615. VEGETABLE BINS. PHILCO CORPORATION, Philadelphia, Pa.

Filed July 30, 1942. Serial No. 454,607. PUBLISHED JANUARY 12, 1943. Class 2.

400,616. SILENT, SOUND, DIALOGUE, AND TALKING MOTION PICTURE FILMS. MOVIETONEWS, INC., New York, N. Y.

Filed July 31, 1942. Serial No. 454,641. PUBLISHED JANUARY 12, 1943. Class 26.

400,617. FABRICS MADE OF RAYON, CELLULOSE ACETATE RAYON, SILK, COTTON, WOOL, AND MIXTURES THEREOF IN THE PIECE. THE PAUL WHITIN MANUFACTURING COMPANY, Northbridge, Mass.

Filed August 6, 1942. Serial No. 454,771. PUBLISHED JANUARY 5, 1943. Class 42.

400,618. LADIES' AND MISSES' SHOES AND SLIPPERS MADE OF LEATHER, FABRIC, OR COMPOSITIONS OR COMBINATIONS THEREOF. SCHWARTZ & BENJAMIN INC., New York, N. Y.

Filed August 12, 1942. Serial No. 454,879. PUBLISHED JANUARY 12, 1943. Class 39.

400,619. RUGS AND CARPETS. JERSEY CARPET CORPORATION, Clifton, N. J.

Filed August 14, 1942. Serial No. 454,910. PUBLISHED DECEMBER 22, 1942. Class 42.

400,620. PIECE GOODS MADE WHOLLY OF THREAD OR YARN OF ARTIFICIAL ORIGIN, OR OF THREAD OR YARN OF ARTIFICIAL ORIGIN IN COMBINATION WITH NATURAL FIBERS SUCH AS WOOL, COTTON, SILK, LINEN, JUTE, SISAL, RAMIE, AND KAPOK. BURLINGTON MILLS CORPORATION, Greensboro, N. C.

Filed August 29, 1942. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 455,171. PUBLISHED DECEMBER 22, 1942. Class 42.

400,621. PRINTED TAGS, LABELS, FORMS, CARDS AND SHEETS FOR RECORDS, DATA, INSTRUCTIONS AND ATTACHMENT OF CONTENT SAMPLES TO CONTAINERS THEREOF AND LIKE INFORMATIVE USES, ALL OF WHICH HAVE A BLANK PORTION TO BE FILLED IN OR MARKED. FENWAL INCORPORATED, Ashland, Mass.

Filed Septemper 2, 1942. Serial No. 455,261. PUBLISHED JANUARY 12, 1943. Class 37.

400,622. HYDRAULIC POWER TRANSMISSION CIRCUITS AND PARTS THEREOF USED IN HYDRAULICALLY OPERATED MACHINES INCLUDING WELDING, FORCING, DRILLING, BENDING, STAMPING, PUNCHING, PIERCING, TESTING, DIE CASTING, PLASTIC AND RUBBER MOLDING MACHINES. HYDRAULIC MACHINERY, INC., Detroit, Mich.

Filed September 2, 1942. Serial No. 455,268. PUBLISHED JANUARY 5, 1943. Class 23.

400,623. TRANSPARENT PLASTIC WRAPPING FILM. THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio.

Filed September 4, 1942. Serial No. 455,336. PUBLISHED JANUARY 12, 1943. Class 37.

400,624. PHARMACEUTICAL OINTMENT WITH ANTISEPTIC PROPERTIES. JOHN H. WALLACE, JR., doing business as Wallace Laboratories, New Brunswick, N. J., assignor to Wallace Laboratories, Inc., New Brunswick, N. J., a corporation of Delaware.

Filed September 10, 1942. Serial No. 455,463. PUBLISHED JANUARY 5, 1943. Class 6.

400,625. MEN'S CLOTHING—NAMELY, OVERCOATS, RAIN COATS, WOOLEN AND WASH COATS, WOOLEN AND WASH TROUSERS, HATS AND CAPS. ED WHITE & SONS,, Yukon, Fla.

Filed September 21, 1942. Serial No. 455,686. PUBLISHED JANUARY 12, 1943. Class 39.

400,626. REEDS FOR WOOD-WIND MUSICAL INSTRUMENTS. REED CORPORATION OF AMERICA, Los Angeles, Calif.

Filed August 29, 1942. Serial No. 455,171. PUBLISHED JANUARY 12, 1943. Class 36.

400,627. BOWL COVERS AND ELECTRICAL APPLIANCE COVERS. SEAL-SAC, INC., New York, N. Y.

Filed September 30, 1942. Serial No. 455,875. PUBLISHED JANUARY 12, 1943. Class 50.

400,628. COMBINED SAND HOLDER AND SHOVEL. SAMUEL A. DE WALTOFF, doing business as Commando Shovel Co., New York, N. Y., assignor to Commando Shovel Company, Inc., New York, N. Y., a corporation of New York.
Filed October 1, 1942. Serial No. 455,886. PUBLISHED DECEMBER 29, 1942. Class 23.

400,629. MEDICINAL PREPARATION FOR USE IN THE TREATMENT OF IRRITATED TISSUES OF HEAD AND THROAT, SINUS, ASTHMA, HAY FEVER, CATARRH, AND HEAD COLDS. WILLIAM W. ABERNETHY, Gastonia, N. C.
Filed October 2, 1942. Serial No. 455,896. PUBLISHED JANUARY 12, 1943. Class 6.

400,630. SPORTS WEAR AND WEARING APPAREL FOR MEN, WOMEN, AND BOYS—NAMELY, GOLF JACKETS, RAIN COATS, SKI JACKETS, WINDBREAKERS, SKI PANTS, SPORT PANTS, SWIMMING TRUNKS, HATS, MACKINAWS, OVERCOATS, AND OUTER SHIRTS. MARCUS BREIER'S SONS, New York, N. Y.
Filed October 2, 1942. Serial No. 455,903. PUBLISHED JANUARY 12, 1943. Class 39.

400,631. LADIES', MEN'S, AND CHILDREN'S HOSIERY. M. GOODMAN & SON, New York, N. Y.
Filed October 2, 1942. Serial No. 455,914. PUBLISHED DECEMBER 22, 1942. Class 39.

400,632. PIECE GOODS OF COTTON, RAYON, AND SILK, AND/OR MIXTURES THEREOF. FOREMAN FABRICS, INC., New York, N. Y.
Filed October 5, 1942. Serial No. 455,972. PUBLISHED DECEMBER 29, 1942. Class 42.

400,633. TEXTILE FABRICS CONSISTING OF RAYON PIECE GOODS. ALAN FABRICS CORPORATION, New York, N. Y.
Filed October 6, 1942. Serial No. 455,993. PUBLISHED DECEMBER 29, 1942. Class 42.

400,634. FABRICS IN THE PIECE MADE OF RAYON. PONDEL FABRICS, INC., Pawtucket, R. I.
Filed October 7, 1942. Serial No. 456,031. PUBLISHED DECEMBER 29, 1942. Class 42.

400,635. FABRICS IN THE PIECE MADE OF RAYON. PONDEL FABRICS, INC., Pawtucket, R. I.
Filed October 7, 1942. Serial No. 456,044. PUBLISHED DECEMBER 29, 1942. Class 42.

400,636. FABRICS IN THE PIECE MADE OF RAYON. PONDEL FABRICS, INC., Pawtucket, R. I.
Filed October 7, 1942. Serial No. 456,045. PUBLISHED DECEMBER 29, 1942. Class 42.

400,637. FABRICS IN THE PIECE MADE OF RAYON. PONDEL FABRICS, INC., Pawtucket, R. I.
Filed October 7, 1942. Serial No. 456,047. PUBLISHED DECEMBER 29, 1942. Class 42.

400,638. TEXTILE FABRICS IN THE PIECE, OF COTTON, RAYON, WOOL, AND COMBINATIONS THEREOF. SHIRLEY FABRICS CORPORATION, New York, N. Y.
Filed October 8, 1942. Serial No. 456,084. PUBLISHED JANUARY 5, 1943. Class 42.

400,639. PIECE GOODS OF RAYONS AND WOOLENS. COHN-HALL-MARX CO., New York, N. Y.
Filed OCTOBER 9, 1942. Serial No. 456,096. PUBLISHED DECEMBER 22, 1942. Class 42.

400,640. PHONOGRAPH RECORDS AND VOICE RECORDING AND REPRODUCING MACHINES. INTERNATIONAL MUTOSCOPE REEL CO. INC., Long Island City, N. Y.
Filed October 10, 1942. Serial No. 456,123. PUBLISHED JANUARY 12, 1943. Class 36.

400,641. BUTTON AND BUTTONHOLE TAPE. VICTORY PLACKET CO., New York, N. Y.
Filed October 10, 1942. Serial No. 456,134. PUBLISHED DECEMBER 29, 1942. Class 40.

400,642. TEXTILE MACHINE PARTS—NAMELY, BUNTERS, BUMPERS, HOLD-UPS, APRONS, COTS, ROLL COVERS, AND PICKERS MADE OF RUBBER COMPOSITIONS AND LIKE MATERIALS. THE DAYTON RUBBER MANUFACTURING COMPANY, Dayton, Ohio.
Filed October 16, 1942. Serial No. 456,236. PUBLISHED DECEMBER 29, 1942. Class 23.

400,643. CIGARS. MARTA CIGAR COMPANY, New York, N. Y.
Filed October 16, 1942. Serial No. 456,242. PUBLISHED JANUARY 12, 1943. Class 17.

400,644. WOMEN'S COATS, JACKETS, MUFFS, NECKPIECES, BOLEROS, CAPES, AND STOLES MADE IN WHOLE OR IN PARTS OF MONKEY SKINS. GOLDBERG-HELD, New York, N. Y.
Filed October 20, 1942. Serial No. 456,284. PUBLISHED JANUARY 5, 1943. Class 39.

400,645. MEN'S, WOMEN'S, AND CHILDREN'S BOOTS, SHOES, AND SLIPPERS MADE WHOLLY OR IN PART OF LEATHER, RUBBER, FELT, OR TEXTILE MATERIAL. W. L. DOUGLAS SHOE CO., Brockton, Mass.
Filed October 21, 1942. Serial No. 456,308. PUBLISHED JANUARY 12, 1943. Class 39.

400,646. FRESH GRAPES. MINNIE ZANINOVICH, doing business as Antone Zaninovich & Sons, Orange Cove, Calif.
Filed October 21, 1942. Serial No. 456,329. PUBLISHED JANUARY 12, 1943. Class 46.

400,647. CIGARS, CIGARETTES, AND SMOKING TOBACCO. H. ANTON BOCK CO., INC., New York, N. Y.
Filed October 22, 1942. Serial No. 456,332. PUBLISHED JANUARY 12, 1943. Class 17.

400,648. LEATHER AND FABRIC GLOVES. WIMELBACHER & RICE, New York, N. Y.
Filed October 22, 1942. Serial No. 456,352. PUBLISHED JANUARY 12, 1943. Class 39.

400,649. READY MIXED PAINTS, PAINT ENAMELS, VARNISHES, STAINS, LACQUERS, METALLIC PAINTS, LIQUID AND PASTE WAX FOR FURNITURE, FLOORS, AND THE LIKE, ETC. C. A. WOOLSEY PAINT & COLOR CO. INC., New York, N. Y.
Filed October 22, 1942. Serial No. 456,354. PUBLISHED JANUARY 12, 1943. Class 16.

400,650. HYDRAULICALLY OPERATED COAL-MINING MACHINES. HYDRABUSTER COMPANY, Benton, Ill.
Filed October 24, 1942. Serial No. 456,391. PUBLISHED DECEMBER 29, 1942. Class 23.

400,651. COTTON PIECE GOODS. AVONDALE MILLS, Sylacauga, Ala.
Filed October 26, 1942. Serial No. 456,413. PUBLISHED JANUARY 5, 1943. Class 42.

400,652. COTTON PIECE GOODS. AVONDALE MILLS, Sylacauga, Ala.
Filed October 26, 1942. Serial No. 456,414. PUBLISHED JANUARY 5, 1943. Class 42.

400,653. PRINTED COTTON PIECE GOODS. WM. ANDERSON TEXTILE MFG. CO. LTD., New York, N. Y.
Filed October 27, 1942. Serial No. 456,448. PUBLISHED JANUARY 12, 1943. Class 42.

400,654. PRINTED COTTON PIECE GOODS. WM. ANDERSON TEXTILE MFG. CO. LTD., New York, N. Y.
Filed October 27, 1942. Serial No. 456,449. PUBLISHED JANUARY 12, 1943. Class 42.

400,655. PRINTED COTTON PIECE GOODS. WM. ANDERSON TEXTILE MFG. CO. LTD., New York, N. Y.
Filed October 27, 1942. Serial No. 456,455. PUBLISHED JANUARY 5, 1943. Class 42.

400,656. POTATO CHIPS, PEANUT BUTTER, CANDY, DRIED FRUITS, SHELLED NUTS, AND NUTS IN THEIR NATURAL STATE. L. A. NUT HOUSE, Los Angeles, Calif.
Filed October 27, 1942. Serial No. 456,467. PUBLISHED JANUARY 12, 1943. Class 46.

400,657. GAME COMPRISING A BOARD AND MOVABLE PLAYING PIECES. SARGO COMPANY, New York, N. Y.
Filed October 27, 1942. Serial No. 456,473. PUBLISHED JANUARY 12, 1943. Class 22.

400,658. INTERIOR PAINTS. SAPOLIN CO. INC., New York, N. Y.
Filed October 28, 1942. Serial No. 456,497. PUBLISHED JANUARY 12, 1943. Class 16.

400,659. CARBON PAPER. ROYAL TYPEWRITER COMPANY, INC., New York, N. Y.
Filed October 29, 1942. Serial No. 456,510. PUBLISHED JANUARY 12, 1943. Class 11.

400,660. SYNTHETIC RESIN SUITABLE FOR WARP SIZING AND AS A SIZING AGENT ON COTTON FABRICS, WORSTED YARNS, AND CARPETS. ROYCE CHEMICAL COMPANY, Carlton Hill, N. J.
Filed October 29, 1942. Serial No. 456,511. PUBLISHED JANUARY 5, 1943. Class 6.

400,661. BABY PANTS. THE WARREN FEATHERBONE CO., Three Oaks, Mich.
Filed October 29, 1942. Serial No. 456,519. PUBLISHED JANUARY 5, 1943. Class 39.

400,662. CORSETS AND FOUNDATION GARMENTS. LEWEL MFG. CO., INC., New York, N. Y.
Filed October 30, 1942. Serial No. 456,535. PUBLISHED JANUARY 5, 1943. Class 39.

400,663. RAYON PIECE GOODS. PEDIGREE FABRICS, INC., New York, N. Y.
Filed October 30, 1942. Serial No. 456,541. PUBLISHED JANUARY 5, 1943. Class 42.

400,664. WOOLEN AND WORSTED FABRICS IN THE PIECE. A. DAVIS & SONS, INC., New York, N. Y.
Filed October 31, 1942. Serial No. 456,554. PUBLISHED JANUARY 5, 1943. Class 42.

400,665. MEDICINAL PREPARATION FOR THE TREATMENT OF POISON IVY. LEDERLE LABORATORIES, INC., New York, N. Y.
Filed November 2, 1942. Serial No. 456,606. PUBLISHED JANUARY 5, 1943. Class 6.

400,666. ALE. LIEBMANN BREWERIES, INC., Brooklyn, N. Y.
Filed November 2, 1942. Serial No. 456,607. PUBLISHED JANUARY 5, 1943. Class 48.

400,667. PRINTED FELT BASE FLOOR COVERINGS. SANDURA COMPANY, INC., Philadelphia, Pa.
Filed November 2, 1942. Serial No. 456,615. PUBLISHED JANUARY 12, 1943. Class 20.

400,668. HAIR TONIC AND SHAMPOO FOR THE HAIR. AUBIN & AUBIN, Phoenix, Ariz.
Filed November 3, 1942. Serial No. 456,619. PUBLISHED JANUARY 12, 1943. Class 6.

400,669. PREPARATION SUITABLE FOR TREATMENT OF ATHLETE'S FOOT, MINOR CUTS AND LACERATIONS, BURNS, SPRAINS, AND BRUISES. LEROY D. SOFF, doing business as Specialty Chemical Co., Long Island City, N. Y.
Filed November 3, 1942. Serial No. 456,632. PUBLISHED JANUARY 5, 1943. Class 6.

400,670. PHARMACEUTICAL PREPARATION OF SODIUM DIPHENYLHYDANTOINATE FOR THE TREATMENT OF EPILEPSY AND ASTHMA. PREMO PHARMACEUTICAL LABORATORIES, INC., New York, N. Y.
Filed November 5, 1942. Serial No. 456,658. PUBLISHED JANUARY 12, 1943. Class 6.

400,671. ADHESIVE CEMENT. UNION-BAYSTATE CO., INC., Cambridge, Mass.
Filed November 6, 1942. Serial No. 456,678. PUBLISHED JANUARY 12, 1943. Class 5.

400,672. HYDRAULIC PRESSES, INJECTION MOLDING MACHINES, DIE CASTING MACHINES AND HYDRAULIC PUMPS. THE HYDRAULIC PRESS MANUFACTURING COMPANY, Mount Gilead, Ohio.
Filed November 7, 1942. Serial No. 456,686. PUBLISHED JANUARY 5, 1943. Class 23.

400,673. MIXTURE OF CHEMICALS INTRODUCED INTO THE GAS FLOW OF THE HEATING FLAME IN SOLDERING, WELDING, AND BRAZING OPERATIONS TO IMPART NON-OXIDIZING QUALITIES. SPECIAL CHEMICALS CORPORATION, New York, N. Y., assignor to Lionel Cinamon and Bessie P. Cinamon, doing business as Special Chemicals Company, New York, N. Y.
Filed November 7, 1942. Serial No. 456,696. PUBLISHED JANUARY 5, 1943. Class 6.

400,674. MIXTURE OF CHEMICALS USED FOR SOLDERING, WELDING, AND BRAZING. SPECIAL CHEMICALS CORPORATION, New York, N. Y., assignor to Lionel Cinamon and Bessie P. Cinamon, doing business as Special Chemicals Company, New York, N. Y.
Filed November 7, 1942. Serial No. 456,701. PUBLISHED JANUARY 5, 1943. Class 6.

400,675. BRASSIÈRE. PETER PAN FOUNDATIONS, INC., New York, N. Y.
Filed November 11, 1942. Serial No. 456,749. PUBLISHED JANUARY 12, 1943. Class 39.

400,676. SAW FILES. SANDVIK SAW & TOOL CORPORATION, New York, N. Y.
Filed November 11, 1942. Serial No. 456,754. PUBLISHED JANUARY 5, 1943. Class 23.

400,677. FILES. SANDVIK SAW & TOOL CORPORATION, New York, N. Y.
Filed November 11, 1942. Serial No. 456,755. PUBLISHED JANUARY 5, 1943. Class 23.

400,678. LEMON SODA, GINGER ALE, ROOT BEER, SARSAPARILLA. WM. MONTGOMERY COMPANY, Philadelphia, Pa.
Filed November 7, 1942. Serial No. 456,785. PUBLISHED JANUARY 5, 1943. Class 45.

400,679. MEDICINAL PREPARATION FOR THE RELIEF OF HEADACHES, COLDS, AND PAIN DUE TO OTHER CAUSES. CARTER PRODUCTS, INC., New York, N. Y.
Filed November 13, 1942. Serial No. 456,788. PUBLISHED JANUARY 12, 1943. Class 6.

400,680. SOLUTIONS CONTAINING VITAMINS OR CONSTITUENTS THEREOF AND SOLUTIONS FOR PARENTERAL THERAPY CONTAINING SYNTHESIZED CONSTITUENTS OF VITAMIN B-COMPLEX. BAXTER LABORATORIES, INC., Glenview, Ill.
Filed November 14, 1942. Serial No. 456,819. PUBLISHED JANUARY 12, 1943. Class 6.

400,681. SAFETY RAZORS. GILLETTE SAFETY RAZOR COMPANY, Boston, Mass.
Filed November 17, 1942. Serial No. 456,869. PUBLISHED JANUARY 5, 1943. Class 23.

400,682. SAFETY RAZORS. GILLETTE SAFETY RAZOR COMPANY, Boston, Mass.
Filed November 17, 1942. Serial No. 456,871. PUBLISHED JANUARY 5, 1943. Class 23.

400,683. STOCK FEED. GENERAL MILLS, INC., Minneapolis, Minn.
Filed November 18, 1942. Serial No. 456,886. PUBLISHED JANUARY 12, 1943. Class 46.

400,684. PERFUME. PRINCE MATCHABELLI, INC., New York, N. Y.
Filed November 18, 1942. Serial No. 456,897. PUBLISHED JANUARY 12, 1943. Class 6.

400,685. COLOGNE AND DUSTING POWDER. PRINCE MATCHABELLI, INC., New York, N. Y.
Filed November 18, 1942. Serial No. 456,898. PUBLISHED JANUARY 12, 1943. Class 6.

400,686. COIN-CONTROLLED AMUSEMENT APPARATUS. EXHIBIT SUPPLY COMPANY, Chicago, Ill. Filed November 23, 1942. Serial No. 456,978. PUBLISHED JANUARY 12, 1943. Class 22.

400,687. COIN-CONTROLLED AMUSEMENT APPARATUS. EXHIBIT SUPPLY COMPANY, Chicago, Ill. Filed November 23, 1942. Serial No. 456,979. PUBLISHED JANUARY 12, 1943. Class 22.

400,688. COIN-CONTROLLED AMUSEMENT APPARATUS. EXHIBIT SUPPLY COMPANY, Chicago, Ill. Filed November 23, 1942. Serial No. 456,980. PUBLISHED JANUARY 12, 1943. Class 22.

400,689. COIN-CONTROLLED AMUSEMENT APPARATUS. EXHIBIT SUPPLY COMPANY, Chicago, Ill. Filed November 23, 1942. Serial No. 456,981. PUBLISHED JANUARY 12, 1943. Class 22.

400,690. COIN-CONTROLLED AMUSEMENT APPARATUS. EXHIBIT SUPPLY COMPANY, Chicago, Ill. Filed November 23, 1942. Serial No. 456,982. PUBLISHED JANUARY 12, 1943. Class 22.

400,691. ROASTED SOY BEANS. DEWEY FOOD PRODUCTS, INC., Chicago, Ill. Filed November 25, 1942. Serial No. 457,032. PUBLISHED JANUARY 12, 1943. Class 46.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

400,692. (CLASS 27. HOROLOGICAL INSTRUMENTS.) THE LONGINES-WITTNAUER CO. INC., New York, N. Y. Filed Aug. 24, 1938. Serial No. 409,927.



OFFICIAL
Sweep-Second

FOR WATCHES AND CLOCKS.
Claims use since July 5, 1938.

400,693. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MINNESOTA VALLEY CANNING COMPANY, Le Sueur, Minn. Filed Dec. 6, 1939. Serial No. 426,301. Applicant is owner of Reg. No. 162,555.

Minnesota Valley

FOR CANNED CORN AND PEAS.
Claims use since 1903.

400,694. (CLASS 39. CLOTHING.) KAUFMANN DEPARTMENT STORES, INC., Pittsburgh, Pa. Filed Aug. 8, 1941. Serial No. 446,083.

Polly Parker

FOR LADIES' AND MISSES' READY-TO-WEAR CLOTHING CONSISTING OF COATS, SUITS, CAPES, JACKETS, DRESSES, AND COAT AND SUIT ENSEMBLES.
Claims use since Feb. 9, 1938.

400,695. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) JACK L. WHEELER, Brisbane, Calif. Filed Sept. 24, 1941. Serial No. 447,298.

E-Z PUFFORMER

FOR GARMENT PRESSING FORM.
Claims use since Sept. 8, 1941.

400,696. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE BROOKE TOOL MANUFACTURING COMPANY LIMITED, Birmingham, England. Filed Oct. 3, 1941. Serial No. 447,504.

BROOKE TOOL

FOR MILLING CUTTERS, REAMERS, COUNTERBORES, BROACHES, END MILLS, TWIST DRILLS, AND METAL SLITTING SAWS, ALL BEING HAND TOOLS HAVING A CUTTING EDGE.
Claims use since Jan. 22, 1940.

400,697. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SIMON KLEINKRAMER, doing business as Perfumery Lybozo, New York, N. Y. Filed Dec. 12, 1941. Serial No. 449,424.

Dutch Flowers

FOR PERFUME, HAND CREAM, COLD CREAM, SKIN CREAM, POMADE, ROUGE, FACE POWDER, BATH SALTS, BRILLIANTINE, NAIL POLISH, NAIL POLISH REMOVER, DEODORANT, LIPSTICKS, TOOTHPASTE, MOUTH WASH, AND SHAMPOO.
Claims use since Nov. 7, 1941.

400,698. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) KLEAN-KOTE COMPANY, Pittsburg, Kans. Filed Dec. 30, 1941. Serial No. 449,858.

KLEAN-KOTE

FOR CHEMICAL SOLUTION FOR TREATING COAL FOR RENDERING THE SAME DUSTPROOF.
Claims use since Oct. 1, 1939.

400,699. (CLASS 12. CONSTRUCTION MATERIALS.) RECIPROCAL TRADE CORPORATION, New York, N. Y. Filed Jan. 6, 1942. Serial No. 450,024.



FOR AIR RAID SHELTER CONSTRUCTION MATERIALS CONSISTING OF CEMENT AND STEEL WIRE REINFORCEMENTS.
Claims use since Dec. 23, 1941.

400,700. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) NATIONAL MACHINE PRODUCTS COMPANY, Detroit, Mich. Filed Jan. 20, 1942. Serial No. 450,339.

SEEZ PRUF

FOR NUTS.
Claims use since Sept. 27, 1941.

400,701. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) GRANAT BROS., INC., San Francisco, Calif. Filed Jan. 31, 1942. Serial No. 450,627.

"Tempered Platinum"

FOR JEWELRY FOR PERSONAL WEAR AND ADORNMENT, NOT INCLUDING WATCHES.
Claims use since Jan. 22, 1942.

400,702. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) R. WALLACE & SONS MANUFACTURING COMPANY, Wallingford, Conn. Filed Feb. 4, 1942. Serial No. 450,757.

OLD WALLINGFORD

FOR STERLING SILVER FLATWARE AND STERLING SILVER HOLLOWWARE.
Claims use since Jan. 31, 1942.

400,703. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROSENBERG BROS. & CO., San Francisco, Calif. Filed Feb. 26, 1942. Serial No. 451,245.

"FLAVO-FRESH"

FOR DRIED FRUITS.
Claims use since Dec. 10, 1941.

400,704. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ELECTRO-VOICE MANUFACTURING CO., INC., South Bend, Ind. Filed July 6, 1942. Serial No. 454,069.

Electro-Voice

FOR MICROPHONES, MICROPHONE STANDS, AND MICROPHONE ACCESSORIES.
Claims use since July, 1930.

400,705. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CANTOR GREENSPAN CO., INC., New York, N. Y. Filed Aug. 15, 1942. Serial No. 454,921.

CHANGSHA

FOR RAYON PIECE GOODS.
Claims use since Dec. 5, 1941.

400,706. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) S. STROOCK & CO., INC., New York, N. Y. Filed Oct. 14, 1942. Serial No. 456,205.

Stroock

CREATOR OF
AMERICA'S MOST DISTINGUISHED WOOLENS

FOR WOOLEN PIECE GOODS.
Claims use since May 27, 1941.

400,707. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GRAY MARINE MOTOR COMPANY, Detroit, Mich. Filed Oct. 27, 1942. Serial No. 456,465.

TOWGEAR

FOR MARINE ENGINES, PARTS, AND AUXILIARY UNITS PARTICULARLY OF AND FOR MARINE ENGINES, OF VARIOUS TYPES PROPELLED BY GASOLINE, FUEL OIL, AND/OR OTHER COMBUSTIBLES.
Claims use since September, 1941.

400,708. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) COMSTOCK CANNING CORPORATION, Newark, N. Y. Filed Nov. 24, 1942. Serial No. 457,003.

COMSTOCK
Frost Pack

FOR FROZEN VEGETABLES AND FROZEN FRUITS.
Claims use since August, 1937.

400,709. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) KENSINGTON STEEL COMPANY, Chicago, Ill. Filed Dec. 4, 1942. Serial No. 457,203.

KENSINGTON

FOR MANGANESE AND STEEL AND ROUGH AND PARTLY FINISHED MANGANESE, AND STEEL CASTINGS.
Claims use since July 29, 1926.

400,710. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) KENSINGTON STEEL COMPANY, Chicago, Ill. Filed Dec. 4, 1942. Serial No. 457,204.

KENSINGTON

FOR GEARS, PINIONS, MIXER ARMS, MIXER ARM TIPS, LINER PLATES, AND PRESSURE PLATES FOR ASPHALT MIXERS; CATERPILLAR PARTS, SLATS,

TREADS, ROLLERS, AND FAIRLEAD FOR BACK-FILLER PARTS; BODY LINERS, DISCHARGE GRATES, END LINERS, MAN-HOLE LINERS, GEARS, LIFTER BARS, PARTITION GRATES, PINIONS, ROLLERS, SCOOP FEEDER LIPS, AND SHAFT PROTECTOR PLATES FOR BALL MILLS, ROD MILLS, TUBE MILLS, AND KOMINUTERS; BRACES, BUSHINGS, PINS, HINGE CASTINGS, AND SCRAPER BLADES FOR BALLAST SPREADERS; BELL ROD-PROTECTORS, CHARGING-BUGGY WHEELS AND LUGS FOR PIG-BREAKERS FOR BLAST FURNACES; AUGERS, CAMS, CAM GUIDES, CLAY ROLLS, KNIVES, GEARS, AND PINIONS FOR BRICK MACHINES; BUSHINGS, PINS, LEAVES, TIPS FOR LEAVES, LIPS, TEETH, SHANKS, SHEAVES, SIDE ARMS, AND TRAYS FOR CLAM-SHELL AND ORANGE-PEEL BUCKETS; GEARS, PIONIONS, ROLL TEETH, TOOTHED ROLLS IN ONE-PIECE, AND TOOTHED ROLL SEGMENTS FOR COAL BREAKING MACHINES; BUSHINGS, CARBON SCRAPER TIPS, GRIZZLY BARS, GRIZZLY DISCS, RACKS, SCOOPS, SHOVEL BODIES, SHOVEL WINGS, SPROCKETS, SCREEN PLATES, WEARING PLATES, AND WHEELS FOR COKE MACHINES; GROUSERS, GEARS, MIXER ARMS, PADDLES, ROLLERS, TIRES, AND WEARING PLATES FOR CONCRETE MIXERS AND PAVING MACHINES; ELEVATOR BUCKETS, ELEVATOR BUCKET LIPS, FLIGHTS, GUDGEONS, GUDGEON BEARINGS, BEARING CAPS, HANGER CASINGS, HANGERS, IDLERS, AND WEARING PLATES FOR CONVEYORS; TREAD LINKS, GROUSERS, PINS, BUSHINGS, ONE-PIECE AND RENEWABLE TOOTH SPROCKETS, ROLLERS, TEETH, LIPS, AND SHEAVES FOR SHOVELS, CRANES, AND EXCAVATORS; ONE-PIECE AND SEGMENTAL ROLL SHELLS, ROLL SIDE LINERS, ROLL STAVES, SLUGGER PLATES, AND SLUGGER TEETH FOR CRUSHING ROLLS; ONE-PIECE TEETH, TWO-PIECE TEETH WITH REVERSIBLE POINTS, TRUNNIONS, CLEVISES, WEARING PLATES, LIPS, AND BUSHINGS FOR DRAGLINE BUCKETS; BUCKETS, LIPS, BUSHINGS, BUCKET PINS, LADDER ROLLERS, DUMP CHUTES, TUMBLERS, TUMBLER WEARING PLATES, SHEAVES, GEARS, PINIONS, SPUD POINTS, SPUD RACKS, SPUD PINIONS, BUCKET LINKS, RIFFLE BARS, SCREEN TIRES, SCREEN ROLLERS, SCREEN PLATES, AND SCREEN BARS FOR PLACER GOLD DREDGES; BUCKETS, TEETH, PLOWS, SIDE CUTTERS, BUSHINGS, ROLLERS, GEARS, PINIONS, TREADS, SLATS, BUCKET CLEANER ARMS, BRACKETS, AND ROLLERS FOR EXCAVATORS; YOKES, PUSHERS, AND PUSHER PINS FOR FULLER MILLS; BEVEL, MITRE, SPUR, AND SPLIT GEARS; FLIGHTS AND LINERS FOR GRIFFIN MILLS; CONCAVES, WEARING PLATES, DIAPHRAGM LINERS, HOPPER SEGMENTS, SPIDER ARM SHIELDS, DUST RINGS, HEADS, MANTLES, DUST CAPS, AND FLOOR PLATES FOR GYRATORY CRUSHERS; WINDING DRUMS AND SHEAVES FOR HOISTING ENGINES; MOVABLE AND FIXED JAW PLATES, CHEEK PLATES, TOGGLES, TOGGLE BEARINGS, ROLLERS, AND LINERS FOR JAW CRUSHERS; BUCKETS, LIPS, CATERPILLAR OR CRAWLER PARTS, DISCS, PADDLE BLADES, AND PADDLES FOR LEADERS; SHEAVES, FRAMES, PINS, BUSHINGS FOR LOGGING BLOCKS; GEARS, PINIONS, SHEAVES, LINERS, AND WEARING PLATES FOR LUMBER, PULP, AND PAPER MILLS; RIFFLE BARS, GRIZZLY BARS, GRIZZLY BAR TOPS, GRIZZLY BAR SPACERS, GRIZZLY BAR CLEATS, SLUICE LINERS, CHUTE LINERS, PIPE, ELBOWS, DEFLECTOR CASTINGS FOR HYDRAULIC MINES; SHEAVES, GEARS, AND PINIONS FOR OIL WELL DRILLING RIGS; GRIZZLY BARS, CURVED OR FLAT CHUTE LINERS, GRIZZLY BAR SPACERS, DUMP PLATES, ROLLERS, GEARS, PINIONS, CAMS, RAKES, LAUNDER LINERS, AND ORE FEEDER CHAIN FOR ORE BINS, CHUTES, AND CLASSIFIERS; LIPS, TEETH, BUSHINGS, PINS, GEARS, PINIONS FOR ORE LOADERS AND MUCKERS; MULLER TIRES, MULLER PLATES, PLOWS, SCRAPERS, PAN RIM LINERS, GEARS, PINIONS, SHAFT SUPPORTS, TOES, AND SCREEN PLATES FOR DRY AND WET PANS; BEVEL, MITRE, SPUR, SPLIT, AND MILL PINIONS; KNIVES, KNIFE TIPS AND SHANKS, GEARS, AND PINIONS FOR PUG MILLS; HAMMERS, HAMMER TIPS, HAMMER SHANKS, RINGS, GRATE BARS, GRATES, BREAKER PLATES, BEATERS, PLOWS, LINERS, AND CAGE BARS FOR PULVERIZERS; BEATER BLADES, ROLLERS, PLOWS, LINERS, GEARS, PINIONS FOR PULVERIZING MILLS; YOKES, PICKS, GEARS, AND PINIONS FOR ROAD ROLLERS; IDLER, TRUCK, BOOM, CATERPILLAR, PULVERIZING MILL, CONVEYOR, AND TRUNNION ROLLERS; CONES, HOPPERS, SHELLS, DIES, MORTARS, PESTLES, BUCKING BOARDS FOR SAMPLE GRINDERS; BUCKETS, SHEAVES, TUMBLERS, LINERS, WEARING PLATES, CURVED AND FLAT SCREEN PLATES, GEARS, PINIONS, AND SCREEN ROLLERS FOR SAND DREDGES; PIPES AND ELBOWS, PUMP SHELLS, IMPELLERS, SHELL LINERS, SIDE LINERS, FLAP VALVES, PIPE FLANGES FOR SAND AND GRAVEL PUMPS; PERFORATED AND BLANK SCREEN PLATES, TRUNNION TIRES, TRUNNION ROLLERS, GEARS, PINIONS, HEAD CASTINGS, TAIL CASTINGS, RETARDING RINGS, INDUCTION CHUTES, AND DISCHARGE CHUTES FOR REVOLVING SCREENS; OIL WELL, LOGGING BLOCK, FAIRLEAD, DREDGE, STEAM SHOVEL, DRAG LINE, AND MISCELLANEOUS SHEAVES; CAMS, MORTAR LINERS, CHUTE LINERS, LAUNDER LINERS, GRATE FRAMES, AND GRATE FRAME STRIPS FOR STAMP MILLS; DIPPERS, DIPPER FRONTS, DIPPER LIPS, DIPPER TEETH, DIPPER BAILS, DIPPER DOOR HINGES, DIPPER DOORS, DIPPER LATCHES, DIPPER LATCH KEEPERS, DIPPER LATCH GUIDES, SHIPPER SHAFT PINIONS, SADDLE PLATES, CHAIN SHEAVES, CABLE SHEAVES, CRAWLER TRUCK ROLLERS, RAIL CLAMPS, WINDING DRUMS, TRUNNION ROLLERS, HOISTING GEARS, AND HOISTING PINIONS FOR STEAM SHOVEL AND DIPPER DREDGES; DRAW BENCH HOOKS, DRAW BENCH SPROCKETS, PIPE BALLS, COUPLING BOXES, SPINDLES, CRABS, TABLE GEARS, CONVEYOR GEARS, PINIONS, CHUTE LINERS, ROLL GUIDES, AND CRANE WHEELS FOR STEEL ROLLING MILLS AND TUBE PLANTS; CUTTER HEADS, CUTTER HEAD TEETH, CUTTER BLADES, PIPE, ELBOWS, SHOES, SHEAVES, GEARS, PINIONS, PUMP SHELLS, IMPELLERS, SHELL LINERS, SIDE LINERS, PIPE FLANGES FOR SUCTION DREDGES; DIPPER, BUCKET, SCRAPER, SPROCKET, SCARIFIER, TWO-PART, AND SOLID TEETH; BUCKETS, TEETH, PLOWS, CUTTERS, ROOTERS, ROLLERS, IDLERS, BRACKETS, CLEANER ARMS, ELEPHANT EARS, BUCKET EXTENSIONS, AND EXTENSION CUTTERS FOR TRENCH MACHINES; STAVES, GEARS, AND PINIONS FOR TUMBLING BARRELS; AND APRON FEEDERS.

Claims use since July 29, 1926.

400,711. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE FAIRFAX ENGINEERING COMPANY, INC., Kansas City, Mo. Filed Dec. 7, 1942. Serial No. 457,241.

FAIRFAX

FOR MACHINE TOOLS AND PARTS THEREOF IN THE NATURE OF DIES, PUNCHES, JIGS, FIXTURES.

Claims use since December, 1941.

400,712. (CLASS 39. CLOTHING.) JOHN PAUL CO., Bangor, Maine. Filed Dec. 7, 1942. Serial No. 457,250.

JOHN PAUL

FOR OUTER SHIRTS, PANTS, OVERALLS, MEN'S AND WOMEN'S INDUSTRIAL WORK UNIFORMS, MILITARY UNIFORMS, POLICEMEN'S AND GUARDS' UNIFORMS.

Claims use since 1930.

400,713. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) W. H. SALISBURY & CO., Chicago, Ill. Filed Dec. 11, 1942. Serial No. 457,349.

LINEMAN'S SNAP SALISBURY ON BLANKET

FOR RUBBER BLANKETS USED TO COVER HIGH POTENTIAL ELECTRICAL DEVICES FOR THE PROTECTION OF WORKMEN.

Claims use since June, 1936.

400,714. (CLASS 42. KNITTED, NETTED, AN TEXTILE FABRICS.) NATIONAL FABRICS CORPORATION, New York, N. Y. Filed Dec. 17, 1942. Serial No. 457,478.

AFRICAN PRINTS

FOR PIECE GOODS OF SILK, WOOL, COTTON, RAYON, AND MIXTURES OF SILK AND RAYON.

Claims use since Oct. 15, 1941.

400,715. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) FULLER BROS. LTD., New York, N. Y. Filed Dec. 24, 1942. Serial No. 457,587.

MAR-PROOF

FOR MALLETS AND HAMMERS.

Claims use since Nov. 15, 1941.

400,716. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LOUIS WEISBERG, doing business as Wales Chemical Co., Brooklyn, N. Y. Filed Jan. 14, 1943. Serial No. 457,925.

Wales

FOR EPSOM SALT, BICARBONATE OF SODA, ASPIRIN, VITAMIN B COMPLEX, COD LIVER OIL, MILK OF MAGNESIA, CITRO CARBONATE, AGAR IN OIL, ANISE SEED COMPOUND, LICORICE POWDER COMPOUND, PSYLLIUM SEED, SALTPETER, SENNA LEAVES AND PODS, THIAMIN CHLORIDE, EPHEDRIN, CASTOR OIL, CASCARA SAGRADA, BREWER'S YEAST, RUBBING ALCOHOL, HYDROGEN PEROXIDE, CALAMINE LOTION, BURROW'S SOLUTION, BORIC ACID, DOUCHE POWDER, GLYCERINE SUPPOSITORIES, WITCH HAZEL, MOUTH WASH, SODIUM PERBORATE, ALUM POWDER, CREAM OF TARTAR, MUSTARD POWDER, OXALIC ACID, ROCHELLE SALT, SODIUM FLUORIDE, SULPHUR, ANTIPYRINE EAR DROPS, GLYCERINE, ISOPROPYL ALCOHOL.

Claims use since June 11, 1940.

TRADE-MARK REGISTRATIONS RENEWED

21,138. **BANK NOTE.** WRITING PAPER AND ENVELOPES. Registered May 17, 1892. GEORGE B. HURD & Co. Re-renewed May 17, 1942, to George B. Hurd Inc., New York, N. Y., a corporation of New York, successor.

22,859. **WALTHAM MASS.** WATCHES AND PARTS THEREOF. Registered April 25, 1893. AMERICAN WALTHAM WATCH COMPANY, Boston and Waltham, Mass., and New York, N. Y. Re-renewed April 25, 1943, to Waltham Watch Company, Waltham, Mass., a corporation of Massachusetts, assignee.

23,089. **WHITE ROSE.** CANNED FRUITS. Registered May 23, 1893. SEEMAN BROTHERS. Re-renewed May 23, 1943, to Seeman Brothers, Inc., New York, N. Y., a corporation of New York, assignee.

23,126. **WHITE ROSE.** CERTAIN NAMED CEREAL PRODUCTS. Registered May 30, 1893. SEEMAN BROTHERS. Re-renewed May 30, 1943, to Seeman Brothers, Inc., New York, N. Y., a corporation of New York, assignee.

135,562. **TIFFIN ROOM.** COFFEE. Registered October 12, 1920. FRED WOLFERMAN CO. Renewed October 20, 1940, to Fred Wolferman, Incorporated, Kansas City, Mo., a corporation of Missouri, successor.

163,167. **BEN-GAY.** REMEDY FOR USE IN THE TREATMENT OF RHEUMATISM, GOUT, NEURALGIA. Registered January 2, 1923. THEODORE SELTZER, doing business as Dr. Bengue, West Hoboken, N. J. Renewed January 2, 1943, to Bengue, Inc., Union City, N. J., a corporation of New Jersey, assignee.

163,957. **"AVONA."** BINDINGS, SNAP FASTENERS, DRESS SHIELDS, IRON-WIRE HAIRPINS, BRASS PINS, AND DRESSMAKER'S PINS. Registered February 6, 1923. JORDAN MARSH COMPANY, Boston, Mass., a corporation of Massachusetts. Renewed February 6, 1943.

164,021. **NATURE-FLEX.** MEN'S, WOMEN'S, MISSES', BOYS', AND CHILDREN'S BOOTS AND SHOES MADE OF LEATHER, RUBBER, CANVAS, AND CANVAS WITH LEATHER TRIMMINGS. Registered February 6, 1923. JORDAN MARSH COMPANY, Boston, Mass., a corporation of Massachusetts. Renewed February 6, 1943.

164,254. **"U-S-DENTCO-" AND DRAWING.** CERTAIN NAMED DENTAL TOOLS AND APPLIANCES. Registered February 13, 1923. THE UNITED STATES DENTAL MANUFACTURING CO., Cleveland, Ohio, a corporation of Ohio. Renewed February 13, 1943.

164,398. **"S" AND DRAWING.** ELECTRIC FANS. Registered February 20, 1923. GENERAL ELECTRIC COMPANY, Schenectady, N. Y., a corporation of New York. Renewed February 20, 1943.

164,589. **RELIEFO.** A READY-MIXED PAINT. Registered February 20, 1923. THE AMERICAN CRAYON COMPANY, Sandusky, Ohio, a corporation of Ohio. Renewed February 20, 1943.

164,616. **"EUREKA" AND DRAWING.** GOITER TREATMENTS—NAMELY, GOITER OINTMENT AND GOITER BALSAM. Registered February 20, 1923. THE H. H. HAYSSEN COMPANY, INC., Seneca Falls, N. Y. Renewed February 20, 1943, to Charles W. Hayssen, Mobile, and Montgomery, Ala., successor.

164,695. **RACE.** ELECTRICAL PRODUCTS. Registered February 27, 1923. RACINE UNIVERSAL MOTOR COMPANY, Chicago, Ill. Renewed February 27, 1943, to Racine Universal Motor Company, Racine, Wis., a corporation of Wisconsin, successor.

164,743. **COPRLOY.** SHEET STEEL. Registered February, 27, 1923. MILWAUKEE ROLLING MILL COMPANY, Greenfield, Wis. Renewed February 27, 1943, to Inland Steel Company, Chicago, Ill., a corporation of Delaware, assignee.

164,801. **"REBECCA—RUTH" AND DRAWING.** CANDIES. Registered February 27, 1923. JOHN J. KING. Renewed February 27, 1943, to Ruth Hanly Booe, Frankfort, Ky., assignee.

165,191. **CETEC.** ELECTRIC INSULATING COMPOUND AND INSULATING PARTS OF ELECTRICAL APPARATUS MADE THEREFROM. Registered March 6, 1923. THE CONNECTICUT TELEPHONE & ELECTRIC COMPANY, INCORPORATED, Meriden, Conn. Renewed March 6, 1943, to General Electric Company, Schenectady, N. Y., a corporation of New York, assignee by mesne assignments.

165,195. **"THERMATOMIC" AND DRAWING.** PIGMENT FOR PAINTS. Registered March 6, 1923. THERMATOMIC CARBON CO., Pittsburgh, Pa. Renewed March 6, 1943, to Thermatomic Carbon Company, New York, N. Y., a corporation of Delaware.

165,323. **ARTISAN.** PRINTING, WRITING, BOOK, AND COVER PAPERS. Registered March 6, 1923. J. W. BUTLER PAPER COMPANY. Renewed March 6, 1943, to Butler Paper Corporation, Chicago, Ill., a corporation of Illinois, assignee.

165,608. **REPRESENTATION OF PINE TREES.** SHAMPOO PREPARATION. Registered March 13, 1923. THE SANITAS COMPANY, INC., Jersey City, N. J., and Brooklyn, N. Y. Renewed March 13, 1943, to Lee Laboratories Incorporated, Cambridge, Mass., a corporation of Delaware, assignee.

165,622. **PINEGLOW.** A SHAMPOO PREPARATION. Registered March 13, 1923. THE SANITAS COMPANY, INC., Jersey City, N. J., and Brooklyn, N. Y. Renewed March 13, 1943, to Lee Laboratories Incorporated, Cambridge, Mass., a corporation of Delaware, assignee.

166,439. **PLAYMATE.** PEANUT BUTTER. Registered April 3, 1923. NASH COFFEE COMPANY. Renewed April 3, 1943, to Nash-Finch Company, Minneapolis, Minn., a corporation of Delaware, successor.

166,552. **JAX.** RUBBER HEELS FOR SHOES. Registered April 10, 1923. THE HOLTITE MANUFACTURING COMPANY, Baltimore, Md., a corporation of Maryland. Renewed April 10, 1943.

166,590. **"THERMATOMIC" AND DRAWING.** PRINTING INKS. Registered April 10, 1923. THERMATOMIC CARBON CO., Pittsburgh, Pa. Renewed April 10, 1943, to Thermatomic Carbon Company, New York, N. Y., a corporation of Delaware.

166,646. **STEEL KING.** CUTLERY—VIZ, RAZORS AND SCISSORS MADE OF SOLID STEEL. Registered April 10, 1923. WESTER BROS. Renewed April 10, 1943, to Herbert Wester, doing business as Wester Bros., New York, N. Y., assignee by mesne assignments.

166,833. **"OLIVER AMES AND SONS" AND DRAWING.** SHOVELS, SPADES, AND SCOOPS. Registered April 17, 1923. AMES SHOVEL & TOOL COMPANY, Jersey City, N. J., and Boston, Mass. Renewed April 17, 1943, to Ames Baldwin Wyoming Co., Parkersburg, W. Va., a corporation of Delaware, assignee.

167,054. **"KRAFT" AND DRAWING.** CHEESE. Registered April 24, 1923. J. L. KRAFT & BROS. CO. Renewed April 24, 1943, to Kraft Cheese Company, Chicago, Ill., a corporation of Delaware, assignee by mesne assignments.

167,345. **APRÈS TOUT.** PERFUMES. Registered May 1, 1923. HARRIET HUBBARD AYER, INC., New York, N. Y., a corporation of New York. Renewed May 1, 1943.

167,535. **WALL-TONA.** PAINTS (READY MIXED, PASTE FORM, OR DRY) PAINT ENAMELS, JAPANS, VARNISHES, STAINS, AND FILLERS. Registered May 1, 1923. DETROIT WHITE LEAD WORKS, Detroit, Mich., a corporation of Michigan. Renewed May 1, 1943.

167,687. **REPRESENTATION OF A RED ROUND SPOT.** RUBBER VALVE CAPS. Registered May 8, 1923. THE DAYTON RUBBER MANUFACTURING COMPANY, Dayton, Ohio, a corporation of Ohio. Renewed May 8, 1943.

167,800. **ARCTIC.** LUBRICATING GREASE. Registered May 8, 1923. STANDARD OIL COMPANY OF NEW YORK. Renewed May 8, 1943, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York, by change of name.

168,069. **"FINTEX" AND DRAWING.** MEN'S SUITS, OVERCOATS, AND TROUSERS. Registered May 15, 1923. FINSTERWALD CLOTHING CO. Renewed May 15, 1943, to The Fintex Corporation, Detroit, Mich., a corporation of Michigan, assignee.

168,134. **LISTERINE.** A MEDICATED TABLET FOR THE RELIEF OF INDIGESTION AND AILMENTS OF THE THROAT, PARTICULARLY HOARSENESS, SORE THROAT, AND COUGHS. Registered May 15, 1923. LAMBERT PHARMACAL COMPANY. Renewed May 15, 1943, to Lambert Pharmacal Company, St. Louis, Mo., a corporation of Delaware.

168,205. **CORONA.** CERTAIN NAMED PINS AND NEEDLES. Registered May 15, 1923. MARSHALL FIELD & COMPANY, Chicago, Ill., a corporation of Illinois. Renewed May 15, 1943.

168,676. **REPRESENTATION OF A DIAMOND-SHAPED FIGURE.** HORSESHOES AND HORSESHOE CALKS. Registered May 29, 1923. DIAMOND CALK AND HORSESHOE CO., Duluth, Minn., a corporation of Minnesota. Renewed May 29, 1943.

169,461. **RUBREX.** PETROLEUM AND PRODUCTS OF PETROLEUM. Registered June 19, 1923. STANDARD OIL COMPANY OF NEW YORK. Renewed June 19, 1943, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York, by change of name.

169,462. **AMBREX.** PETROLEUM AND PRODUCTS OF PETROLEUM. Registered June 19, 1923. STANDARD OIL COMPANY OF NEW YORK. Renewed June 19, 1943, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York, by change of name.

169,463. **EBONY.** PETROLEUM AND PRODUCTS OF PETROLEUM. Registered June 19, 1923. STANDARD OIL COMPANY OF NEW YORK. Renewed June 19, 1943, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York, by change of name.

169,758. **HUYLER'S.** CANDY AND CONFECTIONS. Registered July 3, 1923. HUYLER'S, NEW YORK. Renewed July 3, 1943, to Huyler's, Long Island City, N. Y., a corporation of New York.

169,851. **RACOR.** RAILWAY TRACK MATERIAL. Registered July 3, 1923. RAMAPO AJAX CORPORATION. Renewed July 3, 1943, to The American Brake Shoe and Foundry Company, New York, N. Y., a corporation of Delaware, assignee.

169,993. **VAN-O-VAN.** LIQUID COMPOUND OF MEXICAN VANILLA BEANS, VANILLIN, AND COUMARIN. Registered July 10, 1923. L. DEMARTINI SUPPLY COMPANY. Renewed July 10, 1943, to The L. Demartini Company, San Francisco, Calif., a corporation of California, successor.

170,147. **ANACONDA.** CAST, DRAWN, ROLLED, EXTRUDED, PRESSED, AND MACHINED NON-FERROUS METALS AND ALLOYS AND INGOTS. Registered July 10, 1923. ANACONDA COPPER MINING COMPANY, New York, N. Y., a corporation of Montana. Renewed July 10, 1943.

170,205. **"MENTHO-GOOSE-GREASE" AND DRAWING.** A CERTAIN NAMED MEDICINAL PREPARATION. Registered July 10, 1923. S. PFEIFFER MANUFACTURING COMPANY, St. Louis, Mo., a corporation of Missouri. Renewed July 10, 1943.

170,310. **QUADRIGA.** COTTON PIECE GOODS. Registered July 10, 1923. ELY & WALKER DRY GOODS COMPANY, St. Louis, Mo., a corporation of Missouri. Renewed July 10, 1943.

170,372. **"BEACON" AND DRAWING.** COMPOUND FOR COLORING ELECTRIC BULBS. Registered July 17, 1923. MCKAY COMPANY, New York, N. Y., a firm. Renewed July 17, 1943.

170,391. **DURATUBE.** PROTECTIVE COVERING FOR ELECTRICAL WIRES. Registered July 17, 1923. TUBULAR WOVEN FABRIC COMPANY, Pawtucket, R. I. Renewed July 17, 1943, to Anaconda Wire & Cable Company, New York, N. Y., a corporation of Delaware, assignee.

170,395. **PYREX.** GLASS TEA POTS. Registered July 17, 1923. CORNING GLASS WORKS. Renewed July 17, 1943, to Corning Glass Works, Corning, N. Y., a corporation of New York, assignee by mesne assignments.

170,507. **FONTANA'S.** MACARONI PRODUCTS, CANNED FRUITS, CANNED VEGETABLES, CANNED FISH, EVAPORATED MILK, CANNED SOUP, FRUIT MARMALADES, AND PICKLES. Registered July 17, 1923. FONTANA FOOD PRODUCTS COMPANY, San Francisco, Calif. Renewed July 17, 1943, to Fontana Food Products Company, South San Francisco, Calif., a corporation of California.

170,595. **REPRESENTATION OF AN ORANGE OR YELLOW YARN OR THE LIKE.** SISAL ROPE. Registered July 17, 1923. TUBBS CORDAGE COMPANY, San Francisco, Calif., a corporation of California. Renewed July 17, 1943.

170,596. **REPRESENTATION OF A BLACK YARN OR THE LIKE.** ROPE MADE FROM FIBER. Registered July 17,1923. TUBBS CORDAGE COMPANY, San Francisco, Calif., a corporation of California. Renewed July 17, 1943.

170,630. **NO-WORRY.** WASHING FLUID. Registered July 17, 1923. FREDERICO CICETTI, doing business as No-Worry Chemical Co. Renewed July 17, 1943, to No-Worry Chemical Co., Newark, N. J., a corporation of New Jersey, successor.

170,701. **"LANCE QUALITY" AND DRAWING.** CANDY, PEANUT BUTTER, PEANUT BUTTER SANDWICH, PEANUTS, MARSHMALLOW CREAM, POTATO CHIPS, CAKE, AND SALAD DRESSING. Registered July 24, 1923. LANCE PACKING CO. Renewed July 24, 1943, to Lance, Inc., Charlotte, N. C., a corporation of North Carolina, assignee.

170,702. **"SENECA" AND DRAWING.** SHEETS AND PILLOWCASES. Registered July 24, 1923. ELY & WALKER DRY GOODS COMPANY, St. Louis, Mo., a corporation of Missouri. Renewed July 24, 1943.

170,751. **VELVET.** CHEMICAL COMPOUND FOR ETCHING GLASS. Registered July 24, 1923. MCKAY COMPANY, New York, N. Y., a firm. Renewed July 24, 1943.

170,785. **FLORADALE.** FLOWER SEEDS. Registered July 24, 1923. W. ATLEE BURPEE CO., Philadelphia, Pa., a corporation of Pennsylvania. Renewed July 24, 1943.

170,786. **FORDHOOK.** VEGETABLE, FLOWER, AND LAWN-GRASS SEEDS AND BULBS. Registered July 24, 1923. W. ATLEE BURPEE CO., Philadelphia, Pa., a corporation of Pennsylvania. Renewed July 24, 1943.

170,857. **"EXCALIBUR" AND DRAWING.** WHEAT FLOUR. Registered July 24, 1923. SANDS, TAYLOR & WOOD CO., Boston, Mass. Renewed July 24, 1943, to Sands, Taylor & Wood Company, Somerville, Mass., a corporation of Massachusetts.

170,858. **EXCALIBUR.** WHEAT FLOUR. Registered July 24, 1923. SANDS, TAYLOR & WOOD CO., Boston, Mass. Renewed July 24, 1943, to Sands, Taylor & Wood Company, Somerville, Mass., a corporation of Massachusetts.

170,897. **AUTUMN LEAF.** BUTTER. Registered July 24, 1923. THE MOORESVILLE CO-OPERATIVE CREAMERY CO., INC., Mooresville, N. C., a corporation of North Carolina. Renewed July 24, 1943.

171,011. **"GRASSY VALLEY FARM" AND DRAWING.** STOCK FEED. Registered July 31, 1923. J. ALLEN SMITH & COMPANY, Knoxville, Tenn., a corporation of Maine. Renewed July 31, 1943.

171,058. **KRINKLY.** SOFT DRINKS. Registered July 31, 1923. WILLIAM D. BOST. Renewed July 31, 1943, to Orange-Crush Company, Chicago, Ill., a corporation of Illinois, assignee.

171,073. **P. E. P.** KNIFE SWITCHES, PANEL BOARDS, SWITCHBOARDS, AND FUSE REDUCERS. Registered July 31, 1923. THE PLAINVILLE ELECTRICAL PRODUCTS COMPANY, Plainville, Conn., a corporation of Connecticut. Renewed July 31, 1943.

171,090. **GIANT.** SHEET-METAL CHAINS. Registered July 31, 1923. THE SMITH & EGGE MANF'G. CO., Bridgeport, Conn. Renewed July 31, 1943, to The Turner & Seymour Manufacturing Company, Torrington, Conn., a corporation of Connecticut, assignee.

171,105. **PARLAC.** WHOLE-MILK POWDER. Registered July 31, 1923. MERRELL-SOULE COMPANY, Syracuse, N. Y. Renewed July 31, 1943, to The Borden Company, New York, N. Y., a corporation of New Jersey, assignee by mesne assignments.

171,169. **EATMOR.** MACARONI, SPAGHETTI, READY-CUT MACARONI, READY-CUT SPAGHETTI, MACARONI SHELLS, VERMICELLI, EGG NOODLES, MACARONI SOUP, ALIMENTARY PASTES. Registered July 31, 1923. KANSAS CITY MACARONI & IMPORTING CO., doing business under the abbreviated title of Kansas City Macaroni Co. Renewed July 31, 1943, to Kansas City Macaroni & Importing Co., Kansas City, Mo., a corporation of Missouri, by change of name.

171,192. **"GOLD SMITH" AND DRAWING.** BASEBALL CAPS, BATHING CAPS, COLLEGE CAPS, JERSEY CAPS, MEN'S SPORT CLOTHES, LADIES' SPORT CLOTHES. Registered July 31, 1923. P. GOLDSMITH'S SONS, assignors to The P. Goldsmith Sons Company. Renewed July 31, 1943, to Sport Products, Inc., Cincinnati, Ohio, a corporation of Ohio, assignee.

171,197. **PALM ISLAND.** CANNED PINEAPPLE. Registered July 31, 1923. HAWAIIAN PINEAPPLE COMPANY, LTD. Renewed July 31, 1943, to Hawaiian Pineapple Company, Ltd., Honolulu, Territory of Hawaii, and San Francisco, Calif., a corporation of the Territory of Hawaii, assignee.

171,198. **MAYFAIR.** LADIES' SILK UNDERWEAR. Registered July 31, 1923. VANITY FAIR SILK MILLS. Renewed July 31, 1943, to Vanity Fair Mills, Inc., Reading, Pa., a corporation of Pennsylvania, by change of name.

171,209. **43.** LUBRICANTS COMPRISING OILS AND GREASES. Registered July 31, 1923. KEYSTONE LUBRICATING COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed July 31, 1943.

171,210. **41.** LUBRICANTS COMPRISING OILS AND GREASES. Registered July 31, 1923. KEYSTONE LUBRICATING COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed July 31, 1943.

171,211. **USHCO.** HAMES, HAME TRIMMINGS, AND SADDLERY HARDWARE. Registered July 31, 1923. U. S. HAME COMPANY. Renewed July 31, 1943, to Ushco Manufacturing Company, Inc., Buffalo, N. Y., a corporation of New York, by merger.

171,212. **REPRESENTATION OF A BUFFALO, ETC.** HAMES, HAME TRIMMINGS, AND SADDLERY HARDWARE. Registered July 31, 1923. U. S. HAME COMPANY. Renewed July 31, 1943, to Ushco Manufacturing Company, Inc., Buffalo, N. Y., a corporation of New York, by merger.

171,217. **HI-LAND.** CORDS, TWINES, ROPES, AND LINES OF FIBER MATERIAL MADE FROM COTTON, HEMP, MANILA, SISAL, OR JUTE, SAID LINES BEING OF THE NATURE OF CLOTHESLINES. Registered July 31, 1923. HIGHLAND CORDAGE COMPANY, Highland, and Hickory, N. C. Renewed July 31, 1943, to Highland Cordage Company, Hickory, N. C., a corporation of North Carolina.

171,249. **REPRESENTATION OF A RED BAND ON THE NECK OF A HAMMER.** HAMMER. Registered July 31, 1923. THE STANLEY WORKS, New Britain, Conn., a corporation of Connecticut. Renewed July 31, 1943.

171,257. **KING'S.** CANDIES. Registered July 31, 1923. KING CANDY COMPANY, Fort Worth Tex., a corporation of Texas. Renewed July 31, 1943.

171,261. **MRS. JOHNSTONE'S FAMOUS.** CANDY. Registered July 31, 1923. EDWIN DEAN. Renewed July 31, 1943, to Henrietta Dean, Hoboken, N. J., assignee.

171,266. **ROYAL HAWAIIAN.** CANNED PINEAPPLE. Registered July 31, 1923. HAIKU FRUIT & PACKING CO., Haiku, Maui, Territory of Hawaii, and San Francisco, Calif. Renewed July 31, 1943, to Hawaiian Pineapple Company, Ltd., Honolulu, Territory of Hawaii, and San Francisco, Calif., a corporation of the Territory of Hawaii, assignee.

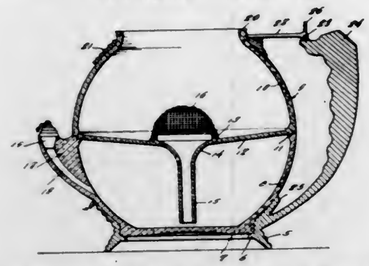
REISSUES

MARCH 23, 1943

22,291

COFFEE BREWER

Paul F. Campbell, Saginaw, Mich., assignor, by mesne assignments, to Casco Products Corporation, Bridgeport, Conn., a corporation of Conn.
Original No. 2,143,432, dated January 10, 1939, Serial No. 163,868, September 14, 1937. Application for reissue September 7, 1940, Serial No. 355,704
10 Claims. (Cl. 53—3)

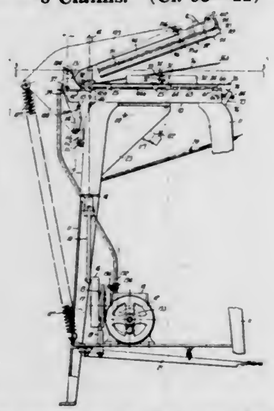


1. A utensil of the character described comprising a bowl-shaped structure divided horizontally into upper and lower separable sections; a rigid handle extending laterally and upwardly from the lower section to terminate adjacent the top of the upper section, the upper section being provided with a reduced upper portion defining a shoulder; an endless member circumscribing the upper section and adapted to rest upon the shoulder; an arm extending laterally from the member and being pivotally connected to the upper end of the handle; and an upstanding finger tab on the pivotal end of the said arm.

22,292

BAG MAKING MACHINE AND METHOD

Rene J. Gaubert, Oakland, Calif., assignor to Simplex Wrapping Machine Co., Oakland, Calif., a corporation of California
Original No. 2,094,594, dated October 5, 1937, Serial No. 18,289, April 26, 1935. Application for reissue July 22, 1942, Serial No. 451,965
8 Claims. (Cl. 93—11)

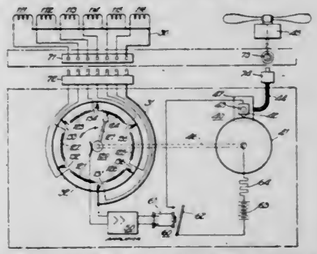


3. In a machine for the manufacture of bags from sheet material like "Cellophane," a frame forming a working table, a mandrel overlying the upper surface of the table, means forming a pivotal connection between the rear end of the mandrel and the frame, whereby the mandrel may swing in a vertical plane with respect to the upper surface of the table and whereby a sheet of material to form a bag can be placed between the mandrel and the upper surface of the table, means for folding projecting side margins of the sheet of material over the side edges of the mandrel, means for folding a projecting end margin of the sheet over the forward end edge of the mandrel, a heater overlying both the table and the mandrel, means forming a pivotal mounting for the heater with respect to the frame whereby the heater can be swung downwardly on top of the mandrel, a vertical reciprocal operating shaft carried by the frame, mechanism connecting said shaft with said first-mentioned folding means to effect cyclic operation of the same as the shaft is reciprocated, mechanism connecting said second-mentioned folding means with said shaft to likewise cause cyclic operation of the same as the shaft is reciprocated, mechanism connecting said shaft with said heater to cyclically lower and raise the heater with respect to the table for a pressing and sealing operation, and mechanism connecting the shaft to the mandrel to cause raising and lowering of the mandrel.

22,293

SYSTEM FOR RECORDING A PLURALITY OF MEASURING MAGNITUDES

George Keinath, Larchmont, N. Y.
Original No. 2,306,391, dated December 29, 1942, Serial No. 402,170, July 12, 1941. Application for reissue January 23, 1943, Serial No. 473,372
15 Claims. (Cl. 73—51)

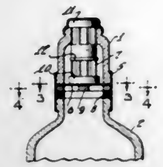


1. Vibratory testing apparatus, comprising a vibration generator for causing a test object to effect mechanical vibrations, pick-up means for producing electric variations in accordance with mechanical vibrations of the test object, a potentiometric device having a series arrangement of resistors and contacts connected with said pick-up means and a contact member movable relative to said contacts for sequentially engaging said contacts, a recording device having a carrier for a record sheet and a recording element for effecting a record on the sheet, said carrier and said recording element being movable in two scanning directions relatively to each other, said recording device being connected with said vibration generator and said movable contact member

respectively, so that the relative movements of said carrier and said recording element in one of said directions are dependent upon the movement of said contact member and in said other direction on the vibration frequency of said generator, relay means connected intermediate said potentiometric device and said recording device for energizing the latter, said relay means being responsive to a given minimum operating voltage, and said resistance steps having successively increasing magnitudes.

22,294
BOTTLE CLOSURE
John W. Maussenet, Long Island City, N. Y.
Original No. 2,146,903, dated February 14, 1939, Serial No. 202,830, April 19, 1938. Application for reissue May 18, 1940, Serial No. 336,057
6 Claims. (Cl. 215—18)

6. A bottle closure comprising a neck, a diaphragm secured near the bottom of the neck and containing a pair of cooperating flap valves having a common opening, a sleeve guard containing a central fluid conduit with inlet and



outlet openings in the side walls and a cap at each end, the guard being fitted to slide in the neck and in downward position to press down upon the flap valves and to close the neck, and means to limit outward sliding of the cylinder.

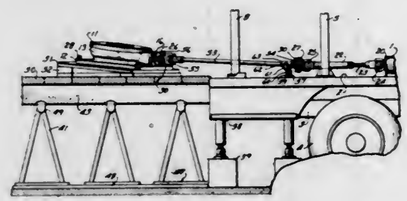
PATENTS

GRANTED MARCH 23, 1943

2,314,322
PRODUCTION OF ARYL-SUBSTITUTED PHENOLS
Waldo C. Ault, Springfield, Pa., assignor to The United Gas Improvement Company, a corporation of Pennsylvania
No Drawing. Application November 3, 1939, Serial No. 302,698
9 Claims. (Cl. 260—619)

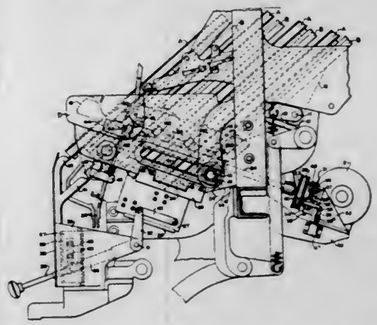
1. A process for the production of a mono-aryl-substituted phenol from aromatic light oil material containing saturated and unsaturated hydrocarbon material which comprises reacting said light oil material with phenol in the presence of a relatively small quantity of a condensing catalyst; distilling the reaction product to obtain a fraction comprising mono-aryl-substituted phenol and a fraction comprising poly-aryl substituted phenol; and a fraction of unsaturated aromatic hydrocarbon material reacting the poly-aryl substituted phenol fraction with additional phenol at a temperature above 60° C. and in the presence of a relatively small quantity of aluminum chloride as catalyst; neutralizing the catalyst at the end of the reaction point; and separating mono-aryl-substituted phenol from the reaction product by fractional distillation.

2,314,323
RAT-HOLE DRILLING ATTACHMENT FOR ROTARY DRILLING RIGS
Emmett Lee Alexander and Albert W. Braithwaite, Enid, Okla., assignors to The George E. Failing Supply Company, Enid, Okla., a corporation of Oklahoma
Application January 9, 1941, Serial No. 373,774
3 Claims. (Cl. 255—19)



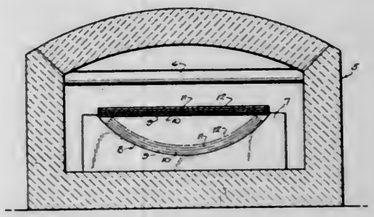
1. In combination with a portable drilling rig including a main platform and a turntable mounted thereon, an attachment for boring a rat-hole including a supplementary support offset and separate from the platform and onto which the turntable is adapted to be moved to bore a rat-hole, a driving means on the main platform for driving the turntable when the turntable is in position on the main platform, a flexible extension having coupling means to connect with said driving means and having means for connection with the turntable when the turntable is mounted on the supplementary support, a bearing for rotatably mounting the shaft extension, and means for pivotally and swivelly mounting the bearing on one of said platforms.

2,314,324
TYPOGRAPHICAL MACHINE
George W. Allan and Albert H. Simpson, Brooklyn, N. Y., assignors to Intertype Corporation, Brooklyn, N. Y., a corporation of New York
Application January 31, 1942, Serial No. 429,070
31 Claims. (Cl. 199—45)



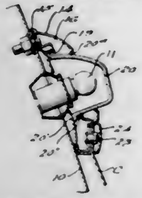
1. In a typographical machine, the combination of a plurality of magazines shiftable fore and aft as a unit, mechanism operable to impart shifting movement to said unit to bring a selected magazine into operating position, and brake means adapted for actuation by said unit and operative upon arrival of the selected magazine in such position automatically to cooperate with a part of said mechanism to arrest the shifting movement imparted thereby to said unit.

2,314,325
METHOD OF PRODUCING BENT LAMINATED SAFETY GLASS
Carl F. Binkert, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
Application January 24, 1942, Serial No. 428,091
2 Claims. (Cl. 49—79)



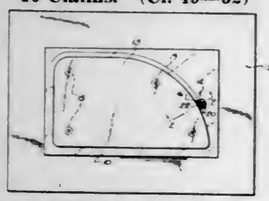
2. The method of producing bent laminated safety glass, which comprises supporting four sheets of glass of substantially equal thickness one upon the other and bending said sheets simultaneously to a predetermined curvature, and then bonding each two alternate glass sheets with an interposed layer of plastic material of substantially the same thickness as the glass sheets to form a sheet of safety glass.

2,314,326
LICENSE PLATE HOLDER AND LAMP ASSEMBLY
Robert Cadwallader, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application June 11, 1941, Serial No. 397,527
7 Claims. (Cl. 40—130)



1. A device for attaching a license plate to a motor vehicle surface comprising, an inner stamping adapted to be attached to said surface, an outer stamping having return-bent edge portions engaged by edge portions of the inner stamping, said return-bent portions being disposed between said edge portions of the inner stamping and said surface, said outer stamping having an opening, said inner stamping having a flanged opening, a lens bearing against the flange of said flanged opening and projecting through the opening of said outer stamping, attaching means for securing the license plate to at least one of said stampings so that said plate depends beneath said lens, and a finish strip overlying said attaching means.

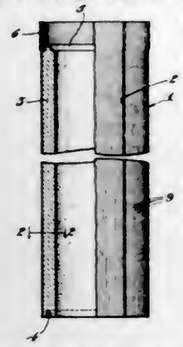
2,314,327
GLASS CUTTING APPARATUS
John L. Drake, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
Application April 7, 1941, Serial No. 387,194
10 Claims. (Cl. 49—52)



1. In glass cutting apparatus, a hand cutter adapted to be drawn across the glass to score the same and guided in its travel by a guide member, and a permanently magnetized metal holding member carried by said cutter and adapted to be magnetically adhered to the guide member as said cutter is drawn over the glass.

2,314,328
FLUE OR VENT PIPE
Frank C. Enderle, Los Angeles, Calif.
Application October 28, 1940, Serial No. 363,117
1 Claim. (Cl. 138—67)

In a flue or vent pipe, a cement pipe of a thickness to be self sustaining as a flue or pipe in itself and having longitudinal exterior corrugations of a depth less than the thickness of the wall of the pipe and a sheet metal pipe in which said cement pipe is retained and to which said cement pipe is adhered by reason of having been formed therein, said sheet metal pipe being longitudinally corrugated to correspond to and nest with the corrugations in the cement pipe, said cement and sheet metal pipes being substantially flush at certain corresponding ends thereof, the other end of the cement pipe being spaced inwardly from the other end of the sheet metal



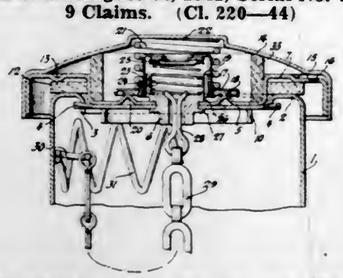
pipe, there being a circular tongue and a circular groove at ends of said cement pipe with the tongue at the end which is inwardly spaced from the corresponding end of the sheet metal pipe.

2,314,329
ART OF SPRAYING COATINGS, PARTICULARLY ASPHALTIC COATINGS AND THE LIKE
Walter M. Ericson, Milwaukee, Wis.
Application March 12, 1938, Serial No. 195,525
12 Claims. (Cl. 117—104)



1. A method of producing a stable quick setting dry asphalt coating, said method including the spraying of molten asphalt in the form of a coating upon the work, the admixture with the molten asphalt occurring immediately in advance of the work and the conjoint delivery to the work in the same spray of a liquid material comprising a liquid carrier vaporizable at the temperature of said molten asphalt and a substance borne by said carrier and adapted mechanically to resist subsequent flow of said asphalt following its setting, said substance being selected from a group consisting of sodium silicate and non-molten asphalt of higher melting point.

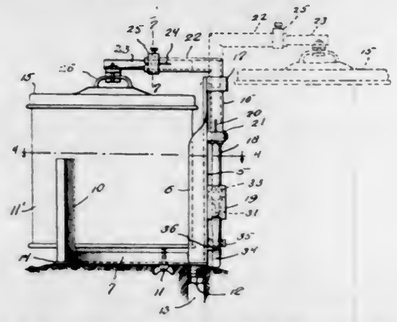
2,314,330
GASOLINE TANK SEALING CAP
Jesse E. Eshbaugh and Nelson Walker, Flint, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application August 22, 1941, Serial No. 407,890
9 Claims. (Cl. 220—44)



1. A valved closure cap for the filler spout

of a liquid storage tank or the like, including a pair of cupped stampings peripherally secured together with their central wall portions spaced apart to afford a chamber and one of the stampings having a chamber vent port therein, a centrally domed outwardly opening valve housed in the chamber and seated over an opening in the inner cap wall, a hollow stud in said opening securing a cap attaching member to said wall and having an upstanding skirt projected within the central dome of the valve to center the same, a coil spring centered within the skirt and an inwardly opening valve seated by said spring over an opening in the base of the dome of the outwardly opening valve.

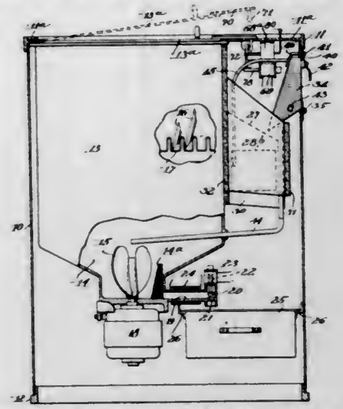
2,314,331
DEVICE FOR HOLDING GARBAGE CANS
Herbert B. Fallis, Wichita, Kans.
Application October 6, 1941, Serial No. 413,883
1 Claim. (Cl. 248—310)



In a garbage can support, a channeled upright having the lower end thereof reduced to cylindrical shape and screw threaded for threading into a ground anchor, a horizontally arranged V-shaped member having the apex thereof formed on the upright adjacent to and above the reduced lower end of said upright, a brace connecting the ends of the member, said member having channels in the diverging portions thereof and provided with slots located in the channels, L-shaped members including vertical and horizontal portions and having the horizontal portion slidable in the channels for the adjustment of the vertical portions toward and from the upright to receive and grip cans of different sizes, and thumb screws extending through the slots and threaded into the L-shaped members for releasably securing said L-shaped members in adjusted positions.

2,314,332
APPARATUS FOR WASHING ARTICLES
Donald K. Ferris, Geneva, N. Y.
Application June 10, 1936, Serial No. 84,504
27 Claims. (Cl. 141—9)

1. In washing apparatus, a container for the washing liquid, means including an electric motor for circulating the liquid within the container, a receptacle in which to heat the liquid, said receptacle having an outlet for the liquid connected with the container, electric heating means within the receptacle for heating a body of liquid therein normally below the level of said outlet to generate steam within the receptacle, means for maintaining the steam in such relation to the liquid as to cause it to exert pressure thereon sufficient to discharge it through said outlet to said container, and an energizing circuit for said motor and electric heating means, said heating means

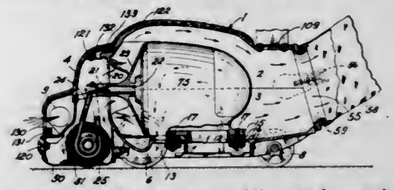


operating as a switch and being closed by contact with the liquid within the receptacle.

2,314,333
CHEMICAL PROCESS
Alfred W. Francis, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application June 28, 1939, Serial No. 281,651
3 Claims. (Cl. 196—10)

1. The process of alkylating a paraffin with an olefin which comprises absorbing the olefin in concentrated sulfuric acid to form an absorption mixture thereof and reacting a paraffin with the absorption mixture of olefin and concentrated sulfuric acid in the presence of concentrated sulfuric acid under alkylation conditions of operation to effect alkylation of the paraffin with said olefin, said alkylation reaction being carried out at a temperature between about 50 and about 60° C. and in the presence of sulfuric acid of such concentration that the percent concentration of the acid used plus one-seventh of the temperature used in degrees centigrade equals a numerical value of at least 100.

2,314,334
SUCTION CLEANER
Paul E. Frantz, Euclid, Ohio, assignor to The Apex Electrical Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application November 6, 1940, Serial No. 364,529
4 Claims. (Cl. 15—16)



1. A suction cleaner comprising a lower body portion provided with supporting wheels at its underside, a nozzle integrally formed in said lower body portion, an upper body portion secured to the lower body portion and forming therewith a passageway, a motor and fan unit mounted within said shell and contacting the lower wall thereof, whereby air moving through said pas-

sageway around the motor cools the motor, apertures formed in the wall of said shell and in the wall of the motor casing in the contact area between the motor and shell, means within the motor casing to induce a flow of ventilating air in through one of said apertures and out through another of said apertures.

2,314,335

HYDROCARBON DERIVATIVE

Frederick E. Frey, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application March 28, 1939, Serial No. 264,650
19 Claims. (Cl. 260—662)

1. A process for producing derivatives of paraffin hydrocarbons which comprises treating a paraffin of the type CH_3CR_3, where each R is any alkyl group of not more than four carbon atoms, with an elementary halogen whereby a substitution of halogen for hydrogen takes place forming isomeric alkyl halides, treating said alkyl halides so formed at a temperature between 175° and 700° C. for a period of time such that olefins and hydrogen halide are formed and alkyl halides of the type CH_2XCR_3, wherein X is a halogen, are relatively unaffected, and separating from the products of said treatment said olefins and hydrogen halide so produced.

15. In a process for producing derivatives of paraffin hydrocarbons, the improvement which comprises treating an alkyl halide mixture comprising a neoalkyl halide of the type CH_2XCR_3, where each R is any alkyl group of not more than four carbon atoms and where X is a halogen, along with other alkyl halides of approximately the same boiling point at a temperature between 175 and 500° C. for a period of time adapted to effect a decomposition of said other alkyl halides into olefins and hydrogen halide and to leave substantially unaffected said neoalkyl halide, and separating from the effluent of said treatment olefins and hydrogen halide so produced.

2,314,336

METHOD AND MEANS FOR SIMULTANEOUSLY TESTING AND FILTERING SOLUTIONS

Raymond H. Goodale, Worcester, Mass.

No Drawing. Application July 3, 1940, Serial No. 343,833
7 Claims. (Cl. 23—230)

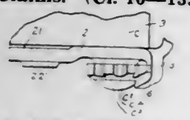
1. A filter paper for the determination of albumin in urine comprising a body of porous paper impregnated with sulphosalicylic acid and dried.

2,314,337

CONCEALED HINGE

Otto C. Gessler, Detroit, Mich.

Application July 22, 1940, Serial No. 346,875
3 Claims. (Cl. 16—135)



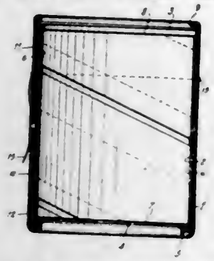
1. In a hinge of the character described, the combination, with a hinge strap member to be secured to a door and having an eye; of a bracket to be secured to a stationary member and comprising a back member and a pair of integral side members; and a hinge pin supported in openings in said side members and adapted to pass through the eye of said first-mentioned member and swingably support the same, said pin having a wedge-like head varying in height around the periphery and said bracket having a lug arranged in overhanging relation to said head and cooperating with the same to effect a clamping movement thereupon as said pin is rotated.

2,314,338

CONTAINER

Charles B. Graves, Maplewood, and Ralph B. Busch, Webster Groves, Mo., assignors to Sefton Fibre Can Company, Maplewood, Mo., a corporation of Delaware

Application November 8, 1940, Serial No. 364,784
5 Claims. (Cl. 229—5.5)



1. A sealed container comprising an outer paper tube, an inner paper tube snugly fitting said outer tube, a tubular lining of impervous material in said inner tube, a peripherally flanged paper end closure snugly fitting in one end of said inner tube, a peripherally flanged lining of impervious material for said end closure sealed along its peripheral edge to said tubular lining, the peripheral flanges of said end closure and its lining, together with the adjacent end portions of said paper inner and outer tubes and said tubular lining being all doubled back over the outer end face of said end closure, a breakable diaphragm of impervious material in said tubular lining at the other end thereof sealed along its peripheral edge to said tubular lining, and a peripherally flanged paper end closure snugly fitting said outer tube in abutting relation to said other end of said inner tube, the peripheral flange of said last mentioned end closure and the adjacent end of said paper outer tube being doubled back over the outer end face of said last mentioned end closure, the portion of the outer tube with the last mentioned end closure therein being detachable endwise from the remaining portion of said outer tube and from said inner tube, whereby access may be had to said breakable diaphragm.

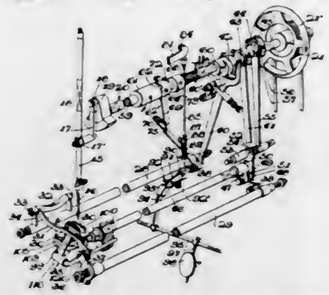
2,314,339

TUFTING MACHINE

Robert Hugh Bradwell, Dalton, Ga., assignor to Gerhardt H. Rauschenberg, Dalton, Ga.

Application May 22, 1940, Serial No. 336,660
11 Claims. (Cl. 112—79)

1. In a tufting machine, a work support, work feed means, a presser foot to cooperate with the work feed means, a reciprocatory needle bar, a looper to receive the loops from the needle, a blade to sever the loops upon the looper during the sewing period and leave at least one unsevered loop upon the looper, a drive-shaft, driving connecting means between the drive-shaft and the work feed means, driving connecting means between the drive-shaft and the reciprocatory needle bar including a clutch having a part mounted upon the drive-shaft, an element to raise the presser foot, and means to render the clutch inactive while the presser foot may be



in the lowered position and subsequently move the element sufficiently to raise the presser foot.

2,314,340

COATING GRANULAR MATERIALS AND PRODUCT THEREOF

John A. Brown and John Edmund Clarke, St. Paul, Minn., assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware

No Drawing. Application July 13, 1940, Serial No. 345,538. In Canada October 28, 1938
15 Claims. (Cl. 51—295)

1. An abrasive particle or grit having on the surfaces thereof a porous, foraminous coating adapted to foster strong adhesive bonding of a fluid adhesive to surfaces of said abrasive grit by capillary attraction, said foraminous coating being of unfused, unvitrified nature.

2,314,341

METHOD OF AND BATH FOR COATING MAGNESIUM

Robert W. Buzzard, Kensington, Md.

No Drawing. Application February 28, 1939, Serial No. 258,961
5 Claims. (Cl. 204—56)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

5. A method of forming protective coatings on magnesium and alloys thereof in which magnesium predominates, which comprises passing an electric current through the metal at a current density of from 0.5 to 100 amperes per square foot, while the metal is functioning as electrode in an aqueous alkaline solution of a water soluble chromate in which the sole effective coating agent is the chromate.

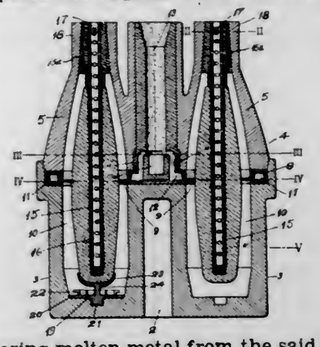
2,314,342

PRODUCING ARTILLERY PROJECTILE BODIES

Donald J. Campbell, Spring Lake, Mich.

Application March 18, 1941, Serial No. 383,937
6 Claims. (Cl. 22—113)

1. In producing artillery projectile bodies, the combination comprising a mold having upper and lower portions of ferrous metal in vertically spaced apart relation and a sand core like slab interposed between said upper and lower portions of which the upper portion has a plurality of cavities in which to form the front portions of projectile bodies, the lower portion having a plurality of cavities in which to form the base portions of projectile bodies, the sand core like slab having cavities portions in which to form the intermediate portions of projectile bodies and a ring gate cavity encircling each mold cavity and having gates extending therefrom to the respective mold cavity for delivering molten metal from the said ring gate to the mold cavity formed by the said upper, lower and sand core like slab, a vertically disposed runner sprue cavity extending vertically between all of the said mold cavities and having at its lower end a plurality of vertically disposed rectangular cross-sectional gates



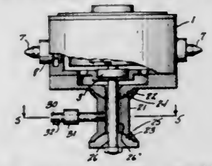
for delivering molten metal from the said runner sprue to the ring gate cavities, a core supported in each mold cavity for forming the explosive carrying cavity and supported in said cavity by a ferrous metal member comprising a cup engaging the base of said core, a base plate extending over the bottom of the mold cavity, and a neck like support extending between the said cup and base.

2,314,343

ERECTING DEVICE FOR GYRO VERTICALS

Leslie F. Carter, Leonia, N. J., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York

Application August 31, 1939, Serial No. 292,846
11 Claims. (Cl. 74—5)



7. In combination, a gyro-vertical having a gyro rotor bearing frame mounted for freedom about mutually perpendicular normally horizontal axes, a gyro rotor in said frame mounted to spin about a normally vertical axis, a rotatable member mounted on said frame situated in coaxial relation to the spin axis of the gyro rotor and including an unbalancing mass thereon, and air jet directing means situated in said member by which the gravitational reaction on said frame caused by the unbalancing mass is normally balanced and a reactive erecting force is exerted about a horizontal axis of the frame, which is effective when the frame is inclined from a normal position, to restore the spin axis of the gyro rotor to a normal position.

2,314,344

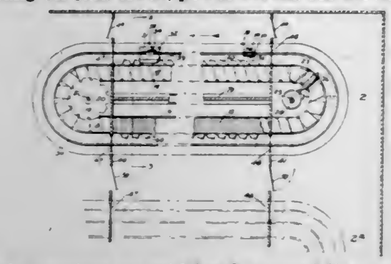
HUSBANDRY SYSTEM

Fay D. Cornell, Pasadena, Calif.

Application November 19, 1938, Serial No. 241,385
11 Claims. (Cl. 119—21)

1. In an air and light insulated building, a pair of batteries of compartments, a track surround-

ing said batteries, supply carriers hung on said track, power means for moving said carriers past the said compartments, means for carrying lights hung on said track, power means for moving said



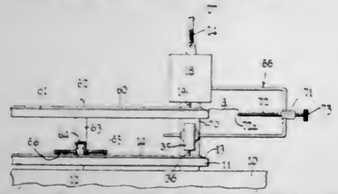
light carriers on said track around the compartments, a hollow partition between the pair of batteries, and air conditioning means for forcing air through said partition to the said compartments.

2,314,345

PHONOGRAPH DEVICE

Alphonse Cortella, New York, N. Y., assignor to Thomas K. Patterson, Rockville Centre, N. Y.

Application November 14, 1940, Serial No. 365,682
6 Claims. (Cl. 274—13)



1. In a phonograph device of the class described the combination of a first turn table, a pre-grooved disc on said first turn table, a second turn table, a recording disc on said second turn table, means for causing simultaneous rotation of said first and second turn tables, a tone arm, a recording unit attached to said tone arm and having a cutting needle adapted to plough a groove in said recording disc in accordance with the sound to be recorded, a tracker member, a guide member carried by said tracker member and adapted to ride in the spiral groove of said pre-grooved disc, and means for interconnecting said tracker member with said tone arm to cause said cutting needle to travel in a spiral path on said recording disc in conformity with the spiral groove on said pre-grooved disc, said last named means including a bracket arm adapted to extend transversely across the spiral groove of the pregrooved element, said track member being additionally slidable on said bracket arm so that after a predetermined amount of recording the tracker member may be slidably moved on said bracket arm to a new point thereon to enable another predetermined amount of recording to be made on the recording element with the same portion of the pregrooved element as previously used.

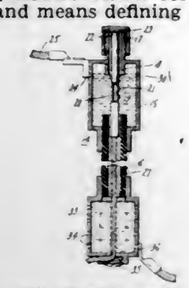
2,314,346

PROTECTIVE DEVICE

Charles R. Craig, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

Application October 14, 1941, Serial No. 414,917
7 Claims. (Cl. 200—120)

1. In a fuse device of the type at least partially submerged in a liquid dielectric, a tubular casing including an arc chamber of relatively large volume constructed of a material adapted to withstand high pressures, a fuse link in said casing including a fusible section located in said arc chamber, closure means for the top end of said casing, and means defining a small air vent



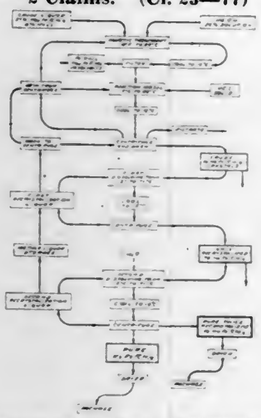
near the top end of said casing for permitting air to escape from said casing to allow the liquid dielectric to rise in said casing to surround said fusible section to a level above which a predetermined amount of air will be permanently trapped to cushion the shock resulting upon operation of said fuse device.

2,314,347

PREPARATION OF DIPOTASSIUM MONOSODIUM FERRICYANIDE

George H. Foster and Louis L. Lento, Jr., Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

Application March 2, 1940, Serial No. 321,932
2 Claims. (Cl. 23—77)



1. A method of making dipotassium monosodium ferricyanide which includes the following steps, adding solid potassium chloride to an aqueous solution of sodium ferricyanide in the molar ratio of from 1 to 4 mols of potassium chloride to one mol of sodium ferricyanide, heating the reaction mixture to substantially 65° C., thereafter cooling to substantially 15° C., and recovering the dipotassium monosodium ferricyanide crystals.

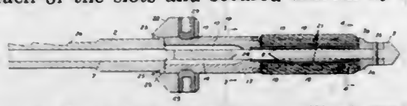
2,314,348

ABRADING TOOL

John C. Garand, Springfield, Mass.

Application January 23, 1942, Serial No. 427,929
6 Claims. (Cl. 51—184.1)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A tool for abrading interior surfaces comprising in combination, a supporting member adapted to be inserted in the work to be treated, longitudinal slots in said supporting member, fluid guide members inserted in part of each of said slots and detachably secured therein, abrading elements inserted in the remaining part of each of the slots and secured therein by the



abutting fluid guide member, resilient means forcing the abrading element into work engaging relation with the work, a fluid passage connecting that base portion of each slot underlying the abrasive elements with the fluid guide member and means for supplying lubricating fluid to the fluid guide member.

2,314,349

FLEXIBLE SHEETED ABRASIVE

Durward Ogden Guth, St. Paul, Minn., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Minnesota

No Drawing. Application March 14, 1929, Serial No. 347,159
5 Claims. (Cl. 51—298)

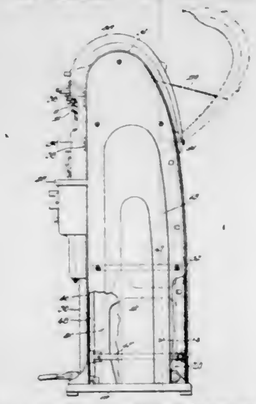
1. The new article of manufacture in the nature of sandpaper comprising a flexible sheet of fabric, a grit or layer of abrasive particles and a waterproof, stable adhesive bond including a condensation product of phenol and a polyhydric alcohol interposed between said grit and said sheet and of a nature to adequately maintain its bonding effect in substantially full measure throughout the effective abrading life of the abrasive article, even under sustained application of, or immersion in, liquids used in abrading operations but not materially affecting the flexibility of said sheet when dry.

2,314,350

HOUSING FOR SHOE MACHINES

Otto R. Haas, North Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application July 31, 1941, Serial No. 404,852
12 Claims. (Cl. 112—258)



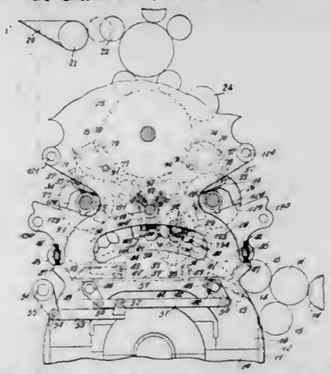
1. A shoe sewing machine having, in combination, a main supporting frame of generally rectangular cross-section having spaced vertical posts, stitch forming devices carried by the main frame and exposed at the front of the frame, a front and rear enclosing cover structure arranged to extend laterally beyond the frame and supported by the frame, a separate end plate forming with the laterally extending portions of the front and rear cover structure a compartment at the side of the frame posts, and braces acting inside the compartment to draw the edges of the front and rear cover structure and of the end plate together with a tight joint.

2,314,351

INKING MECHANISM FOR PRINTING PRESSES

Charles W. Harrold, University Heights, Ohio, assignor to Harris-Seybold-Potter Company, Cleveland, Ohio, a corporation of Delaware

Application February 6, 1940, Serial No. 317,571
16 Claims. (Cl. 101—147)



1. In a lithographic printing press, a form cylinder having a gap in its periphery and adapted to support a lithographic plate on the remainder of its periphery, means for dampening said plate, and means for inking said plate comprising a pair of storage rollers, form rollers arranged to contact said storage rollers and said plate for transmitting ink from the former to the latter, an ink supply fountain, and a group of ink transmitting rollers between said fountain and said storage rollers for conveying ink from the former to the latter including three rollers two of which are in contact with one of said storage rollers and the third of which is in contact with the other of said storage rollers, said group of ink transmitting rollers being arranged so that each of said three rollers receives ink from said fountain independently of the other two, whereby the tendency toward uneven inking of the plate resulting from uneven picking up of moisture by the form rollers as they pass alternately over the dampened plate and over said gap is minimized and uniformity of inking is enhanced.

2,314,352

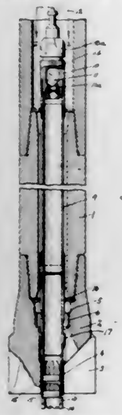
CORING APPARATUS

John E. Hoffoss, Houston, Tex., assignor to Reed Roller Bit Company, Houston, Tex., a corporation of Texas

Application November 23, 1940, Serial No. 366,820
20 Claims. (Cl. 255—72)

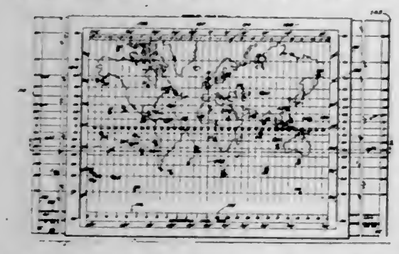
1. In a coring apparatus, a retractible core barrel, and a part of said core barrel having a rearwardly facing driving surface projecting from the side wall of said core barrel, the lower portion of said surface being inclined downwardly

and rearwardly with respect to the direction of rotation of said core barrel while drilling, and



the upper portion of said surface being inclined to a lesser degree than the lower portion.

2,314,353
NAVIGATIONAL COORDINATOR
Robert Edward Jasperson, United States Navy
Application April 19, 1941, Serial No. 389,334
6 Claims. (Cl. 33—1)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A navigational coordinator comprising a transparent rectangular chart of the earth drawn on the Mercator projection, scale means on said chart establishing the latitude and longitude of every point on the earth's surface shown thereon, and a scale of civil time inscribed thereon and having its origin at the meridian of Greenwich; in combination with a template slidable beneath said chart, said template bearing scales of declination and right ascension, based on the Mercator projection and drawn to the same scale as the latitude and longitude scales of said chart, and bearing indications of the positions of navigational celestial bodies in terms of the declination and right ascension of said bodies, said template having inscribed thereon a calendar representing the successive positions of the meridian of Greenwich with relation to the vernal equinox at 0 hours G. C. T. for each day of the year.

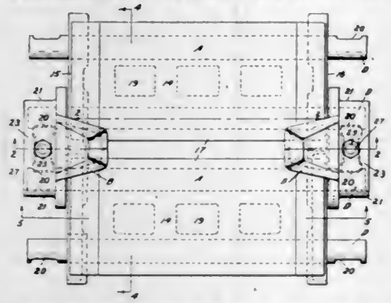
2,314,354
AWNING HANGER
Lorenz E. Jefferson, Baltimore, Md.
Application May 29, 1940, Serial No. 337,914
1 Claim. (Cl. 24—230.5)

A connector for detachably connecting an awning operating rope to the awning supporting cross bar, comprising an element having at one end a hook bill of broad flat inner and outer surfaces and of materially reduced thickness, the element remote from the hook bill providing a sleeve-like rope-receiving member arranged in line with the broad face of the hook bill and in a plane wholly below the upper end of the shank of the hook bill, the sleeve-like member having its upper wall



forming a continuation of the shank of the hook bill and being open below the upper wall at the end toward the hook bill, with the open end spaced from the hook bill a distance to receive a rope knot between the open end of the sleeve-like member and the wall of the hook bill, with such knot prevented from contacting with the awning by the upper wall of the sleeve-like member connected to the shank of the hook bill.

2,314,355
TRACK SHOE
Harry A. Knox, Washington, D. C.
Application May 7, 1941, Serial No. 392,291
8 Claims. (Cl. 305—10)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

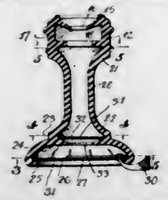


5. In a track for track laying vehicles, a track shoe having ground engaging cleats whose ground engaging surface area is substantially less than the projected area of the track shoe, inherent means carried by the track shoe for ejecting debris which tends to accumulate between cleats, and said means being operable with the motion of the track shoe.

2,314,356
COMPOUNDS OF THE ANTHRAQUINONE SERIES
Henry R. Lee, Pitman, N. J., and Charles A. Young, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 9, 1940, Serial No. 351,962
4 Claims. (Cl. 260—371)

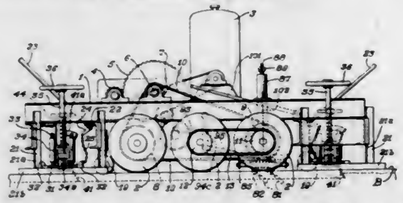
1. A dye for animal and related fibers comprising a water soluble alkanolamine salt of an anthraquinone sulfonic acid in which the alkanolamine radical contains at least two —OH groups, which compound exhibits materially increased solubility in water over the alkali metal salts of the corresponding sulfonic acid compound.

2,314,357
FAUCET ATTACHMENT
Carl E. Lehman, Chicago, Ill.
Application April 20, 1940, Serial No. 330,785
2 Claims. (Cl. 210—84)



1. A faucet attachment comprising an all rubber casing, said casing comprising a cylindrical head having apertured means therewithin for mounting it on the end of a faucet, a cylindrical neck, an outwardly flared strainer holding outlet portion, said neck being of a substantially smaller diameter than said head, the thickness of the wall of said neck being less than that of the wall of said head, a funnel-shaped portion, tapered in thickness, connecting said neck to said head and an outwardly flared funnel-shaped portion connecting said neck to said strainer holding outlet portion, whereby said outlet portion may be manually grasped to direct said outlet portion at any desired angle to said head, the bending taking place entirely within the neck without affecting the head and its mounting means on the faucet end.

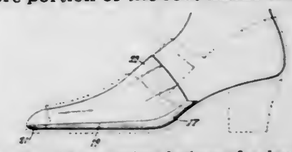
2,314,358
ASPHALT FINISHER AND SPREADER
William Hurst Lewis, Los Angeles, Calif.
Application June 17, 1939, Serial No. 279,684
27 Claims. (Cl. 94—44)



1. In a machine of the class described, carriage means, a grader plate unit mounted on the carriage means and comprising a plurality of separate grader plates positioned substantially end to end, means for adjusting said unit vertically with respect to the carriage means, and other means at the opposite ends of the plates for adjusting said plates vertically, and also angularly in a substantially vertical plane, for varying the angular relation of the lower edges of the separate plates with respect to each other.

2,314,359
HOSE PROTECTOR AND THE LIKE
John Francis Masterson, Evanston, Ill., assignor to Twinkle Toes, Inc., Chicago, Ill., a corporation of Illinois
Application August 4, 1939, Serial No. 288,292
3 Claims. (Cl. 36—10)

1. Means for displaying and protecting the forepart of a foot through an opening in a forepart of a shoe comprising a covering forming a completely closed pocket open at its rear end only, said pocket being formed of substantially tissue-thin, substantially waterproof, pliable, substantially transparent, non-friction material, said covering being expansible and adapted to be worn on the fore portion of the foot inside the shoe of a



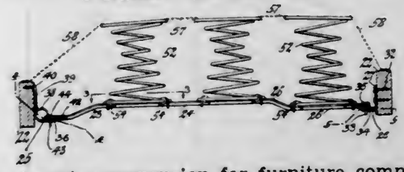
wearer, and said covering being of a length to enclose the forepart of a foot and only a substantial portion of the instep of the wearer.

2,314,360
PACKAGE HOLDER
Joseph P. McEnery, New York, N. Y.
Application March 12, 1941, Serial No. 382,938
6 Claims. (Cl. 248—346)



6. A holder for packages having a bottom passageway leading from one side to the other, said holder comprising a base having a recess to receive the bottom of the package, two slides supported by said base for movement toward and away from each other and having tongues adapted to enter opposite ends of said passageway, and means rotatable relative to said base for effecting movement of said slides toward and away from each other.

2,314,361
SPRING SUSPENSION FOR FURNITURE
Charles C. Meutsch, Buffalo, N. Y.
Application January 15, 1941, Serial No. 374,501
2 Claims. (Cl. 155—179)



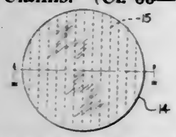
1. A spring suspension for furniture comprising a frame, a resilient supporting bar arranged within the frame, and means for mounting an end of said bar on said frame including a hanger attached to said frame and provided with an upwardly facing shoulder upon which an end of said bar rests and is adapted to slide lengthwise thereon said hanger being produced from a strip of metal the central part of which is bent into a horizontal fold the upper side of which forms said shoulder and vertical flanges which are arranged at the outer ends of the plies of said fold and are secured to said frame, and means for guiding and retaining said bar on said shoulder consisting of a pin arranged on said bar and projecting downwardly into a longitudinal slot formed in the folded portion of said hanger.

2,314,362
TERMITE CONTROL
Lindley E. Mills, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application February 23, 1942, Serial No. 431,905
8 Claims. (Cl. 117—147)

1. A method for protecting wood against at-

tack by termites which comprises pressure impregnating the wood with hexachloro-cyclohexadiene-1,4-one-3 as an active toxicant dissolved in an organic solvent.

2,314,363
HEAT RETARDING DEVICE
Harold R. Moulton, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application October 6, 1939, Serial No. 298,273
4 Claims. (Cl. 88—109)



1. A heat retarding unit comprising a plurality of substantially flat and substantially colorless pieces of material transparent to the visible rays and embodying means having a relatively high absorption of infra-red rays joined in contiguous edge to edge relation with each other by a transparent plastic bonding material with each of said pieces having a flat surface facing substantially in the same direction to produce a sheet-like optically homogeneous structure with the index of refraction of said pieces of material substantially the same as the index of refraction of the bonding material and with the opposed outer surfaces of the sheet-like optically homogeneous structure being optically equivalent to relatively continuous surfaces so that the resultant unit will have a minimum light diffusing effect and with the said bonding material so associated with said pieces of material as to permit independent expansion and contraction of said pieces relative to each other.

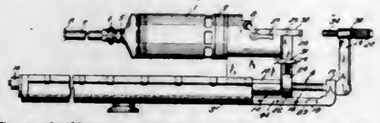
2,314,364
OIL AND METHOD FOR STABILIZING SAME
Sidney Musher, New York, N. Y., assignor to Musher Foundation, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application July 31, 1940, Serial No. 348,826
9 Claims. (Cl. 260—398.5)

2. A process of stabilizing glyceride oils subject to oxidative deterioration whereby they become less subject to such deterioration, which comprises adding thereto and dispersing therein a small amount of a phosphorous compound selected from the group consisting of the phosphatides, phosphoproteins, phospholipins, phosphoric acid and the salts of phosphoric acid and a small amount of a polyhydroxy aromatic compound, and heating to in excess of 250° F while the oil is under sub-atmospheric pressure.

2,314,365
STABILIZING GLYCERIDE OILS
Sidney Musher, New York, N. Y., assignor to Musher Foundation, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application October 30, 1942, Serial No. 463,895
7 Claims. (Cl. 260—398.5)

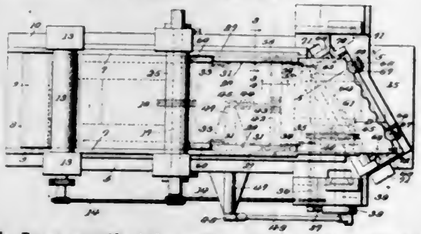
1. A process of stabilizing glyceride oils subject to oxidative deterioration whereby they become less subject to such deterioration, which comprises adding thereto and dispersing therein a small amount of a phosphorus compound selected from the group consisting of the phosphatides, phosphoproteins, phospholipins, phosphoric acid and the salts of phosphoric acid and a small amount of gum guaiac, and heating to in excess of 250° F.

2,314,366
DRILLING APPARATUS
Win W. Paget, Michigan City, Ind., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application April 21, 1942, Serial No. 439,894
15 Claims. (Cl. 255—47)



1. In a drilling apparatus, a guide shell providing a longitudinal guideway, a drilling motor mounted on said guide shell for movement along the guideway thereof, means for feeding said drilling motor along the shell guideway, said guide shell being so constructed as to permit movement of said drilling motor thereon into a position rearwardly of the shell guideway wherein said motor is supported independently of the guideway, and means for mounting said motor, when in said rearward position, for movement laterally selectively into positions at either side of said guide shell.

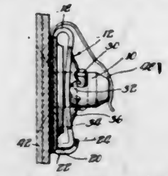
2,314,367
SCROLL STRIP FORMING APPARATUS
Paul E. Pearson, Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application December 17, 1941, Serial No. 423,385
14 Claims. (Cl. 164—49)



1. In a scroll strip cutting machine, means for feeding step-by-step a continuous web of scroll strip material, and means for severing successive strip lengths from the web by cuts extending transversely of the web in angular relation to the line of feed, thereby to form individual scroll strips each having parallel side edge portions and parallel end edge portions with said side edge portions bearing acute angular relation to the end edge portions, said severing means including means for forming a notch in at least one end edge portion disposed to present an abutment edge bearing right angular relation to said side edge portions.

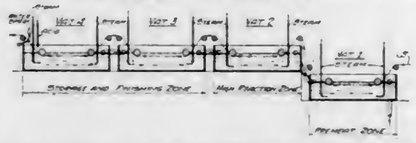
2,314,368
FASTENER DEVICE
Ougljesa Jules Poupitch, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois
Application April 8, 1942, Serial No. 438,203
5 Claims. (Cl. 85—5)

1. A sheet metal fastening device having a portion adapted to be secured to a support, a locking section normally spaced from the plane of said first mentioned portion and centrally apertured to accommodate a rotary stud equipped with oppositely disposed lateral lugs and carried by a member adapted to be detachably associated with said support, the material of the locking sec-



tion in the vicinity of said central aperture being outwardly stressed to provide arcuate cam surfaces projecting outwardly beyond the surface of the locking section stock for cooperation with said lateral lugs, and a sheet metal stud ejecting spring element having a free extremity positioned externally of said cam surfaces.

2,314,369
CONTINUOUS STEEL STRIP PICKLING
Thomas F. Reed, Dormont, Pa., assignor to United States Steel Corporation of Delaware, a corporation of Delaware
Application August 22, 1941, Serial No. 407,967
2 Claims. (Cl. 148—8)



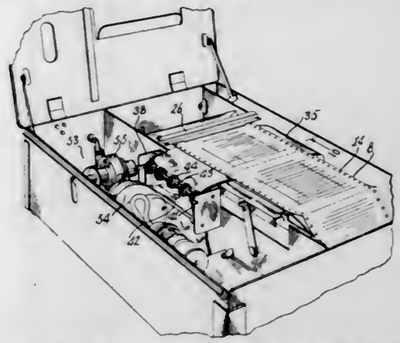
1. A continuous steel pickling method comprising producing a continuous flow of pickling solution, heating said solution above atmospheric temperature, continuously passing said steel through said flow in an opposite direction, said steel being heated by said solution during its passage therethrough until it reaches a zone in said flow where pickling action of said solution is at a maximum rate, sampling said solution in said zone and adjusting the acidity of said flow in accordance with the result of said sampling to maintain a predetermined pickling rate in said zone.

2,314,370
MARINE PROPULSION
August Rietzke, Gordons Corners, N. J., assignor, by mesne assignments, to Bow Arch Corporation, Mercer County, N. J., a corporation of New Jersey
Application January 16, 1941, Serial No. 374,759
3 Claims. (Cl. 115—37)



1. The combination with a hull of a boat and a rudder at one end portion thereof; of propellers at opposite sides of the center line of the boat ahead of the rudder, the axes of the propellers converging toward the bow, said axes being outwardly of and in parallelism with imaginary lines from the center of frictional resistance on the surface of the hull to points aligned in a direction at right angles to the center line of the hull at the rudder post, each point being spaced from said center line of the hull at the rudder post in inches a distance determined by the quotient resulting from dividing the distance in feet over the outside surface of the hull at the water line from the bow to the stern of the hull by one-half of the greatest breadth in feet of the hull at the water line, the axial centers of the propellers being alined in a direction at right angles to the center line of the hull, each propeller being positioned such a distance to one side of the center line of the boat as to cause the wash of the propeller to strike the blade of the rudder.

2,314,371
RECORDING APPARATUS
John Quirk Sherman, deceased, late of Dayton, Ohio, by Katherine M. Sherman, William C. Sherman, and Wellmore B. Turner, executors, Dayton, Ohio, and Albert W. Metzner, Dayton, Ohio; said Metzner assignor to said Katherine M. Sherman, William C. Sherman, and Wellmore B. Turner, executors of said John Quirk Sherman, deceased
Application July 21, 1941, Serial No. 403,292
4 Claims. (Cl. 282—15)

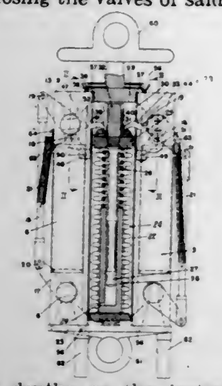


1. An autographic register, including a compartment for a packet of plural zigzag interfolded superposed printed record strips, a revoluble pin type feeding device having progressive simultaneous engagement in longitudinally spaced holes in the plural record strips for advancing the strips in unison and presenting corresponding printed areas of the superposed record strips in registry with each other and in record receiving position, a writing tablet over which the record strips are advanced by the pin wheel, a second strip feeding device for progressively advancing at least one strip of transfer material transversely of the record strips and in interleaved relation therewith, a pawl and ratchet actuating means for the second strip feeding device, a traveling trip member moving in unison with the pin type feeding device having operative engagement with the pawl and ratchet mechanism for actuating the latter to effect intermittent feeding movement of the transfer strip.

2,314,372
SEA SAMPLER
Athelstan F. Spilhaus, University Heights, N. Y., assignor to Submarine Signal Company, Boston, Mass., a corporation of Maine
Application April 18, 1941, Serial No. 389,219
10 Claims. (Cl. 137—18)

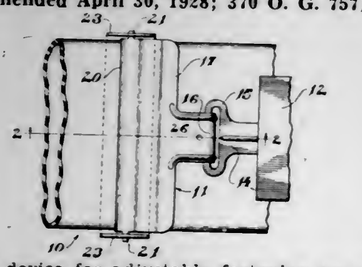
1. A sea sampler comprising a plurality of water collecting bottles, each having valves adapted to be opened and closed, means for setting the

valves in open position and pressure-responsive means operatively coupled to said valves for successively closing the valves of said bottles at pre-



determined depths as the instrument is submerged and thereafter maintaining said valves closed.

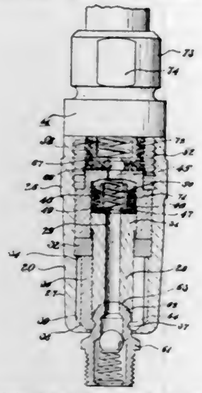
2,314,373
BUCKLE
Lloyd A. Straits, United States Navy
Application September 30, 1941, Serial No. 412,967
3 Claims. (Cl. 24—192)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A device for adjustably fastening an easily puncturable inflatable belt consisting of a buckle comprising a base member having a transverse rounded depression therein strengthening the base member against bending, a clamping arm, a rounded portion on the end of said clamping arm, means for pivoting said clamping arm to said base member with said rounded portion eccentric to said pivoting means, whereby said clamping arm may move said rounded portion to and from cooperating position with the transverse depression in the base member to clamp the belt therebetween.

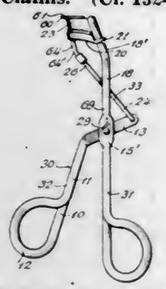
2,314,374
COUPLER
Edwin P. Sundholm, Albert City, Iowa
Application March 21, 1941, Serial No. 384,463
2 Claims. (Cl. 285—169)

1. A multi-jawed chuck-type hydraulic snap-on coupler for use with headed fluid-receiving nipples, including a generally tubular housing shall having an apertured tapered forward end, said forward end having a generally annular inclined inner camming surface, said housing shell having a generally cylindrical front bore, a generally cylindrical larger-diametered rear bore and a generally annular shoulder separating said front and rear bores, an apertured plug member fitted within the rear end of said housing shell having a generally cylindrical bore in the inner portion thereof, an axially-apertured cylindrical sealing plunger fitted within said front bore and extending rearwardly into said rear bore and having an enlarged cylindrical rear portion, an annular ring slidably fitted about the main body of said sealing plunger and slidably disposed within said rear bore intermediate said annular shoulder and the enlarged rear portion of said sealing plunger, a plurality of independent gripping jaws circumferentially disposed within said front bore and about said sealing plunger having their rear ends abutting said annular ring and having inturned gripping jaws in operative juxtaposition to the inner camming surface of said housing shell, a generally cup-like cylinder slidably mounted within said



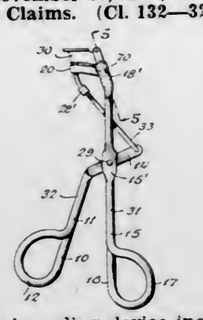
rear bore behind said annular ring having a cylindrical inner bore and having a reduced-diameter apertured rear wall, the enlarged rear portion of said sealing plunger being slidably disposed within the cylindrical bore of said cup-like cylinder and being held therewithin by said annular ring, a spring disposed within the bore of said cup-like cylinder and urging said sealing plunger forwardly, the reduced-diameter rear wall of said slidably-mounted cup-like cylinder being slidably disposed within the cylindrical bore of said plug member and a spring disposed within said last-mentioned bore urging said cup-like cylinder, said annular ring and said gripping jaws forwardly within said housing shell.

2,314,375
EYELASH CURLER
William R. Tuttle and Charles W. Stickel, Rochester, N. Y., assignors to The Kurlash Company, Inc., Rochester, N. Y., a corporation of New York
Application November 27, 1941, Serial No. 420,712
4 Claims. (Cl. 132—32)



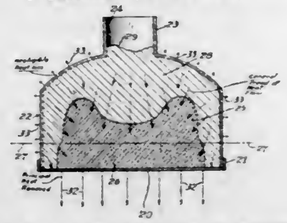
1. In an eyelash curling device of the class described a curved stationary upper jaw; an enlargement on the upper edge of said jaw increasing the area of contact of the upper edge of said jaw against the eyelid of a user when the same is in use.

2,314,376
EYELASH CURLER
William R. Tuttle and Charles W. Stickel, Rochester, N. Y., assignors to The Kurlash Company, Inc., Rochester, N. Y., a corporation of New York
Application November 27, 1941, Serial No. 420,713
8 Claims. (Cl. 132—32)



1. An eyelash curling device including: a vertical arm having a channel therein; a movable jaw having a follower element thereon; said follower element being movable along said vertical arm within said channel, said arm preventing said element from contacting the face of the user when said jaw is moved during the normal operation of the device.

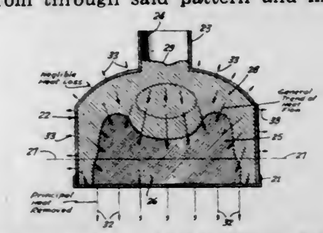
2,314,377
MOLDING FLASK
Walter J. van Rossem, Los Angeles, Calif., assignor to Surgident, Ltd., Los Angeles, Calif., a corporation of California
Application March 15, 1940, Serial No. 324,109
5 Claims. (Cl. 18—33)



1. A flask for casting a mold of solidified thermoplastic material about a pattern, comprising: a base of high heat conductivity adapted to receive the pattern in heat-receiving relation thereto; and an upper portion of low heat conductivity.

2,314,378
MOLDING METHOD
Walter J. van Rossem, Los Angeles, Calif., assignor to Surgident, Ltd., Los Angeles, Calif., a corporation of California
Original application March 15, 1940, Serial No. 324,109. Divided and this application November 18, 1941, Serial No. 419,565
3 Claims. (Cl. 18—55.1)

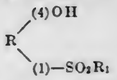
1. In the preparation, in a casting operation, of a mold of solidified thermoplastic molding composition from a pattern having a surface to be reproduced, the steps which comprise: positioning said pattern; placing a body of heated thermosplastic molding composition in fluent condition about said pattern and in contact with said surface to be reproduced; cooling said body to a condition of solidification by withdrawing the principal proportion of the contained heat therefrom through said pattern and maintain-



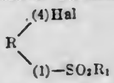
ing the temperature of all portions of said body at a value not less than the solidification temperature of said molding composition until adjacent portions of said body inwardly removed towards said pattern have reached such solidification temperature, to cause a progressive outward solidification of said molding composition from said surface.

2,314,379
PROCESS FOR PRODUCING PARA-HYDROXYARYLSULPHONES
Werner Zerweck and Walter Brunner, Frankfort-on-the-Main-Fechenheim, Germany, assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application October 8, 1940, Serial No. 360,238. In Germany November 4, 1939
1 Claim. (Cl. 260—607)

Process for producing para-hydroxyarylsulphones of the general formula:



wherein R stands for a member of the group consisting of benzene and naphthalene radicles, R_1 for a member of the group consisting of alkyl, a phenyl, aralkyl and cycloalkyl radicles which process consists in heating a parahalogeno-arylsulphone of the general formula:

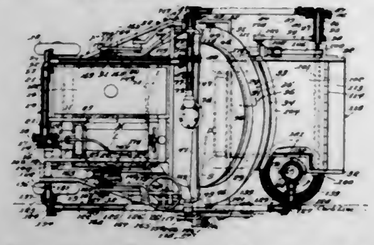


wherein R and R_1 have the aforesaid significance and Hal represents halogen to a temperature of between 190 and 220° C. under autogenous pressure with caustic potash.

2,314,380
PHOTOGRAPHIC REVERSAL PROCESS
James R. Alburger, Merion, Pa., assignor to Radio Corporation of America, a corporation of Delaware
No Drawing. Application May 31, 1940, Serial No. 338,051
7 Claims. (Cl. 95—88)

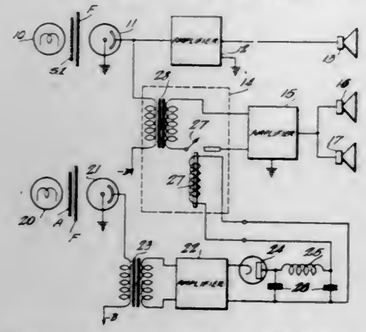
1. The reversal print producing method which includes developing a silver halide emulsion in a developer containing balanced amounts of alum and alkali and a quantity of sodium sulphite approaching saturation, bleaching the film, exposing and redeveloping.

2,314,381
STREET SWEEPING MACHINE
Oliver J. Arnett, Santa Ana, Calif.
Application December 2, 1940, Serial No. 368,268
6 Claims. (Cl. 15—86)



1. In a street sweeping machine having a brush at the rear portion and a sweepings receiving hopper on the forward portion, an approximately circular shaped casing mounted on the frame between the brush and the hopper, the said casing being disposed in a plane transverse of the frame and inclined longitudinally from the vertical and having a flattened inlet opening at the lower portion disposed to receive sweepings from the brush and having an outlet at the upper portion discharging into the hopper, a plurality of blades mounted to rotate in the said casing about an axis coincident with the axis of the casing to convey matter arcuately therein from the inlet to the outlet, and means for rotatably actuating the said blades so that each portion thereof is maintained in contact with the casing.

2,314,382
ELECTRICAL SOUND REPRODUCTION
Max C. Batsel, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application October 31, 1939, Serial No. 302,197
2 Claims. (Cl. 179—100.3)



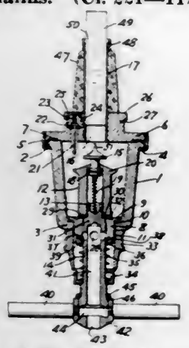
1. In combination, means for translating sound from a record into electrical impulses, means for amplifying said impulses, localized reproducing means connected to said amplifying means for translating said impulses into sound, additional amplifying means for independently amplifying said impulses and separated reproducing means connected to said additional amplifying means for converting said impulses into sound over an extended area, means for translating control impulses into a control current, and means actuated by said control current for causing the operation of said additional amplifying and reproducing means, whereby said additional reproducing means will function only when control impulses are provided.

2,314,383
FOUNTAIN PENCIL
Edward C. Berners, deceased, late of Fond du Lac, Wis., by Catherine Pilon, administratrix, Fond du Lac., Wis., assignor to Mary Pilon Braun, Fond du Lac, Wis.
Application August 28, 1941, Serial No. 408,636
1 Claim. (Cl. 15—136)



A fountain pencil for the distribution of mucilage or the like comprising, a flexible bulb container, a rigid discharge nozzle extending therefrom having an open end, a combination spreader nipple and cork for the same comprising a shouldered sleeve, a soft rubber perforated nipple having its shank encasing the sleeve, an integral neck extending from the upper end of the bulb having a downwardly cupped restricted opening in its end, and a closed end hollow jacket secured to the neck and extending thereabove to form an air dome in conjunction with the cupped end of said neck.

2,314,384
DEVICE FOR DELIVERING MEASURED QUANTITIES OF LIQUID
Frederick William Berwick and Albert George Berwick, Streatham, London, England, assignors to The De Laval Separator Company, New York, N. Y., a corporation of New Jersey
Application July 24, 1940, Serial No. 347,324
In Great Britain July 24, 1939
11 Claims. (Cl. 221—112)

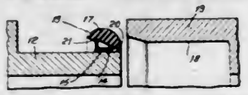


1. A device for delivering measured quantities of liquid comprising a measuring chamber composed of a body and a cover separable therefrom and carrying a supply conduit, an operating member extending from within said chamber through the bottom thereof and reciprocable to open communication between said conduit and said chamber and prevent entering liquid from discharging from said chamber and alternately therewith to close communication between said conduit and chamber and allow liquid to be discharged from said chamber, the bottom of the measuring chamber including a closure sleeve within which said operating member is reciprocable, a member adapted to hold the cover to said body and which is operable to allow the cover to be removed therefrom, and a locking member holding said sleeve in rigid relationship with said body and which is removable to allow the withdrawal of the operating member and closure sleeve through the open top of the measuring chamber after the cover is removed therefrom.

2,314,385
PREPARATION OF ALIPHATIC PERACIDS BY OXIDATION OF ALDEHYDES
Joseph E. Bludworth, Cumberland, Md., assignor to Celanese Corporation of America, a corporation of Delaware
Application February 21, 1940, Serial No. 320,083
6 Claims. (Cl. 260—502)

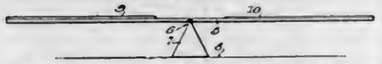
1. Process for the production of aliphatic peracids from the corresponding aliphatic aldehyde, which comprises oxidizing said aldehyde by preheating the vapor of said aldehyde to about 200° F. in admixture with an amount of oxygen theoretically insufficient to oxidize more than about 30% of said aldehyde to the per-acid, and passing the preheated mixture at a linear velocity of at least 30 feet per second through a reaction zone at a temperature of 350 to 450° F., the time of contact being from 0.1 to about 1 second and the pressure being substantially equal to atmospheric pressure.

2,314,386
PIPE JOINT
William R. Brend, East Orange, N. J., assignor to Lock Joint Pipe Company, East Orange, N. J., a corporation of New Jersey
Application January 14, 1942, Serial No. 426,712
6 Claims. (Cl. 285—163)



1. A pipe joint comprising a spigot having an exterior bearing surface, a bell having an inner bearing surface providing clearance between itself and the bearing surface of the spigot, a sealing gasket mounted upon the bearing surface of said spigot, a tensioned band overlying a portion of said gasket and producing compression in said portion of the gasket to cause frictional adherence thereof with the bearing surface of the spigot, said gasket having a bead hingedly connected with the portion of said gasket which is held in frictional adherence upon said spigot, said bead extending beyond the diameter of the bearing surface of the bell when unrestrained but being displaceable on its hinge to form a gasket into a compressed sealing closure between the bearing surfaces of said bell and spigot.

2,314,387
BALANCED DIET SELECTING APPARATUS
Emma Victoria Carlsson, Greensboro, N. C.
Application October 20, 1941, Serial No. 415,820
12 Claims. (Cl. 35—1)



1. In apparatus of the character described, a centrally fulcrumed balancing board, means adapted to be placed over a predetermined area on one end of the board to illustrate food and beverage elements collectively comprising an example of a balanced diet meal, and a plurality of selective pieces each illustrating a food or beverage element and adapted to be placed in a single layer and respectively on predetermined areas on the other end of the board in number and relative arrangement equivalent to the number and relative arrangement of food and beverage elements illustrated on said example meal illustrating means and collectively effective together with said example means for bringing about equal distribution of weight on opposite sides of said fulcrum only when the meal selected by the selected plurality of pieces balances said example meal.

2,314,388
TREATMENT OF HYDROCARBONS
Joseph A. Chenicek, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Original application December 28, 1939, Serial No. 311,316. Divided and this application July 26, 1940, Serial No. 347,765
18 Claims. (Cl. 44—73)

1. A method for suppressing the catalytic action of metal compounds on gum formation in hydrocarbon distillate which comprises adding to the distillate a polyhydroxybenzal-aminophenol.

2,314,389
SELF-IGNITING CIGARETTE
Alfred D'Annunzio, Roosevelt, N. Y., Antonio D'Annunzio, Giuseppe De Blasio, and Concetta Calderone, administrators of said Alfred D'Annunzio, deceased
Application February 27, 1941, Serial No. 380,931
1 Claim. (Cl. 131—7)



A self-lighting cigarette, comprising a tubular wrapper, tobacco shreds therein, said shreds at one end of the wrapper being spaced from the edge thereof and having a conical recess formation in the central portion of that end, a pellet consisting of shredded tobacco, adhesive binder, and other burnable material completely filling the recess and peripherally spaced from the interior surface of the wrapper on all sides, and a striker of ignitable material secured to the pellet and projecting outwardly past the edge of the cigarette, the maximum width dimension of the striker being substantially less than the smallest transverse dimension of that portion of the pellet facing outwardly at that end of the cigarette in which the pellet is located.

2,314,390
METHOD AND APPARATUS FOR ROLLING SCREWS
William A. De Vellier, Newark, N. J., assignor to New Process Screw Corporation, Waterville, Conn., a corporation of Delaware
Application August 17, 1939, Serial No. 290,621
8 Claims. (Cl. 80—9)



1. The method of rolling threads on the shank and pointed portions of a screw blank having a

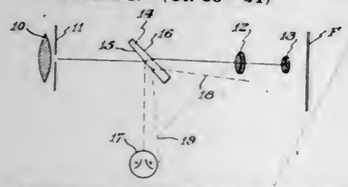
pointed end portion having an excess of metal thereon greater than required for a conical point and a shank portion above said pointed end, which comprises rolling threads in the shank and pointed portions of said blank by applying progressively increasing radial inward pressure at equally spaced flat lanes of equal width extending spirally of said portions to force the metal radially inwardly to form spaced spiral lands of equal width and permitting the displaced metal to flow radially outwardly between said spiral lanes of pressure while confining said radial outward flow of metal to sharp continuous equally spaced ridge means of equal width while positively inhibiting any axial extrusion at the tip of said pointed end to provide two continuous equally spaced thread means of even width each tapering to a sharp cutting edge extending spirally downwardly throughout said portions, of substantially equal height throughout said shank portion and of progressively decreasing height in said pointed portion and terminating in a downwardly tapered diametric cutting edge at the tip thereof, the inward radial pressure being predetermined to extrude the metal radially inwardly in said pressure lanes in an amount sufficient to extrude sufficient metal radially outwardly to form said threads.

2,314,391
SCREW AND ITS METHOD OF MANUFACTURE
William A. De Vellier, New York, N. Y., assignor to New Process Screw Corporation, Waterville, Conn., a corporation of Delaware
Application August 6, 1941, Serial No. 405,678
26 Claims. (Cl. 80—61)



10. The method of manufacturing a rolled double threaded screw which comprises shaping a length of stock to form a shank and a pointed portion having an excess of metal thereon greater than required for a conical pointed portion and rolling continuous double threads on said shank adjacent said pointed portion and displacing said excess metal on said pointed portion to form continued threads on said pointed portion, each terminating in sharp incising means projecting substantially axially downwardly of said pointed portion.

2,314,392
MONITORING DEVICE
Glenn L. Dimmick, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application January 2, 1941, Serial No. 372,812
4 Claims. (Cl. 88—24)



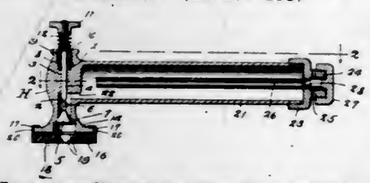
1. In combination with a sound recording optical system, a monitoring device and a reflector located in the light path of said optical system for directing light to said monitoring device, said reflector including a wedge shaped refractive member located at an angle to the light path with its thinner edge toward the incident light, the angle of the wedge being such that the light of the main recording beam reaches the same point that it would if the refractive member were not present and the reflected secondary beams are directed entirely outside of the normal optical path.

2,314,393
TOBACCO USER'S APPLIANCE
Frank Dougherty, Huntington Park, Calif.
Application October 8, 1941, Serial No. 414,197
3 Claims. (Cl. 131—170)



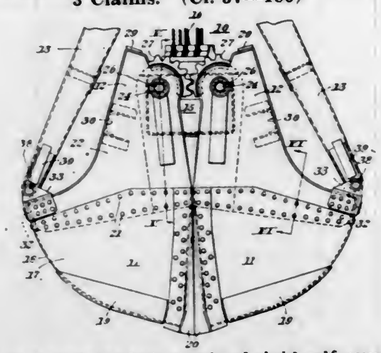
1. A device of the character described comprising a tube of sufficient length to completely receive a cigarette, the inside diameter of the tube being substantially the same as the outside diameter of the cigarette, and means associated with said tube for engaging and pressing the tobacco back from the tip of the cigarette paper without damaging or mashing the paper or the cigarette, said means including a plunger slidably mounted in the tube and having its outer end normally projecting out of the tube, the inner end of said plunger being of a diameter slightly less than that of the cigarette paper surrounding the tobacco, whereby upon movement of the plunger toward a cigarette positioned in the tube, the inner end of the plunger will enter the cigarette and press the tobacco back from the tip of the cigarette paper without damaging or mashing the paper or the cigarette.

2,314,394
SHOE POLISHER
Luther S. Guy, Brentwood, Md.
Application January 13, 1942, Serial No. 426,617
2 Claims. (Cl. 15—138)



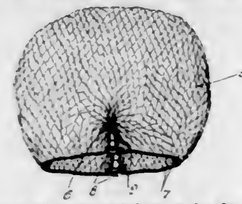
1. In an applicator for liquids, a tubular reservoir, an applying head on one end of the reservoir and in communication therewith, an inner closure, an air vent tube secured to the inner closure and extended into the reservoir, into close relation to the head, the inner closure having an air inlet discharging into the tube, an outer closure, a spur valve carried by the outer closure and controlling air flow from the inlet to the tube: means for attaching the inner closure detachably to the opposite end of the reservoir, and the tube being spaced from the head, whereby the inner closure and the tube may be removed in one piece, to enable the tube to be cleaned without disturbing the head: and means for attaching the outer closure detachably to the inner closure, whereby the outer closure and the valve may be removed in one piece, to open the tube for cleaning.

2,314,395
CLAMSHELL BUCKET
Edward L. Harrington, Pittsburgh, Pa., assignor to Blaw-Knox Company, Pittsburgh, Pa., a corporation of New Jersey
Application October 17, 1941, Serial No. 415,387
3 Claims. (Cl. 37—186)



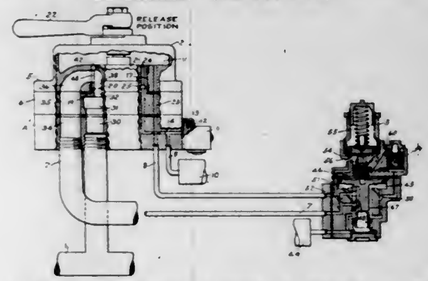
1. In a grab bucket, a pair of rigid self-supporting hinge frames, each adapted to have one of a pair of cooperating bucket scoops secured thereto, each frame comprising a pair of spaced side plates roughly triangular in outline and having a generally horizontal bottom edge, a generally vertical inner side edge and an outer side edge sloping downwardly and outwardly, the outer corners of the plates being cut off to provide generally vertical outer side edge portions, a back plate abutting said last mentioned portions and having a flange overlying said outer side edges at the lower portions thereof, the upper ends of said side plates being shaped to provide stop portions on the two frames effective to limit the opening movement thereof, flange plates bent to the shape of said outer side edges and welded flatwise thereto and extending from said back plate upwardly along said outer side edges and around said stop portions, a cross bracing member extending between and secured to said flange plates and presenting a flat surface in engagement therewith, said flange plates lapping said flat surface, and corner brackets fitting over the outer lower corners of said frame and having portions in flatwise engagement with said back plates, said side plates and said flange plates.

2,314,396
HAIR NET
Sidney Henry, New York, N. Y.
Application December 8, 1942, Serial No. 468,179
2 Claims. (Cl. 132—49)



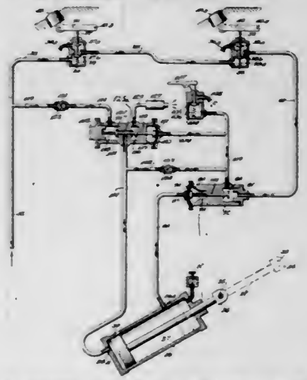
2. A hair net comprising a body formed from a strip of mesh fabric having its opposite ends gathered and tied so that the longtudinal edges of the strip will combine to form a circumferential border which constitutes an opening for the net, and resilient elements on opposite sides of the net and each element connecting spaced points of said strip along said border, which points are on opposite sides of and substantially equidistant from an adjacent gathered end, said resilient elements acting in direct alinement with said border to contract the latter and thereby constrict the original size of said opening and to shift the positions of said gathered ends so that they will be between the border of the constricted opening and the crown of the net, and each element also combining with the adjacent gathered end of the net and with the portions of said edges between said points of connection to form an aperture in the body of the net.

2,314,397
LOCOMOTIVE BRAKE EQUIPMENT
Ellis E. Hewitt, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application February 28, 1941, Serial No. 380,972
31 Claims. (Cl. 303—59)



1. In combination, a pipe, a source of fluid pressure, and a valve device comprising a casing having a bore and a valve seat at one end of said bore, a cylindrical rotary valve disposed in said bore in contact with said seat and the side wall of said bore and cooperative with said seat and side wall to form a communication extending through said seat and side wall through which fluid under pressure is adapted to flow from said source to said pipe.

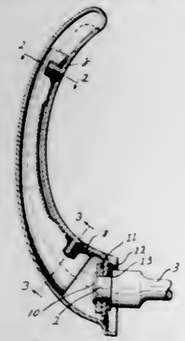
2,314,398
GARMENT PRESSING MACHINE
Walter A. Hoch, Forest Hills, N. Y., assignor to New York Pressing Iron Company, Inc., New York, N. Y., a corporation of New York
Application December 24, 1940, Serial No. 371,528
2 Claims. (Cl. 121—38)



1. In a press, the combination of a cylinder which has a piston located movably therein, the rear portion of said cylinder having a rear port

through which fluid under pressure is admitted to actuate the piston in its forward power stroke to close the press, said cylinder having a second port which is located intermediate said rear inlet and the front end of the cylinder, said piston being located rearwardly of said second port when said piston is located at the rear end of its movement, a first inlet branch-line, a second inlet branch-line, each inlet branch-line being adapted to transmit fluid under pressure, each said branch-line being connected to said rear port, said first branch-line having a first valve which is biased to normal open position, said second branch-line having a second valve which is biased to normal closed position, first fluid-operated pilot-means connected to said first branch-line and adapted to open said second valve under the fluid pressure in said first branch-line, second fluid-operated pilot-means adapted to close said first valve, a pipe line which connects said second pilot-means and said second port, operator-controlled exhaust-valve means adapted to relieve both said pilot-means from fluid pressure.

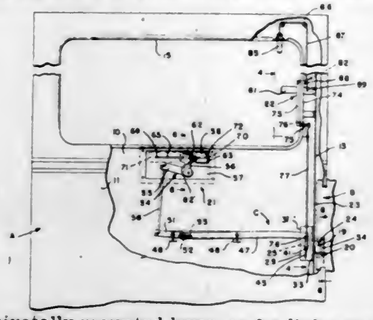
2,314,399
OUTSIDE DOOR HANDLE
John Willis Jackson, Dearborn Hills, and Roy H. Dean, Detroit, Mich., assignors to Ternstedt Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application February 7, 1942, Serial No. 429,854
5 Claims. (Cl. 292—347)



1. A sheet metal handle, particularly an outer handle for an automobile door, comprising a heavy metal stock forming a stem, one end of which can be fastened to the end of the handle spindle, an outer sheet metal assembly comprising a channel cross-section spacer member having the open mouth of the channel facing outwardly and an outer ornamental scalp member fitting over the mouth of the channel and secured to the spacer member to make a unit assembly, said spacer member having one or more members secured thereto having tapped openings and one or more screws passing through the stem and engaging in said tapped opening or openings for removably securing said assembly to the stem member.

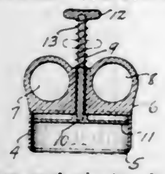
2,314,400
DOOR LATCH MECHANISM
George Janonis, Detroit, Mich.
Application July 7, 1941, Serial No. 401,360
9 Claims. (Cl. 292—223)

8. A door latch mechanism comprising a latch bolt, means including a pivotally mounted lever for actuating the bolt, an operating member, and an operating connection between said operating member and lever including a bell crank lever having an arm operatively connected to the operating member, a lever operatively connected to



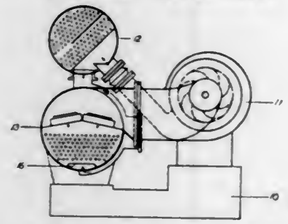
the pivotally mounted lever, and a link extending between and connected to the last mentioned lever and to another arm of said bell crank lever.

2,314,401
BISCUIT AND COOKY CUTTER AND EJECTOR
Frank A. Johnson, San Francisco, Calif.
Application January 16, 1941, Serial No. 374,619
1 Claim. (Cl. 30—130)



A cooky cutter and ejector including in combination a hollow body open at one end and capable of receiving dough therein for forming a cooky, a reinforcing rib longitudinally extending onto and across the top face of said body, an ejector slidably mounted in the hollow body, said ejector including a shaft that extends through the top surface of the body and through the rib thereon, a knob fixed on the outer end of said shaft, a coil spring mounted on the shaft and interposed between the knob and the top central portion of the rib, and a pair of round openings formed through said rib for receiving the operator's fingers to facilitate the movement manually imparted to the ejector for ejecting the cooky, said reinforcing rib and hollow body being integrally formed of a single piece of material.

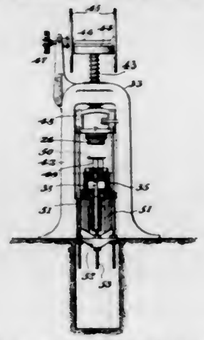
2,314,402
REFRIGERATION
Walter Jones, Princeton, N. J., assignor to Carrier Corporation, Syracuse, N. Y., a corporation of Delaware
Application June 20, 1940, Serial No. 341,513
5 Claims. (Cl. 62—115)



3. In a refrigeration system of the character

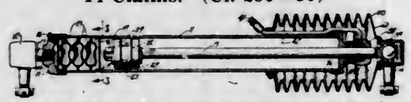
described, a shell structure, a tube bundle within the structure, means for passing a fluid through the tubes, means for routing refrigerant in contact with the outside surfaces of the tubes, each tube having extended surfaces in the form of fins extruded from and extending from the outside thereof, said surfaces extending approximately one sixteenth inch in height from the tube and forming an aggregate outside surface bearing a ratio with respect to the inside surface of the tube of over two to one, said tubes being interpositioned in stacks between an intake opening and a discharge opening whereby a low pressure refrigerant having a high specific density will be in turbulent condition substantially throughout the bundle and be substantially free of submergence losses.

2,314,403
METALWORKING APPARATUS AND METHOD
Jan Kafowi, Far Rockaway, N. Y.
Application January 17, 1941, Serial No. 374,922
8 Claims. (Cl. 78—60)



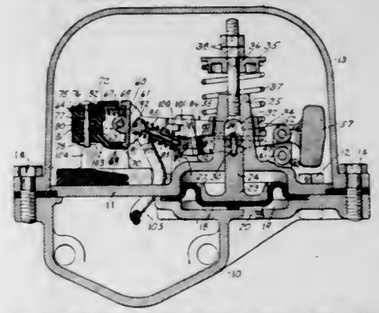
1. A device for subdividing by pressing, particularly extruding, a larger metallic ingot into a plurality of smaller ones, substantially comprising a die provided with a first larger cavity, and a plurality of second cavities of smaller individual cross sections than that of and in open communication with the former, said first cavity opening into a front of the die and said second cavities opening into an opposite front of the die, the total of the individual sizes of said second cavities exceeding the size of an ingot to be inserted into said first cavity, and ejecting members arranged to individually enter each of said second cavities from said opposite front of the die, so that by forcing a pressing member into said first cavity an ingot placed therein and covering openings of said second cavities can be pressed into the latter and thereby subdivided and the smaller ingots thus obtained can be ejected by forcing said ejector members into said second cavities.

2,314,404
HYDRAULIC STEERING STABILIZER
Morris Katcher, New York, N. Y.
Application May 18, 1940, Serial No. 335,900
14 Claims. (Cl. 280—90)



1. A stabilizer for the steering mechanism of a vehicle comprising a liquid containing chamber and a plunger movable therein, said stabilizer adapted for connection between a part of the vehicle stationary with respect to the steering mechanism and the steering mechanism, said plunger having an intermediate portion with its periphery slidably engaging the inside face of the chamber substantially preventing liquid from passing between said periphery and said face, the end parts of the plunger being of less cross-section than said intermediate portion, a valve member for each of said parts, each member having a bore therethrough for slidably mounting it on one of said parts, the shape of the periphery of a part being different from the shape of the bore of the member mounted on it thereby leaving space between the inside of the member and the periphery of said latter part for the passage of liquid from one side of the member to the other, and springs normally holding the members away from said intermediate portion, said intermediate portion having at least one passage extending through it, said members having imperforate portions opposite the ends of said passage, the members when in normal position permitting liquid to flow through said passage, said latter flow being substantially cut off when a sudden relative motion of the plunger and chamber displaces a member from its normal position to move it to the intermediate portion.

2,314,405
PNEUMATIC SWITCH DEVICE
Cecil S. Kelley, Forest Hills, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application October 21, 1941, Serial No. 415,879
9 Claims. (Cl. 200—83)

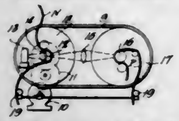


1. An electric switch device comprising, in combination, stationary contact means, movable contact means cooperable therewith, a pivotally mounted contact carrying member having one end connected in supporting relation with said movable contact means and having a counterweight portion carried on the opposite end, a spring, a movable abutment subject to opposing forces of said spring and of a control fluid pressure, and snap acting toggle lever means operable by said abutment for shifting said contact carrying member to force said movable contact means into and out of engagement with said stationary contact means.

2,314,406
PROJECTION PRINTER
Edward W. Kellogg, Moorestown, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application October 31, 1939, Serial No. 302,262
4 Claims. (Cl. 271—2.3)

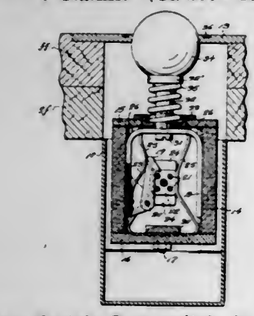
1. In combination, means for feeding a strip

of material at a uniform speed, means for feeding a second strip of material at a uniform speed bearing a predetermined ratio to said first speed, flywheel means, and differential gearing con-



necting said flywheel means to both of said feeding means in such ratio that said flywheel means is activated only in response to departures from said predetermined ratio.

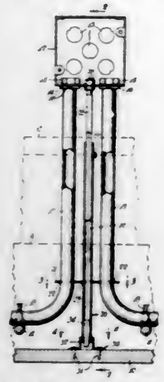
2,314,407
ELECTRIC SWITCH
Kurt F. J. Kirsten, Seattle, Wash., assignor to Mona G. Troutman, Columbus, Ohio
Application January 24, 1941, Serial No. 375,788
9 Claims. (Cl. 200—159)



1. In an electric floor switch, in combination: an escutcheon plate arranged to lie substantially flush with the floor and having an annular opening bevelled from the underside; a closed switch case hung in spaced relation below the escutcheon plate and having an opening through its top cover aligned with the opening of the escutcheon plate; switch mechanism within the case; a push-rod working through said opening in the cover, having operative engagement within the case with the switch mechanism, and formed at its upper end with an enlarged cupped head; a ball having a diameter somewhat exceeding the diameter of the escutcheon opening and revolubly supported on the head; and a compression spring applied in surrounding relation to the push-rod and exerting its thrust from the top cover of the switch case against the enlarged head of the push-rod and acting to influence the ball into seating engagement with the bevelled face of the escutcheon opening to have a portion of the ball project through the opening as a push-button for the switch.

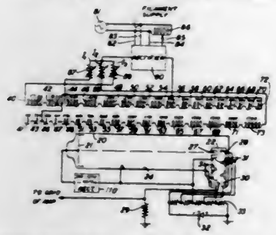
2,314,408
OUTLET BOX INSTALLATION
Julian Gordon Knight, Brooklyn, N. Y.
Application April 29, 1940, Serial No. 332,166
1 Claim. (Cl. 72—16)

An electrical installation comprising an outlet box having an open face, a back wall and a peripheral wall having spaced openings on one side thereof, and a longitudinal stanchion secured at one end thereof to said side between the spaced openings and disposed entirely within the planar projections of said open face, said back wall, and of the ends of the outlet box; the cross-sectional dimensions and shape of the stanchion being such as not to interfere with the securement of electrical conduits to the box at said spaced openings, whereby said stanchion may be supported on and secured at its other end to the upper surface of a floor form and vertically upturned ends of electrical floor conduits may be



secured to the box at said spaced openings and braced by tying same to the stanchion for greater support and rigidity during subsequent floor and wall pouring operations embedding said installation and conduits with the open face of the outlet box substantially flush with one face of a wall.

2,314,409
MAGNETIC COIL STRUCTURE
William A. Knoop, Hempstead, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 28, 1940, Serial No. 358,795
18 Claims. (Cl. 250—161)

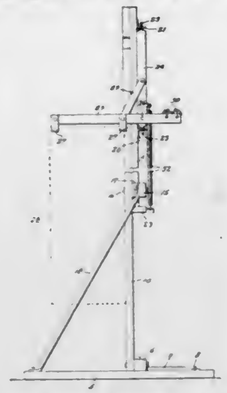


1. In combination, a cathode ray television transmitter tube, and an electromagnetic coil disposed thereabout, said coil having an axial dimension at least substantially equal to the ray path in said tube, and means including apparatus for passing current through said coil to produce a field which decreases uniformly from a plane near one end of the tube to a plane near the other end thereof.

2,314,410
BAG HOLDING DEVICE
Jacob J. Lammle, Long Lake, S. Dak.
Application July 12, 1941, Serial No. 402,205
5 Claims. (Cl. 248—97)

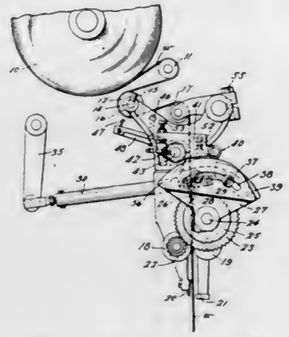
5. In a bag-holding device of the character described, a supporting structure, a slide mounted in said supporting structure and constrained to shift vertically relative thereto, vertical pivot rods mounted on said slide to rotate in a horizontal plane, and bag-suspension and expanding arms fixedly secured to said pivot rods to rotate

therewith, said arms being secured to said pivot rods intermediate the ends of said arms, angular bag-engaging lugs mounted on the arms adjacent one end of the latter, and springs connecting



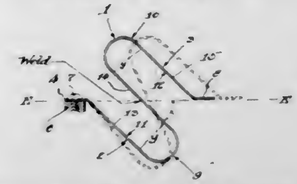
the arms at the ends thereof opposite to said bag-engaging lugs and acting to normally urge the first-named ends of the arms away from one another for effecting an expansion of the bag suspended from said arms.

2,314,411
WEB REGISTERING DEVICE
Norman W. Lyon, Springfield, Mass., assignor to Package Machinery Company, Springfield, Mass., a corporation of Massachusetts
Application February 5, 1942, Serial No. 429,616
3 Claims. (Cl. 271—2.6)



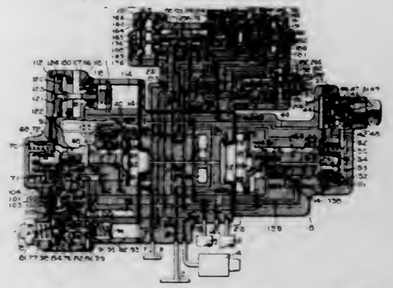
1. A web registering mechanism for webs having spaced registering holes comprising web feed rolls, a unidirectional clutch one member of which is connected to drive said rolls, an oscillating member, a second member of said unidirectional clutch being fixed to said member, a cam carried by said oscillating member, a rocker engageable with said cam, a segmental ratchet carried by said oscillating member and having its teeth in a direction opposing feeding motion of the rolls, driving means for oscillating the oscillating member yieldable in the direction of feeding movement, a feeler coupled to said rocker and engageable with the web, a support for the web having a recess in alignment with the feeler, and a pawl carried with the rocker and engageable with the ratchet when the feeler passes through a hole in the web, the cam being formed to release the feeler for yielding contact with the web prior to the alignment of a registering hole with the feeler.

2,314,412
THERMOSTATIC ELEMENT
Howard D. Matthews, Detroit, Mich., assignor to W. M. Chace Company, Detroit, Mich., a corporation of Michigan
Application March 21, 1942, Serial No. 435,727
14 Claims. (Cl. 297—15)



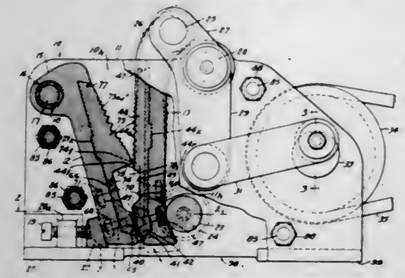
1. A laminated thermostatic element arranged to have a straight line action throughout a predetermined range of temperatures comprised of at least two substantially U shaped sections curved in opposite directions and joined together so as to be symmetrical with respect to a straight line, the outer legs of said sections being of equal length and the adjoining legs of said sections being of equal length but shorter than the outer legs, the said sections having their outer laminae comprised of similar metal, each section being positioned at an angle of 90° or less with respect to said line of symmetry whereby upon a change in temperature the ends of said element will travel in a straight line one relative to the other.

2,314,413
BRAKE MEANS
Glenn T. McClure, McKeesport, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application October 31, 1941, Serial No. 417,292
36 Claims. (Cl. 303—23)



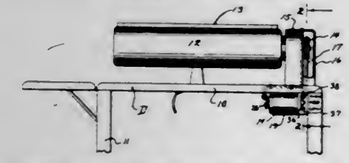
1. In a fluid pressure brake, in combination, a brake pipe, a signal pipe, a source of fluid under pressure, valve means operative upon a reduction in brake pipe pressure to supply fluid under pressure from said source through a communication to effect an application of brakes, delay means operative to retard the flow of fluid under pressure through said communication, a valve controlling a by-pass around said delay means and operative to either close said by-pass to provide for the flow of fluid under pressure being controlled by said delay means or to open said by-pass to provide for a faster rate of flow of fluid under pressure, movable abutment means connected to said valve and open at one side to said signal pipe, said abutment means being operative upon supply of fluid under pressure to said signal pipe to condition said valve to open said by-pass, and means for automatically actuating said valve to close said by-pass when said signal pipe is void of fluid pressure.

2,314,414
ROCK CRUSHER AND DISINTEGRATOR
Maude E. Meinhardt, Los Angeles, Calif., assignor to Hallie M. Melvin, Los Angeles, Calif.
Application September 15, 1941, Serial No. 410,837
3 Claims. (Cl. 83—53)



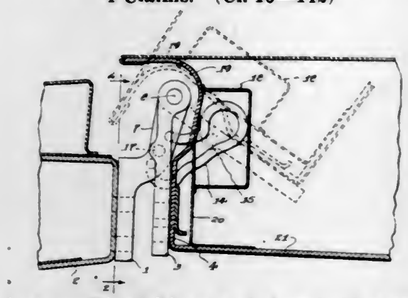
1. In a crusher, a casing, a stationary jaw mounted thereon having a lower end portion furnished with a grinding face, a pendant movable jaw carrying in its lower portion a grinding face which is convex in its vertical extent, an antifriction roller engaging the side of said pendant jaw opposite to its said face to maintain it in a close working relation to the grinding face of said stationary jaw, said casing having opposite side walls between and by which said roller is horizontally supported, a horizontal fulcrum shaft supported by the casing, a lever carried by each end portion of said shaft, said levers each having an upper and a lower limb in relation to said shaft, the upper ends of said levers being inclined toward the top of said stationary jaw, a rocker shaft extending through the upper parts of said inclined limbs and through the upper part of said movable jaw thereby pendantly supporting said jaw between and below said inclined limbs, and means operatively connected with the lower ends of said levers to oscillate them in unison.

2,314,415
VARIABLE SPEED IRONER
Frank Morella, Milwaukee, Wis.
Application March 24, 1941, Serial No. 384,853
2 Claims. (Cl. 38—56)



1. In an ironing machine, a table, a rotary ironing roll disposed above the table, a drive pulley for the ironing roll, an inverted U-shaped bracket secured to the lower face of the table having side walls, an electric drive motor disposed between said walls, supporting blocks rigidly secured to the casing of the motor, pivot pins securing the blocks to the side walls adjacent to the inner corners of said side walls and blocks, a variable speed pulley secured to the armature shaft of the motor including facing cone sections, one of said sections being slidable toward and away from the other section, means normally urging the movable cone section toward the other cone section, a pulley belt connecting said pulleys together, an operating lever rigidly secured to the motor extending toward the front of the machine, and a latch plate carried by the machine for holding the lever and the motor in different selected adjusted positions.

2,314,416
DOOR-HOLD-OPEN DEVICE
John J. Muldoon, Roseville, Mich., assignor to Ternstedt Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application April 2, 1942, Serial No. 437,394
4 Claims. (Cl. 16—142)



1. A combined hinge and door-hold-open device, comprising a pair of hinge members secured together by a knuckle pin and arranged to have relative swinging movement with respect to each other, a spring member interposed in part between the hinge members and in the form of a loop with a restricted or throat portion, the said loop having its ends turned in and secured to one of the hinge members and a pin on the other hinge member larger in diameter than the opening in said throat portion and arranged to travel in side the said loop and spread the loop at the throat when the hinge members have relative movement through a given arc and thereby temporarily hold the door in an open position.

2,314,417
PICTURE FRAME
Robert Neal, Dalton, Ga.
Application April 22, 1941, Serial No. 389,801
5 Claims. (Cl. 40—152)



4. A picture frame comprising in combination a front member for bordering a picture positioned within the frame, the front face of said member including a sound recording portion, and a backing structure connected to said front member and cooperating with said front member for retaining the picture within the frame, the said backing structure having a portion spaced a substantial distance from said front member, said portion of the backing structure carrying means to embrace the turntable shaft of the phonograph.

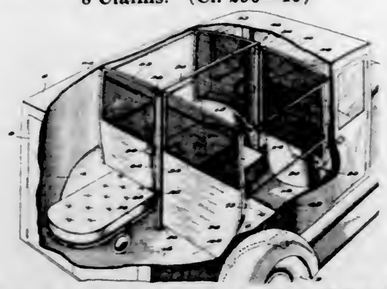
2,314,418
HARDWARE
Herbert W. Neunherz, Gardner, Mass.
Application December 24, 1940, Serial No. 371,555
3 Claims. (Cl. 287—20)

1. A hanger adapted to be secured to a support, comprising a tubular bushing having an enlarged rounded head at one end thereof, a bore extending through the bushing and head, said head having a flattened side oppositely located with respect to the bushing, a second bore located entirely within the head at an angle to said first named bore and intersecting and extending across the first named bore, said second bore intersecting the periphery of the head at one end only of the second bore, whereby said first named bore extends completely through the bushing, second bore, and head, and said second



bore extends only partially through said head but completely across the first named bore; a rod having an end located in said second bore and crossing the first named bore, an elongated fastener extending through the first named bore and rod, a head at one end of said fastener rounded to conform to the shape of the first named head, and means at the other end of the fastener for entry in and connection to said support, whereby said fastener not only secures the rod to the bushing but both bushing and rod to said support.

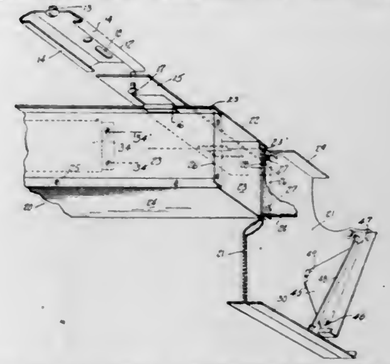
2,314,419
VEHICLE
Stanley C. Olson, La Crosse, Wis.
Application January 13, 1942, Serial No. 426,621
8 Claims. (Cl. 296—19)



1. In a vehicle body having side and top walls, means dividing said vehicle into a front driver's compartment, an intermediate compartment and a rear compartment, said means including at least one door between the intermediate compartment and the rear compartment to permit access therebetween, said door terminating at a distance above the floor sufficient to permit a stretcher to be inserted therebeneath.

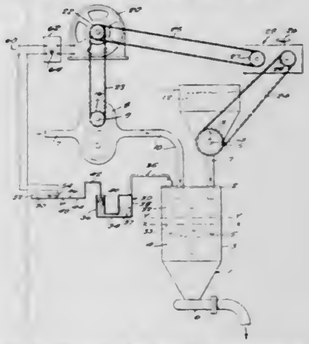
2,314,420
FLUORESCENT LIGHTING EQUIPMENT
Richard Orth, Philadelphia, Pa., assignor to Gill Glass & Fixture Company, Philadelphia, Pa., a corporation of Delaware
Application March 28, 1942, Serial No. 436,653
5 Claims. (Cl. 240—78)

1. Means for supporting from a ceiling or the like a row of fluorescent lamp sockets, comprising a plurality of track members disposed substantially parallel with one another at random spacings in a level row, a plurality of sliders each receivable by a track member from the end thereof whereby the sliders may be received by the track members after installation of the track members, the sliders each having opposed, inwardly-facing, downwardly-extending hooks below the level of the track members, the hooks forming a longitudinally extending guideway, a wiring channel of greater length than the overall spacing of the track members and having



outwardly extending, longitudinal flanges at the top thereof receivable in the hooks and forming a continuous trackway for moving the sliders lengthwise of the wiring channel to place them at the spacings to correspond with the spacings of the track members, and pairs of fluorescent lamp sockets supported at spaced intervals along the wiring channel.

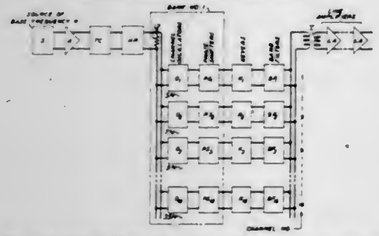
2,314,421
CONTROL APPARATUS
Arthur S. Peterson, Marseille, Ill., assignor to Certain-Teed Products Corporation, New York, N. Y., a corporation of Maryland
Application August 3, 1940, Serial No. 350,247
5 Claims. (Cl. 259—23)



1. Apparatus for effecting suspension of a dry comminuted material in a liquid comprising a mixing chamber, means for positively feeding metered amounts of said liquid and of said comminuted material to said mixing chamber, continuously acting means within said chamber for effecting intermixture of said liquid and said comminuted material, means connected to said chamber for continuously effecting withdrawal of the intermixed material therefrom, and control means responsive to variations in the level of material contained in said mixing chamber, said control means being connected to said feeding means to actuate said feeding means substantially simultaneously to initiate said feed of

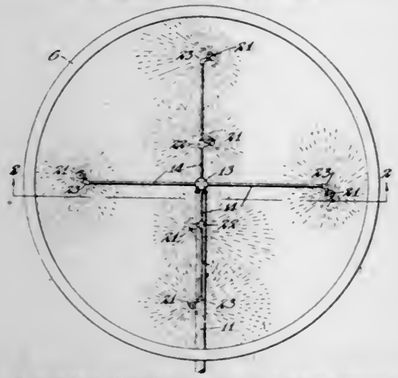
said liquid and of said comminuted material to said mixing chamber when the amount of material being mixed in said chamber falls to a predetermined quantity and to stop said feed when said material within said chamber reaches a predetermined quantity, said control means being ineffective to initiate or stop action of said mixing means.

2,314,422
CARRIER WAVE PRODUCTION AND CONTROL
Walter A. Phelps, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 10, 1940, Serial No. 356,128
15 Claims. (Cl. 178—51)



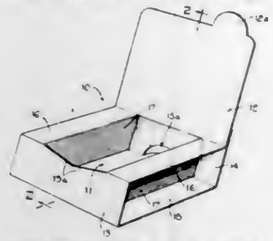
1. In combination in a carrier wave supply system, a source for supplying a complex wave consisting of a plurality of synchronized harmonics of a given base frequency wave, a group of individual carrier wave oscillators of the space current type, each having a frequency determining circuit tuned to a different harmonic of said base frequency wave, and means for transmitting the complex wave from said source to all of said oscillators for synchronizing them at their respective frequencies.

2,314,423
ROTARY SEWAGE DISTRIBUTOR
Arthur A. Page, Red Wing, Minn., assignor by mesne assignments to Albert M. Marshall, Kansas City, Mo.
Continuation of application Serial No. 267,151, April 10, 1939, which is a continuation of application Serial No. 41,769, September 23, 1935. This application September 10, 1941, Serial No. 410,255
2 Claims. (Cl. 299—69)



1. A sewage distributor for applying sewage to a trickling filter comprising a hollow bearing member, means for supplying sewage to said bearing member, a hollow head rotatably mounted on said bearing member and receiving sewage therefrom, a plurality of hollow distributing arms projecting outwardly from and communicating with said head, a multiplicity of circumferentially and radially spaced sprinkler nozzles each nozzle being in the form of a cylindrical hub having a tangential inlet port and one closed end and one open end equipped with an unobstructed discharge outlet and tubular articulated connecting means connecting the tangential inlet ports of said nozzles to said arms, said connecting means being rotatably adjustable about the longitudinal axes of said arms and being rotatably adjustable about axes normal to the longitudinal axes of said arms, at least certain of said nozzles being set relative to said arms at such tipped angles that reactive forces will be set up against the closed ends of said nozzles as sewage discharges therefrom to cause rotation of said head and arms and the nozzle structure being such that sewage as discharged from said nozzles will be given a centrifugal action to maintain the nozzles in clean unobstructed condition and sewage will be discharged from said nozzles over the major portion of a circular area in a rain like spray.

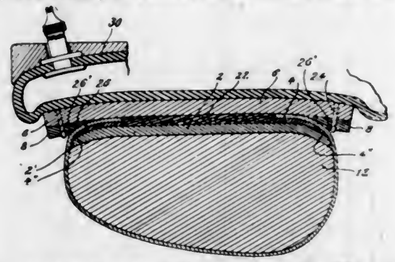
2,314,424
TRAY DISPLAY AND CONTAINER
William A. Ringler, Wayne, Pa., assignor to National Folding Box Company, New Haven, Conn., a corporation of New Jersey
Application July 19, 1940, Serial No. 346,308
2 Claims. (Cl. 206—44)



1. In a display formed of a single blank of paper stock or the like, the combination of an upper back panel, mutually spaced side panels; a front panel; a bottom panel; and a lower back panel; said panels being hingedly connected with one another in the order named and said lower back panel being connected to said upper back panel; downwardly extending tray wall panels cut from the material of the blank between said side panels and hingedly connected to inner edges of said mutually spaced side panels along fold lines and extending toward the bottom panel to provide a tray for reception of goods to be displayed; the front edges of said tray wall panels being cut at an angle to the vertical whereby upon engagement with the inner face of said front panel, said front panel is tilted rearwardly as viewed from the front of the display and said lower and upper back panels are correspondingly tilted; the rear cut edges of the tray walls being at right angles to said fold line; said lower back panel being provided with slots to respectively freely receive the rear edges of said tray wall panels and thereby maintain the display in tilted set-up status.

2,314,425
SHOE MANUFACTURE
Abraham Rubin, Harrisburg, and George A. Faber, Millersburg, Pa., assignors to The Muskin Shoe Company, Baltimore, Md., a corporation of Maryland
Application April 18, 1940, Serial No. 330,412
3 Claims. (Cl. 12—142)

2. An improved method of making shoes which consists of increasing the thickness of the insole about its lower marginal portion and assembling the same with an upper upon a last by cementing the lower edge of the upper beneath the said marginal portion of the insole, assembling an outsole and welt, said welt having its tapered edge extending inwardly toward the central section of the sole and being of such dimensions as to permit the thickened margin of the insole to overlie the said taper of the welt and extending over the inner joining line between the welt and outsole when placed thereon, and cementing the said outer sole and welt to the said upper under pressure.

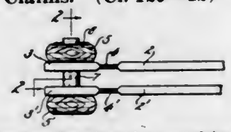


2,314,426
SINGLE RING TOGGLE UNIT FOR RING BINDERS
John Schade, Holyoke, Mass., assignor to National Blank Book Company, Holyoke, Mass., a corporation of Massachusetts
Application November 24, 1941, Serial No. 420,177
1 Claim. (Cl. 129—24)



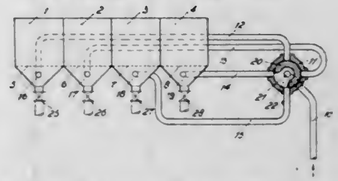
In combination with a single ring wire toggle frame, a relatively rigid toggle case strip having a portion of its under side scooped out to form a hollow space in which to nest said wires, slots in the edges of said strip adjacent the hollow portion, said portion being formed with grooves in opposite edges thereof, said toggle frame having the ring halves passing through the slots to overlie the surface of the strip and portions lying in said grooves, said wires having resilient extensions bent towards each other in U-shaped form so that portions of the wires lie in bearing contact with each other to form a toggle joint, the hollow portions of the strip being arched in cross-section to allow the pivotal action of the toggle joint.

2,314,427
POST BINDER
Frank Stanley Schade, Holyoke, Mass., assignor to National Blank Book Company, Holyoke, Mass., a corporation of Massachusetts
Application April 4, 1942, Serial No. 437,612
4 Claims. (Cl. 129—12)



1. A post binder having in combination a top cover unit provided with a solid bar of nonmetallic material, wood for example, two recesses extending downwardly from the top face of said bar, one located adjacent each end of the bar, at each recess a staple with prongs passing through the bar adjacent the sides of the recess and with its prong-connecting portion lying across the recess from side to side at about the top level of the bar to provide a fulcrum line of operation of latching mechanism, an automatic spring-pressed post latching mechanism contained in the recess with a latch finger-operating piece presented at about the top of the recess with a downwardly slanting extension passing under said prong-connecting portion to provide a post-gripping piece at the opposite side of the portion, the transverse line of said extension as it passes under said prong-connecting portion forming a fulcrum line for pivotal movement of said finger-operating piece, said mechanism having spring means to maintain pressure of said parts on said fulcrum line, one of such latching mechanisms being assembled in each recess, post holes provided in the said bar and in the post gripping pieces of said mechanisms.

2,314,428
JIG FOR TREATING ORE-BEARING AND LIKE MATERIALS
Cornelis Schouten, Delft, Netherlands; vested in the Alien Property Custodian
Application July 22, 1940, Serial No. 346,851
In Great Britain June 15, 1939
10 Claims. (Cl. 209—455)

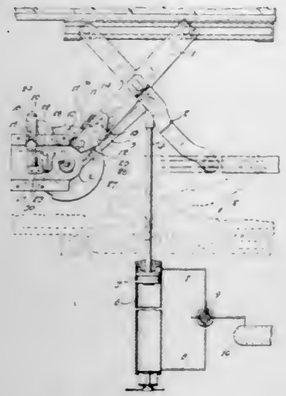


1. A jig of the character described, comprising a jig compartment, a pressure liquid feed line, a valve mechanism associated with said feed line, a supply conduit directly connecting the said jig compartment to a discharge port of the said valve mechanism and means for constantly operating said valve mechanism, the said jig compartment comprising a perforated screen dividing same into a sluice compartment and a hutch, said hutch having rigid walls, thus a constant capacity and being provided with a discharge valve at the bottom, the said valve mechanism being provided with a plurality of discharge ports including the aforementioned one and being so constructed and arranged that when operated by its operating means an uninterrupted flow of liquid discharges from said pressure feed line, whereas periodical sudden pulsations are generated in the said hutch.

2,314,429
RELEASABLE WINDOW REGULATOR CLUTCH
Emory Glenn Simpson, Detroit, Mich., assignor to Ternstedt Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application January 21, 1941, Serial No. 375,162
4 Claims. (Cl. 268—125)

1. In a window regulator and particularly a power operated window regulator, lifting mechanism and a clutch therefor, including a fixed member with which the clutch mechanism ordinarily locks, said fixed member arranged to rotate when released, means for holding the same,

comprising a member having a locking relation therewith and a spring motor connection between the fixed member and the window regu-



lator for rotating the fixed member back to its locking position when the regulator mechanism is again operated and the clutch released.

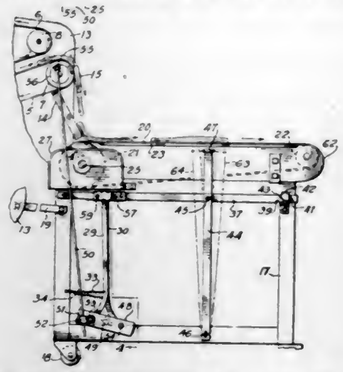
2,314,430
DIP STICK
Harry Worcester Smith, Worcester, Mass.
Application February 26, 1941, Serial No. 380,704
5 Claims. (Cl. 33—126.7)



4. A dip stick comprising a tube, a rod slidably mounted in said tube, a spring normally maintaining an end portion of said rod housed within said tube, said rod being in part projectible from said tube into oil gauging position, and means forming an aperture in said tube for reading the oil mark when said rod has its end portion housed.

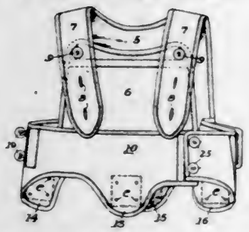
2,314,431
COOLING DELIVERY MACHINE
George N. Strike, Los Angeles, Calif.
Application June 21, 1940, Serial No. 341,693
9 Claims. (Cl. 38—8)

1. In cooling, delivery-means for an ironer, a substantially flat, relatively stationary, supporting plate, an endless delivering means arranged to travel across the plate and be supported thereby, and in turn thereby support cooling material, connecting means driven by the ironer, manually controllable speed reduction mechanism driven by said connecting means and in turn driving the endless delivering means, and manual means ad-



jacent to the delivery means for controlling said reduction mechanism to desirably regulate the speed of the delivery means.

2,314,432
CHILD'S GARMENT
Marguerite H. Sunseri, Pittsburgh, Pa.
Application August 9, 1940, Serial No. 351,957
4 Claims. (Cl. 2—112)

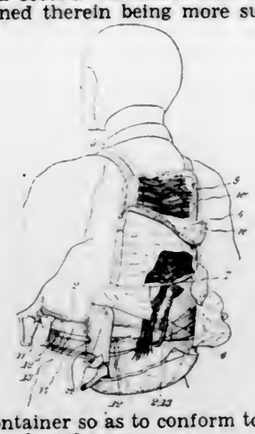


1. In a child's undergarment, a body or waist portion including a back section and a front section, one of the sections foldable over the other section, one section having an adjustable strap and the other means for engaging the strap, and an adjustable belly-band portion, said back and front sections being attached to the belly-band by horizontal lines of stitching with the front section located adjacent an end thereof and the back section approximately centrally thereof and both sections extending upwardly from the band and cooperating with the band to cover the back, chest and stomach of a child.

2,314,433
DEVICE FOR AIRCHUTES
Rene Tauty, Clichy, France; vested in the Alien Property Custodian
Application May 16, 1940, Serial No. 335,599
In France June 9, 1939
1 Claim. (Cl. 244—148)

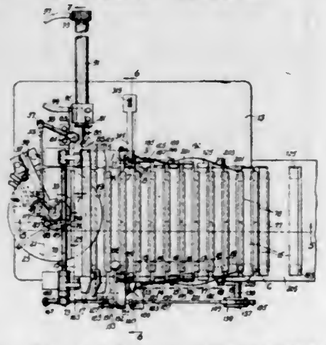
A parachute system, which comprises a canopy, shroud lines for connecting the canopy to the wearer, a container containing said canopy in a folded state, harness means to secure said container on the back of the wearer in a position extending above and below the waist and with its top edge spaced below the shoulders, a second container containing at least most of said shroud lines carried by said harness means on the back of the wearer above the first container and adjacent

thereto, said second container with the shroud lines contained therein being more supple than



said first container so as to conform to the upper part of the back of the wear.

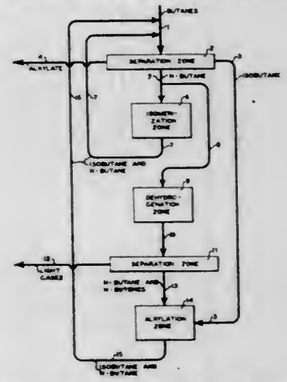
2,314,434
PACKAGING APPARATUS
August F. Toelke, Velda Village, Reynold Gehne, Pine Lawn, and Peter J. Wenta, Brentwood, Mo., assignors to Jackes-Evans Manufacturing Company, St. Louis, Mo., a corporation of Missouri
Application May 17, 1941, Serial No. 394,038
13 Claims. (Cl. 93—3)



1. A package loader comprising means for laterally advancing to a filling station an elongate package which is open at both ends, means for pushing articles into one open end of the package and through the same toward the other open end while at the filling station, biased means for holding the package at the filling station while being filled, detent means for preventing said movement of the biased means, and means responsive to an article tending to emerge from the last-named open end of the package when the package is filled for releasing the detent means, whereby said biasing means moves the package laterally away from the filling station.

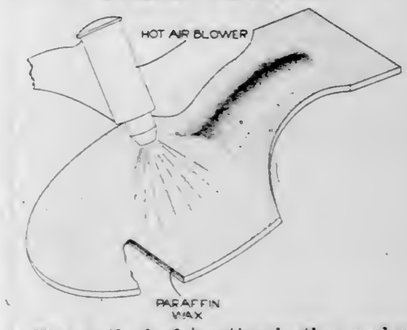
2,314,435
TREATMENT OF HYDROCARBONS
Samuel S. Allender, New York, N. Y., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application December 18, 1939, Serial No. 309,756
2 Claims. (Cl. 196—10)

1. A process for producing gasoline from a butane fraction containing isobutane and normal butane which comprises fractionally distilling said butane fraction to separate isobutane and normal butane; subjecting a portion of said normal butane to isomerization to form a mixture comprising essentially isobutane and normal butane; returning said mixture to the butane fractional distillation to separate isobutane and normal butane; dehydrogenating the remainder of the normal butane to produce a dehydrogenation product consisting of normal butane, butenes, 3-carbon atom hydrocarbons, and lighter gases; separating said dehydrogenation product into a



butane-butene fraction and a mixture of 3-carbon atom hydrocarbons and lighter gases; subjecting the total isobutane obtained from the original butane mixture and from the isomerization to alkylation with normal butenes contained in said butane-butene fraction to produce a mixture of alkylation products and unconverted butanes; and returning said mixture to the original butane fractional distillation to separate isobutane, normal butane, and a substantially saturated alkylate and to furnish a refluxing medium for the fractional distillation of said butane fraction.

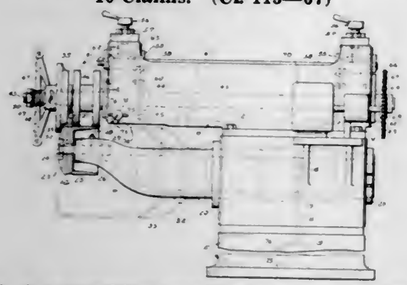
2,314,436
PAD COVER AND METHOD OF MAKING SAME
Ivan C. Anderson, Gloucester, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application May 1, 1941, Serial No. 391,237
5 Claims. (Cl. 117—55)



1. The method of treating leather pad covers which comprises applying a plurality of coatings of molten filler to the grain surfaces thereof, forcing each of said coatings into the leather until the leather is substantially impregnated

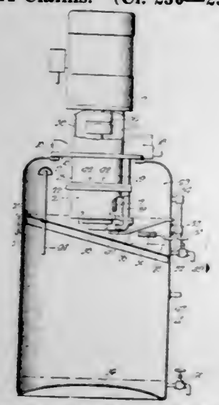
with said filler, and thereafter applying a sealing coating of hard wax to the grain surfaces thereof.

2,314,437
CAN WELDING MACHINE
James L. Anderson, Closter, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York
Application May 11, 1940, Serial No. 334,521
10 Claims. (Cl. 113—67)



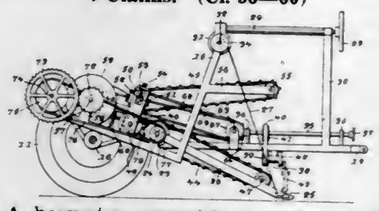
4. A can-welding machine comprising a rotatable support that contacts with the inside surface of a can, a clamping roller that bears against the outside of the can and holds said can in a definite position on the rotatable support, an axle on which said support rotates about an axis, means for moving the support and clamping roller toward and from one another in a direction transverse of said axis, a device other than said means and having a different mechanical advantage from said means for moving the clamping roller into actual contact with the can for holding the can in a definite relation to a welding torch after the support and clamping roller have been moved toward one another in said direction transverse of the axis, and pressure control apparatus operable independently of said means and said device to change the pressure that the clamping roller exerts against the can when brought into contact with the can by operation of said device for moving the clamping roller into actual contact with the can.

2,314,438
STORAGE TANK AND COMPRESSOR ASSEMBLY
John D. Banning, Chicago, and Alfred Anderson, Elmhurst, Ill., assignors to Davidson Manufacturing Corporation, a corporation of Illinois
Application January 4, 1940, Serial No. 312,432
11 Claims. (Cl. 230—235)



1. An air compressor assembly including an upright air storage tank of substantial volume having its bottom shaped to rest on a flat surface, a rotary compressor unit carried by the top of the tank, extending into the tank and discharging into it, a motor carried by the top of the tank in axial alignment with the compressor unit and connected thereto, and a partition positioned slightly below the compressor unit and below the discharge thereof to maintain a body of oil above the partition, said compressor unit including a rotary oil pump at the bottom thereof positioned below the normal oil level and drawing oil therefrom for lubricating and sealing the compressor unit, and said tank having a passage from above the partition to below it for the flow of air discharged from the compressor.

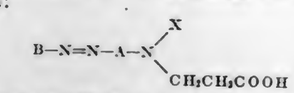
2,314,439
ASPARAGUS TOP CUTTER
Daniel F. Beegle, Kennewick, Wash.
Application April 27, 1942, Serial No. 440,686
7 Claims. (Cl. 56—60)



1. A harvester comprising a wheeled frame, cutter means mounted on the forward end of the frame for severing the stalk portions of growing plants, a crushing drum mounted on the frame rearwardly of the cutter means, a pair of vertically spaced forwardly divergent endless conveyers interposed between the cutter means and the said drum for gathering the stalks from the cutter means and feeding the same to the drum, the rearward end of the lower conveyer being disposed immediately in front of the drum and the rearward end of the upper conveyer being located directly above the drum to cooperate therewith in crushing the stalks, a rotary cutter located rearwardly of the crushing drum, a shear plate extending between the rotary cutter and the said drum, said plate providing means for transferring the stalks from the drum to the cutter and cooperating with the cutter to comminute the said stalks, and drive means having a driving connection with the said drum, cutters and transferring means.

2,314,440
AZO DYESTUFFS AND PROCESS FOR COLORING THEREWITH
Bernd v. Bock and Hanns Ufer, Ludwigshafen-on-the-Rhine, and Helmut Kleiner, Cologne-Mulheim, Germany, assignors to General Aniline & Film Corporation, a corporation of Delaware
No Drawing. Application January 19, 1938, Serial No. 185,654. In Germany February 18, 1937
12 Claims. (Cl. 8—50)

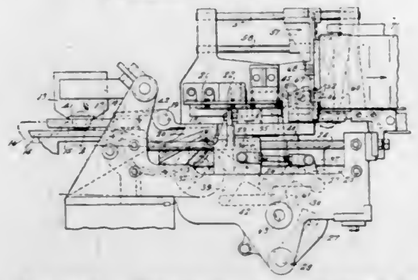
1. Azo dyestuffs, corresponding to the general formula:



wherein B stands for a mono-nuclear radical of the benzene series, A stands for a mono-nuclear radical of the benzene series attached to the azo

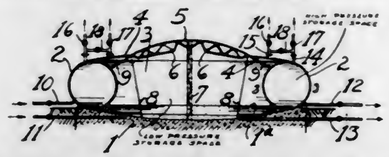
group shown in 4-position with reference to the amino group shown in 1-position, and wherein X stands for a lower alkyl radical, the dyestuffs being free from sulfonic acid groups.

2,314,441
WRAPPER SEALING MACHINE
Francis Ross Clark, Leonia, N. J., and Alfred D'Antonio, Longmeadow, Mass., assignors to Package Machinery Company, Springfield, Mass., a corporation of Massachusetts
Application June 5, 1941, Serial No. 396,704
7 Claims. (Cl. 93—2)



1. A sealing mechanism for wrapping machines which comprises means for delivering wrapped articles singly with adhesively sealed end folds, transporting mechanism having pushing and elevating members for accumulating a stack of articles piled one upon the other, opposed holding members for the end folds of the article, and means for delivering stacks from the stacking mechanism to the holding members.

2,314,442
COMBINATION HIGH AND LOW PRESSURE STORAGE TANK
George B. Cook, Summit, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application December 30, 1938, Serial No. 248,368
1 Claim. (Cl. 220—3)

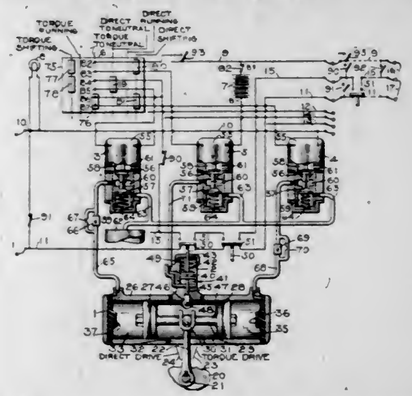


A composite tank comprising an outer tubular horizontal annular chamber of substantially circular cross section and relatively small diameter adapted to maintain a fluid under relatively high pressure, said annular chamber defining a central space of relatively large diameter, a floor section supporting said annular chamber and spanning said central space defined by said annular chamber, a dome shaped roof section supported by said annular chamber spanning said central space and peripherally contacting the top of the wall of the annular chamber, means for maintaining a fluid seal between said annular chamber and said floor section, and means for maintaining a fluid seal between the contacting portions of said annular chamber and said roof section, said floor and said roof sections defining a separate inner chamber of relatively large diameter adapted to maintain a fluid under relatively low pressure.

2,314,443
PURIFICATION OF ALPHA CHLOROACRYLIC COMPOUNDS PRELIMINARY TO POLYMERIZATION
John William Croom Crawford, Frodsham, and Nancy McLeish, Runcorn, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application August 30, 1939, Serial No. 292,746. In Great Britain September 5, 1938
11 Claims. (Cl. 202—57)

11. In a process for the preparation of a polymer of a compound of the class consisting of alpha-chloroacrylic acid and esters thereof, the step which comprises destroying any autoxidation products in the monomer by treating with an inorganic compound containing an element of readily changed valence and of the class consisting of reducing agents and compounds containing a labile oxygen atom followed by separating the monomer from the decomposition products of the autoxidation products and from any undestroyed autoxidation products by distillation in the absence of oxygen.

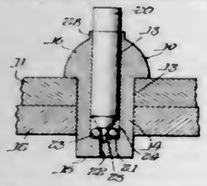
2,314,444
CLUTCH CONTROL MECHANISM
Philip L. Crittenden, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application April 29, 1941, Serial No. 390,862
21 Claims. (Cl. 105—62)



1. A power control mechanism, comprising, power means having two operating positions and being movable by a differential in fluid pressures in two chambers to one of said two positions and upon a reversal of said differential to the other of said two positions, locking means operative to lock said power means in the said other of said two positions, and manually operated means movable to one position for releasing said locking means from said power means and cooperative with said locking means only upon release thereof to create said differential of fluid pressures, said manually operated means being movable to another position for cooperating with said locking means to effect said reversal of differential, said locking means being operative automatically to destroy the differential of fluid pressures on said power means in the second named position of said power means, said manually operated means having a third position intermediate the two above named positions for destroying the differential in pressures on said power means, and means operative automatical-

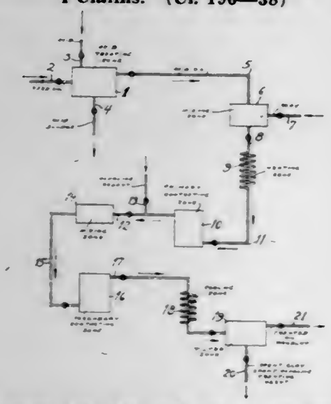
ly upon release of manual pressure on said manually operated means in the first named position to move same to said third position.

2,314,445
EXPANDING RIVET
Emile M. Du Vall, Chicago, Ill., assignor to Robert E. Owens, Chicago, Ill.
Application June 26, 1941, Serial No. 399,789
7 Claims. (Cl. 85—40)



1. In a device of the character described, a rivet having a bore extending through the head thereof into the shank of the rivet, said bore terminating in a base providing a shoulder substantially normal to the cylindrical walls of the bore, a plurality of relatively hard surfaced balls within said bore supported by and in contact with said shoulder, a pin having a tapered end for insertion in said bore for coaction by said tapered end with said balls to expand the rivet in the vicinity thereof, and said shank having a second bore therein of a diameter to receive the pointed end of the pin and extending from said shoulder in a direction toward the end of the rivet opposite the bore.

2,314,446
REFINING OF OILS
Robert P. Ferguson, Cranford, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application April 1, 1941, Serial No. 386,318
4 Claims. (Cl. 196—38)



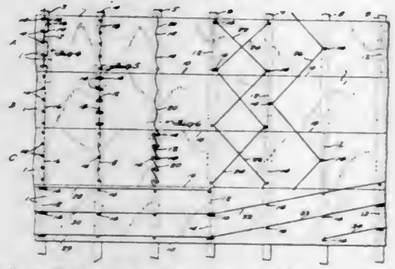
1. Process for the refining of petroleum oil which comprises treating said petroleum oil with a mineral acid to remove objectionable compounds therefrom, separating the acid treated oil, and heating the same in the presence of a color adsorbent to a temperature in the range from about 350° F. to about 650° F., holding the oil clay mixture at this temperature for a time period in the range from about 5 to about 30 minutes, then adding an alkaline reagent, cooling the mixture and separating the color adsorbent and alkaline reagent therefrom.

2,314,447
OVERLOAD COMPENSATION FOR WATT-HOUR METERS
Stanley S. Green, La Fayette, Ind., assignor to Duncan Electric Manufacturing Company, La Fayette, Ind., a corporation of Illinois
Application June 10, 1939, Serial No. 278,510
8 Claims. (Cl. 171—264)



7. An overload compensator for watt-hour meters adapted to extend between the two poles of a meter magnet with its face positioned adjacent to one face of a meter disc running adjacent said poles, including a magnetic lamination extending along the face of the compensator, a second magnetic lamination more remote from said face, and an intermediate magnetic lamination spacing said two laminations apart and itself cut away a substantial distance from an edge along a line suitable for drilling the second lamination in a direction parallel to said face to change the compensating characteristics of the compensator.

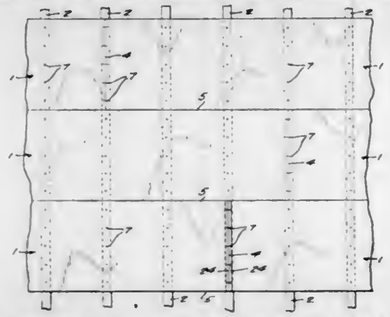
2,314,448
WALL CONSTRUCTION
Gilbert A. Hoggatt, Snyder, N. Y., assignor to Certain-Teed Products Corporation, New York, N. Y., a corporation of Maryland
Application December 1, 1939, Serial No. 307,033
7 Claims. (Cl. 72—118)



1. A wall construction comprising a plurality of spaced supports, a sheet of plaster-supporting base material, fasteners engaging said base sheet and said supports to fasten said base sheet to said supports, and a continuous strand of lacing material capable of taking stress under substantial heat successively engaging a series of said fasteners and stretching straight over the surface of the board from one fastener to another, said continuous strand being held by said engaged fasteners in said straight stretched relation to said base and together with said fasteners and said supports providing support for said base and a plaster layer thereon independently of direct support of said base by said engaged fastener.

2,314,449
WALL CONSTRUCTION
Gilbert A. Hoggatt, Snyder, N. Y., assignor to Certain-Teed Products Corporation, New York, N. Y., a corporation of Maryland
Application December 13, 1939, Serial No. 308,973
8 Claims. (Cl. 72—16)

1. A wall construction comprising a plurality of supports of relatively great length with respect to their cross-section extending in the same general direction and spaced apart in the direction transversely of their lengths, panel boards mounted on said supports to span the spaces therebetween with two opposite edges of said panel boards extending in said direction transversely of the length of said supports and unsupported therebetween, means fastening said panel boards to said supports, said panel boards being formed with a frangible core between fibrous cover sheets adhering to the faces of the core and extending upon and adhering to the edge surfaces of said core which are transverse to the faces thereof along said opposite edges,



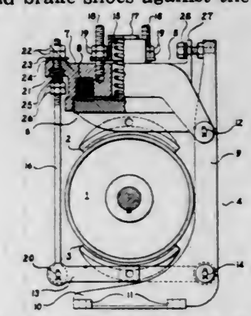
said opposite fibrous sheet covered edge surfaces being formed mutually to conform when in abutting relation to each other, said panel boards being mounted on said supports with said mutually conforming edges on two adjacent boards pressed into firmly abutting contact with each other but with a gluelike adhesive material therebetween in set condition binding said panel boards together along said mutually conforming and abutting unsupported edges with a bond capable of transferring the stress applied to one board and sustained by its cover sheet cooperating with its core to the other board to be sustained by its cover sheet and core.

2,314,450
EMULSIFYING AND SCOURING ASSISTANT FOR MINERAL SULPHONATES
John B. Holtzclaw, Roselle, and George E. Serniuk, Elizabeth, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application May 20, 1938, Serial No. 209,112
3 Claims. (Cl. 252—8.7)

1. An emulsifying composition comprising 84% of a mineral lubricating oil, 3% of a mixture of sodium tri and tetra isobutyl phenol sulphonate, 1% of diethylene glycol and 11% of sodium salts of oil-soluble sulphonates prepared by treating a petroleum oil with strong sulphuric acid.

2,314,451
ELECTROMAGNETIC BRAKE
Arvid E. Lillquist, Milwaukee, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application April 30, 1942, Serial No. 441,176
4 Claims. (Cl. 188—171)

1. In a brake, the combination with a brake drum and opposed upper and lower brake shoes for engaging the periphery thereof, of an L-shaped supporting frame having its horizontal leg arranged below said drum for floor mounting and its vertical leg arranged to one side of said drum and adjacent thereto, a lever pivoted to said frame and carrying said lower brake shoe, an operating magnet arranged above said upper brake shoe and including relatively movable field and armature members pivotally mounted upon the vertical leg of said frame, said upper brake shoe being operatively connected to one of said magnet members, a link connection between the other of said magnet members and said lever, a spring associated with said magnet members tending to move the same apart for setting of said brake shoes against the periphery of



said drum, and adjustable stops accessible from the upper side of said magnet, one of said stops being mounted upon the upper end of the vertical leg of said frame and being engageable with one of said magnet members to provide for substantially equal movements of said brake shoes upon energization of said electromagnet and another of said stops being associated with the upper end of said link and engaging one of said magnet members to provide for adjustment of the normal air gap between said magnet members.

2,314,452
HERMETICALLY SEALED CAN
Erik Ljungstrom, Lidingo, Sweden
Application December 12, 1939, Serial No. 308,759
In Sweden December 19, 1938
2 Claims. (Cl. 220—61)

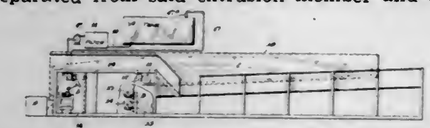


1. In a device of the class described, a sheet metal container having an open top, a sheet metal cover therefor, a conical flange extending upwardly and outwardly around the periphery of said cover and terminating in a thin edge, a conical flange extending downwardly and outwardly from said container around the opening therein and terminating in a thin edge, and a removable sheet metal sealing strip including a central portion with projections extending from either side thereof, said projections being bent over the respective flanges, said flanges being arranged at such an angle to each other that said projections form angles of less than 90° with said central portion, said projections engaging the thin edges of the flanges immediately adjacent to the apexes of the last mentioned angles.

2,314,453
COATING AND FILMING MACHINE AND APPARATUS
Edward L. Mack, Douglaston, N. Y., and Earle H. Morse, Nutley, N. J., assignors to Reynolds Research Corporation, Richmond, Va., a corporation of Delaware
Application November 13, 1939, Serial No. 304,156
1 Claim. (Cl. 91—43)

In a coating machine for coating a flexible web

of moving flat sheet base material, a vertically and horizontally adjustable extrusion member adapted to extrude high viscosity flat sheet coating liquid, pump means and valve means associated with said member for supplying a flow of said liquid to said member, adjustable nozzle means for said extrusion member for regulating the amount of said flow, reservoir tank means separated from said extrusion member and ad-



justable pipe means connecting said tank means and said extrusion member, and an adjustable related power driven roller apparatus of small diameter adapted to tangentially feed a continuous web of flexible base material at a speed greater than the rate of extrusion of said liquid and in proximity thereto, so that the base material may be coated with said extruded liquid in stretched condition.

2,314,454

PRODUCTION OF ESTERS OF HALOGEN ALCOHOLS

Friedrich Manchen and Willi Schmidt, Ludwigshafen-on-the-Rhine, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application August 9, 1939, Serial No. 289,174. In Germany August 19, 1938
7 Claims. (Cl. 260—463)

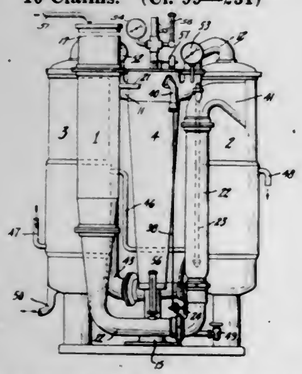
1. A process for the production of esters of halogen-alcohols which consists in bringing into contact at reaction temperature a cyclic ether of the dihydro- and tetrahydrofurane series with a carboxylic acid halide.

2,314,455

APPARATUS FOR PASTEURIZING AND/OR DEODORIZING AND COOLING LACTEAL LIQUIDS UNDER VACUUM

Henry Lamont Murray, Parnell, Auckland, New Zealand, assignor to Murray Deodorizers Limited, Auckland, New Zealand, a company of New Zealand

Application February 17, 1939, Serial No. 257,013
In Australia February 22, 1938
10 Claims. (Cl. 99—251)



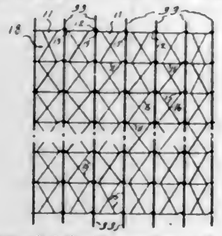
3. Apparatus for the continuous treatment of lacteal fluids, comprising a vacuum deodorizer and a vacuum cooler connected in series; and a two chambered condenser capable of generating a different degree of vacuum in each said chamber, and connected directly, the chamber of lower vacuum to the deodorizer, and the chamber of higher vacuum to the cooler; the vacuum pulling the lacteal fluid from the deodorizer into the cooler.

2,314,456

STRUCTURAL FABRIC

Jerome Seymour Nadell, Birmingham, Mich.

Application June 1, 1939, Serial No. 276,861
9 Claims. (Cl. 189—34)



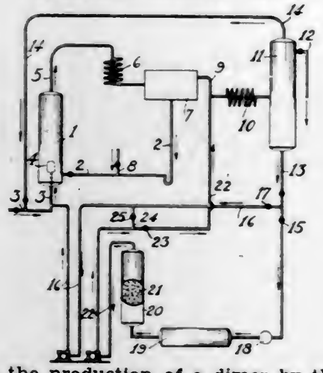
1. A structural fabric comprised of a plurality of leaves and supporting chord rods, hingedly mounted and longitudinally disposed with respect thereto, each leaf consisting of a plurality of strut rods having one end formed as a half loop secured to a chord rod, and the other end formed as a full loop pivoted to another chord rod and resting on an adjacent half loop of another strut rod.

2,314,457

PRODUCING DIMERS OF OLEFINS

Bruno E. Roetheli and Mervin E. Conn, Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware

Application January 26, 1937, Serial No. 122,351
10 Claims. (Cl. 260—683.1)



1. In the production of a dimer by the polymerization of a normally gaseous monomeric olefin, the step of adding a trimer of said olefin to the feed stock to the polymerization unit in an amount between about 1% and about 10% by volume of the feed stock.

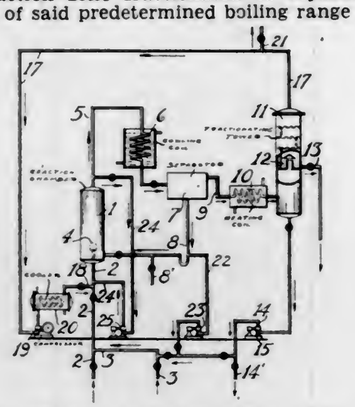
2,314,458

POLYMERIZING OLEFINS

Eldon E. Stahly and Frank B. Johnson, Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware

Application September 30, 1938, Serial No. 232,496
8 Claims. (Cl. 196—10)

2. In a process for the conversion of low boiling olefins into higher boiling hydrocarbons of predetermined boiling range wherein said olefins are passed through a reaction zone containing a catalyst maintained under conditions capable of effecting said conversion, and the products from said reaction zone fractionated to separate a product of said predetermined boiling range and



wherein reaction products boiling above the desired range are normally formed in the process, the improvement which comprises continuously introducing into said reaction zone only a quantity of said last named higher boiling reaction products sufficient to substantially completely suppress the formation of said products during the process.

2,314,459

DRY STARCH PRODUCT

August Adolph Salzburg, London, England, assignor to Dryfood Ltd., London, England, a limited liability company of Great Britain

No Drawing. Application April 15, 1939, Serial No. 268,023. In Germany April 20, 1938
9 Claims. (Cl. 99—139)

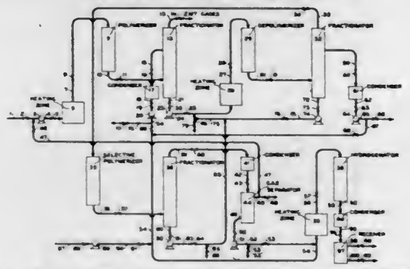
1. The method of producing cold-swelling preparations from blancmange- or pudding-forming starch which comprises treating the starch at a temperature ranging between about 73° C. and 100° C. for conversion into a paste with about 6 to 15 parts water per 1 part starch and drying this paste in a state of fine subdivision.

2,314,460

TREATMENT OF HYDROCARBONS

Raymond E. Schaad, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application March 29, 1939, Serial No. 264,786
Renewed July 3, 1940
15 Claims. (Cl. 196—10)



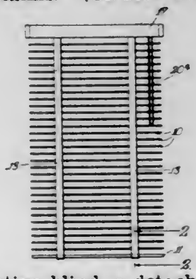
11. A process for producing saturated hydrocarbons boiling in the gasoline range and of high anti-knock value, which comprises subjecting normally gaseous olefins to polymerization to form hydrocarbons of 6 and more carbon atoms to the molecule, separating the C_6 hydrocarbons from heavier polymers, depolymerizing the latter to form olefins of less than 6 carbon atoms to the molecule, subjecting the last-named olefins to interpolymerization independently of said normally gaseous olefins to form mixed olefin polymers, and subjecting at least a portion of said mixed polymers and said C_6 hydrocarbons to hydrogenation to effect substantial saturation thereof.

2,314,461

VENETIAN BLIND

Edward E. Schaefer, Oak Park, Ill.

Application July 17, 1942, Serial No. 451,299
8 Claims. (Cl. 160—173)



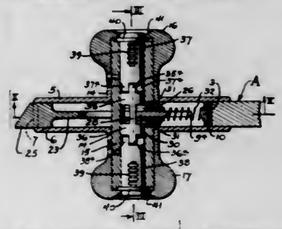
1. In a Venetian blind, a detachable cord fastening and slat supporting device comprising an elongated shank member having a bore at its upper end adapted to receive the lower end of a raising and lowering cord, a fastening pin extending substantially diametrically through said shank and through said cord adjacent the upper end of said shank for permanently securing said shank to said cord, and a substantially flat slat supporting member adapted to be detachably secured to the lower end of said shank and to engage the under face of the bottom slat to support said slat when said cord is raised or lowered.

2,314,462

DOOR LOCK

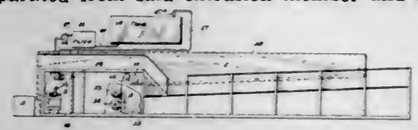
Walter R. Schlage, Burlingame, Calif., assignor to Schlage Lock Company, San Francisco, Calif., a corporation of California

Application March 17, 1941, Serial No. 383,702
2 Claims. (Cl. 70—153)



1. In a lock of the character described, a tubular spindle, a dog for dogging the spindle against rotation, a dog actuator within the spindle controlling the position of the dog to dog or undog the spindle, said dog actuator comprising a pair of cylindrical-shaped members fitting the interior of the tubular spindle, said members being spaced apart and connected by a dog actuating bar, and means operable through either end of the tubular spindle for rotating the cylindrical-shaped members and the connecting bar to actuate the dog.

of moving flat sheet base material, a vertically and horizontally adjustable extrusion member adapted to extrude high viscosity flat sheet coating liquid, pump means and valve means associated with said member for supplying a flow of said liquid to said member, adjustable nozzle means for said extrusion member for regulating the amount of said flow, reservoir tank means separated from said extrusion member and ad-



justable pipe means connecting said tank means and said extrusion member, and an adjustable related power driven roller apparatus of small diameter adapted to tangentially feed a continuous web of flexible base material at a speed greater than the rate of extrusion of said liquid and in proximity thereto, so that the base material may be coated with said extruded liquid in stretched condition.

2,314,454

PRODUCTION OF ESTERS OF HALOGEN ALCOHOLS

Friedrich Manchen and Willi Schmidt, Ludwigshafen-on-the-Rhine, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application August 9, 1939, Serial No. 289,174. In Germany August 19, 1938

7 Claims. (Cl. 260—463)

1. A process for the production of esters of halogen-alcohols which consists in bringing into contact at reaction temperature a cyclic ether of the dihydro- and tetrahydrofurane series with a carboxylic acid halide.

2,314,455

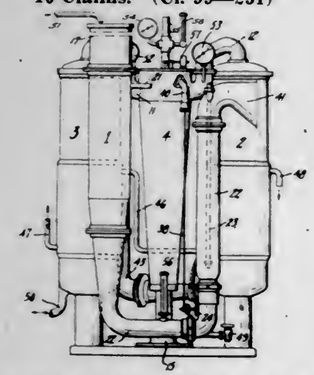
APPARATUS FOR PASTEURIZING AND/OR DEODORIZING AND COOLING LACTEAL LIQUIDS UNDER VACUUM

Henry Lamont Murray, Parnell, Auckland, New Zealand, assignor to Murray Deodorizers Limited, Auckland, New Zealand, a company of New Zealand

Application February 17, 1939, Serial No. 257,013

In Australia February 22, 1938

10 Claims. (Cl. 99—251)



3. Apparatus for the continuous treatment of lacteal fluids, comprising a vacuum deodorizer and a vacuum cooler connected in series; and a two chambered condenser capable of generating a different degree of vacuum in each said chamber, and connected directly, the chamber of lower vacuum to the deodorizer, and the chamber of higher vacuum to the cooler; the vacuum pulling the lacteal fluid from the deodorizer into the cooler.

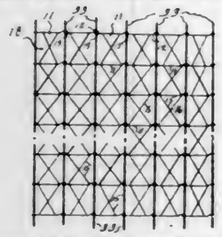
2,314,456

STRUCTURAL FABRIC

Jerome Seymour Nadell, Birmingham, Mich.

Application June 1, 1939, Serial No. 276,861

9 Claims. (Cl. 189—34)



1. A structural fabric comprised of a plurality of leaves and supporting chord rods, hingedly mounted and longitudinally disposed with respect thereto, each leaf consisting of a plurality of strut rods having one end formed as a half loop secured to a chord rod, and the other end formed as a full loop pivoted to another chord rod and resting on an adjacent half loop of another strut rod.

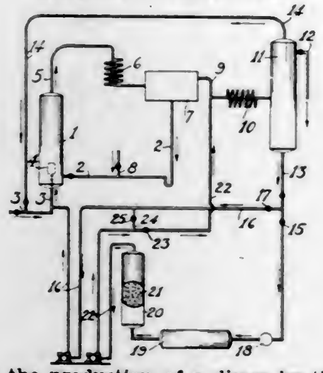
2,314,457

PRODUCING DIMERS OF OLEFINS

Bruno E. Roetheli and Mervin E. Conn, Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware

Application January 26, 1937, Serial No. 122,351

10 Claims. (Cl. 260—683.1)



1. In the production of a dimer by the polymerization of a normally gaseous monomeric olefin, the step of adding a trimer of said olefin to the feed stock to the polymerization unit in an amount between about 1% and about 10% by volume of the feed stock.

2,314,458

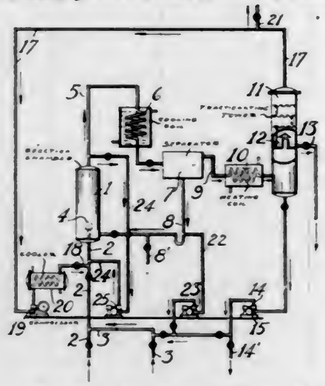
POLYMERIZING OLEFINS

Eldon E. Stahly and Frank B. Johnson, Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware

Application September 30, 1938, Serial No. 232,496

8 Claims. (Cl. 196—10)

2. In a process for the conversion of low boiling olefins into higher boiling hydrocarbons of predetermined boiling range wherein said olefins are passed through a reaction zone containing a catalyst maintained under conditions capable of effecting said conversion, and the products from said reaction zone fractionated to separate a product of said predetermined boiling range and



wherein reaction products boiling above the desired range are normally formed in the process, the improvement which comprises continuously introducing into said reaction zone only a quantity of said last named higher boiling reaction products sufficient to substantially completely suppress the formation of said products during the process.

2,314,459

DRY STARCH PRODUCT

August Adolph Salzburg, London, England, assignor to Dryfood Ltd., London, England, a limited liability company of Great Britain

No Drawing. Application April 15, 1939, Serial No. 268,023. In Germany April 20, 1938

9 Claims. (Cl. 99—139)

1. The method of producing cold-swelling preparations from blancmange- or pudding-forming starch which comprises treating the starch at a temperature ranging between about 73° C. and 100° C. for conversion into a paste with about 6 to 15 parts water per 1 part starch and drying this paste in a state of fine subdivision.

2,314,460

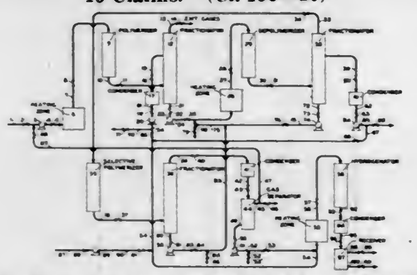
TREATMENT OF HYDROCARBONS

Raymond E. Schaad, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application March 29, 1939, Serial No. 264,786

Renewed July 3, 1940

15 Claims. (Cl. 196—10)



11. A process for producing saturated hydrocarbons boiling in the gasoline range and of high anti-knock value, which comprises subjecting normally gaseous olefins to polymerization to form hydrocarbons of 6 and more carbon atoms to the molecule, separating the C_6 hydrocarbons from heavier polymers, depolymerizing the latter to form olefins of less than 6 carbon atoms to the molecule, subjecting the last-named olefins to interpolymerization independently of said normally gaseous olefins to form mixed olefin polymers, and subjecting at least a portion of said mixed polymers and said C_6 hydrocarbons to hydrogenation to effect substantial saturation thereof.

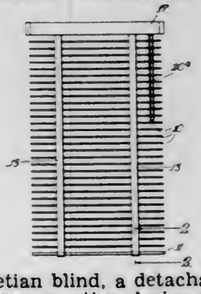
2,314,461

VENETIAN BLIND

Edward E. Schaefer, Oak Park, Ill.

Application July 17, 1942, Serial No. 451,299

8 Claims. (Cl. 160—173)



1. In a Venetian blind, a detachable cord fastening and slat supporting device comprising an elongated shank member having a bore at its upper end adapted to receive the lower end of a raising and lowering cord, a fastening pin extending substantially diametrically through said shank and through said cord adjacent the upper end of said shank for permanently securing said shank to said cord, and a substantially flat slat supporting member adapted to be detachably secured to the lower end of said shank and to engage the under face of the bottom slat to support said slat when said cord is raised or lowered.

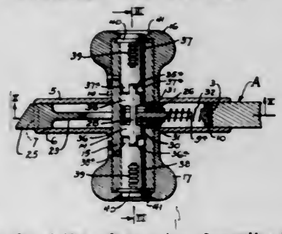
2,314,462

DOOR LOCK

Walter R. Schlage, Burlingame, Calif., assignor to Schlage Lock Company, San Francisco, Calif., a corporation of California

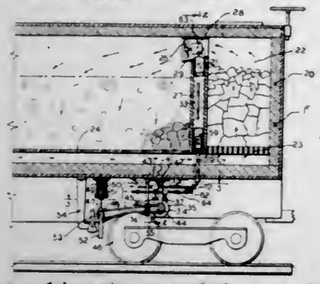
Application March 17, 1941, Serial No. 383,702

2 Claims. (Cl. 70—153)



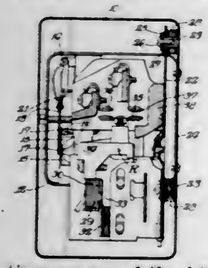
1. In a lock of the character described, a tubular spindle, a dog for dogging the spindle against rotation, a dog actuator within the spindle controlling the position of the dog to dog or undog the spindle, said dog actuator comprising a pair of cylindrical-shaped members fitting the interior of the tubular spindle, said members being spaced apart and connected by a dog actuating bar, and means operable through either end of the tubular spindle for rotating the cylindrical-shaped members and the connecting bar to actuate the dog.

2,314,463
REFRIGERATOR CAR
Robert Kent Schwebs, Hortonville, Wis.
Application March 24, 1941, Serial No. 384,887
18 Claims. (Cl. 62—24)



1. In a refrigerator car of the type having a storage compartment and a bunker compartment separate from the storage compartment, an air circulating fan for drawing air from one of said compartments and delivering it to the other of said comaprtments, means for operating said fan, including a turbine, and a pump delivering liquid under pressure to said turbine; means for driving the pump from a wheel of the truck of the car, including a pulley belt normally held in engagement with the periphery of said wheel.

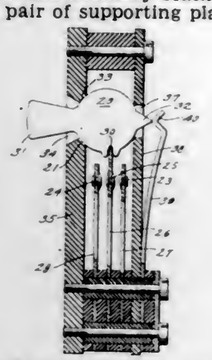
2,314,464
LINE STARTER SWITCH
Burton E. Shaw, Bristol, Ind., assignor to Penn Electric Switch Co., Goshen, Ind., a corporation of Iowa
Application May 22, 1939, Serial No. 275,061
1 Claim. (Cl. 248—358)



In a supporting means of the kind disclosed, a main support, an auxiliary support, and means to prevent said auxiliary support from jarring said main support comprising a plurality of headed posts extending from said main support, said auxiliary support having a perforation loosely receiving each of said posts, a bushing of rubber or the like lining each of said perforations, said bushings being carried by and movable with said auxiliary support and being of less length than said posts, and resilient means at each of said posts and interposed between said auxiliary support and said main support.

2,314,465
SWITCH
Burton E. Shaw, Bristol, Ind., assignor to Penn Electric Switch Co., Goshen, Ind., a corporation of Iowa
Original application February 12, 1940, Serial No. 318,530. Divided and this application July 14, 1942, Serial No. 450,863
7 Claims. (Cl. 200—154)

1. A double-throw switch comprising a pair of switch blades, a contact making switch blade therebetween for selective engagement with said first switch blades, and means to move said contact making switch blade to either of its engaged positions with snap action comprising a floating disk operatively connected therewith and having a handle and a cam lobe, a pair of seats for the periphery of said disk, a spring arm engaging said cam lobe and normally seating said disk in said seats, a pair of supporting plates each having a slot in which said disk is mounted and said seats being formed in one of said plates, said disk being rotatable relative to said seats and said spring arm coacting with said lobe to effect initial unseating of said disk from one of said seats when said handle is moved from one position toward the other one, whereupon passage of the cam lobe past the spring arm effects quick reseating of the disk and rotation thereof to its opposite position.



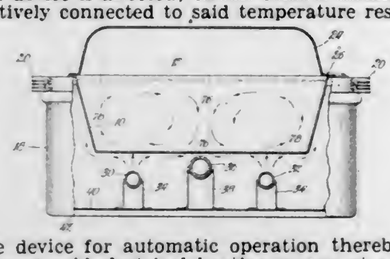
2,314,466
INHIBITOR FOR CHEMICAL DETERIORATION
Herman L. Thwaites, Clark Township, Union County, N. J., assignor, by mesne assignments, to Jasco, Incorporated, a corporation of Louisiana
No Drawing. Application November 30, 1939, Serial No. 306,903
7 Claims. (Cl. 260—669)

4. The process of inhibiting the polymerization and condensation of an organic compound having the vinyl group which comprises adding to said vinyl compound a small amount of a triphenyl compound of an element of the odd series of group V of the periodic table of atomic weight between 30 and 210.

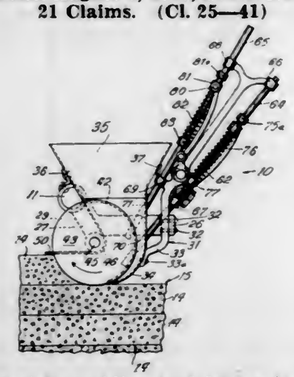
5. A stabilized organic composition containing an organic compound having the vinyl group and a small amount of a triphenyl compound of an element of the odd series of group V of the periodic table of atomic weight between 30 and 210.

2,314,467
DIPPING EQUIPMENT
Orville Tubbs, Chicago, Ill.
Application March 19, 1941, Serial No. 384,099
3 Claims. (Cl. 219—44)

1. Equipment for melting chocolate and maintaining it at a constant temperature for dipping purposes comprising in combination: a chocolate container having a thin walled flat bottom of high heat conductivity and low thermal capacity; a water bath immersing the bottom and sides of said container; said water bath having heat capacity not less than the heat capacity of said chocolate container and its contents; electrical heating means immersed in said water bath and spaced a predetermined distance below the bottom of said container; said electrical heating means being of insufficient power to cause local generation of steam during the normal operation of the device; a temperature responsive element spaced below the bottom of said container and immersed in said water bath; said thermostat being at a higher level than said heating means and laterally offset from said heating means; whereby a material but minor fraction of the water in said bath must be heated by said heating means and spread out along the bottom of said container before said temperature-responsive device is affected; circuit control means operatively connected to said temperature responsive device for automatic operation thereby, to connect said electrical heating means at a predetermined lower temperature of said temperature-responsive device and to disconnect said electrical heating means at a predetermined higher temperature of said temperature responsive device; the interval between said temperatures not exceeding 6° F.; and manual adjustment means for changing both said temperatures simultaneously in the same direction to vary the average temperature at which the material of said container is automatically kept, while maintaining the temperature range of the material in said container constant within a small range of variation above or below said average temperature.

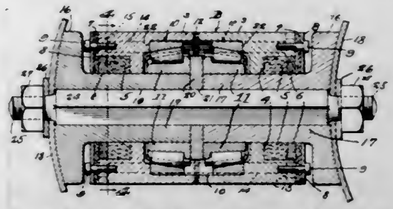


2,314,468
MOLDING AND DEPOSITING MACHINE FOR SOLIDIFIABLE PLASTIC MATERIALS
William E. Urschel, Valparaiso, Ind.
Application August 1, 1940, Serial No. 349,309
21 Claims. (Cl. 25—41)



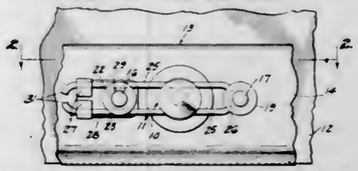
1. In a strip molding and laying head, a discharge passage comprising opposed plane-like molding side walls, and rotatable trowel members of which one has peripheral sections for forming at least a portion of one of said walls and of which members another has peripheral sections for forming at least a portion of the other of said opposed walls, a. i the peripheral sections of said trowel members being disposed for successively traversing their respective walls within the planes thereof pursuant to rotation of said members.

2,314,469
HARROW DISK MOUNTING
Elbra E. Walker, Hastings, Nebr.
Application September 28, 1942, Serial No. 460,014
3 Claims. (Cl. 308—181)



1. In a harrow disk mounting, a boxing comprising members disposed end-to-end and provided at their adjacent ends with cavities cooperating to form a lubricant reservoir, the cavities defining transverse shoulders, the boxing members being supplied with recesses in their remote ends, packings in the recesses, securing means holding the boxing members together releasably, means for admitting a lubricant to the reservoir, anti-friction bearings in the cavities and comprising inner and outer rings, the outer rings engaging the shoulders, a spacer extended within the reservoir and engaging the inner rings, detachable parts mounted on the remote ends of the boxing members and overlapping the packings, shafts having polygonal bores, the shafts passing through the said detachable parts, and the packings, and entering the inner rings, the shafts abutting against opposite surfaces of the spacer, a connector of polygonal cross section removably mounted in the polygonal bores of the shafts, and disk-retaining tightening means on the connector, and, in conjunction with the spacer, holding the shafts and the connector against relative longitudinal movement.

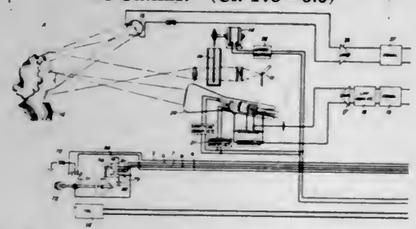
2,314,470
FASTENER
Walter F. Warren, Hermosa Beach, Calif.
Application January 27, 1942, Serial No. 428,387
9 Claims. (Cl. 24—221)



7. In a fastener of the kind described, a hairpin like female fastening element having spaced apart parallel yielding side portions, and a male fastening element furnished with a tapered head having diametrically opposite recesses into which said side portions spring when said head, in the proper circumferential position, is forced between them, a carrier plate for said head having an aperture through it, said tapered head having a tubular part which extends axially from its large end and which extends turnably through said aperture of said plate, said plate having a laterally deflected portion around its said aperture thereby forming a countersink in one of its faces and a frustoconical rise in its opposite face, said male element having a frusto-

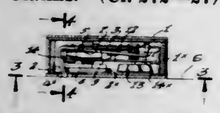
conical flange leading from its aforesaid tubular part adjacent to its head, said flange underlying the outer side of the countersink and being inclined in conformity therewith, an attaching washer for said male element shaped to fill in the space within the countersink surrounding the inserted tubular shank, said washer having on one side an internal annular bevel which reportion of said tubular shank, said washer haveceives a peened over portion of the outer end ing around the opposite end of the opening through it an annular rib or shoulder of sufficient extent to slightly more than compensate for the thickness of the countersunk portion of the plate, whereby said male member is secured to the plate in a freely turnable manner.

2,314,471
TWO-WAY TELEVISION AND SPEECH TELEVISION
Sumner B. Wright, South Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 24, 1940, Serial No. 354,068
14 Claims. (Cl. 178—5.6)



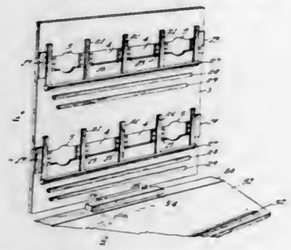
1. A combined television and sound system comprising stations connected by a plurality of communication channels, means for transmitting sound signals over one of said channels, and means associated with said one channel and controlled by said sound signals, for controlling another of said channels for the transmission thereover of television signals.

2,314,472
VIBRATING TRICK TOY
Richard Appel, Sunnyside, Long Island, N. Y.
Application September 19, 1941, Serial No. 411,469
3 Claims. (Cl. 272—27)



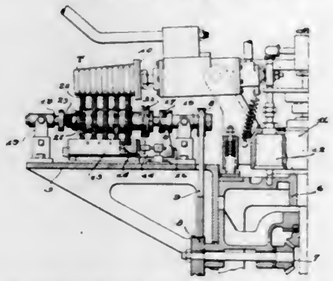
1. In a vibrating trick, a main frame comprising a plate formed with a circular opening, a supplemental frame carried by the main frame and comprising two like plates having angularly bent extensions at their ends, the plates being superposed and held in spaced relationship by said extensions, means carried by said extensions interlocking together, three shafts held in aligned bearing apertures of and between the plates of the supplemental frame, a spiral spring and drive gear on one shaft, a driven pinion and drive gear on the second shaft, being an intermediate shaft, and a driven pinion on the third shaft, the said shaft-held members lying between the plates of the supplemental frame, a thumb winding element connected to the spring-holding shaft, said element being projected exteriorly of the plates of the supplemental frame and into register with the circular opening of the main frame, an eccentric weight carried by the last of the said three shafts and projected exteriorly of the two plates of the supplemental frame, and a latch lever for controlling the action of the spring, each angularly bent extension at an end of the two plates comprising the supplemental frame having a relatively narrow section directly connected to its plate and carrying a strap open at its top, the narrow extension merging into a broader extension having a plurality of bendable lugs.

2,314,473
SUPPORT FOR MATERIALS
Joseph R. Barlow, Pittsburgh, Pa., assignor of one-half to Charles X. Wunderly, Pittsburgh, Pa.
Application January 24, 1942, Serial No. 428,041
20 Claims. (Cl. 211—50)



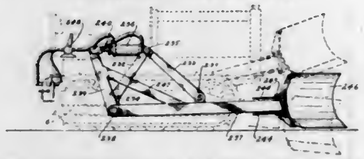
3. A support for material comprising a base having a sideways extending opening therein, means having an aperture extending from front to rear and also having a tongue-and-groove connection with said base slidable along said opening to accommodate various widths of said material, and second means slidable forward and backward through said aperture for effecting depth adjustments with respect to said base to accommodate various thicknesses of said material.

2,314,474
APPARATUS FOR BANDING ARTICLES
Thomas S. Bauman, Toledo, Ohio, assignor to Libbey Glass Company, a corporation of Ohio
Application March 31, 1941, Serial No. 386,027
10 Claims. (Cl. 91—12)



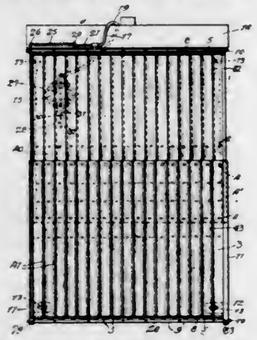
1. In a machine for applying a colored band to an article, a rotating disk-like paint applying device having its periphery provided with alternate circumferentially extending paint carrying surfaces and open spaces, said surfaces and spaces being of approximately equal width, a paint reservoir for supplying paint to said surfaces, and means for reciprocating the device axially during application of paint to the article a distance approximately equal to the width of one of the paint carrying surfaces.

2,314,475
CONTROL FOR TRAIL BUILDERS
Len O. Bird, Glendale, and Edward P. Drake, Los Angeles, Calif., assignors, by direct and mesne assignments, to R. G. Le Tourneau, Inc., Stockton, Calif., a corporation of California
Original application June 1, 1935, Serial No. 24,562. Divided and this application July 24, 1939, Serial No. 286,210
9 Claims. (Cl. 37—144)



6. In combination, a tractor, pusher arms independently pivoted on the track frames of the tractor, an earth moving blade carried by said arms, lever arms fixed to and operable for relatively moving said pusher arms, and power actuated devices connecting said lever arms with said tractor and operable for relatively moving said lever arms and pusher arms so as to tilt said blade and maintain it in tilted position.

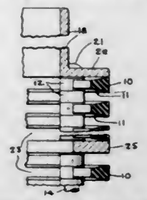
2,314,476
RADIATOR SHUTTER CONSTRUCTION
Edward A. Blumenthal, Chicago, Ill.
Application September 19, 1940, Serial No. 357,352
10 Claims. (Cl. 189—62)



1. In a shutter blade assembly, a plurality of pivotally mounted shutter blades, each blade comprising at least two sections arranged in extensible relation, and flanges along one longitudinal edge only of each section, said flanges on adjacent sections of each blade being oppositely disposed with respect to each other and to the flanges on adjacent sections of adjoining blades.

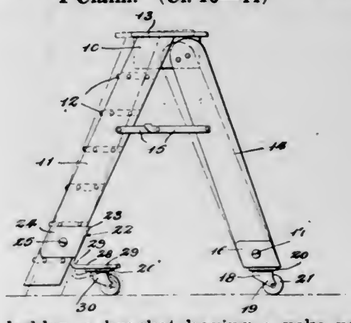
2,314,477
WELL SCREEN HAVING WATER CONTACTING SURFACES FORMED OF PLASTIC MATERIAL
Charles E. Bodey, Jr., St. Paul, Minn., assignor to Edward E. Johnson, Incorporated, St. Paul, Minn.
Application November 25, 1940, Serial No. 366,980
6 Claims. (Cl. 166—5)

1. A well screen comprising a multiplicity of similar arcuate bars of plastic material such as Bakelite each formed with narrowed heads having openings therethrough, steel rods extending through said openings and holding adjacent ends in contact, the said bars being severally formed so that when so held they will form drainage slots between each pair thereof, and steel rings



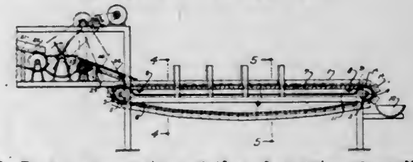
on said rods between sets of said bars so held for maintaining the arcuate bars in position to form a substantially cylindrical well screen.

2,314,478
SELF-LOCKING CASTER STEPLADDER
Floyd E. Brower, Gardiner, Oreg.
Application October 21, 1940, Serial No. 362,159
1 Claim. (Cl. 16—44)



In a ladder, a bracket having a yoke portion adapted to receive a foot portion of the ladder therebetween and being secured thereto, said bracket having a bight portion and a resilient tongue integrally formed therewith extended downwardly and curved so as to lie at an angle to the yoke portion of the bracket and extended a substantial distance outwardly therefrom, and a caster fixed on the outer end of the tongue, said bracket being mounted upon the foot portion of the ladder at a height to normally hold the foot portion clear of a supporting surface.

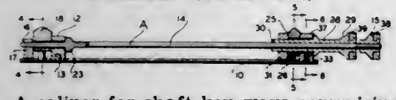
2,314,479
FISH SEGREGATING, SIZING, AND DIRECTING APPARATUS
Andrew L. Christiansen, Willowbrook, Calif.
Original application April 1, 1935, Serial No. 14,052. Divided and this application March 8, 1940, Serial No. 322,981
15 Claims. (Cl. 209—102)



4. In an apparatus of the character described, a plurality of parallel, horizontal, synchronized belt conveyors, each consisting of a continuous flexible belt and successive blocks of inverted V-shaped cross-section, the blocks being secured with the wide portions of their V-shaped cross-section to the outer side of the belt, and arranged longitudinally with respect thereto, the successive

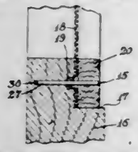
blocks forming spaced longitudinal ridges for the respective conveyors, and the blocks of adjacent conveyors providing longitudinal V-shaped channels therebetween, with the channels open at their lower portions.

2,314,480
CALIPERING DEVICE
Frank P. Clark, St. Paul, Minn.
Application January 5, 1942, Serial No. 425,650
5 Claims. (Cl. 33—174)



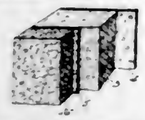
1. A caliper for shaft key-ways comprising an elongated base member, pairs of blocks mounted at spaced positions on said base member, feelers floatingly held between the blocks of each pair and spring-pressed to an outward position, whereby the caliper may be inserted in a key-way closed at one end and the feelers will automatically position themselves to contact a wall of said key-way, and means for locking said feelers in their automatically adjusted position.

2,314,481
FINISHING NAIL
Charles E. Crooks, Chicago, Ill., assignor to Spotnails, Inc., Chicago, Ill., a corporation of Illinois
Application July 5, 1941, Serial No. 401,083
2 Claims. (Cl. 20—74)



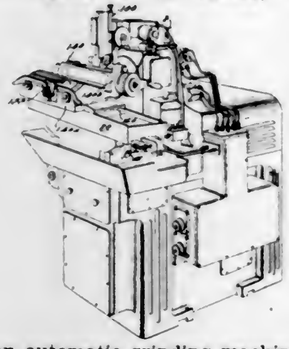
1. In combination with a relatively thick base member and a relatively thinner member to be nailed together, the thinner member being of relatively fragile character to the extent that when it is pierced by a pair of closely spaced nail shanks or nail-weight staple legs the partially severed material of such member lying between the nail holes is detached from or at least so weakened with respect to its attachment to the material at opposite sides of the puncture plane that the partially severed material will afford little, if any, resistance to plug-out where said members are subjected to a relative separating force, a finishing nail having a relatively long shank extending entirely through said thinner member and anchored deeply in the base member, said nail having a head of substantially hook shape including a point penetrating only partially through said thinner member, and a substantial unpierced portion of said thinner member intervening between the end of said point and the inner face of said thinner member, said head being in engaging relation to that material of the thinner member which is partially severed by the shank and point and lies within the hook of the head, said intervening portion of the thinner member forming a solid retaining bridge across the inner end of the hole formed by said point and being integral with the adjoining material of the body including said partially severed material to reenforce said partially severed material for effecting a sound interlocking relationship with said hook-shaped head strongly resisting pulling of the head through or loose from the thinner member.

2,314,482
MATTRESS AND THE LIKE
Walter de Fries, Pittsburgh, Pa., assignor to Fort Pitt Bedding Company, a corporation of Pennsylvania
Application March 27, 1940, Serial No. 326,202
3 Claims. (Cl. 28—79)



1. An upholstery pad comprising a first layer of relatively long, harsh, unspun coir fibers, a second layer of relatively soft cotton fibers, and an intermediate thin layer of harsh cotton felt fibers the latter being interentangled with the fibers of said first layer at, at least, the surface thereof and matted to said second layer for frictionally bonding all three layers together into a coherent integral unit, all of said layers being garnetted.

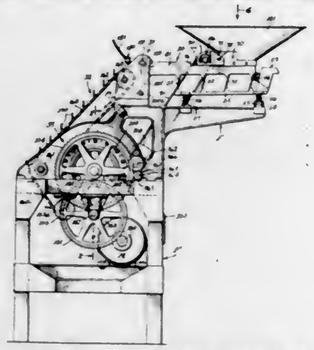
2,314,483
AUTOMATIC GRINDER
Charles B. De Vlieg, Detroit, Mich., assignor to Le Maire Tool & Manufacturing Company, Dearborn, Mich., a corporation of Michigan
Application February 6, 1941, Serial No. 377,580
13 Claims. (Cl. 51—90)



1. In an automatic grinding machine for performing grinding operations on the channels of an engine connecting rod in which the machine includes a manually shiftable wheel dressing device operable to dress the grinding wheel of the machine to control the size of the finish operation upon the workpiece, said machine being capable of producing a true generated form to said channels, which comprises coordinating straight and radius forms, a high speed grinding tool rotatable at a constant speed, a workpiece supporting table reciprocable transversely of said machine and relatively to said high speed grinding wheel, and means for feeding the grinding wheel with a high degree of precision progressively relative to the moving workpiece, means for retracting said grinding wheel at the completion of the grinding operation.

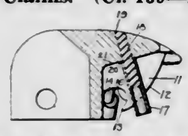
2,314,484
METERING AND ALIGNING MACHINE
Edward P. Drake and Fred J. Alberty, Los Angeles, and William Herbert Kagley, Lindsay, Calif., assignors to Lindsay Ripe Olive Company, Lindsay, Calif., a corporation
Application March 6, 1940, Serial No. 322,540
18 Claims. (Cl. 198—30)

1. In a fruit pitting machine, the combination of: an inclined tray having a fruit passage therein of width sufficient for only a single row of fruit, means to vibrate the said tray to cause the fruit to move downwardly through the said passage, a metering mechanism positioned and adapted to receive the fruit from the said passage



and space it for subsequent travel, a tapping member adjacent the delivery end of the said fruit passage adapted to intermittently engage the fruit on its upper surface to prevent a piling up of the fruit entering into the metering mechanism, and means to reciprocate the said tapping member.

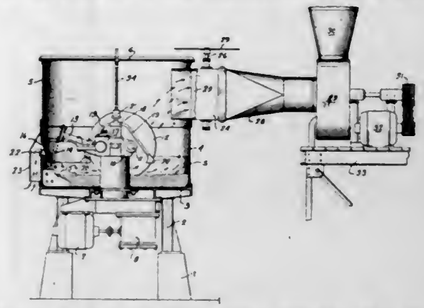
2,314,485
THREADING BLOCK FOR LOOM SHUTTLES
Robert C. Draper and Carl D. Brown, Hopedale, Mass., assignors to Draper Corporation, Hopedale, Mass., a corporation of Maine
Application January 19, 1942, Serial No. 427,250
7 Claims. (Cl. 139—212)



1. A threading block for a shuttle for use in an automatic filling replenishing loom, comprising a threading block having a thread passage therein through which a filling thread may be drawn, and an element secured to the top portion of said block and extending downwardly therefrom to engage the said filling thread, said element being resiliently mounted in said block to engage said filling thread in a manner to reduce a slack condition occurring in said thread.

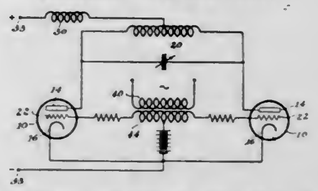
2,314,486
APPARATUS FOR COOLING SAND MULLERS
James J. Dvorak, Chicago, Ill., assignor to Herbert S. Simpson, Evanston, Ill.
Application September 14, 1942, Serial No. 458,302
3 Claims. (Cl. 22—89)

3. In an apparatus for mulling and agitating material such as hot molding sand used in foundries and which apparatus includes a mulling chamber adapted to have disposed on the bottom thereof a relatively compact mass of material to be mulled, air inlet means for the chamber disposed above the top level of the mass of material being mulled, and suction means connected to the chamber for continuously drawing a stream of air in said inlet over the top of the material whereby to withdraw heat by conduction from the material as well as to withdraw from the mulling chamber heated gases and steam without such air passing through the material, said air inlet comprising a lateral offset conduit adjacent the bottom of the mulling chamber and communicating with the interior of the chamber in a plane above



the top of the material being mulled, said suction means being connected to the mulling chamber on a side opposite to that of the inlet and adjacent the top of the mulling chamber.

2,314,487
TRANSMITTER
Theodor Fecker, Berlin, Germany, assignor to General Electric Company, a corporation of New York
Application February 12, 1941, Serial No. 378,523
In Germany February 4, 1939
4 Claims. (Cl. 179—171)

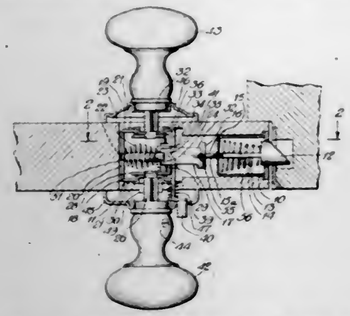


1. In a radio frequency amplifier system, a pair of electron discharge tubes each having an anode, a cathode, and a control grid, means for impressing wave energy of square wave form in phase opposition on said control grids, an oscillatory circuit connected with said anodes, and means for supplying substantially constant direct current to the anodes of said tubes.

2,314,488
TUBULAR LATCH
Fred H. Fellows, North Chicago, Ill., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut
Application October 10, 1939, Serial No. 298,731
8 Claims. (Cl. 292—169)

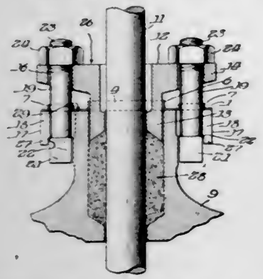
8. In a lock of the class described, a casing, a latch bolt retracting member, an inside rollback and an outside rollback in said casing for retracting said latch bolt retracting member, inside and outside spindles for said rollbacks extending outwardly of said casing, a push piece entirely outside said spindles guided in said casing in offset and parallel relation to said spindles and extending outwardly of said casing in spaced relation to said spindles and terminating in a push button, means whereby said push piece when depressed inwardly of said casing locks said outside rollback against rotation, means cooperating with a portion of said push piece for retaining it in locking relation to said rollback once said push piece is depressed inwardly of said casing, and means

whereby the retraction of said latch bolt thereafter independently of said outside rollback ef-



fects the movement of said push piece from its depressed position.

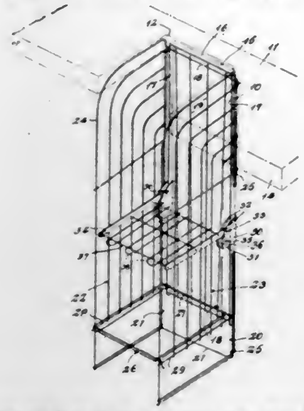
2,314,489
GLAND BOLT RETAINER
Richard Fennema, Chicago, Ill., assignor to Crane Co., Chicago, Ill., a corporation of Illinois
Application May 7, 1941, Serial No. 392,217
5 Claims. (Cl. 286—33)



1. A packed joint comprising a journaling member, a journaled member, said members having interposed therebetween a chamber containing packing, a gland extending into said chamber, screw means connecting said journaling member and said gland and adapted to urge said gland into said chamber and compress said packing, a relatively thin apertured means independent of said journaling or journaled member peripherally and snugly engaging said screw means and said gland, and adapted to maintain the said screw means in substantially predetermined spaced-apart relation with respect to the longitudinal axis of the said journaling member.

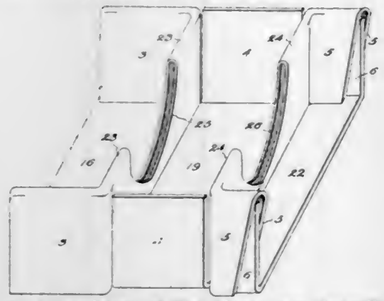
2,314,490
GROCERY SACKER
Sylvan N. Goldman, Oklahoma City, Okla.
Application January 7, 1942, Serial No. 425,945
6 Claims. (Cl. 211—85)

4. In a device of the character described, a supporting frame including an upright rear member and a pair of pivotally connected side members, separable means connecting the side members, said rear member having a pair of vertical leg members, a saddle embracing each leg member consisting of a pair of parallel wings, a shelf having an arm pivotally mounted between the wings of each saddle, and a cam lever pivotally mounted between the wings of each saddle below the shelf arm, said cam lever being of a length to contact its respective leg mem-



ber at one end and to support the weight of the shelf at the other end.

2,314,491
INNER PACKING OF CORRUGATED BOARD
Abbot Greenberg, New York, N. Y., assignor to Eastern Corrugated Container Corporation, Brooklyn, N. Y., a corporation of New York
Application May 22, 1942, Serial No. 444,070
4 Claims. (Cl. 229—14)

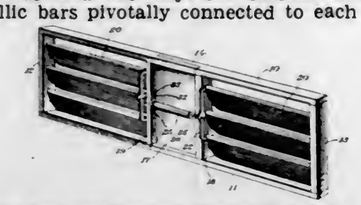


1. In a packing of the character described, a blank of corrugated board having a central longitudinal portion provided with integral projecting tabs along its lateral edges, said central longitudinal portion of which is reversely folded on transverse lines to provide a succession of longitudinally spaced apart upstanding supporting walls spaced from one another and from the opposite ends of the blank and having cut out apical seats and connected at their bases to flat portions which are positioned between said upstanding walls and between said walls and the opposite ends of the blank and the lateral tabs of the blank being folded into right angular relation to said flat portions of the blank and to said supporting walls with the tabs of at least one of said flat portions of the blank extending into the folds of the tabs which form continuations of the said supporting walls.

2,314,492
ADJUSTABLE VENTILATOR
Arthur E. Guettler, New York, N. Y.
Application June 5, 1940, Serial No. 338,993
3 Claims. (Cl. 98—99.2)

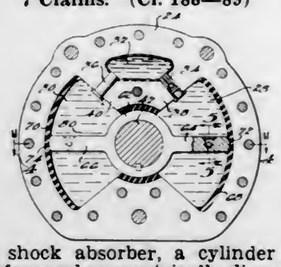
1. An adjustable ventilator comprising, a frame

including upper and lower longitudinal bars, end bars connecting the longitudinal bars, intermediate bars parallel with the end bars connecting the upper and lower bars, a group of slats pivotally connected in the space between each of the end bars and the adjacent intermediate bar, metallic bars pivotally connected to each group



of slats for opening and closing the slats, cranks connected to the metallic bars, a handle comprising a tubular bar having the cranks telescoped within the same, the cranks being rotatably mounted in the intermediate bars, and arcuate corrugated latch members on the intermediate bars engaging the cranks to hold the slats in adjusted position.

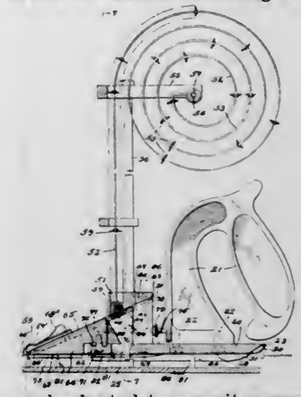
2,314,493
SHOCK ABSORBER
Frederick M. Guy, Detroit, Mich., assignor to Guy and Murton, Incorporated, Detroit, Mich., a corporation of Michigan
Application January 31, 1941, Serial No. 376,738
7 Claims. (Cl. 188—89)



1. In a shock absorber, a cylinder having a plurality of spaced symmetrically disposed chambers, a quantity of liquid in said chambers, a concentrically disposed member having a plurality of radially extending apertured arms projecting into said chambers, check valve means in each of the arms whereby liquid may by-pass the arms in both directions, and sealing means between the ends of the arms and the walls of the chambers comprising flexible resilient material carried by said walls in such manner as to be engaged and somewhat compressed by the ends of the arms as the arms move in the chambers to dissipate energy by forcing liquid to flow through said check valves.

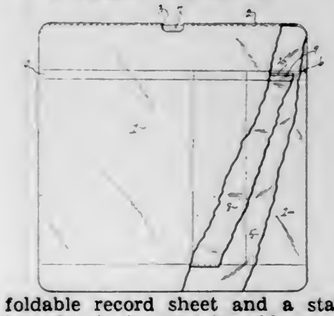
2,314,494
WASHER PLACING MACHINE
Carlos Hall and Fernando Hall, Mexico City, Mexico, assignors of twenty-five per cent to Harry Hadfield Hallatt and twenty-five per cent to Oscar Antonio Chabrand, both of Mexico City, Mexico
Application February 27, 1941, Serial No. 380,947
6 Claims. (Cl. 18—1)

1. A device of the character described comprising a body structure having a washer receiving well therein, a slot being formed in the device extending across the bottom of the well and beyond, an ejector slidable therein across the well, a needle device having a multiplicity of washers threaded thereon and extending into the well stopping short of the path of said ejector, a trigger mounted and constructed to project below the body at one position and movable by a passing point into point-clearing position, yielding means to hold the trigger in initial position, said trigger being operatively associated with the ejector for operation of the ejector, a washer guiding device in washer-receiving relation to



said slot, and adapted to permit movement of a washer therethrough by gravity to an extremity of the guiding device, a washer holding means at said extremity yieldable to a washer pressed therefrom, said guiding device being constructed to receive a point therein passing beneath the machine to engage the aperture of a washer at said extremity.

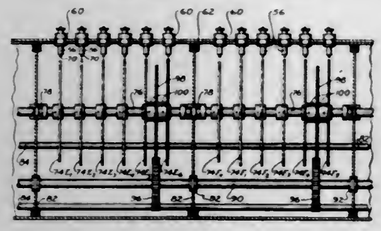
2,314,495
COMBINATION LEDGER AND STATEMENT SHEET
James Vernie Hall, Decatur, Ga.
Application November 18, 1942, Serial No. 466,018
4 Claims. (Cl. 282—8)



4. A foldable record sheet and a statement sheet adapted to be inserted in said record sheet when folded, said record sheet being provided with an aperture at its folded edge, means on said statement sheet so positioned as to be visible through said aperture at the folded edge of said folded record sheet, said means being of identical size and configuration as said aperture, and said means in association with said aperture being adapted to bring printed matter on both of said sheets into registration, and a reproducing sheet, said reproducing sheet having a transparent section through which printing on said statement sheet is visible, said reproducing sheet being attached to said statement sheet by means of an adhesive on said transparent section so that said reproducing sheet may be detached from said statement sheet without injury to said

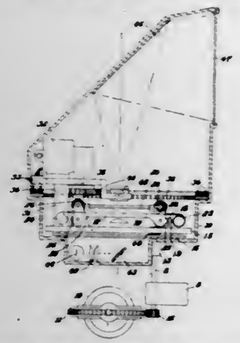
statement sheet, and said reproducing sheet being so positioned on said statement sheet as to cover only that portion of the statement sheet on which it is desired to reproduce matter written on said record sheet.

2,314,496
ELECTRICAL MUSICAL INSTRUMENT
Laurens Hammond, Chicago, Ill.
Application June 26, 1939, Serial No. 281,077
20 Claims. (Cl. 84—1.25)



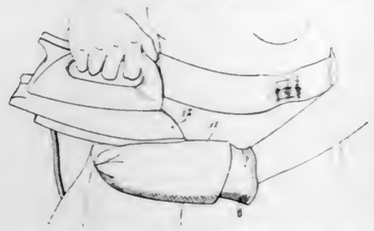
1. In an electrical musical instrument, the combination of a tone wheel forming part of a signal generator, resilient means for driving said wheel at a speed in the order of seven revolutions per second, a member of magnetic material connected for rotation with said wheel, and means for exerting a magnetic accelerating force upon said member during a predetermined portion only of the rotative cycle of said member.

2,314,497
COURSE-INDICATING APPARATUS FOR VEHICLES
John Gordon Hargrave, Kings Langley, and Denis Cedric Williams, London, England
Application November 24, 1939, Serial No. 306,010
In Great Britain November 29, 1938
9 Claims. (Cl. 40—42)



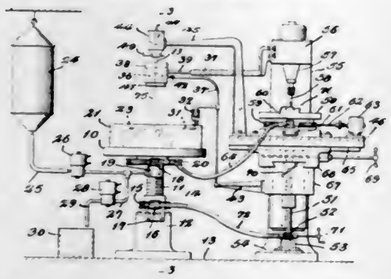
1. An automatic course-indicating apparatus for vehicles, comprising a supporting frame, a carrier to take a representation of the total course, mounting means in the frame for said carrier by which it can have a movement within the frame in a single plane in two directions mutually at right angles, motor and driving means for effecting said movements proportionately to the movements of the vehicle, a viewing screen carried by the frame, a light-transmission and optical system within the frame the optical axis of which intersects the screen in a fixed point and the said representation of the total course in any position in use the latter can occupy, and means to turn the representation of the total course in its plane of movement about its point of intersection with the said optical axis by driven gyroscopic direction-control means carried by and subject to the movements of the vehicle.

2,314,498
SLEEVE PRESSING PAD
Lucille E. Hoagland, Rosemead, Calif.
Application September 28, 1940, Serial No. 358,747
2 Claims. (Cl. 38—141)



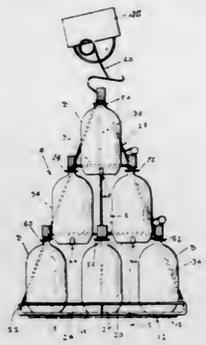
2. A flexible sleeve pressing pad having means for holding the same on one's hand, terminating at the wearer's wrist for application on the inside of a sleeve of a garment being pressed, said pad having an insulating body of compressed rock-wool, an inner envelope composed of a layer of batting of unwoven raw cotton distinct from the compressed rock-wool, disposed against the outer face of the compressed rock-wool and enveloping the same; an outer envelope of fabric enveloping the inner envelope, the said raw cotton inner envelope operating to entangle small particles of the rock-wool to prevent the same from coming into contact and penerating through the outer envelope.

2,314,499
APPARATUS FOR REPRODUCING THREE-DIMENSIONAL PATTERNS AND THE LIKE
Darnley E. Howard, Washington, D. C.
Application June 13, 1941, Serial No. 397,984
7 Claims. (Cl. 90—13.1)



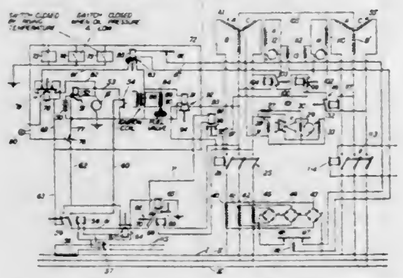
1. In a machine of the character described, a pattern table, means to establish a body of liquid thereon, means to vary the level of the liquid, a pointer device over the table movable universally, a work table, a tool mounted thereover, means to move the tool and work table relatively in a given direction, means to move said pointer and operative connections between the means to move the work table and tool relatively and said means to move the pointer, means to move the work table and tool relatively in a vertical direction, and operative connections between the last named means and said means to establish a liquid level, and means to rotate said tables in synchrony on a vertical axis.

2,314,500
DISPLAY STAND
James J. Jacobson, New York, N. Y.
Application April 16, 1941, Serial No. 388,809
7 Claims. (Cl. 211—74)



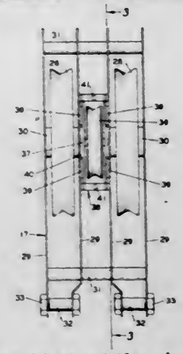
2. A display stand comprising a plurality of supports disposed at different levels for supporting a plurality of bottles at different levels and means engageable with the necks of said bottles, said means having openings through which the necks of the bottles, respectively, project when the bottles are mounted on said supports, for preventing removal of the bottles by movement thereof upwardly from their respective supports, said neck-engaging means for one of the bottles at the lowermost level being releasable in order to permit the removal of the companion bottle from the stand, said other bottles being non-removable from the stand unless said one of the bottles is first removed.

2,314,501
ALTERNATOR CONTROL SYSTEM
Fred Jervis, Los Angeles, Calif., assignor, by mesne assignments, to Bardco Manufacturing & Sales Company, Dayton, Ohio, a corporation of California
Original application September 16, 1938, Serial No. 230,262. Divided and this application May 3, 1941, Serial No. 391,741
8 Claims. (Cl. 290—40)



1. In an alternating current generating plant including an alternating current generator, and a prime mover for driving said generator, the combination of: two electric circuits of different power factor connected in parallel and energized by said generator; and means responsive to the differential of currents flowing in said branch circuits for varying the speed of said prime mover to maintain the frequency of said generator substantially constant

2,314,502
DUAL PURPOSE TRAVELING BLOCK
Harold S. Kelly, Amarillo, Tex., assignor to Phillips Petroleum Company, a corporation of Delaware
Application January 11, 1941, Serial No. 374,115
3 Claims. (Cl. 254—197)



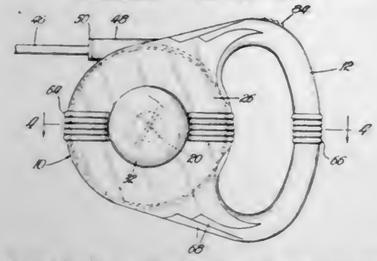
3. A traveling block of the character described comprising a frame, a plurality of coaxial sheaves rotatably supported in the frame, a pair of guide pulleys intermediate a pair of sheaves, the axes of the pulleys and the axis of the sheaves being substantially coplanar and parallel, said pulleys having their peripheral surfaces spaced to form an opening that substantially coincides with the axis of the sheaves, and means for varying the relative position of the pulleys with respect to each other.

2,314,503
ARTIFICIAL TOOTH
Walter A. Kurgas, St. Louis, Mo., assignor to E. B. Moore, St. Louis, Mo.
Application July 15, 1940, Serial No. 345,544
3 Claims. (Cl. 32—9)



1. An interchangeable artificial tooth and backing assembly therefor comprising a tooth facing in simulation of a natural tooth, said tooth facing having a substantially conical groove extending longitudinally thereof, said groove having a smaller transverse cross-sectional area in the incisal portion of the tooth facing than it has in the gingival portion of the facing, said groove having a smaller transverse dimension at the lingual surface than it has in the corresponding portion of the body of the facing immediately below the lingual surface, and a backing for said tooth facing having a substantially conical projection thereon, said projection being substantially the complement of the groove in the facing, said projection having grooves thereon oblique to the plane of the tooth backing, said grooves on the said projection being arranged to receive the edges of the conical groove in the facing when the facing is moved obliquely toward the plane of the tooth backing and to align automatically the tooth facing and backing for movement into engagement with each other, said projection being adapted to cooperate with the groove in the tooth facing to hold the facing and the backing in intimate engagement with each other.

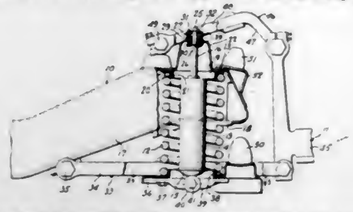
2,314,504
LEASH
Leo B. Lifchultz, Chicago, Ill.
Application July 5, 1940, Serial No. 344,007
3 Claims. (Cl. 242—98)



1. A leash for animals comprising, in combination: a housing; a rigid bail integral with said housing and adapted to receive and be gripped by four fingers of the right or left hand of the user; a bolt in said housing; a spool in said housing pivoted on said bolt; said spool having plates defining a cord-holding groove; one of said plates having a peripheral flange turned away from said groove to define a cup-shaped cavity; a spiral spring housed in said cavity; the outer end of said spring being fastened to said plate; said housing having an inwardly projecting boss concentric with said cavity; the inner end of said spring being fastened to said boss; said housing having a substantially tangential outlet in the plane of said groove; a cord wound in said groove; the inner end of said cord being fastened to said spool; the outer end of said cord extending out through said outlet; a swiveled snap hook on the end of said cord; the diameter of said housing being not greater than the length of said bail, whereby the cord tension reaches the fingers of the user without tending to twist the housing in the user's hand; lock means adapted when in locking position to prevent movement of the spool in either direction; resilient means normally holding said lock means in inoperative position; a thumb piece mounted on said lock means and housed in said bail near the end adjacent said outlet; said thumb piece and bail having interlocking irregularities of contour adapted to hold said lock means in operative position when placed in engagement by the operator; said housing and bail being of plastic material and split centrally in a plane normal to the axis of said spool; said bolt having a flanged head abutting one half of said housing, and an end threaded into the other half, and holding said housing in assembled condition; and a cover plate of the same plastic material as said housing, overlying said bolt head and cemented to said housing; the tension of said spring in all positions being sufficient to keep the withdrawn portion of said cord from sagging and to retrieve said cord when the animal moves toward the user; but insufficient to restrain movement of the animal away from the user.

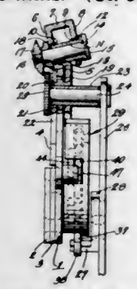
2,314,505
SPRING SUSPENSION FOR VEHICLES
William D. McIntyre, Monroe, John M. Nickelsen, Ann Arbor, and Charles E. Read, Monroe, Mich., assignors to Monroe Auto Equipment Company, Monroe, Mich., a corporation of Michigan
Application March 4, 1940, Serial No. 322,212
5 Claims. (Cl. 267—20)

1. In a vehicle having a frame member, a wishbone type link comprising links pivotally connected at their inner ends to the frame member for vertical swinging movement and converging from the latter ends, a wheel carrying element having one end connected to the outer ends of said links, means connecting the other end of the wheel carrying element to the frame member, a coil spring having one end seated on the wishbone type link intermediate the ends of said links and having the opposite end abutting the frame member, an arm having the opposite ends respectively



connected to said links intermediate the ends of the latter and having a portion extending across the lower end of the coil spring, a stud extending laterally from the intermediate portion of the arm, a tubular direct acting shock absorber extending through the coil spring and having a loop at one end receiving said stud, a resilient bushing mounted on the stud within the loop and secured under compression therebetween, and means pivotally connecting the opposite end of the shock absorber to said frame member.

2,314,506
ROTARY TYPE CAN OPENER
Robert E. McLean, Fort Benning, Ga.
Application October 16, 1942, Serial No. 462,302
20 Claims. (Cl. 30—9)

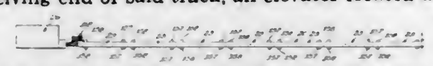


1. In a can opener having a body carrying a cutter, a rotatable wheel, a rotatable eccentric carrying the wheel for moving the wheel relative to the cutter and a crank for turning the wheel; a mechanism for releasably coupling the crank and eccentric comprising a finger carried by the crank, a body securely coupled with the eccentric to turn therewith on the axis of the crank and the wheel but independently of the crank and wheel, a pivoted trigger carried by the last mentioned body and arranged to be engaged by the finger upon turning of the crank, means for securing the trigger against movement during a period of rotary movement of the last body, and trip means for releasing the trigger for oscillation out of engagement with the finger after a predetermined rotary movement of the last body.

2,314,507
KILN
James H. Minter, Columbus, Ga.
Application September 2, 1941, Serial No. 409,304
14 Claims. (Cl. 25—142)

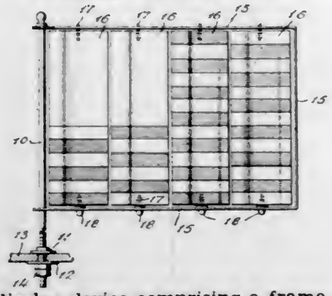
1. A kiln having a track for ware laden pallets,

a mover means acting on the ware laden pallets on the receiving end of said track advancing the pallets in end to end engagement on said track, a return conveyor for unloaded pallets, a power drive connected with said mover means and said return conveyor, a pallet actuated device for transferring unloaded pallets from the delivery end of said track onto the receiving end of said return conveyor, a ware support located at the receiving end of said track, an elevator located un-



derneath said ware support at the delivery end of said conveyor for receiving pallets from the conveyor one at a time and movable vertically with a pallet thereon for lifting the ware off said support, pusher means for transferring the ware laden pallet from the elevator onto the receiving end of said track, and operating connections between said power drive and said elevator and said pusher means for actuating the elevator and the pusher means in timed sequence.

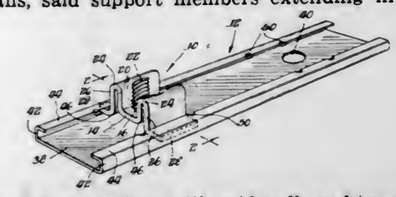
2,314,508
DISPLAY DEVICE
Ernest J. Monteleone, Jersey City, N. J.
Application August 14, 1941, Serial No. 406,871
3 Claims. (Cl. 116—175)



3. A display device comprising a frame, a plurality of propeller shaped vanes mounted for individual rotation in said frame and increasing progressively in width from one end of the frame to the other, each of said vanes having identical display matter on opposite sides varying with respect to the display matter on each adjacent vane and of such nature as to present a uniform design, the display matter presented on each vane being displaced vertically with respect to the corresponding display matter on each preceding and succeeding vane, whereby rotative movements of said vanes give an appearance of fluttering to the display matter.

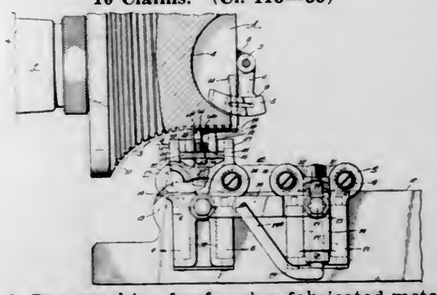
2,314,509
LOCK NUT
Carl G. Olson, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois
Application July 20, 1939, Serial No. 285,501
6 Claims. (Cl. 151—21)

1. A locking device formed from spring stock including a central section presenting substantially parallel side walls joined at one extremity by and extending laterally with respect to a connecting web, said web being provided with a central aperture for accommodating a screw member, thread follower means in said walls coaxially disposed with respect to said aperture, a continuation of the stock of each of said walls at the end oppositely disposed from said web bent back upon itself so as to provide a support member externally of and adjacent each of said walls, said support members extending in sub-



stantial parallelism with said walls and terminating at a point axially beyond said web, and flange means formed integral with and extending normally of each of said support members.

2,314,510
MACHINE FOR MANUFACTURING FABRICATED METALLIC STRUCTURES
Ralph K. Odor, Edmond, Okla., assignor to J. H. Everest, Errett Neuby, M. W. McKenzie, William H. Odor, Ralph K. Odor, and H. Barney Crawford, all of Oklahoma County, Okla., and Kern Dodge, Philadelphia, Pa., trustees
Application July 6, 1939, Serial No. 283,107
10 Claims. (Cl. 113—35)

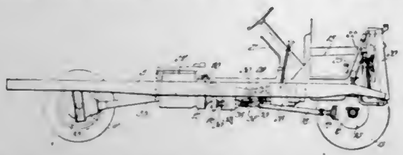


1. In a machine for forming fabricated metallic tubular structures, the combination with a form of longitudinally curving contour, of a carriage, a guide for sheet metal strip material of substantially S-shaped cross section supported on said carriage, said guide embracing and closely fitting said strip, means for relatively traversing said carriage and form so as to wind the strip material upon said form in contiguous convolutions, means on said carriage for continuously interengaging the reversely curved edges of the strip material in the adjoining convolutions, means on said carriage for collapsing the interengaged edges of said strip material upon the form to produce an interlocked joint uniting the convolutions, and means for automatically adjusting said guide in accordance with the changing contour of the surface of said form so as to effect a modification of said strip conforming the latter to said changing contour.

2,314,511
MOTOR VEHICLE
Donald D. Ormsby, Buchanan, Mich., assignor to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application August 14, 1940, Serial No. 352,497
12 Claims. (Cl. 180—54)

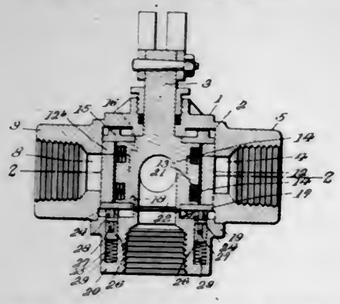
1. The combination, with a vehicle having a front and rear driving axle, and a main power unit assembly comprising a main engine adjacent one of said axles, a transmission connected there-

to, a transfer case driven from the tail shaft of said transmission, and driving means interconnecting said transfer case and each of said axles,



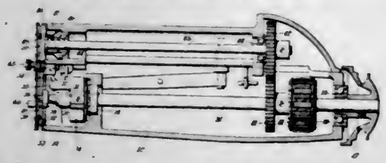
of a secondary power unit mounted rearwardly of and laterally offset from said main engine and having driving means connected to said transmission.

2,314,512
VALVE ASSEMBLY FOR FUEL SYSTEMS
Arthur L. Parker, Cleveland, Ohio
Application March 17, 1941, Serial No. 383,825
4 Claims. (Cl. 251—102)



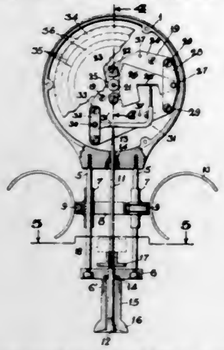
1. A valve assembly comprising a valve casing having a substantially cylindrical chamber with at least one port leading through the wall, a valve operating member in said chamber mounted for rotation about an axis coincident with the axis of the chamber, said valve operating member being dimensioned so as to be free from contact with the wall of the chamber, wear plates disposed at the upper and lower ends of the valve operating member and contacting with the valve casing, said valve operating member having a recess formed therein, a valve in said recess disposed so as to cover the port in the cylindrical wall and means for holding the valve in engagement with the cylindrical wall.

2,314,513
ROTARY TAKE-UP FOR SEWING MACHINES
Frank Parry, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application October 10, 1941, Serial No. 414,437
16 Claims. (Cl. 112—248)



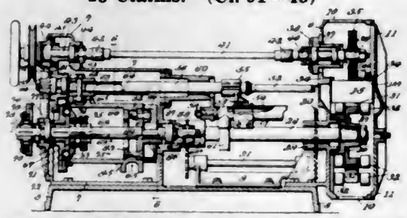
1. A needle thread take-up for sewing machines comprising a plurality of thread-engaging elements and means for rotating said elements in opposite directions each at a uniform angular velocity.

2,314,514
TONOMETER
Alfred H. Parsons, San Francisco, Calif.
Application June 11, 1941, Serial No. 397,639
10 Claims. (Cl. 73—51)



10. In a tonometer, a casing, rotatable indicating means mounted in the casing, a depending supporting structure secured to the casing having a transparent eyeball engaging member thereon, handle means slidably engaging with the depending supporting structure, a reciprocating member supported by the supporting structure, having its upper end extending into the casing and its lower end projecting through the transparent eyeball engaging member, the said lower end of the reciprocating member being visible through the transparent eyeball engaging member when in an overlying engaging position with respect to an eyeball being examined, and means operatively interposed between the indicating means and the reciprocating member for causing the rotation of the said indicating means in accordance with the reciprocation of the reciprocating member.

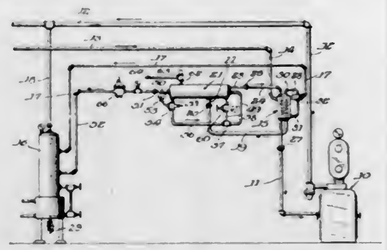
2,314,515
APPARATUS FOR INTERNALLY COATING CONTAINERS
Paul E. Pearson, Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application August 15, 1938, Serial No. 225,040
15 Claims. (Cl. 91—45)



3. In can body spraying apparatus, a turret for advancing can bodies, means for spraying the can bodies internally, and a suction tube reciprocable into and out of the can bodies to withdraw vapor suspended therein.

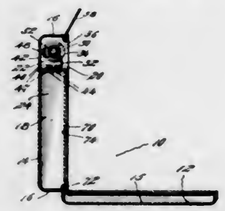
2,314,516
OIL SEPARATOR FOR REFRIGERATION SYSTEMS
Harry A. Phillips, Chicago, Ill.
Application August 14, 1941, Serial No. 406,787
7 Claims. (Cl. 62—115)

1. A refrigerating system including a liquid refrigerant supply line and a return line for the expanded gaseous refrigerant, a cylindrical member interposed in the liquid refrigerant supply line, said member having end walls to thereby form a container which is adapted to receive and deliver liquid refrigerant, means within the cylindrical member providing a trap for separating any oil from the said liquid refrigerant, a refrigerating coil located within the cylindrical member, the



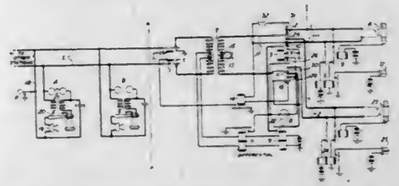
inlet end of said refrigerating coil having connection with the member so as to receive the oil separated by the trap and also any liquid refrigerant admixed therewith, the opposite end of the refrigerating coil having connection with the return line for the expanded gaseous refrigerant, and a back pressure valve interposed in the said connections joining the refrigerating coil with the return line, whereby a predetermined pressure can be maintained in the refrigerating coil.

2,314,517
ILLUMINATABLE VANITY CASE AND LIKE CONTAINER
John Giacomo Pucci, Westerly, R. I.
Application March 27, 1940, Serial No. 326,245
2 Claims. (Cl. 240—6.45)



1. In a vanity case, a cosmetic dispensing base, a cover pivotally mounted on said base having end and side walls, having a partition extending transversely between the side walls thereof at a closely spaced distance from the upper end thereof when in closed position forming an upper light holding compartment, and a lower battery holding compartment, a battery having contacts at the upper end thereof contained in said battery holding compartment, a split electric light base holding socket having the base thereof overlying said transverse partition and a split socket mounted on said base within said compartment with the split end uppermost, an electric light extending transversely of said compartment with the base thereof detachably secured within said split socket, a contact member extending through said partition to mount said socket base on said partition and contact a battery contact, a spring make and break switch operatively connecting said battery and light comprising a stationary contact arm insulatedly mounted on said socket, contacting the light base contact and terminating in a contact end extending transversely near the top of said light holding compartment, a spring contact arm having a base overlying said partition, a bent portion normally urged by the resiliency of said arm to have the top of said bent portion project beyond the top of said light holding compartment and a transversely extending end contacting said stationary contact arm to light the light, a cover for said light holding compartment pivotally mounted on said cover movable to a compartment closing position abutting said bent portion of the contact arm to break the contacts on said make and break switch to extinguish said light when said cover is closed, a contact member extending through said partition to mount the base of said spring contact arm on said transverse partition and contact the other battery contact and a mirror normally overlying the lower portion of said cover, whereby said cover may be relatively pivoted to a position to bring the light opposite the portion of the person to which the cosmetic is to be applied and said portion may be readily observable in the mirror.

2,314,518
TELEPHONE SYSTEM
George Sandalls, Jr., North Tarrytown, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 11, 1941, Serial No. 401,898
7 Claims. (Cl. 179—27)

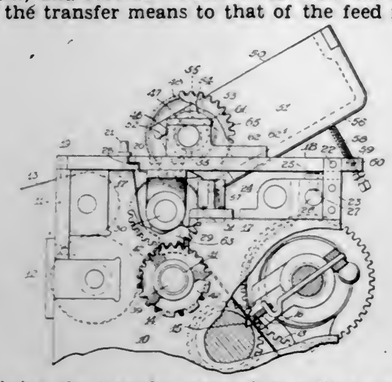


1. In a telephone system, an exchange, a subscriber's station, a line between said station and said exchange having a normal and also an emergency termination at said exchange, means associated with said line responsive to normal closure of the line at the station to cause said line to be extended to its normal termination, switching means at the station adapted when operated to connect ground to one side of the line, and means responsive to the joint operation of said switching means and closure of said line at the station to disconnect said line from its normal termination and transfer the line to its emergency termination.

2,314,519
ADHESIVE APPLYING ATTACHMENT
Rudolph H. Schultz and Adam J. Siebert, Brooklyn, N. Y., assignors to Schultz Engineering Corporation, Brooklyn, N. Y., a corporation of New York
Application August 3, 1940, Serial No. 351,026
15 Claims. (Cl. 91—14)

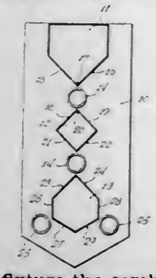
1. In a paste attachment for rewind machines of the character described, the combination of a roller feeding a continuously moving web of paper or other material being rewound at a predetermined speed, a paste fountain having a paste roller to feed paste out of the fountain at a predetermined speed, rotary paste transfer means operating between the paste roller and web, means to rotate the transfer means at the speed of the paste roller to pick up paste there-

from, and further means to increase the speed of the transfer means to that of the feed roller



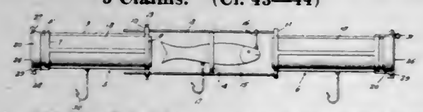
to bring the transfer means into rolling contact with the web to transfer the paste.

2,314,520
LIGHTING FIXTURE
William L. Schumaker, Milwaukee, Wis.
Application June 24, 1940, Serial No. 342,036
1 Claim. (Cl. 240—78)



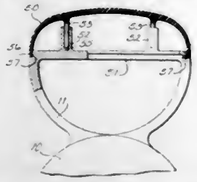
In a lighting fixture the combination of a plurality of spaced substantially parallel fluorescent tubes so disposed that their longitudinal axes lie substantially within a common plane, two pairs of light reflecting surfaces extending lengthwise of each of said tubes, each of said pairs of surfaces converging toward an adjacent tube and intersecting in a line disposed substantially within said plane, additional substantially parallel fluorescent tubes disposed at opposite sides of said plane, and a pair of light reflecting surfaces extending lengthwise of and adjacent each of said additional tubes, each of said last named pair of surfaces converging toward the adjacent one of said additional tubes.

2,314,521
ILLUMINATED ARTIFICIAL BAIT HOLDER
George Simpson Schwartz, Brownwood, Tex.
Application January 20, 1942, Serial No. 427,496
5 Claims. (Cl. 43—44)



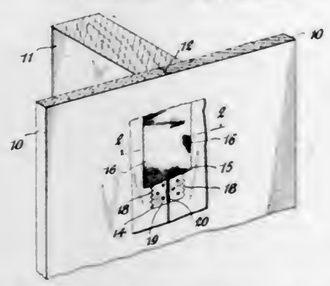
1. A fish bait holder comprising an open frame, adapted for containing the bait in position therein, flashlight holders at each end of the frame, each holder being adapted to support a flashlight casing, and means connecting one of the holders to the frame for adjustment of said one holder relative to the other holder.

2,314,522
HANDLE STRUCTURE
Frederick E. Sette, Scott Bar, Calif.
Original application April 12, 1939, Serial No. 267,373. Divided and this application May 24, 1941, Serial No. 395,031
2 Claims. (Cl. 16—116)



1. A handle comprising the combination with a D-frame having a transverse bar and a pair of lugs corresponding in width to the bar and upstanding in spaced relation to each other intermediate the ends of the bar, each of said lugs being socketed, of a cap element comprising a hollow inverted channel marginally engaged with the sides of the bar and engaged with said D-frame adjacent the end of the bar, said channel being centrally provided with downwardly depending pins respectively engaged in the sockets of said lugs, the inner surface of the cap element laterally engaging said lugs.

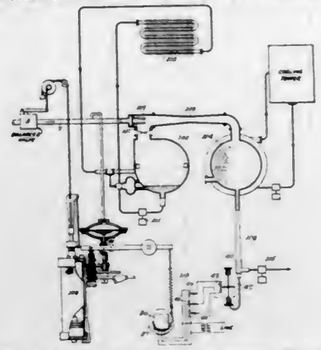
2,314,523
WALLBOARD JOINT STRUCTURE
Alexander S. Speer, Buffalo, N. Y.
Application July 10, 1941, Serial No. 401,751
6 Claims. (Cl. 72—16)



3. In a wallboard construction, the combination with the wallboards arranged in abutting relation to form a joint, of a jointing element extending along said joint and composed of overlying strips of paper and cloth, the paper strip lying next to the joint and the cloth strip extending over and beyond the marginal edges of the paper strip.

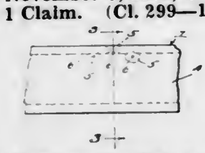
2,314,524
COOLING SYSTEM
Paulsen Spence, East Orange, N. J., assignor to Spence Engineering Company, Inc., Walden, N. Y., a corporation of New York
Application June 28, 1940, Serial No. 342,876
10 Claims. (Cl. 62—2)

1. In a device of the character indicated, a chamber to be evacuated, a steam ejector for evacuating said chamber, a condenser for condensing steam and vapors from said steam jet ejector, a valve for controlling the admission of steam to said steam jet ejector, and means actuated in proportion to the vacuum in said chamber for controlling said valve, said means including means for moving said valve to vary the quantity of steam admitted thereby by increments sub-



stantially along a square root curve for equal increments of vacuum change.

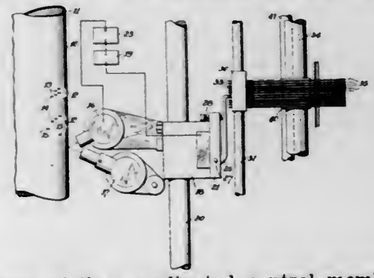
2,314,525
GARDEN HOSE SPRINKLER
Berl Edwin Summers, Denver, Colo., assignor of one-half to Darwin Da Volt, Denver, Colo.
Application November 8, 1940, Serial No. 364,933
1 Claim. (Cl. 299—104)



A garden hose comprising a straight flexible body, adapted to be dragged endwise on the ground, to and from a place of use, and transverse nozzles in the body, the nozzles being located close together and occupying an area extended approximately half way around the hose and throughout the major portion of the length of the hose, the nozzles having longitudinal bores; the nozzles having inner and outer end flanges, the outer flanges being of larger diameter than the inner flanges and of such diameter as to afford practical wear-resisting surfaces when the hose is dragged endwise, the outer end surfaces of the outer flanges being convexed to conform to the transverse, external surface of the hose, and being flush with that surface, the inner end surfaces of the inner flanges being concaved to conform to the cross sectional surface of the passage of the hose, and being flush with that surface; the outlet ends of the bores being of small diameter compared with the diameter of the outer surfaces of the outer flanges, thereby to reduce those surfaces to a minimum extent, and a cap on one end of the hose and constituting a handle by which the hose may be prevented from rotating and carrying the wear-resisting surfaces of the outer flanges out of contact with the ground.

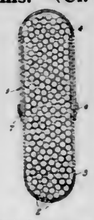
2,314,526
LACE CURTAIN MACHINE
William Stephen Tandler and William Teller, New York, and David S. Walker, Bronx, N. Y., assignors to Lefier Corporation, New York, N. Y.
Application November 27, 1941, Serial No. 420,700
12 Claims. (Cl. 87—15)

1. In a lace curtain machine a plurality of resilient thread operating members; apparatus for displacing said thread operating members into a plurality of operative positions including control members operatively connected with said thread operating members, means for synchronously moving said thread operating members, independent means for moving said control members in an opposite direction, means operable during the movement of said control members in one direction for disconnecting them from their moving means, and means for establishing a mutually coercitive relationship between said thread operating members and said control members; groups of selector elements reciprocatively movable for establishing selected control



positions of the coordinated control members; mechanism for selectively displacing said selector elements including a pattern, at least one pattern scanning photoelectric cell, one reciprocatively movable electromagnet for each group of selector elements for transmitting the electrical impulses produced by said photoelectric cell to said selector elements, means for returning said selector elements into their inoperative position; and a device for temporarily locking said control members in their control positions upon the release thereof from said selector elements.

2,314,527
METHOD OF MAKING SEALED CAPSULES
Harden F. Taylor, New York, N. Y., assignor to The Atlantic Coast Fisheries Company, New York, N. Y., a corporation of Maine
Application July 6, 1940, Serial No. 344,215
3 Claims. (Cl. 226—41)

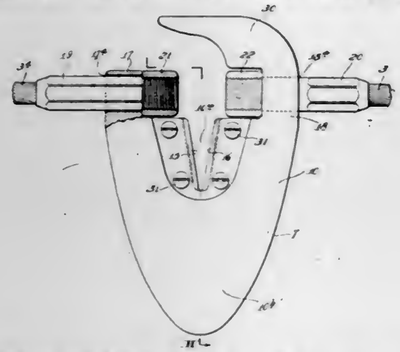


1. A method which comprises exhausting the air from the interior of a two-piece gelatin capsule formed of telescopically engaging bottom and cap members and filled with particles of a solid medicament while the ends of said capsule are restrained to prevent the cap from being blown off, introducing an inert gas into the interior of said capsule to fill the spaces including the interstitial spaces thereof, and sealing said cap and bottom members together.

2,314,528
UNDERWATER CABLE CUTTER
Robert Temple, Swissvale, Pa., assignor, by mesne assignments, to Temple Velocity Equipment, Inc., a corporation of Delaware
Application October 30, 1940, Serial No. 363,409
7 Claims. (Cl. 114—0.5)

1. An underwater cable cutter comprising an

elongated flat plate having a slot extending inwardly from one end, means formed on the plate at the outer opposite sides of the slot to engage a sweep line, cutter means mounted on the side edges of the slot rearwardly of said line-engaging means and having cutting surfaces converging in-



wardly of the slot arranged to cut a cable vertically suspended in the water, said plate having sufficient area of flat surfaces to position and stabilize itself when drawn through water and to thus maintain the cutter means in operative position.

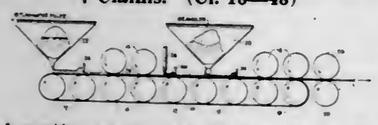
2,314,529

PROCESS OF MAKING ROOFING PRODUCTS

Robert R. Thurston, Chappaqua, N. Y., assignor, by mesne assignments, to The Texas Company, New York, N. Y., a corporation of Delaware

Application March 1, 1941, Serial No. 381,274

7 Claims. (Cl. 18—48)



1. A continuous process of manufacturing relatively rigid roofing units which comprises supplying dry bituminated filler consisting of pulverulent material coated with a thin film of bitumen to the surface of an endless conveyor, passing the conveyor between heated compression rolls to activate the bitumen content of the filler and form a mastic sheet, passing said sheet in contact with cooling rolls to harden the mastic and finally cutting said hardened mastic sheet to form the desired roofing units.

2,314,530

ANTIWELDING LUBRICANT PREPARATION

William P. Tighe, Cleveland Heights, Ohio, assignor to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application May 18, 1940, Serial No. 336,016

5 Claims. (Cl. 252—45)

1. A process of making anti-welding lubricants, which comprises selectively providing in a mineral oil non-adsorbable sulphur compounds by subjecting the mineral oil to the action of sulphur and heat and air until several per cent of sulphur are taken up, then acidifying, and eliminating adsorbable compounds by subjecting to the action of a finely divided adsorbent material and temperature somewhat in excess of the boiling point of water.

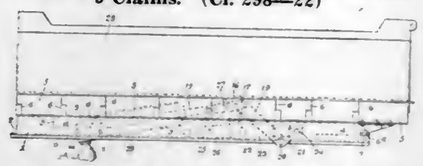
2,314,531

TIPPING MECHANISM

Lester W. Wachter, Streator, Ill., assignor to Anthony Company, Streator, Ill., a corporation of Illinois

Application April 9, 1942, Serial No. 438,227

9 Claims. (Cl. 298—22)



1. In combination in a tipping mechanism, a base and a receptacle mounted thereon for tipping movement with respect thereto, a mechanism including a relatively short link and a relatively long link, the two being separately pivoted on said base, and a link joining said first mentioned links pivoted to one of them intermediate its ends, and a fourth link pivoted to the free end of said relatively long link, and pivoted to said receptacle, and a power means supported in said assembly and pivoted to said shorter link, adapted to rotate the same about its pivot point, the remaining links being carried with said first mentioned link when rotated by said power means and causing the body to tip.

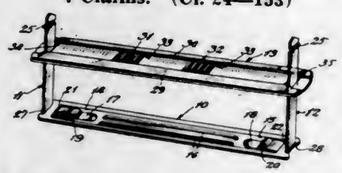
2,314,532

PAPER FASTENER

Chester I. Wagner, Brooklyn, N. Y.

Application July 26, 1940, Serial No. 347,576

7 Claims. (Cl. 24—153)



1. A paper fastener comprising a base having inwardly extending ears one at each end, and having an aperture adjacent the fixed outer end of each ear, a flat metal prong for each end of said base, each of said prongs being insertable through one of said base apertures and having an aperture extending through the body of the metal adjacent one end thereof for detachably receiving one of said ears to secure said prong relatively to said base, the free ends of said prongs being adapted to be inserted through apertures in the paper to be fastened.

2,314,533

LAPPING PROCESS

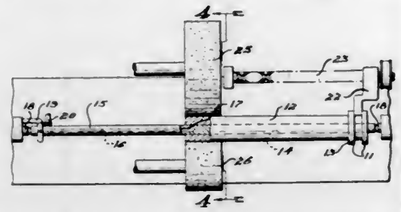
David A. Wallace, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware

Application July 17, 1941, Serial No. 402,734

6 Claims. (Cl. 51—290)

1. The process of forming a tubular shaft having its bore coaxial with its outer surface comprising the steps of forming a tubular blank having its greater diameter slightly larger than desired and its bore finished to close tolerances, supporting the blank on a cylindrical mandrel having a diameter slightly smaller than the diameter of said bore, revolving the blank relative to said mandrel, finishing the outer surface of the blank to size by applying a finishing tool

against said outer surface mainly from one direction substantially radially of said blank during revolving of the latter and forcing fluid under pressure into the space between the surfaces of said bore and said mandrel during said rotation



and finishing whereby to provide a substantially cylindrical cushion of fluid under pressure floatingly supporting the blank with said bore substantially coaxially located with respect to said mandrel.

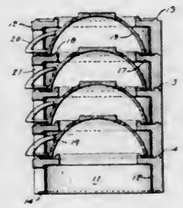
2,314,534

POTTERY SETTER

Fred V. Wind, Los Angeles, Calif., assignor to Pacific Clay Products Company, Los Angeles, Calif., a corporation of California

Application April 7, 1941, Serial No. 387,273

5 Claims. (Cl. 25—153)



1. In a vertically aligned assembly of a plurality of superposed ceramic ware support elements and a plurality of unfired bowl-like ceramic articles, a ceramic ware support element comprising an outer portion defining a space to contain said article, said outer portion having means on its top and bottom edges to engage and align it with similar elements above and below it in the assembly, and said outer portion also having an integral ledge extending inwardly from its inner wall adapted to support the inverted article on its lip, said ledge being provided with an integral raised ring edge on its top surface adapted to project into the mouth of the ceramic article and to closely fit said mouth at the maturing temperature whereby to hold its lip to prevent unsymmetrical shrinkage thereof during firing.

2,314,535

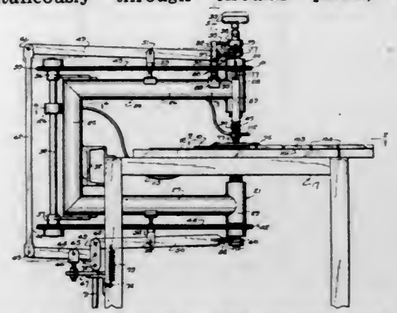
CUTTING MACHINE

Edward M. Worden, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio

Application August 16, 1941, Serial No. 407,227

16 Claims. (Cl. 33—27)

1. In a machine for cutting discs from sheets or plates of glass and the like, means for supporting the sheet to be cut in a horizontal position, cutting units mounted above and beneath said supporting means including cutting tools adapted to engage opposite surfaces of the sheet and disposed in vertical alignment with one another, means for rotating said cutting tools simultaneously through circular paths, and



means for preventing the said cutting tools from being rotated more than 360 degrees.

2,314,536

TYPOGRAPHICAL COMPOSING MACHINE

Frederick D. George, Sacramento, Calif., assignor to Intertype Corporation, Brooklyn, N. Y., a corporation of New York

Application September 23, 1941, Serial No. 411,950

14 Claims. (Cl. 199—22)



1. A spaceband buffer finger comprising an elongated member having a pivotal axis located between its ends, a straight spaceband supporting edge extending away from the pivotal axis toward one end of the member, and a crotch located between said pivotal axis and the other end of said member, said crotch being formed by surfaces which diverge outwardly from the vertex of the crotch and lie in the same plane with said straight edge, one of said surfaces being inclined in a direction toward the straight edge end of the member and the other of said surfaces being inclined toward the other end of said member.

2,314,537

5 - ETHYL - 5 - PHENYL BARBITURIC COMPOUNDS AND THE METHODS OF PREPARING THESE COMPOUNDS

Henry R. Henze, Austin, Tex., assignor to Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana

No Drawing. Application March 21, 1941, Serial No. 384,592

1 Claim. (Cl. 260—257)

A method of preparing barbiturate compounds, said method comprising reacting silver 5-ethyl-5-phenyl barbiturate with propionyl chloride and separating the 1-propionyl-5-ethyl-5-phenyl barbituric acid from the 1,3-dipropionyl-5-ethyl-5-phenyl barbiturate.

2,314,538

FLUID CONTROL APPLICATOR

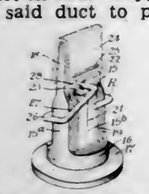
Ernest L. Hollenbeck, Los Angeles, Calif.

Application August 5, 1941, Serial No. 405,503

5 Claims. (Cl. 15—138)

1. In a fluid control applicator, a body of re-

silient material, a tongue of resilient and flexible material, a duct in said body, ports in said body leading from said duct to points exteriorly of



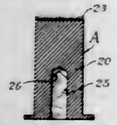
said body and urged to closed position, a valve for adjustably opening said ports, and means frictionally engaging said body for retaining said valve in any position of adjustment.

2,314,539

FLUID CONTROL APPLICATOR

Ernest L. Hollenbeck, Los Angeles, Calif.

Application August 5, 1941, Serial No. 405,504
2 Claims. (Cl. 15—139)



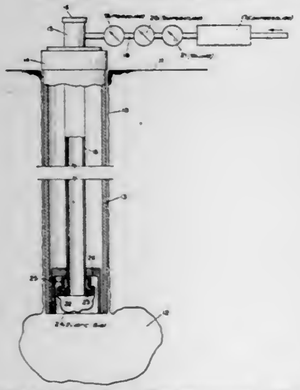
1. In combination, a bottle cap having a flat top formed with an opening, and a fluid control applicator having a flat body closing said opening, a flexible spreader tongue on said body of compressible material, said tongue extending through said opening of greater width than the latter so as to be compressed by said cap, a duct in said body and spreader, and normally closed ports in opposite sides of said tongue and leading from said duct to said sides, whereby when said tongue is flexed in one direction or the other one port or the other will open.

2,314,540

APPARATUS FOR MEASURING VOLUME OF BOTTOM HOLE PORTION OF WELL BORES

Richard L. Huntington, Norman, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application December 30, 1941, Serial No. 425,009
2 Claims. (Cl. 73—51)



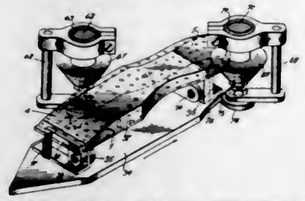
1. In apparatus for determining the volume of an underground cavity that communicates with the surface of the ground through a bore hole, the combination comprising a conduit positioned in the bore hole and extending to the cavity, the lowermost end of said conduit including a downwardly flanged protective member, a flexible inflatable member disposed in fluid tight relation with the lower portion of the conduit and communicating therewith, said inflatable member being retractable beneath the protective member when deflated and means for transmitting a measured quantity of fluid under pressure through the conduit and into the member to inflate the same until it substantially conforms with the configuration of the surface of the cavity.

2,314,541

MACHINE FOR MAKING LIFT BLANKS

Daniel F. Hyland, Hugo L. Brenner, John Brenner, and Elmer M. Knudsen, St. Louis, Mo., assignors to Arch-O-Graph Company, St. Louis, Mo., a corporation of Missouri

Application August 30, 1941, Serial No. 408,930
16 Claims. (Cl. 12—60)



1. Apparatus for making lift-blanks of the character described, comprising, a base, a carriage mounted for travel along said base and having means to support a blank, a shaping-tool movably mounted adjacent the path of travel of said carriage for engagement with the blank thereon, and means controlled by the traveling movement of said carriage operating to vary the position of said tool with respect to the blank, so as to form the blank to a predetermined shape.

2,314,542

APPARATUS FOR SEPARATING MATERIALS

Fred T. Kern, Milwaukee, Wis.

Application March 15, 1941, Serial No. 383,503
14 Claims. (Cl. 209—428)



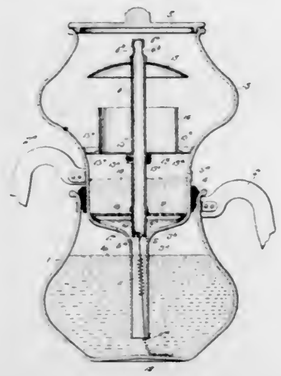
1. An apparatus of the character described for separating materials and comprising an endless belt conveyor, means supporting the conveyor with its upper run disposed at an inclination to the horizontal, means for driving the conveyor at slow speed, trough-forming walls overlying the upper run of the conveyor disposed in spaced parallel relation and extending for substantially the full length of the upper run of the conveyor, the lower edges of said walls being spaced from the underlying surfaces of the upper run of the conveyor to define lateral drainage slots extending for substantially the full length of the conveyor, means for supplying the materials to be separated to the end of the trough located at the low end of the conveyor, means for spraying materials in the trough with water as they are advanced through the trough, means for carrying off the solid separated material from the end of the trough located at the high end of the conveyor.

2,314,543

COFFEE MAKER

Joseph L. Kopf, Maplewood, N. J., assignor to Jabez Burns & Sons, Inc., New York, N. Y., a corporation of New York

Application March 28, 1942, Serial No. 436,650
3 Claims. (Cl. 53—3)



1. A coffee maker comprising a lower heating vessel and an upper infusion vessel removable therefrom and having a sealed joint between them, said infusion vessel having a tube extending within the heating vessel, a removable tube centrally positioned in the infusion vessel and extending downwardly towards the first named tube, a filter plate near the lower end of said removable tube and extending across the lower portion of the infusion vessel, there being a limited annular opening from the space below said filter plate between the lower end of said second tube and the upper portion of said first named tube, a perforated plate positioned above the filter plate and extending across the infusion vessel for forming a space between the two plates for receiving a mass of coffee, and an upwardly extending element fixed to said perforated plate for forming a space for receiving water for making the coffee beverage, said element engaging a limited portion of said perforated plate for causing water to first pass into a limited portion of the coffee mass through a portion of the perforations of said perforated plate for expelling gases from the coffee mass, said element permitting an overflow of water at the upper portion thereof and over the remaining portion of said perforated plate for causing the water to pass downwardly through the entire coffee mass.

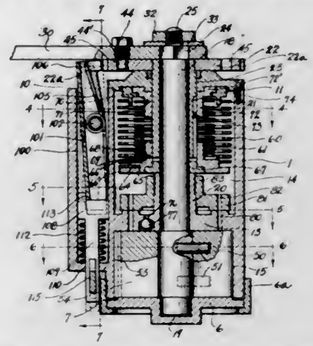
2,314,544

DOOR CHECK AND HOLDING DEVICE

Andrew Larson, Tacoma, Wash.

Application June 2, 1941, Serial No. 396,260
13 Claims. (Cl. 16—49)

1. In a door check and closing device; a housing adapted for fixed mounting on a hinged door, a disk rotatably mounted thereby and having an operative connection with the door casing whereby the disk is caused to move rotatably in accordance with the opening and closing movements of the door, a latch lever pivotally mounted in said housing and adapted to holdingly contact with the disk to retain the door at a set position, yieldable means acting against the lever to urge it into holding contact with the disk, a movable latch plate normally positioned to retain the latch lever disengaged from the disk and means for manually actuating the plate to disengage



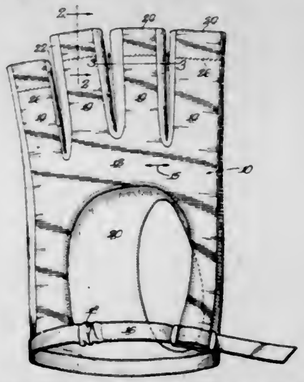
the latch lever to permit its engagement with the disk.

2,314,545

GLOVE

Edward C. Lindfelt, Des Moines, Iowa

Application April 28, 1941, Serial No. 390,803
5 Claims. (Cl. 2—159)



1. A glove having a relatively inelastic palm portion, short fingers with open ends, an elastic back portion extending across the knuckles and down the backs of the fingers, and elastic clasping means at the wrist, said palm portion having an enlarged opening for the thumb and said back portion at the outer ends of the fingers being turned back inside in a wide hem, giving a double thickness of elastic material adjacent the ends, causing the ends to fit snugly around the wearer's fingers.

2,314,546

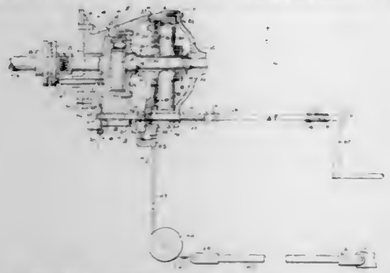
AIRPLANE STARTER COMBINATION

June D. Maule, Michigan Center, Mich., assignor to The Aviation Corporation, Williamsport, Pa., a corporation of Delaware

Application November 28, 1940, Serial No. 367,563
11 Claims. (Cl. 185—41)

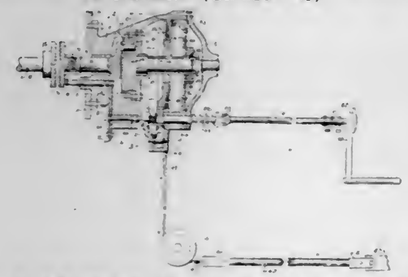
1. A starter for an engine having a driven shaft, comprising a drive shaft, clutch means connecting the drive and driven shaft, energy storing means operatively associated with the drive shaft, gear means carried by said drive shaft, a manually actuated gear means releasably connected with the first gear means to im-

part rotation thereto to store up energy in said energy means and for the disengagement of the



said second gear means from the first gear means and the engagement of said clutch means.

2,314,547
STARTER FOR INTERNAL COMBUSTION ENGINES
Belford D. Maule and June D. Maule, Michigan Center, Mich., assignors to The Aviation Corporation, Williamsport, Pa., a corporation of Delaware
Application November 28, 1940, Serial No. 367,564
13 Claims. (Cl. 185—40)

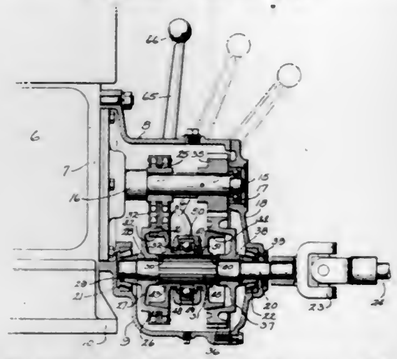


1. A starter for an engine having a driven shaft, comprising a drive shaft, clutch means connecting the drive and driven shaft, a drum carried by and rotatable with the drive shaft, said drum having an axially extending screw-threaded sleeve portion, an axially movable plate threadedly engaging the shank portion of the drum, drive means releasably connected to the drum to impart rotation thereto and to move the plate axially away from the drum, an elastic cord having parts adapted to be wound around the drum to tension the cord upon actuation of the drive means, and means cooperative with the drive means to engage the said clutch means upon disengagement of the drive means from the drum, the said plate moving axially toward the drum upon reverse rotation of the same in a manner to frictionally engage therewith when the cord is entirely unwound from the drum.

2,314,548
FILTER PAPER AND THE METHOD OF ITS MANUFACTURE AND USE
Leslie A. McClintock, Worcester, Mass., assignor to Raymond H. Goodale, Worcester, Mass.
No Drawing. Application June 16, 1941, Serial No. 398,234
9 Claims. (Cl. 23—253)

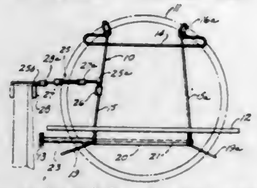
1. A dried filter paper for the determination of albumin in urine prepared to prevent deterioration when dried and stored, part of the paper being impregnated with ammonium sulphosalicylate and another part of the paper being impregnated with tartaric acid, said parts being separated by an unimpregnated zone but so close to each other that neither part can be completely wetted without wetting the other part.

2,314,549
COMBINATION REDUCING AND REVERSING DRIVE UNIT
Arthur F. Milbrath, Milwaukee, Wis., assignor to Wisconsin Motor Corporation, Milwaukee, Wis., a corporation of Wisconsin
Application January 6, 1940, Serial No. 312,652
2 Claims. (Cl. 74—376)



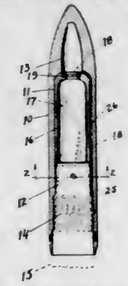
1. In a marine drive, the combination with an engine having a crank case and a crank shaft, of an auxiliary case connected with the engine crank case and for which the engine crank case constitutes a closure, a bearing in the auxiliary case aligned with the crank shaft, a shaft supported in part in said bearing and in part by said crank shaft, a driven shaft supported in said auxiliary case, said case having bearings for said driven shaft adjacent said crank case and remote therefrom, driving and driven sprockets mounted on the respective shafts, one sprocket being fast to one of said shafts and the other sprocket being rotatable respecting the other, a chain connecting said sprockets, driving and driven gears mounted on said shafts, one of said gears being fast to the shaft to which the first mentioned sprocket is fast and the other of said gears being rotatable with respect to the other shaft, and means for selectively clutching said other shaft to the sprocket and the gear rotatable with respect thereto.

2,314,550
AUTOMOBILE SERVICE TRAY
Peter M. Olman, Los Angeles, Calif., assignor of one-half to Julian L. Lesser
Application February 27, 1939, Serial No. 258,749
7 Claims. (Cl. 311—21)



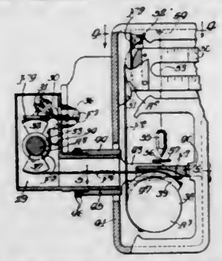
4. In an automobile service tray assembly, the combination comprising a horizontally disposed tray, a pair of upwardly extending spaced-apart arms connected at their lower ends with and supporting said tray and having their upper ends provided with means to hook over a steering wheel of an automobile above its center, one arm lying to one side of said center and the other lying to the other side of said center, said tray assembly having means to rest on the wheel below its center, said last named means and hook means arranged to prevent relative rotation of said wheel and tray, and means operatively connected with one of said arms and engaging a fixed part of the automobile for holding the tray and wheel as a unit against turning accidentally about the axis of the steering wheel.

2,314,551
FOUNTAIN PEN
Wilbur K. Olson, Fort Madison, Iowa, assignor to W. A. Sheaffer Pen Company, Fort Madison, Iowa, a corporation of Delaware
Application June 16, 1941, Serial No. 398,185
7 Claims. (Cl. 120—42)



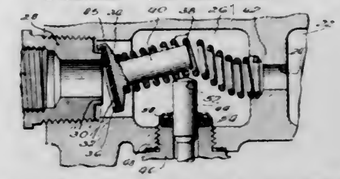
1. A closure for a fountain pen comprising an outer and an inner cap, said outer cap having an open end with connecting means adjacent thereto for detachably engaging connecting means on the end of said fountain pen, said inner cap having an open end providing a chamber for receiving and for hermetically sealing the writing point and writing fluid feeding means of said fountain pen, and a normally closed bleeder valve in said inner cap automatically functioning to permit communication with the atmosphere for equalizing pressure variations within said chamber and within the reservoir of said fountain pen.

2,314,552
SCALE STRUCTURE FOR VEHICLES
Donald J. Orr, Arnolds Park, Iowa
Application September 29, 1941, Serial No. 412,826
18 Claims. (Cl. 265—40)



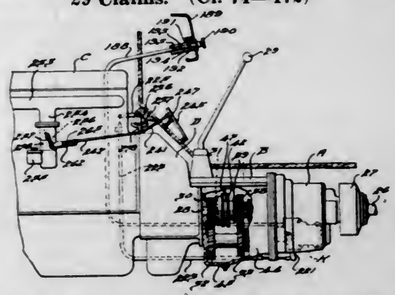
3. A scale structure for vehicles comprising a plurality of supporting posts rigidly mounted on the chassis of the vehicle, a load supporting frame, connections between said frame and posts comprising at each post a rocker on the post mounted to rock on a horizontal axis, a flexible element depending from said rocker, an arcuate element supported by said flexible element, a second flexible element depending from said arcuate element, a second rocker supported by said second flexible element, said second rocker being adapted to rock on a horizontal axis at right angles to the axis of said first rocker, and a scale beam operatively connected with said arcuate element.

2,314,553
CONTROL VALVE
George H. Palm, Chicago, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application April 26, 1941, Serial No. 390,453
1 Claim. (Cl. 251—125)



In a control valve of the class described, the combination of a body provided with a valve chamber, a rockable valve in said chamber for controlling flow therethrough, a tubular plug extending into said chamber, said plug having an external polygonal portion outside the body and a polygonal valve seat portion inside the body, said polygonal portions having their sides parallel, said valve seat portion having a flat valve engaging surface at substantially right angles to the axis of the plug, the edge defined by one side of the inner polygonal portion and the flat valve engaging surface constituting a fulcrum about which the valve is arranged to pivot, a plunger for rocking the valve about its fulcrum, said plunger being disposed at substantially right angles to the fulcrum, the sides of the external polygonal portion indicating the position of the corresponding parallel sides of the internal polygonal portion so as to insure proper positioning of the valve fulcrum, with respect to the plunger, and means for holding said valve in engagement with said seat.

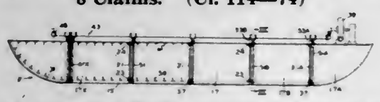
2,314,554
POWER TRANSMISSION AND CONTROL MEANS THEREFOR
Gordon R. Pennington, Birmingham, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application September 17, 1938, Serial No. 230,417
29 Claims. (Cl. 74—472)



1. In a power transmission control mechanism of the character described having a pressure fluid operated device comprising relatively rotatable frictionally engageable elements for controlling drive transmission between driving and driven

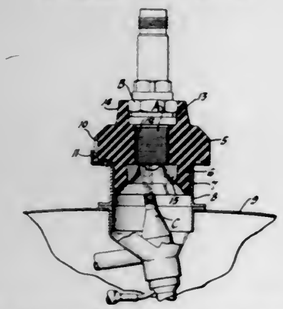
shafts of a motor vehicle, a source of fluid supply, a pump for delivering the fluid under pressure from said supply, means for driving said pump at a speed proportionate to one of said shafts for delivering the fluid under pressure varying with the speed of this shaft, a valve adapted for movement from a first position of venting said device thereby to accommodate relative disengagement of said elements, to a second position for establishing communication between the pressure fluid delivered by the pump and said device for causing relative engagement of said elements, a spring yieldingly urging said valve to its said first position, means under control of said valve for venting said device to accommodate relative disengagement of said elements when said valve is in its said first position, means for conducting the pressure fluid from said pump to said valve for causing movement of said valve to its said second position in opposition to said spring when the conducted fluid reaches a predetermined pressure, means under control of said valve for conducting the pressure fluid delivered by said pump to said device when said valve is moved to its said second position, and means for restrictively venting the last said fluid conducting means so arranged as to cushion said relative engagement of said elements when said valve is moved to its said second position.

2,314,555
TANKER
John Preuss, Memphis, Tenn.
Application July 13, 1942, Serial No. 450,678
8 Claims. (Cl. 114—74)



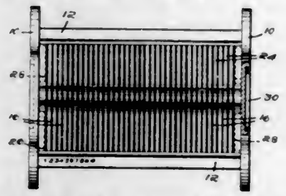
1. In a vessel, which includes a plurality of tanks having substantially flat bottoms and adapted to carry liquid, a keel comprising a substantially channel-shaped member depended below and extending along said tank bottoms, said keel being divided into a plurality of sections, each corresponding to a said tank and being communicated with the interior of said tank to serve as a sump for the liquid carried thereby.

2,314,556
PLUG SUPPORTING MEMBER FOR SPARK PLUG CLEANERS
Hector Rabezzana, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application May 11, 1942, Serial No. 442,466
3 Claims. (Cl. 51—8)



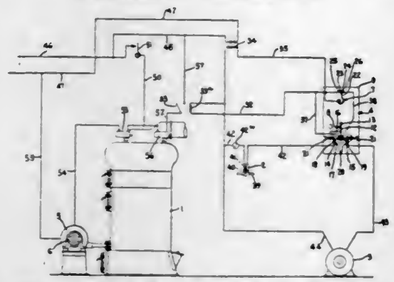
1. In a device of the class described, an angularly adjustable spark plug supporting member having an axial passage adapted to receive the threaded lower end of a spark plug to be cleaned; an annular member made of a material harder than said supporting member, located adjacent the lower end of said passage, and which annular member extends inward beyond the periphery of said passage so as to be engaged by the lower end of a spark plug within said passage; and means for discharging a stream of air and abrasive material against the lower end of a spark plug supported within said passage, and located above said annular member.

2,314,557
PHONOGRAPH RECORD HOLDER
Morris W. Rosenfeld, Brookline, Mass., assignor to American Sales Company, Boston, Mass., a partnership composed of Morris W. Rosenfeld and Leroy L. Rosenfeld
Application August 19, 1942, Serial No. 455,338
2 Claims. (Cl. 211—40)



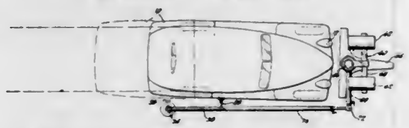
2. A record holder comprising two relatively spaced end supports, two relatively spaced struts extending between and connected at their ends to the end supports, each strut having a groove therein and extending longitudinally thereof, and a board between the end supports supported along two opposite edges in the grooves and extending upwardly in inverted U-shape therefrom, the said upwardly extending portion of the board having a plurality of slots extending transversely therethrough to the struts but short of the said opposite edges of the board, the holder being adapted to receive and support records in the slots.

2,314,558
APPARATUS FOR AND METHOD OF AIR CONDITIONING
Philip Sherman Russel, Detroit, Mich., assignor to Detroit Lubricator Company, Detroit, Mich., a corporation of Michigan
Application May 14, 1935, Serial No. 21,353
25 Claims. (Cl. 236—44)



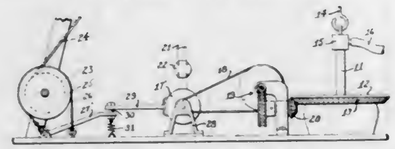
1. The method of controlling the moisture content of the air in a room or other enclosed space which comprises raising the moisture content of the air in the room substantially to the dew point of the outdoor atmosphere for all outdoor temperatures below a predetermined degree of temperature, and discontinuing the supply of moisture to the air for outdoor temperatures above said predetermined degree whereby to maintain the room air at the highest possible relative humidity during outdoor temperatures below said predetermined degree without substantial precipitation of moisture from the room air upon a window pane or other heat transmitting room wall surface.

2,314,559
HEADLIGHT TESTER
Robert Schilling, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application January 10, 1941, Serial No. 373,917
2 Claims. (Cl. 33—180)



1. The combination of a portable stand having a vertical pivot thereon adapted to be positioned in coincidence or vertical alignment with a selected point on the vehicle, a rigid rectilinear arm secured to said stand by means of said pivot so that it may be swung into engagement with said point when the vehicle is advanced, a headlamp tester comprising a stand, a vertical pivot thereon, a test head pivoted on said pivot and an arm rigidly secured to said test head and secured at right angles to said first-named arm, each of said arms being adjustable in length.

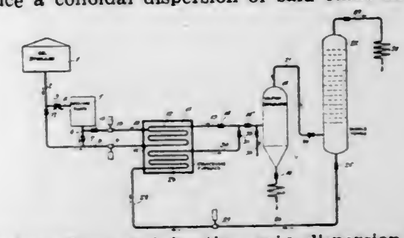
2,314,560
TORQUE CONTROL IN ROTARY WELL DRILLING
Charles C. Scharpenberg, Bakersfield, Calif., assignor to Consoco Incorporated, Los Angeles, Calif., a corporation of California
Application May 5, 1941, Serial No. 391,876
4 Claims. (Cl. 255—19)



1. Rotary well drilling apparatus comprising a drill bit, a motor suspended in the well for rotating said bit, a drilling string extending downwardly from the surface by which said motor is suspended, means for lowering said drilling string to feed the bit into the earth formation, a motor for rotating said drilling string at a constant speed, and means for indicating the torque developed by the last mentioned motor.

2,314,561
CRACKING PROCESS
Felix J. Skowronski, Colonia, N. J., assignor of one-half to The Winkler-Koch Patent Company, Wichita, Kans., a corporation of Kansas
Application April 5, 1940, Serial No. 328,118
1 Claim. (Cl. 196—52)

The process of cracking hydrocarbons which comprises producing an electrical arc between the two aluminum oxide containing electrodes immersed in a body of a liquid hydrocarbon to produce a colloidal dispersion of said oxide in said



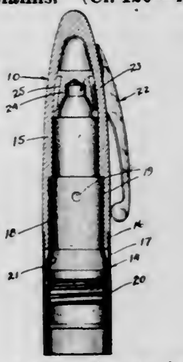
hydrocarbon, and heating said dispersion to a cracking temperature.

2,314,562
POUR-OUT CLOSURE
Walter A. Sheaffer, Fort Madison, Iowa, assignor to W. A. Sheaffer Pen Company, Fort Madison, Iowa, a corporation of Delaware
Application February 5, 1941, Serial No. 377,408
10 Claims. (Cl. 221—12)



1. A pour-out closure for bottles comprising a main body portion having a central opening with connecting means about said opening for detachable engagement with the neck of a bottle, said main body portion having an oblique spout and an open-ended passage extending axially of said spout in communication with said central opening forming pouring and vent openings, and means operable in said passage and extending in the axial direction thereof to close or to open said pouring and vent openings simultaneously, said operating means being removable from said passage for pouring.

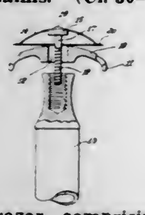
2,314,563
FOUNTAIN PEN
Herman Karl Stempel and Robert E. Freeman, Fort Madison, Iowa, assignors to W. A. Sheaffer Pen Company, Fort Madison, Iowa, a corporation of Delaware
Application February 18, 1942, Serial No. 431,412
8 Claims. (Cl. 120—42)



1. A cap for a fountain pen having a writing

point and fluid feeding means extending from one end of a barrel thereof, said cap enclosing and sealing said writing point and fluid feeding means and comprising telescoping inner and outer metal sleeves, and a non-metallic shell having an open and a closed end, said open end of said shell being secured to said sleeves at one end of each thereof.

2,314,564
SAFETY RAZOR
Nicholas Testi, Boston, Mass., assignor to Gillette Safety Razor Company, Boston, Mass., a corporation of Delaware
Application May 6, 1942, Serial No. 441,927
7 Claims. (Cl. 30—72)



1. A safety razor comprising co-operating blade-clamping members for co-operation with an interposed flexible blade, one of said members having a central longitudinal rigid bar bearing against the juxtaposed face of the blade and flexible blade-engaging sections disposed on both sides of the bar and constructed and arranged to follow up the blade locally wherever there is any irregularity in the other blade-clamping member.

2,314,565
COATED FERROUS ARTICLE AND METHOD OF MAKING THE SAME
John S. Thompson, Detroit, Mich., assignor to Parker Rust Proof Company, Detroit, Mich.
No Drawing. Application May 29, 1940, Serial No. 337,860
27 Claims. (Cl. 148—6.5)

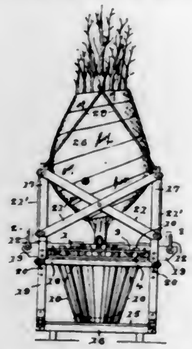
1. The method of coating a ferrous surface with an aqueous solution containing a dissolved compound of hexavalent chromium and having a tendency to creep when a film thereof is baked on a metal surface, which consists in producing on the metal surface a chemical reaction the product of which is more soluble than is metallic iron in said solution, leaving at least a trace of said products on the surface and thereafter applying to the surface a film of the solution, dissolving at least some of said products in the film, baking the film, and regulating the first said reaction and the action of said solution so that not more than a minor part of the total coat consists of unchanged products of the first said reaction.

2,314,566
REFLECTOR
William P. Tolbert, Fort Madison, Iowa, assignor to Anthes Force Oiler Company, Fort Madison, Iowa, a corporation of Iowa
Application August 3, 1940, Serial No. 350,874
3 Claims. (Cl. 88—82)



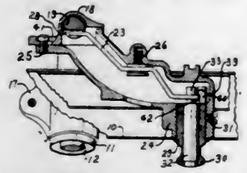
1. A reflector comprising a casing having openings in the front face thereof for lenses, a lens concentric with each opening, a reflector comprising a plate having a series of reflector surfaces, one for each lens, and a centering plate fixed to the reflector plate and having openings concentric with said openings in the casing, both of said plates being spaced from the peripheral wall of the casing, the rims of said openings in said centering plate bearing on the lenses, said plates having means to space the reflectors from the lens receiving openings in the centering plate, and holding means for said centering plate within said casing, said holding means comprising a plastic composition enclosing the plates.

2,314,567
TREE REMOVING AND SUPPORTING APPARATUS
Joseph A. Vogel, Wilmington, Del.
Original application April 29, 1941, Serial No. 391,005. Divided and this application May 27, 1942, Serial No. 444,709
14 Claims. (Cl. 47—37)



1. In a tree transplanting apparatus, the combination of an excavator and lifter for separating the roots of a tree with surrounding earth from the ground, said excavator and lifter adapted to be applied about the tree for use and removed from the tree after use, and a supporting means adapted to enclose the base of the tree and the excavator and lifter, said excavator and lifter and supporting means having coacting surfaces to support the weight of the excavator and lifter during its removal from the tree.

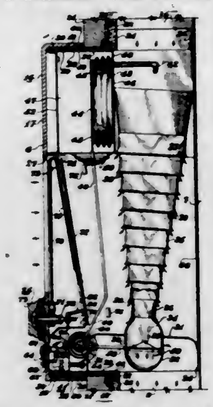
2,314,568
MOTOR VEHICLE LOCK
John J. Wharam, Dearborn, Mich., assignor to Ford Motor Company, Dearborn, Mich., a corporation of Delaware
Application October 4, 1940, Serial No. 359,663
15 Claims. (Cl. 70—252)



1. In an automobile having a steering gear shaft and an ignition switch, a control member movably mounted in said automobile, a key-operated lock associated with said control member, said lock being actuated by movement of a key in

one plane relative thereto, locking means extending from said lock to said shaft by means of which said shaft is locked and unlocked from rotation by said actuating movement of said key, said control member actuating said switch by movement thereof in another plane relative thereto, the movement of said control member to actuate said switch and movement of said shaft locking means being accomplished by the actuation of said key alone in each of said two planes.

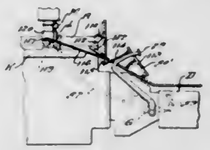
2,314,569
FLUID SYSTEM AND REGULATING DEVICE THEREFOR
Thomas A. Baker, Logansport, Ind.
Application June 15, 1940, Serial No. 340,852
9 Claims. (Cl. 98—33)



1. A device for controlling the flow of air comprising, in combination, a housing, induction means with openings therein in said housing, said housing having primary inlet means through which primary air may be introduced into said induction means and having secondary inlet means through which secondary air may be introduced into said housing and around said induction means, said primary air in said induction means comprising a stream which flows through said induction means and picks up secondary air which flows through the said openings in the induction means, said housing having outlet means for the mixed primary and secondary air, means for regulating the volume of secondary air introduced into the said housing, and means responsive to the difference between the total pressure head and the static pressure head of the said mixed air for regulating the quantity of primary air passed into the said housing thereby maintaining a substantially constant discharge of mixed air from the said housing into the enclosure.

2,314,570
THROTTLE CONTROL
Thomas M. Ball, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application October 9, 1940, Serial No. 360,476
22 Claims. (Cl. 74—472)

1. In combination with an engine having a throttle adapted for opening and closing movements, means operable to retard only the last part of the throttle closing movement, speed responsive control means adapted to be operated as a function of engine speed, and means for effecting control of the operation of said retarding means by said speed responsive control means such that said retarding means is selectively ren-



dered operative and inoperative to retard the last part of the throttle closing movement.

2,314,571
PROCESS FOR PRODUCING GAMMA-HALOGEN GAMMA-ACETO PROPYL ALCOHOL
Edwin R. Buchman, Pasadena, Calif., assignor to Research Corporation, New York, N. Y., a corporation of New York
No Drawing. Original application September 27, 1939, Serial No. 296,816. Divided and this application August 21, 1940, Serial No. 353,504
7 Claims. (Cl. 260—594)

1. Process of producing a γ halogen γ aceto propyl alcohol which comprises treating a di-γ halogen γ aceto propyl ether with water.

2,314,572
TURBOENGINE
Herman E. Chitz, East Cleveland, Ohio, now by judicial change of name Herman Ernst Sheets
Application November 2, 1939, Serial No. 302,554
In Czechoslovakia December 7, 1938
11 Claims. (Cl. 230—120)

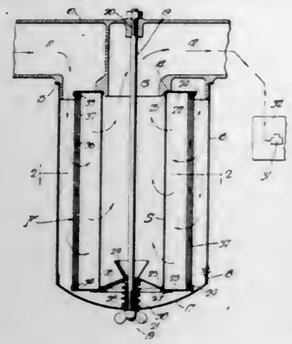


2. A turbo-engine comprising a shaft, a blade carrying member surrounding said shaft, a plurality of blades arranged on said blade carrying member around said shaft, and a cylindrical casing closely surrounding said blades, said blades having a shape which develops a lift according to lift coefficient and angle of attack and causes at any capacity under which the engine is operated a pressure difference due to higher pressure on the lower or working face and lower pressure on the upper face of the blades, slots in said blades in the areas of highest pressure increases along at least one side of said blades between the leading and discharge edges, at least one of said slots being located closer to the discharge edge of the blade than to its leading edge, said slots being disposed transverse to the direction of flow of the fluid flowing through said turbo-engine and allowing part of said fluid to pass from the lower or working face of the blades to their upper face causing thereby a partial compensation of said pressure difference between the upper and lower face of said blades.

2,314,573
AIR CLEANER
George N. Clark and Ernest R. Lesage, Denver, Colo.
Application August 2, 1940, Serial No. 349,559
12 Claims. (Cl. 183—73)

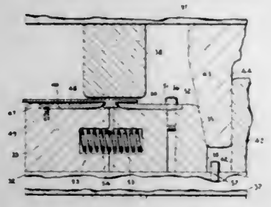
1. In a device of the class described, spaced circular ring supports, one above the other, spacing means between said supports and forming with them a skeleton cylinder, and

yarn wrapped about the supports to form upwardly extending circular concentric walls of



strands that are substantially parallel, the strands of each wall being in contact.

2,314,574
DEVICE FOR MAKING REAR SIGHTS FOR FIREARMS
Hubert E. Dickerman, Springfield, Mass., assignor to Savage Arms Corporation, New York, N. Y., a corporation of Delaware
Application July 29, 1940, Serial No. 348,089
4 Claims. (Cl. 78—60)



1. In a die-forming device for transforming oppositely located stepped faces on a tenon projecting downwardly from an overhanging body into slanted faces of dovetail-tenon form, the combination of a support, two aligned spaced platforms mounted immediately thereabove to have relative horizontal movement towards and from each other, means for imparting such relative movement to said platforms, two bevel-ended dies oppositely located one on each of said platforms, with their beveled ends towards each other and with their acute edges upward away from said platforms, each of said dies having its remote end articulated to its respective platform and so held longitudinally therewith but allowing the inner ends of the dies to be swung upwardly away from said platforms, and a moving pressure member movable downwardly toward the inner ends of said dies, the parts of said device being so operatively connected that said platform-moving means first starts relative movement of the die-carrying platforms and carries the dies into intimate contact with the tenon and the inner ends of the dies swing upwardly and to the surface of said overhanging body adjacent said tenon and then said means for pressing downwardly the inner ends of the dies comes into action and the platform-moving means continues to operate concurrently therewith, whereby the dies are forced down into a straight line with a toggle-like final pressure on the tenon with compression stress and the avoidance of excessive cross-bending stress on the die points.

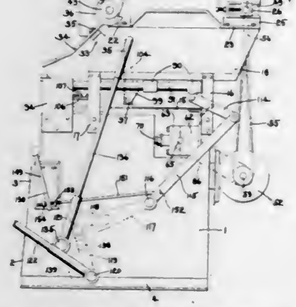
2,314,575
ANTIDETONANT
Albert B. Doran, Brentwood Heights, Calif., assignor, by direct and mesne assignments, to Dorex, Inc., Reno, Nev., a corporation of Nevada
No Drawing. Application April 12, 1939, Serial No. 267,452
8 Claims. (Cl. 44—69)

1. As a fuel for internal combustion engines, a mixture comprising gasoline and a small amount of a salt of an unsaturated organic acid having not more than five carbon atoms and a metal selected from the group consisting of tin, lead, zinc, cadmium, mercury, antimony, and bismuth.

2,314,576
METHOD FOR TREATING OILS
Albert B. Doran, Los Angeles, Calif., assignor to Dorex Corporation, Los Angeles, Calif., a corporation of Nevada
No Drawing. Application October 15, 1940, Serial No. 361,257
9 Claims. (Cl. 196—30)

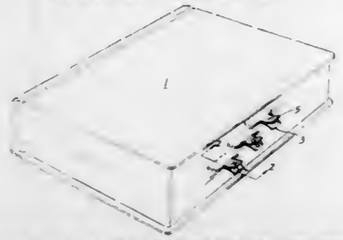
1. In the process for desulphurizing oils the step comprising contacting a sulphur-containing oil with an adsorptive agent containing a compound of an acidic oxide of manganese in which the valence of the manganese is not more than four with a metal whose sulfide is highly insoluble in said oil.

2,314,577
CEMENT BLOCK MOLDING MACHINE
Harry E. Dunn, Holland, Mich., assignor to W. E. Dunn Manufacturing Company, Holland, Mich., a corporation of Michigan
Application July 29, 1941, Serial No. 404,491
18 Claims. (Cl. 25—41)



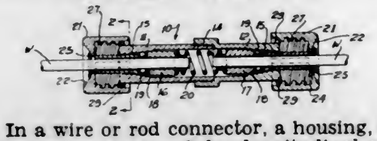
1. The combination with a molding machine having a supporting frame and a mold box secured thereto, of a pallet located at the lower side of and within said mold box, means to introduce a quantity of cementitious material into said mold box, a troweling plate normally in a position other than horizontal, means to move said plate over the top of said mold box in a horizontal position from one side thereof to the other in contact with the contents thereof, means for elevating said pallet with the material thereon a short distance to compress the material against said plate, and means to strip the resulting blocks from said mold box after the troweling plate has moved past the mold box.

2,314,578
TAB INDEX
Nathan J. Erb, San Francisco, Calif.
Application September 4, 1942, Serial No. 457,309
6 Claims. (Cl. 283—42)



3. In a book, a plurality of spaced, progressively offset pairs of index tabs secured to the leaves of said book, each pair of tabs comprising: a lower index tab affixed to a leaf of said book with its outer end protruding beyond the edge of said leaf; and an upper index tab secured to an adjacent leaf with its outer end overlying the protruding end of said lower index tab, the protruding ends of said tabs being bent relative to each other to define an inwardly converging finger recess external to the leaves of said book.

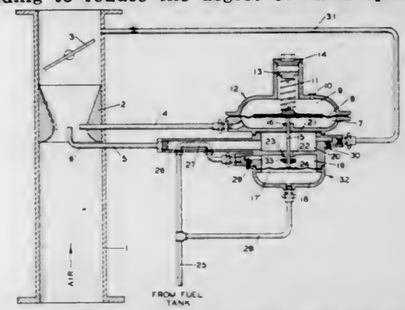
2,314,579
WIRE OR ROD CONNECTOR
Louis Frank, Taft, Calif.
Application July 23, 1941, Serial No. 403,602
10 Claims. (Cl. 287—76)



1. In a wire or rod connector, a housing, a tubular member arranged for longitudinal movement within said housing, one end of which tubular member projects beyond the corresponding end of the housing, a spring for yieldingly resisting the movement of the tubular member into the housing, gripping members loosely carried by said tubular member, said housing being provided with internally arranged inclined surfaces against which said gripping members engage as they move outwardly with said tubular member, a member loosely mounted upon the projecting end of said tubular member and engaging the adjacent end of the housing for moving said tubular member in both directions through said housing and means on the outer end of said tubular member for limiting the outward movement of said loosely mounted member thereupon.

2,314,580
CARBURETOR
Owen L. Garretson, Detroit, Mich., assignor to Phillips Petroleum Company, a corporation of Delaware
Application September 16, 1941, Serial No. 411,061
1 Claim. (Cl. 261—11)

In an internal combustion engine fuel supply system for utilizing hydrocarbon fuels, certain components of which possess a superatmospheric vapor pressure, an air inlet tube, a main throttle valve in the tube, a liquid fuel conduit, a vaporization chamber wherein, on pressure reduction, vaporization accompanied by cooling of the high pressure components of said fuel takes place and a vapor tube delivering fuel from said chamber to the air inlet tube, means for regulating the supply of fuel relative to air comprising a main liquid fuel chamber connected with the liquid fuel conduit, a second liquid fuel chamber connected with the liquid fuel conduit, said liquid fuel chambers being separated by a fuel diaphragm, a valve for controlling the flow of fuel from the main liquid fuel chamber to the vaporization chamber and reducing the pressure of said fuel, an air chamber communicating with the atmosphere, a second air chamber communicating with said air inlet tube, said air chambers being separated by an air diaphragm, force transmitting means connected with said air and fuel diaphragms and said fuel valve, a restriction in said liquid fuel conduit for establishing a pressure differential across the fuel diaphragm tending to reduce the degree of valve opening

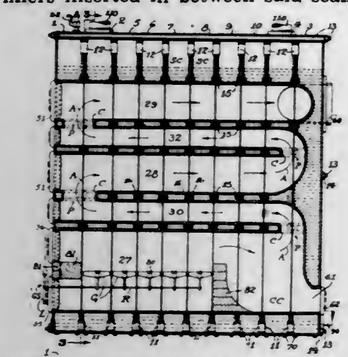


on increase in fuel flow through the conduit, a portion of said liquid fuel conduit upstream of said restriction being located within said vapor tube in heat exchange relationship with the vaporized high pressure components of said hydrocarbon fuel, means in the air inlet tube on the inlet side of said main throttle valve producing a pressure differential on said air diaphragm tending to increase the degree of opening of said fuel valve on increase of air flow through the air inlet tube, a tube connected with the vaporization chamber and communicating with the air inlet tube on the engine side of said main throttle valve for utilizing high pressure components of said hydrocarbon fuel during idling and a spring normally tending to hold said fuel valve closed but so adjusted as to allow the fuel valve to remain open during idling.

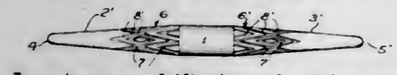
2,314,581
SECTIONAL BOILER
Valentine Gerich, New York, N. Y.
Application August 20, 1940, Serial No. 353,323
3 Claims. (Cl. 122—225)

1. In a sectional steam boiler or hot-water heater of the character described, the combinatoin of front and rear sections having interconnecting sections therebetween, each of said sections provided with water and steam sleeve-tube members providing circulating means between each of said sections, said sections being provided with openings forming double fire-boxes and combustion chambers and longitudinally small size and large size fire flues spaced vertically above the fire-boxes and combustion chambers, and by-passages connecting some of the small size fire-flues with the fire-boxes and combustion chambers and other by-passages connecting the small size fire-flues with the large size fire-flues all of which form a passage leading to the smoke stack in the rear section, the lower part of the rear section being provided with a clean-out hole and door that permits access to the passage, the

front header section being provided with clean-out openings and doors for each of said fire-flues, each of said fire-boxes being provided with a pair of semi-circular doors in the front header section, one of which is for a fuel feeder and the other of which is for an ash pit, the sections being provided with caulking seams, asbestos-like liners inserted in between said seams, suitably spaced radius stay-rods extending through the sections, said sections and interconnecting sleeve-tube members being adaptable to be drawn together by said radius stay-rods, whereby all of said fire-boxes, fire-flues and their by-passages are rigidly secured in alignment with each other and said asbestos-like liners secured in between said caulking seams, thus sealing each of said fire-flues.



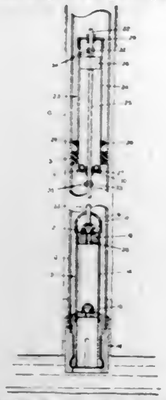
2,314,582
TWO-WAY DRIFTPIN, SWAGING AND ALIGNING TOOL
Valentine Gerich, New York, N. Y.
Application February 13, 1941, Serial No. 378,703
7 Claims. (Cl. 29—95.1)



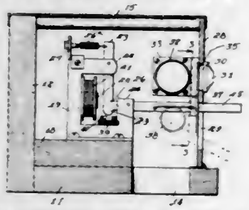
1. In a two-way drift pin and cutting tool of the character described, comprising a tool provided with an intermediate shank portion terminating at both ends into tempered tapering portions having annealed round head-points, said tapered ends having means for cutting, said round head-points adapted to receive hammer-like blows by a snap head member of an air gun riveter, and said tool adapted to be driven into holes of sheet metal members that are to be riveted together, whereby said holes are cut in perfect alignment for the insertion of the rivet therein, and said tool adapted to be driven and swaged by said intermediate shank portion clear through said holes and redriven back through another set of holes adjacent thereto.

2,314,583
WELL PUMPING APPARATUS
William L. Kitsman, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application May 19, 1941, Serial No. 394,201
6 Claims. (Cl. 103—5)

1. In well pumping apparatus, the combination comprising a conduit adapted to be disposed in a well bore, a pair of reciprocating pumps positioned at different levels in the conduit, the upper pump forming an annular space with the conduit and including a fluid inlet in its lower portion and a fluid outlet above the fluid inlet discharging into the annular space, a packer in the annular space intermediate the fluid inlet and the fluid outlet of the upper pump, reciprocable means for actuating both pumps, means for transmitting well fluid from the lower pump into the upper pump on movement of the reciprocable means in one direction, and means for discharging well fluid from the upper pump on movement of the reciprocable means in the opposite direction.

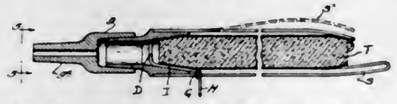


2,314,584
ANNUNCIATOR
Leo L. Kritz, Spencer, Iowa
Application October 7, 1940, Serial No. 359,993
2 Claims. (Cl. 177—329)



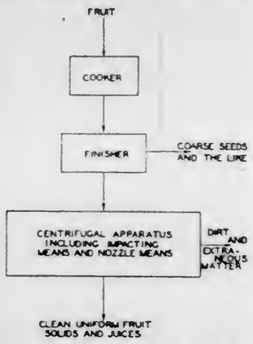
1. A signal device, comprising a casing having a signal opening in one of its sides, a vertical slot beneath said opening, an arm projecting through said slot, pivot means supporting the inner end of said arm, a shutter slidably mounted on the inner face of said casing and carried by said arm to cover and uncover said signal opening when the lever is elevated and lowered, means carried by said arm for yieldably holding said shutter against said casing, a latch bar adapted to engage the inner end of said arm to hold it in its elevated position with the shutter covering said opening, and a remote control magnetic means for releasing said latch bar.

2,314,585
ASH-RETAINING CIGARETTE HOLDER
William Lemle, Chicago, Ill.
Application December 28, 1940, Serial No. 372,069
10 Claims. (Cl. 131—175)



1. An ash-retaining holder for a given size of cigarette, comprising: a tubular holder having the forward end of its bore formed for socketing an end of a cigarette; and a plurality of U-shaped and generally straight-shanked guard elements disposed in circular formation around the axis of the said holder to loosely receive a cigarette therein; each guard element being formed of resilient wire adapted to be sprung at its outer end to insert a cigarette and having its shanks generally parallel to the said axis out of contact with an inserted cigarette and the rearward parts of these shanks rigidly fastened to the said holder, and its shank-connecting bight bent inwardly toward the said axis sufficiently to engage the end of an inserted cigarette and its ash.

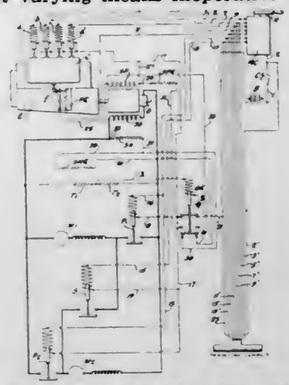
2,314,586
TREATMENT OF FRUITS AND VEGETABLES
Samuel Levison, Chicago, Ill.
Application March 20, 1940, Serial No. 324,960
12 Claims. (Cl. 146—219)



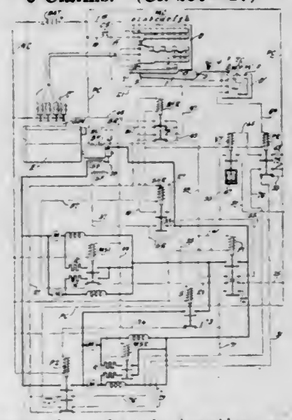
1. A process for treating fruits or vegetables to break down the structure thereof and to effect the removal of dust, dirt and other undesirable materials, which includes the steps of subjecting a pulp of said fruits or vegetables to a violent impacting action of at least one arm in a rapidly rotating centrifugal bowl, whereby embedded dirt or the like, which is heavier than the desired juices and pulp solids, is released from the pulp and collects as a layer along an inner wall of said bowl and whereby the desired juices and pulp solids are drawn inwardly and separate from said dirt and the like, and then forcing said juices and pulp solids under high pressure by centrifugal pump means through at least one nozzle having a relatively fine aperture therein whereby said pulp solids are further disintegrated.

2,314,587
GENERATING ELECTRIC DRIVE AND CONTROL SYSTEM
Torsten O. Lillquist, Clarendon Hills, Ill., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application August 5, 1941, Serial No. 405,528
6 Claims. (Cl. 175—294)

1. In a drive and control system for a vehicle comprising a prime mover generator power plant, means for varying the speed and output of the power plant between low and high values, traction motors for driving the vehicle, a power circuit including means for connecting the motors to the power plant generator, electrical protective means connected with the power circuit for energization only by leakage of current therefrom to ground, and control means operable by said electrical means only upon energization thereof for rendering the power plant speed and output varying means inoperative to cause the speed and output of the power plant to be reduced to a low value whereby the motors are rendered ineffective for driving the vehicle.



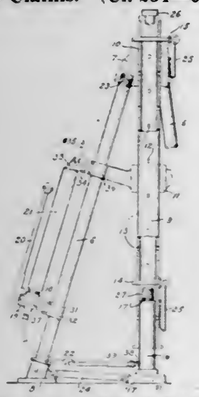
2,314,588
GENERATING ELECTRIC DRIVE AND CONTROL SYSTEM
Torsten O. Lillquist, Clarendon Hills, Ill., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application August 17, 1942, Serial No. 455,098
6 Claims. (Cl. 290—17)



1. A generating electric traction and control system of the type described comprising, a prime mover, an electric generator driven thereby, a plurality of electric traction motors, power connections interconnecting said generator and motors, said power connections including electrically operated switching means for causing transition of the connections of pairs of said motors between series and parallel circuit relation with said generator, means for reducing the generator excitation to reduce the power output therefrom to a low value, electrically operated means for reducing the excitation of said motors to increase the power input thereto and control means comprising a manually operable transition controller and time delay switching control means electrically interconnected to said motor connection transition switching means, said generator and said motor excitation reducing means in a manner so that sequential operation of said

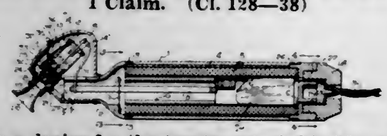
combination of interconnected means takes place to cause the motor excitation to be increased and the generator power output to be reduced prior to operation of the transition switching means thereby causing transition of the motor connections between series and parallel and to cause only the generator power output to be reduced prior to operation of said transition switching means upon transition between parallel and series motor connection.

2,314,589
JACK ASSEMBLAGE
Siegmund Mandl, Milwaukee, Wis., assignor to Blackhawk Mfg. Co., Milwaukee, Wis., a corporation of Wisconsin
Application June 14, 1941, Serial No. 398,058
10 Claims. (Cl. 254—93)



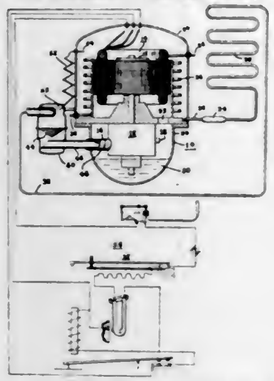
1. In combination, a tripod having a vertical central bore, a tubular extension member slidable in said bore and having a series of transverse through holes, a jack having a plunger disposable within said member and cooperable with a pin piercing selected sets of alined holes of said series to raise said member, and another pin cooperable with said tripod and with other of said holes to retain said member in various positions of vertical adjustment.

2,314,590
ELECTROVACUUM VIBRATOR
Madison P. McCarty, Dallas, Tex., assignor of one-half to John D. Grey, Dallas, Tex.
Application August 26, 1940, Serial No. 354,196
1 Claim. (Cl. 128—38)



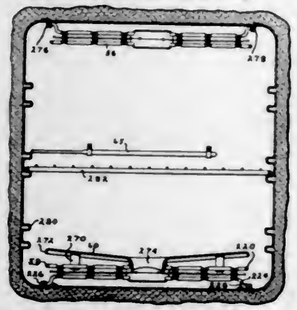
In a device for the treatment of skin blemishes, a handle having a head whose longitudinal axis is in oblique relation to the longitudinal axis of the handle, an electro-magnetic coil in said handle, an armature shaft oscillatable by said coil, a cylinder in said head, a piston in said cylinder, a piston rod, an arm within the confines of said head connecting said armature and piston rod to reciprocate said piston by means of said armature, means pivoting said cylinder intermediate its ends whereby to effect oscillative vibration thereof, an interchangeable applicator carried by said cylinder, a perforated head in said cylinder between said piston and applicator, means to constrain air to pass from the latter into said cylinder by the action of said piston to establish a vacuum in said applicator and means to render said latter means ineffective to control said air and to suspend the evacuating effect of said piston.

2,314,591
REFRIGERATING APPARATUS
Alex A. McCormack, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application June 20, 1940, Serial No. 341,516
11 Claims. (Cl. 62—115)



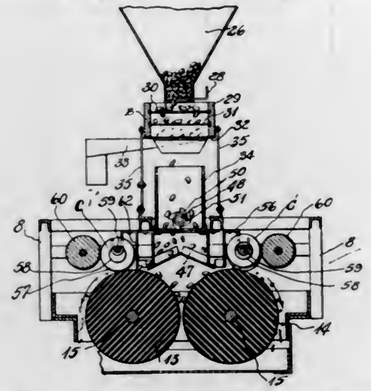
1. In combination, an evaporator, a compressor having an inlet and an outlet, a condenser, first refrigerant flow means between said condenser and said evaporator, second refrigerant flow means between said evaporator and said compressor, refrigerant flow means between said compressor and said condenser, a chamber in said second refrigerant flow means, means preventing the flow of refrigerant from said chamber to the outlet of said evaporator, means preventing the flow of refrigerant from the inlet of said compressor to said chamber, and means forming an unloader passage providing a restricted refrigerant flow connection between the outlet of said compressor and said chamber.

2,314,592
DOMESTIC APPLIANCE
Francis H. McCormick, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application October 18, 1939, Serial No. 300,032
7 Claims. (Cl. 219—35)



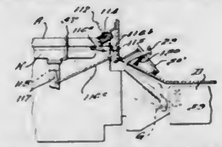
7. An electric heating means for an oven or the like, comprising a horizontal baffle in the lower portion of said oven, said baffle having an opening therein for the circulation of oven air therethrough, a horizontally distributed heating element below said baffle and insulatedly attached thereto and having an unheated opening and positioned about said baffle opening for heating the air passing therethrough, the walls of the air circulation opening extending downwardly to said unheated opening.

2,314,593
SEED SORTING MACHINE
Lee A. Medcalf, Fairgrove, Mich.
Application November 1, 1940, Serial No. 363,817
9 Claims. (Cl. 209—113)



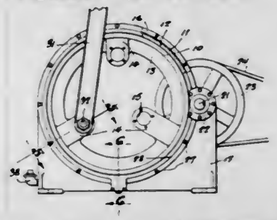
1. A sorting machine of the class described comprising a frame, an inclined feed box mounted thereon and into which the product is fed, discharge openings in said box, a distributing plate below said box, sorting rolls having frictional surfaces disposed parallel with said feed box below said plate and onto which the discharged product is discharged, a shaft parallel with said sorting rolls, and a plurality of disk-shaped members loosely mounted on said shaft and riding on said sorting roll.

2,314,594
POWER TRANSMISSION
Carl A. Neracher and William T. Dunn, Detroit, Mich., assignors to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application October 19, 1940, Serial No. 361,918
19 Claims. (Cl. 74—472)



1. In a drive for a motor vehicle having an engine; transmission mechanism operable to provide a drive from the engine to the vehicle, said mechanism including positively engageable drive-control elements one of which is movable into engaging relationship with the other to accommodate said drive and into disengaging relationship with respect to said other element to release said drive, said elements when relatively engaged being subject to thrust-application therebetween during said drive so as to resist relative disengagement thereof to release said drive until said thrust-application is relieved; an ignition system for said engine adapted to be interrupted to relieve said thrust-application; a switch operable to control said ignition system and adapted for operation from a first position accommodating operation of said ignition system to a second position interrupting said ignition system; a reciprocatory member for controlling movement of said movable drive-control element and adapted for movement from a first position accommodating said engaging relationship of said elements into a second position causing said disengaging relationship of said elements; a switch-operating member adapted for movement from a first position to a second position to transmit thrust to said reciprocatory member for moving the latter from its said first position to its said second position; yielding means providing a lost motion thrust-transmitting connection between said switch-operating member and said reciprocatory member; releasable holding means for holding said switch-operating member in its said first position; said switch-operating member being adapted for movement from its said first position toward its said second position upon release of said holding means thereby to operate said switch from its said first position to its said second position; said yielding means operating to accommodate movement of said switch-operating member toward its said second position and relative to said reciprocatory member thereby to cause operation of said switch from its said second position to its said first position independently of completion of movement of said reciprocatory member into its said second position.

2,314,595
GEAR UNIT
Edgar W. Patterson, Long Beach, Calif.
Application September 3, 1940, Serial No. 355,159
7 Claims. (Cl. 74—414)

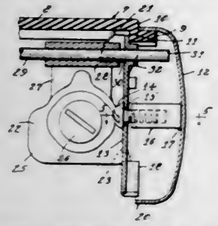


1. In pump gearing, a speed reducing gear unit including a low speed member in the form of a shaftless ring gear having an externally toothed surface, and a support having an oil chamber and including a supporting annulus around said gear open to receive oil from said chamber and presenting a bearing surface circumferentially around and closely adjacent to the toothed surface of the gear whereby to adapt the gear to carry oil therearound and means secured to the sides of the annulus in bearing engagement with the gear and forming with the annulus a complete housing for the toothed portion of the gear.

2,314,596
HANDLE CONSTRUCTION AND MOUNTING THEREFOR
Elmer D. Pellegrin and Harold H. Ring, Rockford, Ill., assignors to Geo. D. Roper Corporation, Rockford, Ill., a corporation of Illinois
Application November 22, 1940, Serial No. 366,640
10 Claims. (Cl. 16—116)

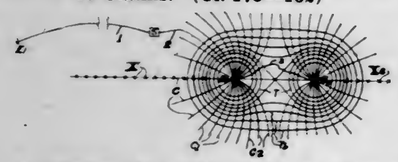
1. A device of the character described, comprising an elongated hollow handle body substan-

tially C-shaped in cross-section and disposed with the hollow side of the C-section toward the support on which the handle is mounted, the opposite ends of said body being open and formed to provided C-shaped flanges thereon adjacent external and internal C-shaped shoulders, caps fitting over and closing the ends of said handle body on said flanges in engagement with the ex-



ternal shoulders, clamping plates disposed inside said handle at the opposite ends in engagement with the internal shoulders, means for securing each cap to its companion plate, and brackets arranged to be secured to a supporting member on a door or drawer and projecting into the hollow back of the handle for supporting the aforesaid handle assembly by pivotal connection with said clamping plates.

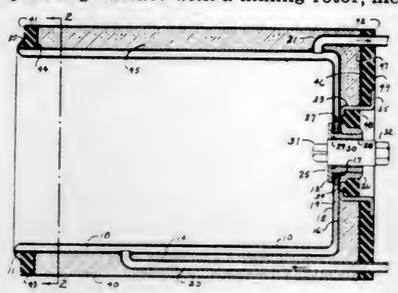
2,314,597
METHOD FOR MAKING GEOPHYSICAL SURVEYS
Stephen R. Phelan, Memphis, Tenn.
Application December 14, 1939, Serial No. 309,177
19 Claims. (Cl. 175—182)



1. A method of geophysically exploring subsurface earth structures, which includes establishing three widely spaced electrodes and a source of current; connecting a pair of said electrodes, to one pole of said source, and one said electrode, spaced from said pair, to the other pole of said source to cause current flow and set up a jointly induced group of equipotential surfaces around and spaced from said pair of electrodes, thereby creating along the surface of the earth a survey field spaced as a belt from and around said pair of electrodes, said field embracing the traces of said jointly induced equipotential surfaces; and making pick-up observations at spotted points in said field, to obtain desired data.

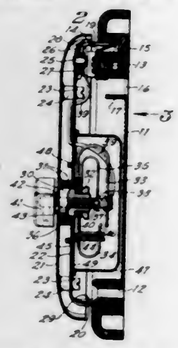
2,314,598
INSULATED FREEZER SHELL AND TRANSMISSION
Louis A. M. Phelan, Rockton, Ill.
Application August 11, 1941, Serial No. 406,303
6 Claims. (Cl. 62—114)

1. A device of the class described, comprising a counter freezer shell having an open and a closed end, a concentrically positioned annular bracket secured to said closed end, a gear housing secured to the outer end of said bracket by means of relatively short and small in diameter feet and bolts passing therethrough, a concentrically positioned sleeve secured to said closed end and having an opening, a shaft rotatably mounted in said opening and extending into said shell for operating contact with a mixing rotor, means



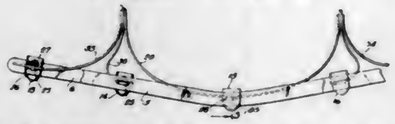
mounted in said gear housing for driving said shaft.

2,314,599
THERMOSTAT
William A. Ray, Glendale, Calif.
Application July 27, 1940, Serial No. 348,065
10 Claims. (Cl. 200—138)



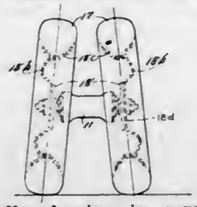
1. In a thermostat: a base member of heat insulating material and adapted to be supported by the aid of a wall, a plate detachably mounted on said base, a temperature responsive condition-controlling element supported by said plate and between the base and the plate, and a sub-plate mounted on the inner surface of said plate for supporting means associated with said element.

2,314,600
VEHICLE BUMPER CONSTRUCTION
John R. Reyburn, Fairfield, Conn., assignor to American Chain & Cable Company, Inc., a corporation of New York
Application May 27, 1941, Serial No. 395,333
13 Claims. (Cl. 293—55)



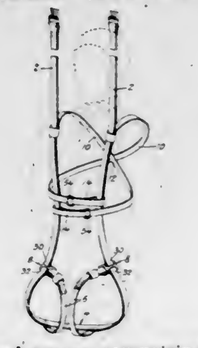
1. In a bumper construction, the combination of a plurality of vertical guards arranged in spaced relation transversely of a vehicle, spring brackets for supporting said guards on a vehicle, and a horizontally extending main bumper bar element supported on said guards, each of said guards comprising a rearwardly extending flange provided with an aperture through which said main bumper bar element extends.

2,314,601
ROAD ROLLER STRUCTURE
John R. Ritchie, Minneapolis, Minn.
Application March 21, 1942, Serial No. 435,650
4 Claims. (Cl. 94—50)



1. A road roller having in combination, an axle, a wheel-carrying member secured to said axle, said member being provided with a flange having a surface disposed in a plane at a slight angle to a plane perpendicular to the axis of said axle, a rim-carrying wheel frame engaging said flange and means for securing said flange and frame together whereby the central plane of said rim is disposed at a slight angle to a plane perpendicular to the axis of said axle.

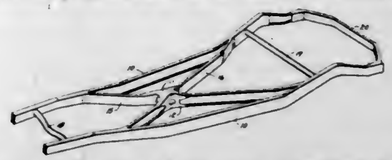
2,314,602
PARACHUTE HARNESS
Floyd Smith, Manchester, Conn., assignor to Pioneer Parachute Company, Inc., Manchester, Conn., a corporation of Connecticut
Application December 8, 1939, Serial No. 308,155
20 Claims. (Cl. 244—151)



1. Parachute harness comprising lift webs, a seat and connectors releasably connecting said seat to said lift webs, said connectors each having members one of which is engaged by a lift web and the other of which is engaged by said seat and means releasably retaining said lift webs and seat in engagement with said members.

2,314,603
VEHICLE FRAME
Charles E. Sorensen, Detroit, and Laurence S. Sheldrick, Dearborn, Mich., assignors to Ford Motor Company, Dearborn, Mich., a corporation of Delaware
Application January 11, 1940, Serial No. 313,362
7 Claims. (Cl. 280—106)

1. In a frame for motor vehicle, in combination, a pair of side members of channel section having their flanges disposed inwardly, a center box member comprising a pair of complementary elements having legs disposed in the form of an X, portions of said legs being of channel section, said elements being assembled with the corresponding channel flanges in edge to edge relationship and welded together, diagonal members of channel section having the flanges thereof disposed outwardly, the inner ends of said diagonal members abutting the ends of the respective legs of said center member in edge to edge relationship therewith and welded thereto, the

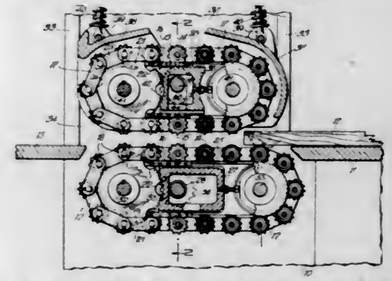


outer portion of said diagonal members being aligned with said side members, the flanges of said side and said diagonal members being secured together to form a box through their area of contact, and cross members secured to said side members and said diagonal members to maintain the spacing thereof.

2,314,604
METHOD OF PRODUCING CHROMIUM WEARING SURFACES
Henderik Van der Horst, Hilversum, Netherlands, assignor, by mesne assignments, to Van der Horst Corporation of America, a corporation of Delaware
No Drawing. Application April 25, 1939, Serial No. 270,018. In Great Britain February 21, 1939
11 Claims. (Cl. 204—26)

1. The process of producing grooves, pits or depressions in an electrodeposited chromium wearing surface of a wearing member, which consists in passing current through the surface of the electrodeposited chromium for a short time, in an electrolytic bath adapted to remove chromium from such surface and in such a direction that the chromium at such surface is an anode, until at least about 150 ampere-minutes of electricity per square decimeter of the surface, but less than sufficient to completely remove the chromium, has passed through such surface, there being taken thereafter no electrolytic action closing with metal the grooves, pits or depressions produced by the action of said current.

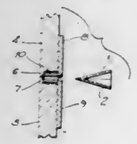
2,314,605
WORK FEEDING MECHANISM
William O. Arnold, Turtle Township, Rock County, Wis.
Application May 15, 1941, Serial No. 393,658
7 Claims. (Cl. 198—162)



1. A work feeding mechanism comprising a lower bed having work propelling means, an upper bed having similar work propelling means, said upper bed having a central axle bar crosswise thereof and loosely disposed with respect

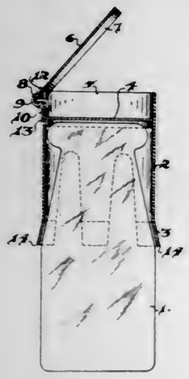
thereto, pivoted yokes mounting said bed from said axle bar, and a hoist bracket receiving end portions of said axle bar for mounting and guiding the same in vertical movement.

2,314,606
APPARATUS USEFUL FOR THE MANUFACTURE OF ELECTRIC BLASTING CAPS
Donald George Ashcroft, Saltcoats, Scotland, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain
Application June 11, 1941, Serial No. 397,561
In Great Britain June 12, 1940
13 Claims. (Cl. 86—1)



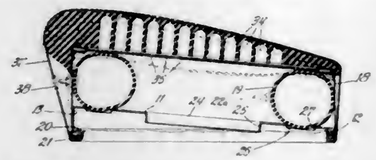
1. An apparatus, useful in the manufacture of electric blasting caps and the like, for facilitating threading through resilient tubular objects which comprises a reciprocating longitudinally separable needle adapted when its parts are closed to enter the perforation in the object and by separation of its parts, when within the perforation, to expand it; together with means to hold the object with the perforation in the path of the needle, so that the point of the needle when it is moving in one direction passes through the perforation, and means for removing the object from the needle when it is moving in the opposite direction.

2,314,607
TICKET CONTAINER FOR MILK BOTTLES
Gordon Clark, Kinsella, Alberta, Canada
Application August 8, 1942, Serial No. 454,156
In Canada April 13, 1942
2 Claims. (Cl. 215—100)



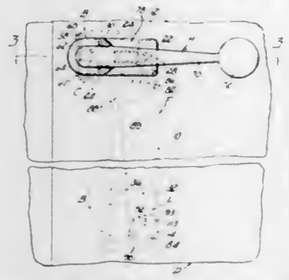
2. A ticket container for milk bottles comprising an open ended cylindrical body, said body providing a lower skirt section for mounting over the upper end of a milk bottle, the skirt section being flared and including longitudinal slots at intervals, a compartment in the upper end of the body for reception of tickets or coins and a hinged closure for said compartment.

2,314,608
CUSHION STRUCTURE
Marion Morgan Cunningham, South Bend, Ind., and Ernest Theodore Wise, Plymouth, Mich., assignors to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind., a corporation of Indiana
Application November 14, 1940, Serial No. 365,624
7 Claims. (Cl. 155—179)



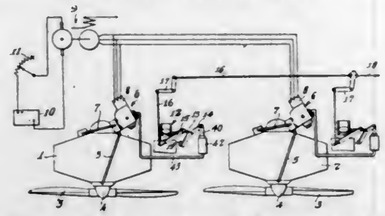
2. A cushion structure of the class described comprising, a supporting base, a flexible cushion supporting deck spaced from said base and comprising a fabric stretched on a marginal frame, flexible members depending marginally from said deck and attached to said base to provide a cushion enclosure, a hollow inflatable ring shaped cushion in said enclosure resiliently holding the base and deck in separated relation, said cushion having a central opening therethrough and said base having a corresponding opening through which said cushion is insertable into and removable from the enclosure, and a cushion pad overlying and secured to said deck.

2,314,609
LATCH RETRACTING MECHANISM
George E. Curtiss, Jr., Abington, Pa., assignor to The Stanley Works, New Britain, Conn., a corporation of Connecticut
Original application May 28, 1940, Serial No. 337,639. Divided and this application January 27, 1941, Serial No. 376,076
2 Claims. (Cl. 292—167)



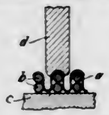
1. A latch operating means comprising a supporting structure, a crosshead supported for rectilinear sliding movement on said structure and having a pair of shoulders, a spring associated with said crosshead for normally urging the same to one position, said supporting structure having a parti-spherical socket and a slot at the bottom of the socket extending generally in the direction of the line of movement of said crosshead, a handle having a parti-spherical end fitting in said socket and a stud projecting from said end of said handle and through said slot to permit of pivotal and rotational movements of said handle in planes at right angles to each other, and a yoke secured to the inner end of said stud and having flanges respectively engaging behind said shoulders whereby said crosshead is operated on either a rotary or pivotal movement of said handle.

2,314,610
SYNCHRONIZING SYSTEM
Phillip E. Day, Alhambra, Calif.
Application October 8, 1940, Serial No. 360,296
12 Claims. (Cl. 170—135.6)



12. In combination, an airplane engine having coupled thereto a variable pitch propeller, a controlling rotary device, synchronizing means including a first member rotatable in synchronism with said engine and a second member rotatable in synchronism with said controlling rotary device, means movable through a range of movements in response to a departure of said first and second members from a predetermined speed relation, said means moving in one direction in response to increase in speed of said engine, and in the opposite direction in response to reduction in speed of said engine relative to said controlling device, means responsive to initial small movement of said movable means in either direction to vary the pitch of said variable pitch propeller, whereby to change the load on the engine in such a way as to tend to restore the engine to normal speed, and means responsive to further movement of said movable member in direction indicative of excessive speed of said engine, to reduce the power output of the engine.

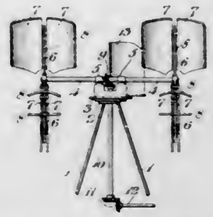
2,314,611
METHOD AND APPARATUS FOR MAKING FLEXIBLE TUBING
Albert Dreyer, Lucerne, Switzerland
Application August 26, 1939, Serial No. 292,124
In Switzerland March 20, 1939
19 Claims. (Cl. 219—6)



1. The process of making flexible tubing which comprises winding a profiled elongated metal strip and an elongated wire assembly helically upon a smooth arbor with the edges of the strip in juxtaposed relation, the strip overlying the wire assembly and the wire assembly being shaped to conform to the profiling of the strip, and thereafter securing the juxtaposed strip edges together whereby to form the flexible tubing.

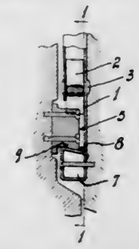
2,314,612
WINDMILL
John J. Duffy, Tacoma, Wash.
Application July 1, 1941, Serial No. 400,630
2 Claims. (Cl. 170—27)

1. A wind mill comprising a supported rotatable carrier frame; a shaft supported thereon athwart the wind; a series of arms radiating from each end of said shaft; a pair of curved vanes hingedly secured to each of said arms, said vanes being concaved on the windward surface when opened apart to form a wind resistant surface, and forming a stream-lined surface when closed together; braces fixedly secured on each of said arms and adapted to engage said vanes when opened apart; a curved tail secured to said carrier frame and adapted to hold said shaft athwart the wind



whereby a lateral force is provided to compensate for the reaction torque of the work performed by the wind mill; and means for transmitting the energy of said shaft.

2,314,613
WEDGE KEEPER FOR ROTARY LATCHES
Waldemar A. Endter, Long Beach, Calif.
Original application October 17, 1936, Serial No. 106,243, now Patent No. 2,224,512, dated December 10, 1940. Divided and this application September 11, 1940, Serial No. 356,275
7 Claims. (Cl. 292—213)



1. A latch and keeper mechanism for association with a closure, comprising a frame, a multiheaded rotary bolt journaled in the frame, dogging means mounted in the frame and adapted to engage any of the heads of the rotary bolt, a keeper, a projecting lug on the frame vertically spaced from and opposite to said rotary bolt, said projecting lug engaging one side of the keeper, any head of the rotary bolt engaging the other side of the keeper whereby the keeper is clamped between the rotary bolt and the lug, the surface of the lug engaging the keeper being beveled inwardly towards the frame, and the complementary surface to the lug of the keeper being beveled to fit against the lug.

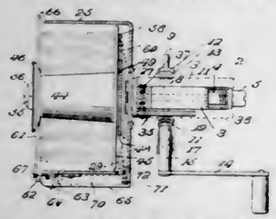
2,314,614
METHOD FOR PREPARING FILLING MATERIAL FOR INCENDIARY BOMBS AND FLARES
Ernest F. Fisher, Passaic, N. J.
No Drawing. Application December 11, 1941, Serial No. 422,555
1 Claim. (Cl. 44—3)

A method of making filling for incendiary bombs consisting of pulping paper and mixing magnesium dust with said pulp and water; agitating this mixture and filtering said mixture to form a uniformly flat sheet or ribbon and finally drying said sheet or ribbon for use in an incendiary bomb.

2,314,615
PRODUCTION OF NITRO COMPOUNDS
Reginald George Franklin and Frederick James Wilkins, Norton-on-Tees, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application June 11, 1940, Serial No. 339,902. In Great Britain July 25, 1939
4 Claims. (Cl. 260—644)

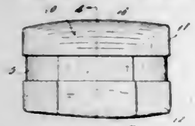
1. As a new chemical compound 1,4-dinitrobutene-2.

2,314,616
FISHING REEL
Paul Edmond Gaire, Weehawken, N. J.
Application August 26, 1940, Serial No. 354,317
In Belgium January 13, 1940
16 Claims. (Cl. 242—84.6)



1. A fishing reel including a line spool mounted for delivery of the line from the spool, means for holding the spool against rotation, a cage mounted for rotation in one direction only concentric with the spool, and a circular pick-up pivotally connected at one point only to the cage and movable on that pivot to a position completely encircling the spool and immediately in advance of the end of the cage to direct the line about the non-rotating spool for winding thereon.

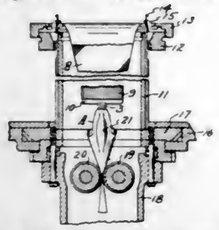
2,314,617
DOLLY BLOCK CONSTRUCTION
Joseph Gambino, Cleveland, Ohio, assignor to The Fairmount Tool and Forging Co., Cleveland, Ohio, a corporation of Ohio
Application December 1, 1941, Serial No. 421,163
1 Claim. (Cl. 81—15)



A dolly comprising spaced bumping heads having convex working surfaces formed on the outer faces thereof and opposed parallel inner faces, and a resilient member intermediate said inner faces having its opposite surfaces bonded to adjacent faces of the bumping heads whereby when the dolly is in service one of said bumping heads serves as a support to hold the other of said bumping heads against a member being worked upon and said resilient member serves to return and maintain the head against the surface of the member after successive blows are imparted thereto.

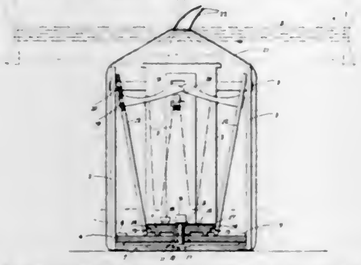
2,314,618
METHOD OF KNITTING
Isaac H. C. Green, Pawtucket, R. I., assignor to Hemphill Company, Central Falls, R. I., a corporation of Massachusetts
Application December 17, 1941, Serial No. 423,258
7 Claims. (Cl. 66—1)

1. A method of knitting string work including the steps of knitting a breaking thread so as to connect two independently knitted articles on a circular independent needle knitting machine



and limiting the connecting stitches to a very small part only of the total number of breaking thread stitches knitted in a course.

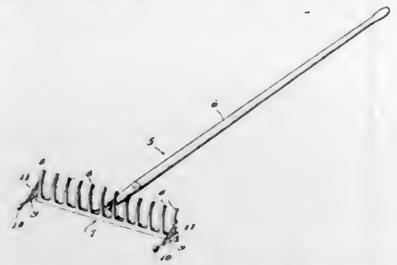
2,314,619
YARN HOLDER
William P. Hess, Menlo Park, Calif.
Application May 2, 1942, Serial No. 441,481
6 Claims. (Cl. 242—111)



1. A yarn holder comprising an upstanding initially open-topped case, a platform mounted in the case for sliding movement from one end thereof to the other, releasable locking means to lock the platform at the initially open top of the case, a hub pivotally mounted on said platform, relatively long arms radiating from the hub in spaced relation, means hinging said arms on the hub for folding movement relative thereto, releasable securing means to hold the arms in position at substantially right angles to the axis of the hub, and fingers projecting from the arms generally parallel to the hub axis when the arms are at such angle; the arms being adapted to fold upward relative to the hub and move into the case upon release of said locking and securing means and downward movement of said platform into said case.

2,314,620
SAFETY MEANS FOR AGRICULTURAL IMPLEMENTS
Yorke G. Jander, Greenwich, Conn.
Application February 8, 1941, Serial No. 378,090
1 Claim. (Cl. 56—400.14)

In a hand operated agricultural implement, an elongated narrow head including spaced parallel tines for hand raking of materials, a handle secured to the head intermediate the ends of the latter and extending at right angles thereto and in one direction, parallel elongated rigid members formed on the ends of the head and extending at right angles thereto and in an opposite direction from the handle and parallel with the longitudinal axis of the handle and having the free ends thereof enlarged and rounded to coact therewith in engaging the ground when the head with the tines directed upwardly and the handle are lying on the ground to prevent the head from pivoting on the ground under the weight of a person on the tines and the handle

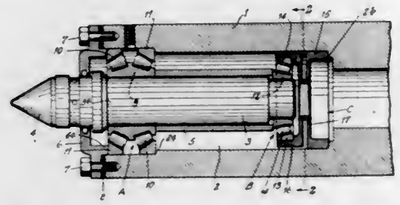


striking the person, and braces connecting the members to the end tines and spaced from the ends of said latter-named tines and the enlarged rounded ends of the members.

2,314,621
PROCESS OF REFINING OILS OF EDIBLE TYPE
William Kelley, Los Angeles, Calif., assignor, by mesne assignments, to Filtrol Company of California, Los Angeles, Calif., a corporation of California
No Drawing. Application March 20, 1939, Serial No. 263,055
10 Claims. (Cl. 260—425)

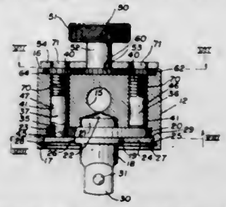
1. A method of purifying a glyceride oil mixture of the character described, comprising: mixing the oil with an agglomerant having an aqueous content and a filter cake which comprises retained oil and an adsorbent substance having such affinity for said aqueous content that said aqueous content will displace retained oil from said adsorbent substance; separating the oil from the coagulate resulting from the preceding step; and refining the oil.

2,314,622
BEARING MOUNTING
Paul Klamp, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio
Application March 21, 1942, Serial No. 435,627
19 Claims. (Cl. 308—207)



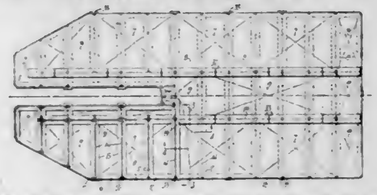
1. A bearing mounting comprising relatively rotatable inner and outer members, a rotary antifriction bearing interposed between said members, and a carrier for said bearing having a portion rigid with one of said members, a portion supporting said bearing, and a portion connecting said first and second portions, said connecting portion being yieldable with said bearing longitudinally of the axis of rotation of the bearing and relatively stiff in directions transverse to said axis.

2,314,623
RATCHET MECHANISM
Kenneth R. Larson, Des Plaines, Ill., and George M. Walraven, Kenosha, Wis., assignors to Snap-On Tools Corporation, Kenosha, Wis.
Application April 2, 1941, Serial No. 386,563
15 Claims. (Cl. 192—43.2)



1. In a device of the character described, the combination with a handle, of a head member associated with said handle, a revoluble member journalled in said wrench head member, a circumferential series of ratchet elements in one of said members, a lesser number of circumferentially spaced pawls constituting diametrically opposed sets in the other of said members to confront said ratchet elements, all of said pawls being positioned in a corresponding direction for cooperative effort in one direction of member rotation, and means for simultaneously displacing all of said pawls relative to said ratchet elements to control the direction of ratcheting said revoluble member relative to said head member.

2,314,624
DREDGE HULL
Walter B. Macaulay, Oakland, Calif., assignor to Yuba Manufacturing Company, San Francisco, Calif., a corporation of California
Application May 6, 1940, Serial No. 333,495
3 Claims. (Cl. 114—26)



2. A dredge hull comprising a plurality of sections, each section having top, bottom and side structural plates arranged to form sides of an elongated box, a cross-plate extending transversely of said structural plates within said box, angle irons welded to said cross-plate adjacent the edges thereof, and removable means for securing said angle irons directly to said structural members.

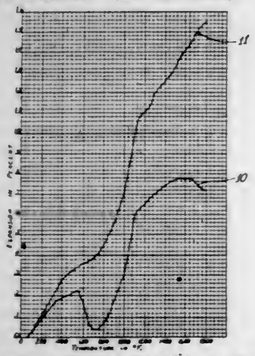
2,314,625
WEANING DEVICE FOR ANIMALS
Arthur R. Miskin, Ucon, Idaho
Application January 9, 1941, Serial No. 373,816
2 Claims. (Cl. 119—130)



1. A light weight animal weaner comprising a distortion-resisting structure including a sub-

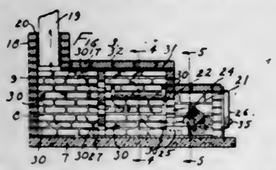
stantially rigid annulus for encircling the muzzle of the animal; a plurality of wire-like prong members disposed in circumferentially spaced relation about the periphery of said annulus, each having an end portion rigidly secured to the annulus, and each extending therefrom in an axial direction; a wire-like member encircling said prong members in axially spaced relation to said annulus and rigidly attached to each prong member at a point intermediate its ends, said rigidly connected annulus, prong members and encircling member constituting a substantially rigid light weight truss-like structure resistant to distortion and to deflection of the prong members and their resultant detachment from the annulus; and means for retaining said structure in place upon the animal's muzzle.

2,314,626
INVESTMENT
Robert Neiman, Louisville, Ky., assignor to Edmund A. Steinbock, Louisville, Ky.
Application October 3, 1939, Serial No. 297,723
12 Claims. (Cl. 22—188)



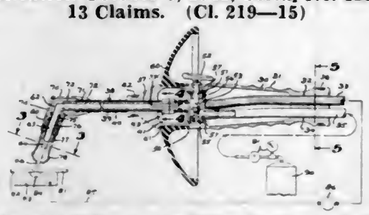
2. An investment composition for casting metals and their alloys, containing from 18 to 50% binder, from 82 to 50% cristobalite, and a soluble inorganic nitrate, with such nitrate being present in a quantity sufficient to improve the expansion property of the composition, but not in excess of 5%.

2,314,627
BARBECUE OVEN
Norman E. Millikan, Brownsburg, and Edward F. Kribs, Indianapolis, Ind.
Application October 17, 1941, Serial No. 415,364
6 Claims. (Cl. 126—25)



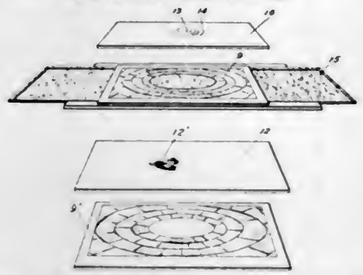
5. In a barbecue oven, a broiling chamber, a partition dividing the chamber into two compartments, said partition made of bricks set edge-up with staggered open space air passages between the ends of the bricks, a wall of said chamber having an upper and a lower opening into each of the two compartments, grids removably entering the compartments through said openings, said grids having plates to close the openings when in, and a combustion chamber having an opening through which the products of combustion are discharged into the broiling chamber, a baffle in the last opening formed of bricks set edge-up on each other with their faces oblique to the wall in which the opening is formed, and in alternate opposite directions, and damper means for controlling the heat.

2,314,628
ELECTRIC ARC WELDING TORCH
Vladimir H. Pavlecka, Pacific Palisades, Calif., assignor to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California
Application October 6, 1941, Serial No. 413,780
13 Claims. (Cl. 219—15)



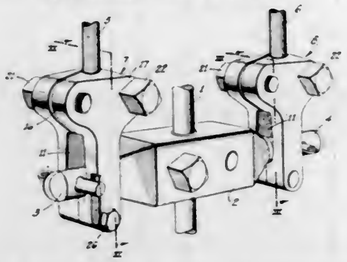
1. An electric arc welding torch including a refractory electrode rod, a tube concentrically positioned around said rod and having a flared metal end beyond which said rod projects, the interior of said tube being constricted directly around said rod as said rod enters said flared end then expanded, and again constricted around said rod as said rod leaves said flared end to form an expansion chamber in said end, and means for supplying an arc blanket gas to said tube above said constriction, whereby said gas will flow through the expansion chamber in said flared end and around the projecting end of said rod substantially without turbulence.

2,314,629
METHOD OF CREATING ILLUSIONS
Leonard B. Pickley, Los Angeles, Calif., assignor to Walt Disney Productions, Los Angeles, Calif., a corporation of California
Application December 18, 1939, Serial No. 309,787
10 Claims. (Cl. 88—16)



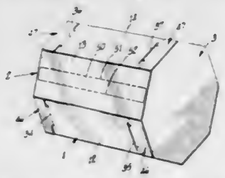
6. In a method of creating illusions in the production of animated cartoon photoplays, the steps of: positioning a pictorial representation within the field of view of a camera containing a photographic film, positioning within the field of view of the camera and between said representation and the camera a sheet of transparent material having a plurality of irregularly arranged thinner and thicker portions blending into one another in gentle curves whereby said sheet is provided with a plurality of irregularly arranged undulations, each of said undulations of said sheet being adapted to distort a portion of said representation; successively photographically exposing said film, moving said film between successive exposures, and changing the position of said sheet with respect to said representation between successive exposures whereby the illusion of ripples or shimmering is imparted to the photographic reproduction of the pictorial representation.

2,314,630
WIRE LINE GRIP
James P. Ratigan, Los Angeles, Calif.
Application August 30, 1941, Serial No. 409,109
6 Claims. (Cl. 24—243)



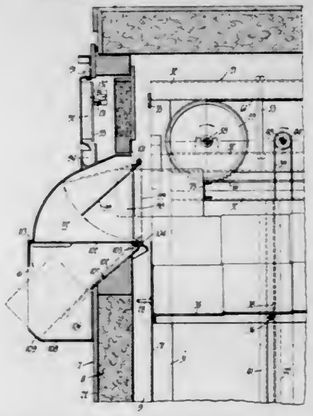
1. In a wire line grip, a pair of complementary members which when assembled together define an eye member having a trunnion receiving opening therethrough, said members each having meeting faces disposed on opposite sides of said opening and in a plane including the axis of said opening, said members being enlarged at one side to define meeting faces at said one side of greater extent than the meeting faces at the other side, said members each having a groove of arcuate cross section formed in said greater meeting faces and extended into said opening to define a cable receiving channel when said members are assembled together, said members having a plurality of spaced ridges of a smoothly curved cross section extending circumferentially of and radially inwards of said grooves, the ridges on one of said members being so disposed as to lie opposite the spaces between adjacent ridges on the other of said members when said members are assembled together, a pair of bolts threadedly interengaging said members at said one side of said opening, said bolts being disposed on opposite sides of said grooves, and another bolt threadedly interengaging said members at the other side of said opening.

2,314,631
CONTAINER
Don Ray, Beverly Hills, Calif., assignor to Arden Farms Co., Los Angeles, Calif., a corporation of Delaware
Application August 21, 1939, Serial No. 291,213
5 Claims. (Cl. 229—14)



1. A container comprising a side wall member having a plurality of panels delineated by score lines extending transversely of said member, the ends of said member being connected together along a transverse line of connection, the longitudinal margins of said member, at the ends of alternate panels, being provided with tongues having outwardly diverging edges extending from said margins, slots cut in intermediate panels, such slots being substantially parallel to the margins of said member and adjacent thereto, and a pair of end portions, each of said portions having a polygonal center field and outstanding locking tangs, said tangs being foldable to overlie marginal portions of the wall panels and extend into said slots in locking engagement therewith to form a polygonal container provided with removable top and bottom, the outwardly diverging edges of said tongues cooperating with said end portions and the adjacent panels to further stabilize the container.

2,314,632
REFRIGERATED DISPENSER
James C. Rear, Berkeley, Calif., assignor to The Union Ice Company, San Francisco, Calif., a corporation of California
Application December 10, 1940, Serial No. 369,373
8 Claims. (Cl. 312—36)

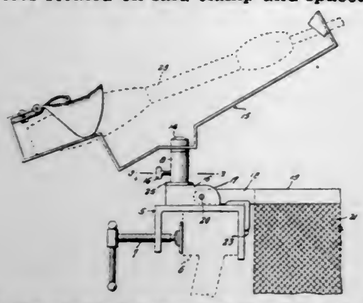


5. A refrigerated dispenser comprising a cabinet having a discharge opening, an elevator platform mounted within said cabinet for rising movement toward said opening and adapted to support a plurality of horizontal tiers of similar packages, a projecting means mounted within said cabinet for advancing movement to push a tier of said packages through said aperture, and means for operating said elevator platform and said projecting means in synchronism whereby said projecting means pushes each tier of said packages through said aperture as said elevator platform lifts the height of each one of said plurality of tiers of said packages.

2,314,633
FISH NET MOUNTING
Arnold T. Riedi, Dubuque, Iowa
Original application July 23, 1940, Serial No. 347,026, now Patent No. 2,289,592, dated July 14, 1942. Divided and this application April 9, 1942, Serial No. 438,337
2 Claims. (Cl. 248—94)

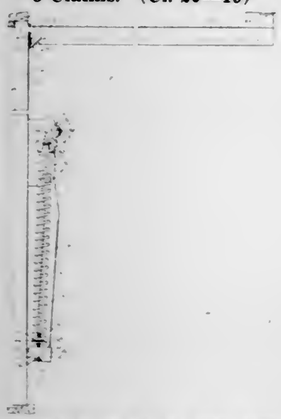
2. In a device of the character described, a U-clamp, a member integral with and rising from said clamp, a cuff journaled on said member and including spaced ears, a fish net including a hoop and a shank integral therewith and received

therebetween and pivoted to said ears, reinforcing ribs formed on said clamp and spaced to re-



ceive the shank for securing the fish net against rotation on the member.

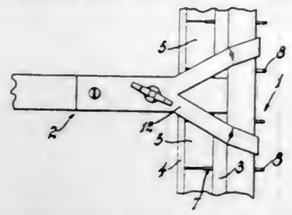
2,314,634
SWING-UP DOOR COUNTERBALANCING MEANS
David Malcolm Robinson, New Britain, Conn., assignor to The Stanley Works, New Britain, Conn., a corporation of Connecticut
Application March 17, 1941, Serial No. 383,879
8 Claims. (Cl. 20—19)



1. A counterbalance for a door movable from a closed vertical position in a doorway to an open horizontal position overhead, said counterbalance including a swinging arm pivotally secured at one end to the door adjacent the lower edge thereof, a fixed bearing bracket pivotally supporting the other end of the arm, an anchor stud transversely movable on the bearing bracket, a coil spring secured and tensioned between the door and the stud so that said stud is automatically moved during a portion of the travel of the door and adjustable means for limiting the movement of the stud through a predetermined portion of the travel of the door.

2,314,635
RAKE
Lonnie A. Seldomridge, Long Beach, Calif.
Application June 16, 1939, Serial No. 279,436
2 Claims. (Cl. 30—304)

1. In a rake head comprising a yieldable front strip, a plurality of juxtapositioned blocks, each block being fixedly attached to the front strip, the abutted faces of the blocks being rabbeted, razor blades mounted between each adjacent pair of blocks, the razor blades each having a heavy shoulder at the back edge, said heavy shoulder fitting into the rabbeted portion of the blocks, said razor blades wedging the blocks apart sufficiently to spring said front strip to slight curva-

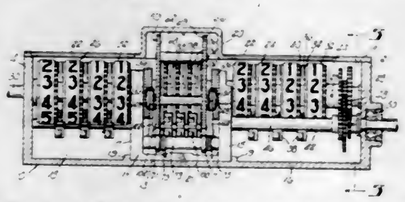


ture, a substantially rigid backing strip, means extending through the backing strip and through the front strip, at each end of the rake head, whereby the front strip is pulled against the backing strip, thereby clamping the razor blades in assembled position.

2,314,636
METHOD OF TRANSFERRING HEAT BY A HEAT EXCHANGE LIQUID
Louis L. Slabkowicz, Ann Arbor, Mich., assignor, by mesne assignments, to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application January 22, 1941, Serial No. 375,455
4 Claims. (Cl. 252—78)

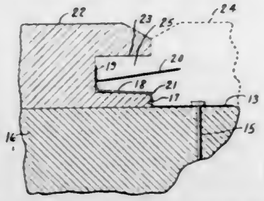
1. In a method of transferring heat by circulating a heat exchange liquid in indirect heat exchange with a body whose temperature is to be regulated, the use of a composition comprising orthodichlorobenzene and from 0.025 per cent to 5 per cent of an alcohol boiling in the temperature range between 165° and 180° C. as said heat exchange liquid.

2,314,637
REGISTER
William L. Tancred, Hartford, Conn., assignor to Veeder-Root Incorporated, Hartford, Conn., a corporation of Connecticut
Application March 1, 1939, Serial No. 259,164
11 Claims. (Cl. 235—1)



1. In a register, rotatable operating means adapted to rotate in forward and reverse directions, a totalizing counter, blind counter means connecting the totalizing counter to said operating means for movement in a forward direction and disconnecting said totalizing means when said operating means moves in a reverse direction, means positively restraining said totalizing counter against reverse movement, and means actuated by the blind counter for restraining said totalizing counter means against forward movement as said operating means returns through the distance of travel equal to the extent of reverse movement.

2,314,638
WALLBOARD FASTENER
Samuel H. Tummins, Houston, Tex.
Application June 16, 1939, Serial No. 279,381
5 Claims. (Cl. 72—118)



1. A wall board fastener comprising a substantially flat base having a nail hole therein and formed with an overturned abutment at one margin, said abutment having a diagonal extension forming a clamp whose free end is overturned at approximately right angles to the plane of the base and an outwardly projecting tang on the overturned free end of the clamp.

2,314,639
CEMENT SACK
Carleton T. West, Tehachapi, and Michael Treshow, West Los Angeles, Calif., assignors to Monolith Portland Cement Company, a corporation of Nevada
Application December 17, 1938, Serial No. 246,404
3 Claims. (Cl. 150—1)



1. A container for transporting cement and the like comprising an open-ended sack; a metal ring secured in the upper end of the sack; a downwardly extending bail secured to said ring; a centrally disposed rod secured to said bail and having a base at its lower end; and means for releasably binding the lower end of the sack about said base.

2,314,640
LUBRICANT PURIFIER
Charles A. Winslow and Laurence L. Moore, Oakland, Calif., assignors to Winslow Engineering Co., Oakland, Calif., a partnership consisting of Charles A. Winslow, Catherine B. Winslow, Laurence L. Moore, and William G. Nostrand
Application February 27, 1939, Serial No. 258,653
8 Claims. (Cl. 210—131)

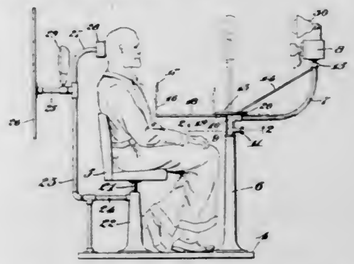


1. A pervious filter element through which fluids may be passed to remove impurities therefrom comprising, a core of fibrous filtering material having an aperture extending therethrough, annular retainer members positioned adjacent the respective ends of said core aperture, a unitary tubular sheath encircling said core in a plurality of continuous toroidal convolutions and passing through said core aperture, and means within said core aperture for holding said sheath in engagement with said annular retainer members.

2,314,641
BRIQUETTE CARBONIZING PROCESS USING MODIFIED TAR OR PITCH BINDERS
Clayton S. Wolf, New Haven, Conn., assignor, by mesne assignments, to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application July 2, 1940, Serial No. 343,554
3 Claims. (Cl. 202—34)

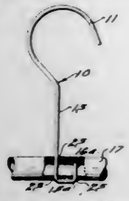
1. A method of making briquettes having increased strength during the coking operation, from swelling bituminous coking coals capable of being compressed into briquettes, using coal tar as a binder and carbonized without undue swelling at a temperature rise through the plastic temperature range of at least 2° C. per minute which comprises forming a briquette of such coal, using from 5 to 10% of the binder comprising a mixture of sulfuric acid with a substance included in the group consisting of coal tars, coal pitches, and mixtures of coal tar and coal pitches, and subjecting said briquette to a carbonization process in which the temperature rise is at least 2° C. per minute through the plastic temperature range, said binder containing from 8 to 15% sulfuric acid.

2,314,642
PORTABLE PHOTOGRAPHING UNIT
Charles B. Worcester, Riverside, Calif.
Application June 23, 1941, Serial No. 399,265
4 Claims. (Cl. 95—82)



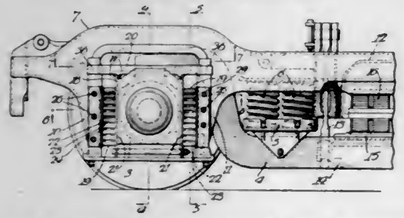
1. In a portable photographing unit, a base, a seat mounted on said base, a standard mounted on said base in fixed spaced relation to said seat, a camera, a mounting for said camera rotatably supported on said standard for movement from a position extending outwardly from said base and with the camera likewise extended into an out-of-the-way position in which the mounting and camera lie over the base between the seat and standard and vice versa, a card holder, a bar for supporting said holder between the camera and a subject of photography and within the photographic range of the camera, and means slidably supporting said bar on said mounting so that said bar and holder will be moved with the turning of the mounting on the standard, and the holder may be moved towards and away from said standard.

2,314,643
GARMENT HANGER
Leonard A. Young, Detroit, Mich.
Original application October 13, 1938, Serial No. 234,754. Divided and this application April 12, 1940, Serial No. 329,396
1 Claim. (Cl. 223—92)



A garment hanger comprising a tubular garment supporting rod of fibrous material having an aperture in its upper face aligned with one of a pair of similarly sized apertures disposed in spaced relationship longitudinally of the said rod in the lower face thereof; and a suspending hook having a shank terminating in a U-shaped portion, one arm of which is situated within the said aligned apertures and the other arm of which extends through the aforesaid non-aligned aperture, whereby the said rod and hook are maintained in locked engagement.

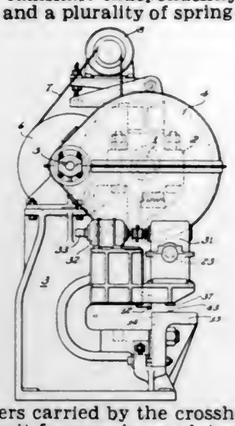
2,314,644
RAILWAY CAR TRUCK
Everett Eugene Adams, Chicago, Ill., and Harry M. Pflager, St. Louis, Mo.
Application July 13, 1940, Serial No. 345,298
11 Claims. (Cl. 105—224.1)



1. In a truck, an axle journal box, a pedestal, and a device between said box and said pedestal providing a resilient connection between said box and said pedestal and providing relative movements of said box and said pedestal, said device comprising a vertical plate adapted to be secured to said box and another vertical plate adapted to be secured to said pedestal, and a series of vertically spaced members between said plates including horizontally disposed metallic elements and rubber elements between said horizontal elements and said plates, said rubber elements being bonded to said metallic elements and to said plates.

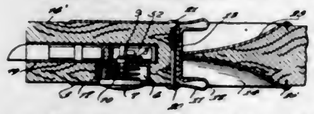
2,314,645
HOLD-DOWN DEVICE
Wentzel R. Duda, Mount Lebanon, Pa.
Application October 4, 1941, Serial No. 413,681
1 Claim. (Cl. 164—55)

A gag for use with a metal working machine having a support for a plate being worked upon, said gag comprising a vertically reciprocable crosshead adapted to be mounted above the support, guides for the crosshead, a camshaft journaled in said guides and operatively connected to the crosshead for reciprocating it, a motor for driving the camshaft independently of the machine drive, and a plurality of spring-biased hold-



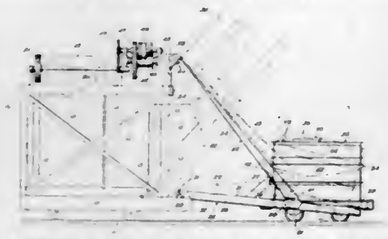
down members carried by the crosshead and projecting below it for pressing a plate down on said support when the crosshead is lowered.

2,314,646
ESCUTCHEON PLATE FOR DOOR LATCHES
Harold Beatson Keats, Vancouver, British Columbia, Canada, assignor of one-half to Frances Gertrude Girdlestone, Vancouver, British Columbia, Canada
Application December 23, 1940, Serial No. 371,424
8 Claims. (Cl. 292—1)



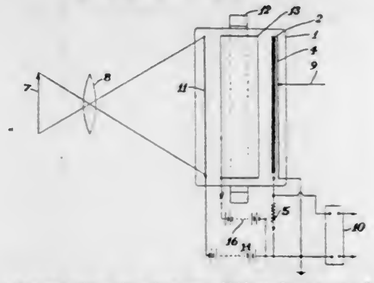
1. The combination with a door latch, of a sheet metal escutcheon plate adapted to be mounted on the door having a lateral extension at one side reversely bent to form a gripping edge, a push button carried by said escutcheon plate, and a socket plate recessed in the door adjacent the gripping edge of said lateral extension, said socket plate extending beneath said gripping edge, said button being mounted at such a distance from the gripping edge that with the fingers of the hand in the socket and beneath said extension the finger button may be pressed by the thumb of the same hand.

2,314,647
BATCH CHARGING APPARATUS FOR CONCRETE MIXERS
Charles I. Longenecker, Wauwatosa, Wis., assignor to Chain Belt Company, Milwaukee, Wis., a corporation of Wisconsin
Application March 5, 1941, Serial No. 381,909
9 Claims. (Cl. 214—130)



1. Apparatus for charging batches of materials into an elevated charging opening of a mixing drum or the like, comprising an arm structure mounted for vertical swinging movements adjacent said charging opening; means for elevating said arm structure; and a mobile batch-carrying vehicle having means sequentially engageable by said arm structure as it is elevated, whereby an initial engagement between the arm and vehicle will produce a tilting of the latter and a subsequent engagement between the two will cause the vehicle to be bodily elevated in a predetermined relationship to the arm and moved to a position to discharge its contents through said charging opening.

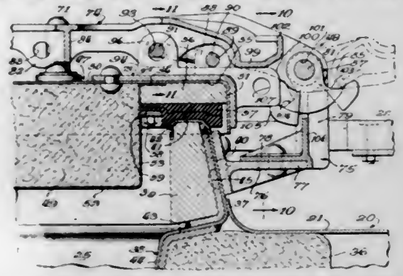
2,314,648
TELEVISION TRANSMITTING AND THE LIKE SYSTEM
Hans Gerhard Lubszynski, Hillingdon, England, assignor to Electric & Musical Industries Limited, Hayes, Middlesex, England, a company of Great Britain
Application September 10, 1936, Serial No. 100,087
In Great Britain September 24, 1935
19 Claims. (Cl. 178—7.2)



1. Apparatus for transmitting images of an object to a distance, said apparatus comprising a mosaic screen of the double sided type having a signal electrode and a large number of mutually insulated elements capacitively associated with said signal plates, means for forming on said mosaic screen an electrostatic image of an object to be transmitted, at least one electrode adapted to collect electrons emitted from said mosaic screen, a photoelectric surface, means to scan optically elemental areas of the photoelectric surface, a predetermined pattern to release electrons therefrom, means to discharge elemental portions of the electrostatic image by the released electrons, and means to produce signal currents in accordance with reduction of the elemental charges.

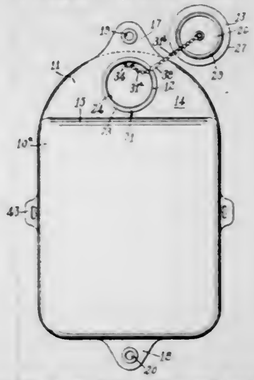
2,314,649
REFRIGERATOR CAR HATCH CLOSURE
John S. Lundvall, Chicago, Ill., assignor to Union Asbestos & Rubber Company, Chicago, Ill., a corporation of Illinois
Application March 10, 1938, Serial No. 195,100
11 Claims. (Cl. 98—7)

1. In a combined latching and supporting mechanism for hinged hatch covers of refrigerator cars, the combination with an apertured lug affixed to and extending outwardly from the free edge of the cover, of an arm swingingly mounted on a fixed support adjacent to the free edge of said cover when said cover is in closed position, said arm being pivoted on an axis parallel to the axis of swinging movement of the cover and swingable into and out of engagement with said lug in a plurality of predetermined opened positions of the cover, said arm being provided with a plurality of apertures extending serially in predetermined spaced relationship longitudinally of said arm, a plurality of spaced apart abutments extending laterally from said arm, each of said abutments being in predetermined spaced relationship with one of said plurality of apertures whereby to supportably hold the free edge of said cover in selective open positions and whereby the



aperture in said lug and the aperture in said arm adjacent the supporting abutment will be in registering alignment when said cover is supported in one of said selective open positions, and a locking pin adapted to be inserted through the apertures of said lever, said locking pin having means whereby it may be sealed against unauthorized access.

2,314,650
ICE BAG
Paul S. Madsen, Bethany, Conn., assignor to The Seamless Rubber Company, New Haven, Conn., a corporation of Connecticut
Application July 5, 1940, Serial No. 344,042
1 Claim. (Cl. 150—2.1)



A bag for therapeutic purposes adapted to hold liquid or pieces of ice, having a body with elastic flexible walls, said body having a shallow main portion extending to one end and a hollow extension at the other end in communication with the main portion but of less depth, the rear wall of said extension being in line with the rear wall of the main portion, the front wall of the extension being substantially parallel to the rear wall thereof but being offset rearwardly with respect to the front wall of the main portion and joined thereto by a rounded wall portion extending across the front face of the bag and providing a rounded shoulder in that region, a relatively short wide filler neck wall extending from the front wall of the extension at the middle portion of the latter, said neck wall having a substantially fixed relation to the walls of the bag and projecting at its forward end slightly beyond the plane of the

front face of the main portion, the rear end of the neck wall being integrally joined to the front wall of the extension around an opening therein which is spaced at some distance from the rear wall of the bag to permit the introduction of ice pieces, a reinforcing and stiffening member having spaced inner and outer walls between which substantially the entire filler neck wall is confined, and a filler cap engaged with said reinforcing and stiffening member to close the mouth of the filler neck.

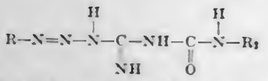
2,314,651
WHEEL SHROUD FASTENER
Arthur Claud-Mantle, Trumbull, Conn., assignor to The Bassick Company, Bridgeport, Conn., a corporation of Connecticut
Application June 20, 1941, Serial No. 398,943
9 Claims. (Cl. 292—214)



3. In a latching mechanism for a panel in which a torsion rod is employed having an intermediate bent crank portion at the rear of the panel, actuating means for the rod comprising a stud member mounted behind the panel for rotation on an axis parallel to the general plane of the panel and operably connected to said crank portion, said stud member projecting beyond one edge of the panel so as to be accessible for manipulation.

2,314,652
STABILIZED ICE COLOR COMPOSITION CONTAINING GUANYLUREA
Paul P. McClellan, Old Greenwich, and Walter P. Ericks, Cos Cob, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application August 30, 1941, Serial No. 409,063
6 Claims. (Cl. 8—45)

1. A color producing composition of matter which comprises an ice color coupling component and a stabilized diazo compound having the formula:



in which R is the nucleus of an ice color diazo component of the benzene series and R_2 is selected from the group consisting of an alkylol and an alkoxyalkylol group.

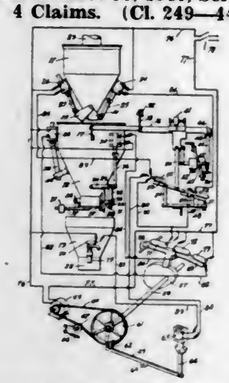
2,314,653
REVERSIBLE VALVE
William John McDevitt, Toronto, Ontario, Canada
Application October 17, 1942, Serial No. 462,426
In Canada July 15, 1941
1 Claim. (Cl. 251—159)

A reversible valve for a tap stem, said valve comprising a one-piece member of moulded rubber or comparable material having a cylindrical body portion with beveled edges providing faces, either of which may be utilized as a seating surface, and having a tapered projection axially extending from each face, the taper functioning to enable either projection to be wedged in the tap stem to secure said member thereto while the other projection serves as a guide, said mem-



ber being of symmetrical construction about a plane at right angles to its axis and suited to be reversed when the side in service becomes worn.

2,314,654
AUTOMATIC WEIGHING MACHINE
John D. Merrifield, Rocky Ford, Colo.
Application December 30, 1940, Serial No. 372,245
4 Claims. (Cl. 249—44)



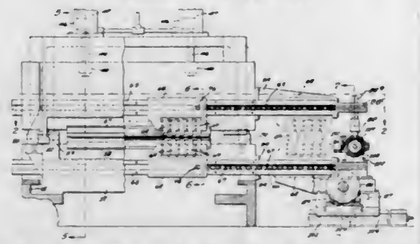
1. An automatic weighing machine having a filling hopper, a main gate and a dribble gate controlling the discharge from said hopper, a weighing bucket, a dump gate controlling the discharge from said bucket, a scale beam pivotally supported intermediate its extremities and supporting said bucket from one of its extremities, and an automatic sequence device comprising: a rotary shaft; a cam secured on said shaft; driving means for said shaft; a cam follower positioned to be tilted by the contact of said cam thereagainst; a plurality of control mechanisms carried by said follower to operate said gates in predetermined sequence; an additional control mechanism operable from said cam to stop the rotation of said shaft after said sequence is completed; and means operable from said scale beam for preventing operation of said clutch device except when the weight of the contents of the weighing bucket is sufficient to tilt said beam.

2,314,655
MULTIPLE TORPEDO
Martin L. Monies, Lafayette, La.
Application March 31, 1942, Serial No. 437,082
1 Claim. (Cl. 114—21)



A triple torpedo assembly adapted for discharge simultaneously from triple torpedo tubes and comprising a middle torpedo, and right and left hand torpedoes, respectively, and means to yieldingly couple said pair of torpedoes to opposite sides of the middle torpedo, respectively, for travel of said pair in divergent paths relative to the path of travel of the middle torpedo, said means comprising a pair of drums rotatably mounted on said pair of torpedoes, respectively, flexible elements wound on said drums and connected to said opposite sides of the middle torpedo and adapted to be unwound under pull exerted thereon from said drums, and devices in said drums for yieldingly opposing rotation thereof in directions to unwind said elements and in variable degree under pull in varied degree on said flexible elements, said devices comprising ratchet teeth, and helical springs provided with tooth dogging ends.

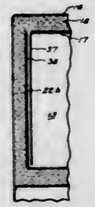
2,314,656
WELDING AND FLASH REMOVING MACHINE
Henry Earl Morton, Muskegon Heights, Mich.
Application October 17, 1940, Serial No. 361,487
6 Claims. (Cl. 90—33)



1. In apparatus of the character described, supporting means for sheet metal, a pair of horizontally spaced vertically movable clamping members to hold a pair of metallic sheets to be welded together with edges thereof in opposed relation between said spaced clamping members, said clamping members having abutment surfaces for engaging the metallic sheets respectively, means for moving one of said pair of clamping members a limited distance toward the other and in spaced relation thereto, guide means on one of said clamping members, a movable carrier slidably guided by said guide means, a plurality of spaced cutters carried by said carrier, means for individually adjusting the cutters with respect to the abutment surfaces of said clamping members and said cutters being further guided between the clamping members and in contactual engagement therewith.

2,314,657
REFRIGERATOR
Rollin H. Norris, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application January 26, 1940, Serial No. 315,796
10 Claims. (Cl. 220—9)

1. In a refrigerator wall construction of the type comprising inner and outer spaced-apart shells of substantially impervious material and having heat insulating material disposed between said shells, a breaker strip connecting together said edges of said shells and defining a door opening, and a door for closing said opening, said inner shell defining a storage compartment, means for minimizing the amount of moisture carried into the insulating material by air forced from said storage compartment into the space between said shells during periods of breathing, said means comprising a chamber disposed between said shells and which is free of insulation, said chamber including walls formed of a substantially impervious material and communicating only with the interior of said storage compartment and said space between said shells, respectively, at separated points, the distance between said points being sufficiently great that moisture in the air entering said chamber dif-



fuses out through the point of communication with said storage compartment before air passing through said chamber attains the dew point, and means effective to maintain moisture condensing in said chamber out of said insulating material.

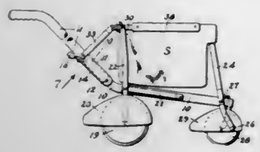
2,314,658
PROCESS OF PREPARING WOOD PULP
Fredrich Olsen, East Alton, Ill., assignor to The Cellulose Research Corporation, East Alton, Ill., a corporation of Delaware
No Drawing. Application January 20, 1939, Serial No. 252,042
2 Claims. (Cl. 92—16)

1. The process of preparing a homogeneous highly permeable derivative wood pulp having an alpha cellulose content greater than 98 percent and a soda solubility of less than 4 percent which comprises gradually removing the non-cellulosic content from wood by preparing an alkaline digested unbleached pulp having the non-cellulosic content uniformly distributed throughout the fibers by first boiling wood subdivisions in an alkaline delignifying liquor until the air is removed from the woody interstices and then heating said subdivisions submerged in said alkaline liquor to form a completely defiberable pulp, chlorinating said alkaline digested pulp with an amount of chlorine in the form of chlorine water only sufficient to react with the lignin content of the pulp, washing the pulp with water and thereafter gradually increasing the alpha cellulose content and decreasing the soda soluble content of the fiber by subjecting the chlorinated pulp to a succession of chemical refining treatments in an alkaline medium including treatment with an alkaline solution of less than 7 percent concentration, treatment with hypochlorite solution at a pH maintained greater than 7.0 for a time and at a temperature sufficient to control and lower the cellulose viscosity to the desired value, treatment with a caustic soda solution of 5 percent to 9 percent concentration to remove non-cellulosic impurities, bleaching to whiteness with a dilute hypochlorite solution at a pH maintained greater than 7.0, and treatment with a 10 percent to 18 percent solution of caustic soda under mercerizing conditions, each of said chemical refining treatments being followed by a thorough water washing treatment.

2,314,659
FOLDING PUSHCART FOR BABIES
Arnold E. Peterson, Burbank, Calif.
Application December 9, 1940, Serial No. 369,270
5 Claims. (Cl. 280—41)

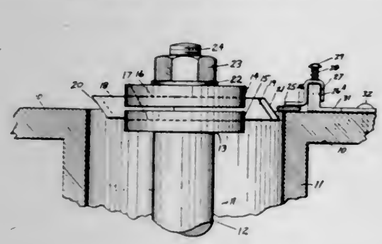
1. A folding push cart of the character shown and described which includes a median combination backbone and handle with hinge joint there-

between, wheel supporting means at the opposite sides of said backbone, wheels on the outer ends thereof, a supporting member at the front end of said backbone and having its lower end arched and terminating in foot rests at opposite sides of the arched portion, a seat for a child consisting of a top band supported above said



backbone and having a fabric seat suspended therefrom with openings for the legs of a child, said top band being hingedly supported to fold flatwise against said handle, when said backbone and said handle are folded together, and means connected with said seat for causing it to fold as said backbone and handle are folded.

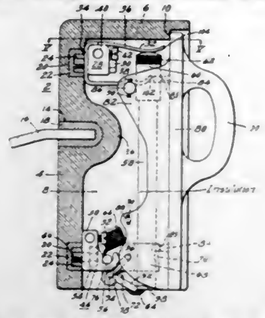
2,314,660
SHAPER
Earl B. Peterman, Canfield, Ohio
Application September 6, 1941, Serial No. 409,869
1 Claim. (Cl. 144—134)



In a device of the class described comprising a table having an opening formed therein and means adjacent the opening adapted to retain a fiber strip in position adjacent the said opening, a revolvable shaper positioned partially within the said opening, said shaper comprising a pair of head members having oppositely disposed channels formed therein and work engaging tools positioned in the said channels each of the said work engaging tools projecting from opposite sides of the said channels and each of the said work engaging tools beveled in oppositely disposed bevels so that the fiber strip may be engaged alternately upon upper and lower surfaces thereof by the said work engaging tools.

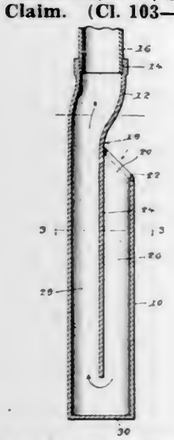
2,314,661
CIRCUIT INTERRUPTER
Herbert L. Rawlins, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 21, 1939, Serial No. 310,403
16 Claims. (Cl. 200—114)

10. In a fuse cutout, a door for a cutout housing having spaced, substantially parallel flanges extending substantially laterally from the inner side thereof for supporting a fuse holder therebetween, and detachable means connecting portions of said flanges spaced from said door for



preventing movement of said fuse holder from the space between said flanges.

2,314,662
SAND ELIMINATOR
Nels Schedin, Milaca, Minn.; Frances Schedin administrator of said Nels Schedin, deceased
Application October 13, 1941, Serial No. 414,841
1 Claim. (Cl. 103—220)

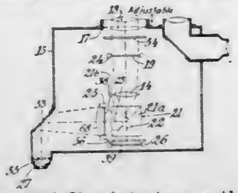


A sand eliminator for connection with the water inlet end of a pump suction pipe comprising a one piece tubular member closed at its bottom end and having a connection at its upper end for attachment to the pump suction pipe, said tubular member having a neck constricted at one side to project approximately half the diameter of said member laterally of said neck, said member being provided with a partition constituting a continuation of one side of said neck at the constricted side thereof to divide the member into a downwardly flowing passage and an upwardly flowing passage, the portion of the member projecting beyond said neck having an inlet opening in its upper end, and a grill extending across said inlet opening.

2,314,663
METHOD OF PRODUCING COMPOSITE PHOTOGRAPHS
Otto John Lauro Seaman, Encino, Calif.
Original application December 23, 1937, Serial No. 181,251. Divided and this application December 17, 1940, Serial No. 370,437
5 Claims. (Cl. 88—16)

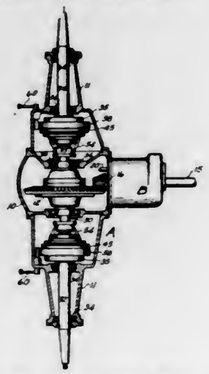
1. The process of producing a composite photo-

graph by inserting an action scene into a separately photographed background scene which comprises the steps of simultaneously exposing a pair of films to an action scene presented with relation to a non-actinic background, developing one of said films without developing the other, placing the developed film in the plane of an image of the desired background scene, dividing the light passing through the background image



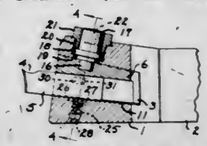
and the developed film into two paths, using one of such paths for viewing the developed action image with relation to the background image so that the relative proportions therebetween may be adjusted, and then using the other of the paths for exposing the undeveloped film to the background scene so that the image of the action scene on the said developed film will exactly mask the latent image on the undeveloped film.

2,314,664
TRANSMISSION MECHANISM
Osborne H. Shenstone, Toronto, Ontario, Canada, assignor to Massey-Harris Company Ltd., Toronto, Ontario, Canada, a corporation of Canada
Application November 2, 1939, Serial No. 302,528
1 Claim. (Cl. 180—17)



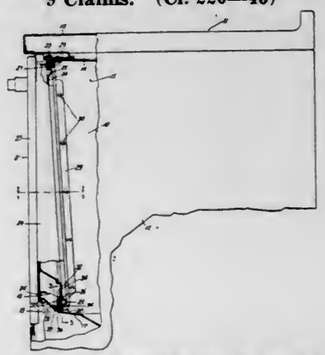
A tractor of the class described, comprising a rear axle housing having a differential and stub shafts operatively connected to opposite sides thereof, axles rotatably mounted in said housing in axial alignment with said stub shafts, transmissions forming operating connections between said stub shafts and axles, said transmissions comprising pinions mounted near the outer ends of said stub shafts, hubs secured to the inner ends of said axles each having a number of spaced pinions rotatably mounted thereon and adapted to operatively engage said first pinions, internal gear members adapted to operatively engage the outer edges of said hub pinions and being rotatably mounted on said stub shafts adjacent said first pinions, clutch members keyed to said stub shafts and adapted to engage said internal gear members, braking means mounted on the rear axle housing adapted to engage said internal gear members, means for manually engaging said clutches and braking means individually, in optional pairs, or in optional combinations, the outer ends of said stub shafts being rotatably mounted in said hubs.

2,314,665
TOOL HOLDER
Herman C. Specht, Houston, Tex.
Application September 16, 1940, Serial No. 356,927
3 Claims. (Cl. 29—100)



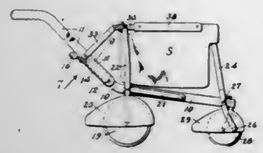
1. In a combination, a body having an inwardly tapering rectangular opening therein, an L-shaped wedge block within said opening, a cam groove in said wedge block, a passage through the wall of the body from said opening, there being an outwardly facing shoulder in said passage, a cylindrical cam member in said passage, a flange on said member adapted to engage the shoulder in the passage, a collar surrounding the cam member and threadably secured within the passage, an eccentric projection on the inner end of the cam member extending into said groove, means resiliently urging the wedge block towards said cam member and a stop pin in the wall of the body for limiting the outward movement of the wedge block by the cam member.

2,314,666
WASHING APPARATUS
Edgar S. Stoddard, Berwyn, Ill., assignor to Edison General Electric Appliance Company, Inc., Chicago, Ill., a corporation of New York
Application February 27, 1941, Serial No. 380,852
9 Claims. (Cl. 220—46)



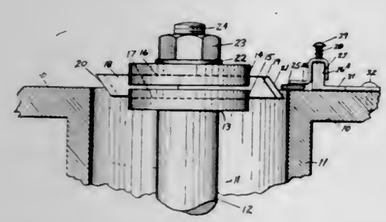
1. In a washing apparatus, a vat forming a washing chamber having a front opening therein, a door for closing said opening, hinge means mounting said door for swinging movement from a vertical closed position to a horizontal open position on a fixed axis at the lower edge of said door, the bottom of said door extending inwardly and downwardly into said vat when the door is in its vertical closed position, and a gasket mounted on said door positioned forwardly of the inner surface of said door constructed and arranged to engage a part of said vat under said front opening so as to form a seal and thereby prevent leakage along the bottom of the door when the door is in said vertical closed position, and so that it offers no obstruction as said door is being moved

between, wheel supporting means at the opposite sides of said backbone, wheels on the outer ends thereof, a supporting member at the front end of said backbone and having its lower end arched and terminating in foot rests at opposite sides of the arched portion, a seat for a child consisting of a top band supported above said



backbone and having a fabric seat suspended therefrom with openings for the legs of a child, said top band being hingedly supported to fold flatwise against said handle, when said backbone and said handle are folded together, and means connected with said seat for causing it to fold as said backbone and handle are folded.

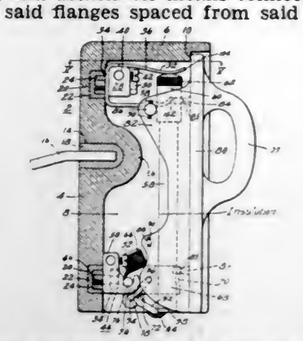
2,314,660
SHAPER
Earl B. Peterman, Canfield, Ohio
Application September 6, 1941, Serial No. 409,869
1 Claim. (Cl. 144—134)



In a device of the class described comprising a table having an opening formed therein and means adjacent the opening adapted to retain a fiber strip in position adjacent the said opening, a revolvable shaper positioned partially within the said opening, said shaper comprising a pair of head members having oppositely disposed channels formed therein and work engaging tools positioned in the said channels each of the said work engaging tools projecting from opposite sides of the said channels and each of the said work engaging tools beveled in oppositely disposed bevels so that the fiber strip may be engaged alternately upon upper and lower surfaces thereof by the said work engaging tools.

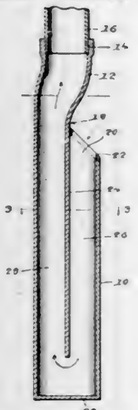
2,314,661
CIRCUIT INTERRUPTER
Herbert L. Rawlins, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 21, 1939, Serial No. 310,403
16 Claims. (Cl. 200—114)

10. In a fuse cutout, a door for a cutout housing having spaced, substantially parallel flanges extending substantially laterally from the inner side thereof for supporting a fuse holder therebetween, and detachable means connecting portions of said flanges spaced from said door for



preventing movement of said fuse holder from the space between said flanges.

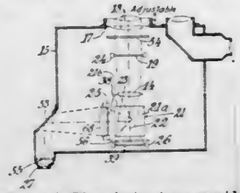
2,314,662
SAND ELIMINATOR
Nels Schedin, Milaca, Minn.; Frances Schedin administrator of said Nels Schedin, deceased
Application October 13, 1941, Serial No. 414,841
1 Claim. (Cl. 103—220)



A sand eliminator for connection with the water inlet end of a pump suction pipe comprising a one piece tubular member closed at its bottom end and having a connection at its upper end for attachment to the pump suction pipe, said tubular member having a neck constricted at one side to project approximately half the diameter of said member laterally of said neck, said member being provided with a partition constituting a continuation of one side of said neck at the constricted side thereof to divide the member into a downwardly flowing passage and an upwardly flowing passage, the portion of the member projecting beyond said neck having an inlet opening in its upper end, and a grill extending across said inlet opening.

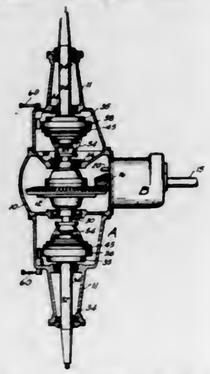
2,314,663
METHOD OF PRODUCING COMPOSITE PHOTOGRAPHS
Otto John Lauro Seaman, Encino, Calif.
Original application December 23, 1937, Serial No. 181,251. Divided and this application December 17, 1940, Serial No. 370,437
5 Claims. (Cl. 88—16)

1. The process of producing a composite photograph by inserting an action scene into a separately photographed background scene which comprises the steps of simultaneously exposing a pair of films to an action scene presented with relation to a non-actinic background, developing one of said films without developing the other, placing the developed film in the plane of an image of the desired background scene, dividing the light passing through the background image



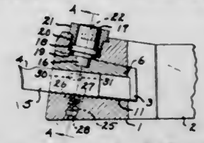
and the developed film into two paths, using one of such paths for viewing the developed action image with relation to the background image so that the relative proportions therebetween may be adjusted, and then using the other of the paths for exposing the undeveloped film to the background scene so that the image of the action scene on the said developed film will exactly mask the latent image on the undeveloped film.

2,314,664
TRANSMISSION MECHANISM
Osborne H. Shenstone, Toronto, Ontario, Canada, assignor to Massey-Harris Company Ltd., Toronto, Ontario, Canada, a corporation of Canada
Application November 2, 1939, Serial No. 302,528
1 Claim. (Cl. 180—17)



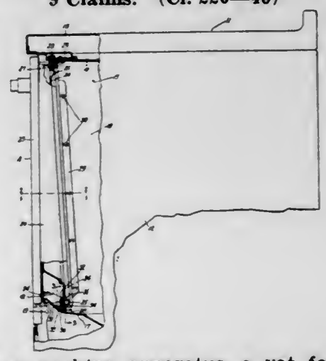
A tractor of the class described, comprising a rear axle housing having a differential and stub shafts operatively connected to opposite sides thereof, axles rotatably mounted in said housing in axial alignment with said stub shafts, transmissions forming operating connections between said stub shafts and axles, said transmissions comprising pinions mounted near the outer ends of said stub shafts, hubs secured to the inner ends of said axles each having a number of spaced pinions rotatably mounted thereon and adapted to operatively engage said first pinions, internal gear members adapted to operatively engage the outer edges of said hub pinions and being rotatably mounted on said stub shafts adjacent said first pinions, clutch members keyed to said stub shafts and adapted to engage said internal gear members, braking means mounted on the rear axle housing adapted to engage said internal gear members, means for manually engaging said clutches and braking means individually, in optional pairs, or in optional combinations, the outer ends of said stub shafts being rotatably mounted in said hubs.

2,314,665
TOOL HOLDER
Herman C. Specht, Houston, Tex.
Application September 16, 1940, Serial No. 356,927
3 Claims. (Cl. 29—100)



1. In a combination, a body having an inwardly tapering rectangular opening therein, an L-shaped wedge block within said opening, a cam groove in said wedge block, a passage through the wall of the body from said opening, there being an outwardly facing shoulder in said passage, a cylindrical cam member in said passage, a flange on said member adapted to engage the shoulder in the passage, a collar surrounding the cam member and threadably secured within the passage, an eccentric projection on the inner end of the cam member extending into said groove, means resiliently urging the wedge block towards said cam member and a stop pin in the wall of the body for limiting the outward movement of the wedge block by the cam member.

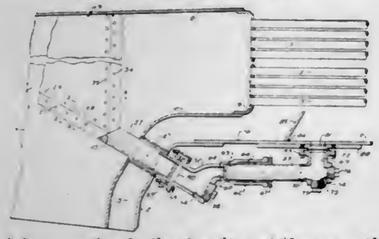
2,314,666
WASHING APPARATUS
Edgar S. Stoddard, Berwyn, Ill., assignor to Edison General Electric Appliance Company, Inc., Chicago, Ill., a corporation of New York
Application February 27, 1941, Serial No. 380,852
9 Claims. (Cl. 220—46)



1. In a washing apparatus, a vat forming a washing chamber having a front opening therein, a door for closing said opening, hinge means mounting said door for swinging movement from a vertical closed position to a horizontal open position on a fixed axis at the lower edge of said door, the bottom of said door extending inwardly and downwardly into said vat when the door is in its vertical closed position, and a gasket mounted on said door positioned forwardly of the inner surface of said door constructed and arranged to engage a part of said vat under said front opening so as to form a seal and thereby prevent leakage along the bottom of the door when the door is in said vertical closed position, and so that it offers no obstruction as said door is being moved

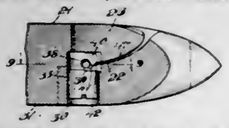
to its vertical closed position, to the discharge of drippings from said inner surface that collect thereon when the door is in a horizontal position.

2,314,667
CIRCULATING UNIT
Lewis H. Smith, Cleveland, Ohio, assignor to H. H. Pinney, Shaker Heights, Ohio
Application May 9, 1940, Serial No. 334,225
4 Claims. (Cl. 122—68)



4. A locomotive boiler having at the rear thereof a firebox and including a water leg having an intake opening disposed to induce a substantially horizontal flow of liquid thereinto by thermal syphonic action in combination with a water steaming and circulating element discharging into the upper water space of said boiler, an intake conduit communicating with said element and with said boiler at a point forwardly of the water-leg intake and below and transversely of the normal path of fluid flow into said water-leg intake so that said leg intake and said intake conduit would normally interfere with the thermal syphonic action of each other, and a transverse baffle interposed between said point and said water leg intake and projecting into the path of fluid flowing thereinto whereby said leg and said conduit are both provided with an adequate supply of water.

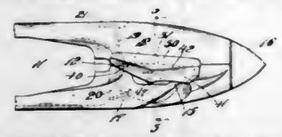
2,314,668
SHUTTLE
Evariste E. Talbot, Fall River, Mass.
Application March 10, 1941, Serial No. 382,469
5 Claims. (Cl. 139—222)



1. In a shuttle having top and bottom surfaces, a bobbin chamber and a throat portion at one end, an opening through the stock of the shuttle at the throat portion for the passage of the thread and a threading slot provided in the shuttle extending to the top and side surfaces thereof for leading the thread into said opening, said slot extending inwardly from the surface of the shuttle at an acute angle to the axis of the shuttle to provide an overhanging portion of the stock, and a center post of a fragile material in the body of the shuttle and extending into the overhanging portion of the stock of the shuttle, said overhanging portion being provided with a recess to receive said post, and said recess being of such a size as to cause said overhanging portion to be completely out of contact with said post.

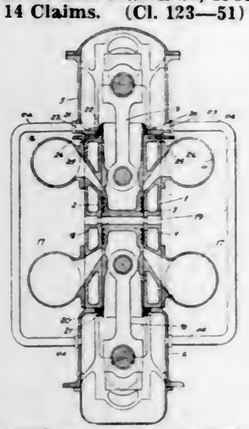
2,314,669
SHUTTLE
Evariste E. Talbot, Fall River, Mass.
Application October 16, 1941, Serial No. 415,244
5 Claims. (Cl. 139—223)

1. A loom shuttle provided with a bobbin chamber and a threading groove extending forwardly from the chamber, a metal plate supported at one side of the groove and extending laterally across said groove from one wall thereof into overlying relation with the other wall



thereof, a rib at the forward end portion of said plate tapered by being reduced in thickness toward the overlying free edge of the plate and provided with a notch therein to catch a laterally moving thread.

2,314,670
INTERNAL COMBUSTION ENGINE
Edvin Ossian Parcival Thege, Stockholm, Sweden, assignor to Aktiebolaget Atlas Diesel, Stockholm, Sweden
Application February 21, 1941, Serial No. 379,947
In Sweden March 21, 1940
14 Claims. (Cl. 123—51)

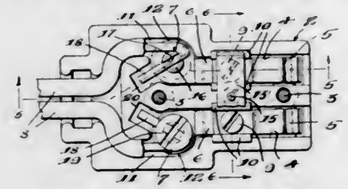


5. An internal combustion engine, comprising a substantially vertically mounted cylinder, a trunk piston movable in said cylinder, piston rings at the lower part of said piston, a crank casing at the top of said cylinder, a crank shaft mounted in said crank casing and in operative connection with said piston, a packing-box at the upper end of said cylinder, and a packing-box in the cylinder at a place below the upper end thereof, the piston motion being so made with respect to the length of stroke and the diameter and the length of the piston that the latter always, even in its lower end position, project above the cylinder and has its overflow in permanent communication with an outlet.

2,314,671
ELECTRICAL APPLIANCE PLUG
Luigi Vecchio, Syracuse, N. Y.
Application January 26, 1942, Serial No. 428,186
1 Claim. (Cl. 173—332)

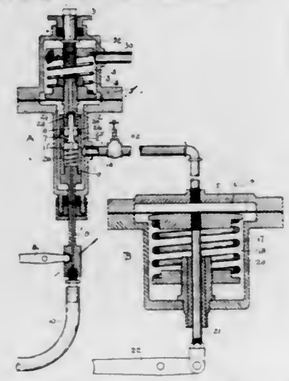
An electric appliance plug comprising a body of insulation split lengthwise thereof providing upper and lower sections, a pair of passages extending lengthwise of said body, said passages extending partially into the upper section and partially into the lower section, a conductor bar arranged in each of said passages, a spring clip for

coacting with a terminal prong of an electric appliance fixed to one end of said conductor bar, a terminal at the other end of said bar for connection to an entrance wire of said plug, and means for removably attaching said conductor bars to one of said body sections comprising a



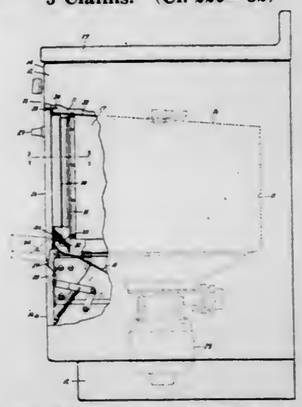
bar of insulating material having each end thereof extending across one of said conductor bars, a screw extending through said body section and threading into said bar of insulation, and a recess formed in the other body section for said bar of insulation.

2,314,672
FEED WATER REGULATOR
Vincent V. Veenschoten, Erie, Pa., assignor to Northern Equipment Company, Erie, Pa., a corporation of Pennsylvania
Original application February 3, 1937, Serial No. 123,808. Divided and this application August 4, 1939, Serial No. 288,337
4 Claims. (Cl. 122—451.1)



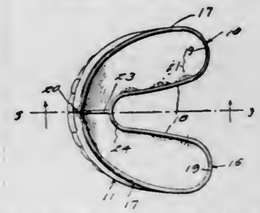
1. A boiler feed water regulator comprising a feed water valve for the boiler, a fluid pressure motor operatively connected to the valve, means for transmitting fluid under variable pressure to the motor comprising a casing having a fluid chamber therein, a fluid inlet tube slidably mounted in one wall of the chamber, the opposite wall being resiliently yielding, a fluid outlet tube fixed in the yielding wall, the inner ends of the tubes being slidably telescoped, each tube providing a valve seat, a double ended valve element normally engaging each of said valve seats, the valve element in co-operation with the inlet tube providing a fluid inlet valve and in co-operation with the outlet tube providing a fluid outlet valve, means movably responsive to water level variations in the boiler operatively connected to the inlet tube whereby inward movement of the inlet tube in the wall will open the inlet valve and outward movement will open the outlet valve to vary the fluid pressure in the chamber, and both the inlet and outlet valve being adapted to close responsive to variation in chamber fluid pressure caused by opening either of said valves whereby the fluid pressure in the motor and resultant feed water valve movement will correspond to the position of the inlet tube.

2,314,673
WASHING APPARATUS
Forrest A. Walker, Oak Park, Ill., assignor to Edison General Electric Appliance Company, Inc., Chicago, Ill., a corporation of New York
Original application August 27, 1937, Serial No. 161,257. Divided and this application March 13, 1941, Serial No. 383,076
5 Claims. (Cl. 220—32)



1. In dishwashing apparatus, a vat forming a washing chamber having a front opening therein, a door for closing said opening, hinge means mounting said door for swinging movement from a vertical closed position to a horizontal open position on a fixed axis adjacent the lower edge of said door, a lip on said vat substantially parallel to said axis projecting downwardly into said vat and extending across the lower edge of the front opening thereof from one side to the other, and a lip on said door substantially parallel to said axis extending crosswise of the door from side to side, said second named lip curving inwardly and downwardly into said vat above said first lip when said door is closed so that a portion thereof lies close to but spaced from the inner end of said first lip, and said second lip being relatively elongated so that it will overlie at least a part of said first lip substantially throughout the full movement of said door between its fully open and fully closed positions.

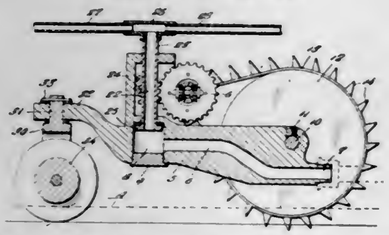
2,314,674
DENTURE
Ulysses S. Walton, Memphis, Tenn.
Application November 4, 1941, Serial No. 417,830
1 Claim. (Cl. 32—2)



A denture comprising a tray-like body formed of initially plastic material, a moldable metallic reinforcing member molded around the marginal

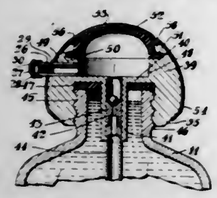
edges of said body, and a plurality of anchoring loops fixed to said member and embedded in said body.

2,314,675
LAWN SPRINKLER
John H. Wilson, North Platte, Nebr., assignor to Automotive Sprinkler Company, North Platte, Nebr.
Application September 6, 1941, Serial No. 409,888
2 Claims. (Cl. 299—50)



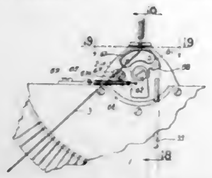
1. A sprinkler machine comprising a body, a pair of traction wheels, traction belts disposed over the wheels, a conduit for water under pressure, a vertically disposed and rotary hollow shaft in communication with the conduit, sprinkler arms projecting from the upper end of the shaft, drive means between the shaft and the traction belts, said drive means consisting of a differential gear mechanism including a ring gear and a worm on the shaft meshing with the ring gear, and a pair of differential connected shafts each provided with a roll over which one of said belts is trained.

2,314,676
DISPENSING CLOSURE FOR CONTAINERS
Ralph W. Wilson, New York, N. Y.
Application April 3, 1940, Serial No. 327,566
2 Claims. (Cl. 299—97)



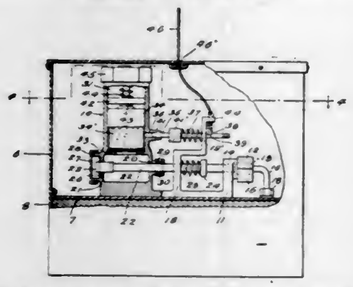
2. A dispensing closure for liquid containers having a threaded neck comprising a threaded cap adapted to be screwed on the neck of a container, said cap having an upwardly open, cylindrical cavity formed therein, terminating in an annular recess formed in the upper face of the cap, a flexible air compressor element having a laterally extending flange at the bottom thereof which is adapted to be snugly received in said recess in the cap, a cover member seated on top of said air compressor element and having a lip formed about the rim thereof, a retaining flange engaging said cap member and overlying the lip on the cover member for retaining the air compressor element and cap in operative relationship, a discharge nozzle in the cap providing a restricted communication between said cavity and the atmosphere, a conduit connected with said tube in the cap and having its lower end immersed in the liquid in the container, and check valve means operatively associated with said conduit for permitting the passage of fluid only from the container to the cavity in the cap.

2,314,677
COMPENSATING TYPE-BAR BUFFER FOR TYPEWRITERS
Homer W. Young, Springfield, Mo.
Application August 22, 1940, Serial No. 353,628
28 Claims. (Cl. 197—183)



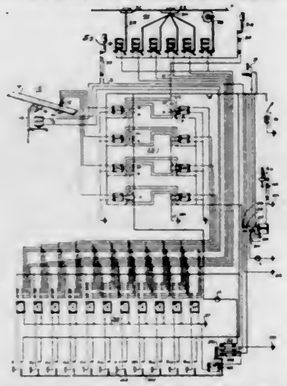
25. In a typewriter having front strike type-bars, a variable type-bar interceptor comprising a movable abutment member; a resilient shock absorbing device positioned forwardly of said abutment member and adapted to be struck by the type-bars, said movable member being adapted to provide abuttal support for said resilient device when the latter is struck by the type-bars whereby arrestment of the type-bars is afforded, said movable abutment member being adapted to be moved to positions affording varying degrees of type-bar arrestment to said resilient device; resilient means for urging said movable member from a position affording maximum type-bar arrestment to said resilient device toward a position affording minimum type-bar arrestment to said resilient device; a releasable support for holding said movable member in a position affording maximum type-bar arrestment to said resilient device and means for releasing said support when any one of the type-bars reaches a predetermined position in its forward stroke and for operating said support to move said movable member into a position affording maximum type-bar arrestment to said resilient device as said type-bar recedes from the resilient device on its backward stroke.

2,314,678
BOMB OR SIMILAR DEVICE
George Zint, Wapakoneta, Ohio
Application October 21, 1941, Serial No. 415,962
5 Claims. (Cl. 102—2)



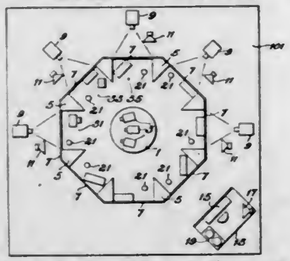
1. In a bomb or similar device having a detonator and a spring-actuated firing pin for said detonator, a link alined with said firing pin, said link being anchored at one end and having its other end directly connected to said firing pin to hold the latter against operation, a chamber containing at least a portion of said link, an acid for eating said link to release said firing pin, a frangible container containing said acid and mounted in position to spill said acid into said chamber when broken, and means for breaking said frangible container.

2,314,679
DUPLICATION VERIFICATION APPARATUS
William J. A. Bailey, Packanack Lake, N. J., and Hugo Panissidi, Jamaica, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application July 23, 1942, Serial No. 452,096
13 Claims. (Cl. 164—115)



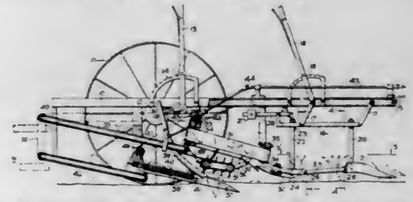
1. In an apparatus of the character described, a circuit making and breaking device comprising a pair of magnets, a normally closed contact for each magnet operable upon energization of the magnet to become opened and a circuit under the control of said magnets leading through the pair of contacts in series.

2,314,680
TELEVISION SYSTEM
Cecil N. Batsel, Camden, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application January 10, 1941, Serial No. 373,874
1 Claim. (Cl. 178—7.1)



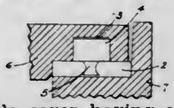
A television transmitting system comprising a centrally positioned platform arrangement, a plurality of television cameras carried upon said platform, a plurality of stages each representing scenes to be televised, said stages being positioned substantially adjacent to each other in annular arrangement and arranged to surround the said platform so that each of the stages is located substantially equi-distant from the center of said platform, means to rotate the annular stage members relative to the circular platform and the television cameras carried thereby to bring each of the plurality of stages successively in register with the television cameras by relative movement of the stages and the platform, a back-drop screen located substantially adjacent the outer boundary of the annular stage elements and in the path of view of the television cameras, means for projecting background images upon said back-drop to provide backgrounds for the scenes televised on the stages, means for providing auxiliary sound effects for the stages in register with the cameras, means to transmit the combined picture and sound effects from each one of the selected stages and means to limit instantaneously the picture transmission to the view seen by any one of the several television cameras.

2,314,681
BEET TOPPER AND DIGGER
Lester A. Beatty, Keenesburg, Colo.
Application February 16, 1942, Serial No. 431,006
11 Claims. (Cl. 55—107)



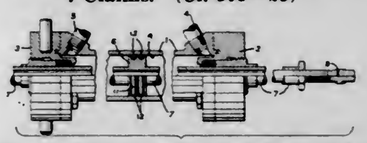
1. A beet topping device for beet harvesters comprising: a pair of vertically adjustable, spaced-apart, foliage-lifting members for lifting the foliage at each side of the beets; a link member hinged to each foliage-lifting member and extending rearwardly therefrom; a beet engaging runner hinged to the rear extremity of each of said link members, said runners being free to rise and fall in accord with the height of the beets in the ground; and coacting topping knives carried by said runners and positioned to top the beets passing therebetween.

2,314,682
COVER
Alan L. Becket, East Orange, N. J.
Application February 24, 1939, Serial No. 258,151
13 Claims. (Cl. 94—34)



2. A manhole cover having a set back recess in the lower peripheral edge thereof, a gasket anchored within said recess and completely filling said undercut recess.

2,314,683
PISTON SEALING ASSEMBLY
Mitchell M. Berry, Seattle, Wash., assignor to Boeing Aircraft Company, Seattle, Wash., a corporation of Washington
Application March 3, 1941, Serial No. 381,467
7 Claims. (Cl. 309—23)



1. In combination with a cylinder and a circumferentially grooved piston guided for axial movement therein, sealing means in said groove comprising a ring of resilient, deformable, but substantially non-compressible material of circular cross-section; the relative diametral sizes of the ring, groove bottom, and cylinder wall, and the cross-sectional diameter of the ring relative to the width of its groove, being so chosen that, under no load, the ring is substantially undeformed cross-sectionally, is reduced in diametral extent only sufficiently to insure a cir-

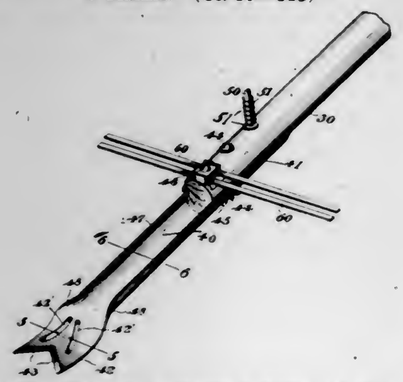
cumferential line bearing of the ring upon the cylinder wall, and the ring bears within the groove at one side only, but has its internal circumference but slightly spaced from the bottom of the groove; but likewise so chosen that under pressure loading the ring is flattened against the side of the groove and expanded in radial directions, thereby effecting contact with the bottom and side wall of the groove, to limit its expansion inwardly, and thereby to effect its expansion outwardly, and its contact with the cylinder wall along a broad band.

2,314,684
ELECTRIC SWITCH
Arnold A. Bluemle, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application December 27, 1940, Serial No. 371,962
11 Claims. (Cl. 200—164)



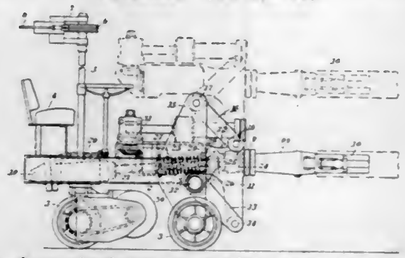
1. An electric switch comprising a plate provided with openings; a reciprocal member provided with oppositely disposed grooves on its sides slidable upon the front of the plate; a contact member mounted on the rear face of the reciprocal member and adapted to bridge stationary contacts carried by the plate; a metal resilient member having arm portions projecting through the grooves to straddle loosely the sliding member, said resilient member having its ends respectively extending into the openings and overlying portions on the rear side of the plate, said ends being so disposed that the arm portions straddling the sliding member will hold same in assembled relation with the plate and prevent accidental removal therefrom; and means associated with the plate for limiting the reciprocal movement of the sliding member in each direction.

2,314,685
WEED CUTTER
Norman E. Brooke, Washington, D. C.
Original application September 19, 1940, Serial No. 357,477. Divided and this application October 16, 1941, Serial No. 415,304
2 Claims. (Cl. 30—315)



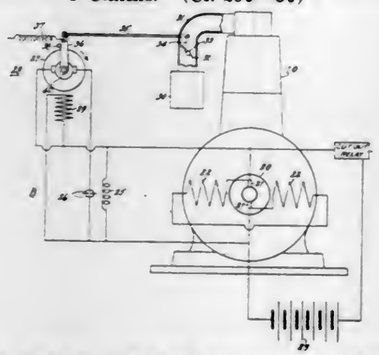
1. An elongated channel-shaped blade for a weed cutter, the sides of the channel being adapted for a portion of their length at one end of the blade to grasp the sides of a handle adapted to rest in the channel, and the material forming the sides of the channel being spread at the other end of the blade and more or less flattened to bring this end to both a transverse and lengthwise curvature or spoon shape, the end of the spoon-shaped bowl being formed into a notched cutting surface.

2,314,686
MANIPULATOR
Edgar E. Brosius, Pittsburgh, Pa.
Application September 23, 1940, Serial No. 357,853
3 Claims. (Cl. 78—96)



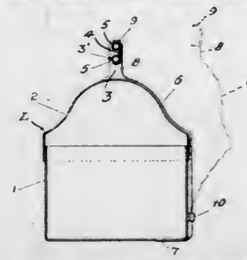
1. A manipulator comprising, a chassis, a work manipulating peel, a peel-carrying frame at the front end of the chassis in which the peel is journaled, a system of parallel links and levers at the front end of the chassis for supporting and raising and lowering the peel-carrying frame while maintaining the peel substantially horizontal, a fluid pressure cylinder at the rear end of the chassis having a piston rod extending to the front end of the chassis and there connected with the system of links and levers for raising and lowering the peel.

2,314,687
BATTERY CHARGING SYSTEM
Wilbur L. Carlson, Rochester, N. Y., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application June 8, 1942, Serial No. 446,253
3 Claims. (Cl. 290—50)



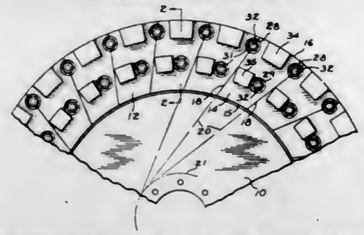
1. A battery charging system comprising an engine having a fuel intake and a throttle valve for controlling the intake, a generator driven by the engine, a storage battery charged by the generator, a spring tending to close the throttle valve, means responsive to generator voltage tending to open the throttle valve, and means responsive to the attainment of a predetermined voltage for rendering ineffective the means tending to open the throttle valve.

2,314,688
LUNCH BOX
August B. Christensen, South Bethlehem, Pa.
Application July 13, 1942, Serial No. 450,714
2 Claims. (Cl. 220—56)



1. The combination of a receptacle and removable closure cover therefor, said cover having a rigid handle portion extended in spaced parallel relation to the upper wall of the cover, said handle having a vertically disposed flat wall and upper and lower rolled edges, a spring strap member mounted on the receptacle, a clasp member carried by the free end of the strap member and consisting of opposed resilient clips adapted to engage about the rolled edges of the handle and having a flat portion between the clips for snugly abutting the vertical wall of the handle, and means adjacent the point of mounting of said spring strap for limiting outward swinging movement of the strap.

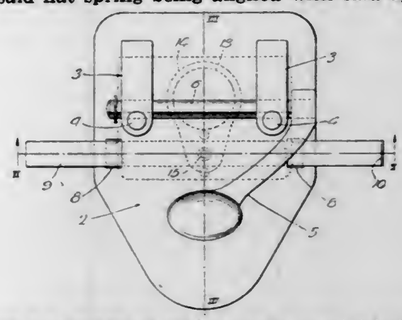
2,314,689
BEATER ELEMENT FOR PULVERIZING APPARATUS
Ollison Craig, Worcester, Mass., assignor to Riley Stoker Corporation, Worcester, Mass., a corporation of Massachusetts
Application December 28, 1940, Serial No. 372,102
4 Claims. (Cl. 83—11)



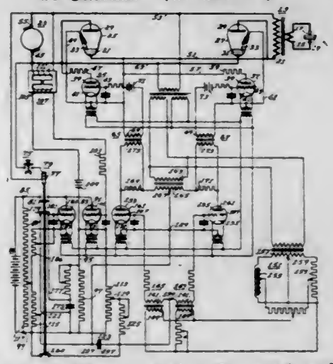
1. A beater element for a pulverizing apparatus comprising a rotor wear plate having inner and outer edges shaped as concentric circumferentially-offset circular arcs and two straight inwardly converging side edges located on lines tangential to a common circle concentric with the said arcs, and a peg projecting from one face of the plate.

2,314,690
PUNCH
George H. Dawson, Chicago, Ill., assignor to Wilson-Jones Company, Chicago, Ill., a corporation of Massachusetts
Application June 9, 1941, Serial No. 397,281
2 Claims. (Cl. 164—91)

1. In a punch, a base member having a pair of aligned apertures, a gauge passing through said apertures, a chip pan secured to said base member, and a flat spring permanently secured at its middle portion to said chip pan, the ends of said flat spring being aligned with said apertures and engaging said gauge to exert frictional force against said gauge.



2,314,691
WELDING APPARATUS
John W. Dawson, Auburndale, Mass., and Ralph N. Stoddard, East Orange, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 13, 1939, Serial No. 278,830
14 Claims. (Cl. 219—4)

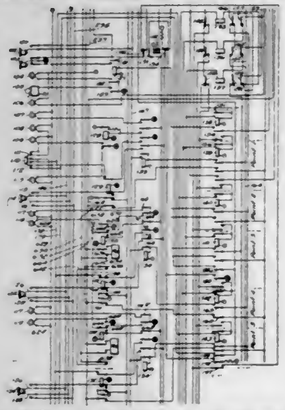


1. For use with apparatus for spot welding a material from a periodically pulsating source, the combination comprising valve means interposed between said source and a spot on said material for controlling the supply of current to said spot, control means for said valve means, said valve means to be rendered conductive by the application of a potential greater than a predetermined critical value to said control means, and means for applying to said control means a periodic potential having a substantially sloping wave front superimposed on a potential which gradually increases in magnitude in such manner that the net potential applied rises above the critical value gradually earlier in the pulsations of said source, the current conducted during the earlier pulsations being insufficient for welding and that conducted during the later pulsations being sufficient for welding.

2,314,692
CONTROL SYSTEM
Willard A. Derr, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 26, 1940, Serial No. 347,626
8 Claims. (Cl. 177—353)

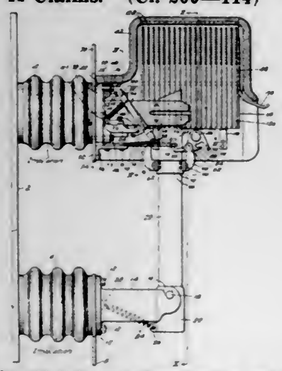
1. In a supervisory control system having a sig-

nalling channel extending between a control station and a remote station, a plurality of control points at the remote station and corresponding control points at the control station, and means at the control and remote stations for selectively operating the corresponding pairs of control points over the signalling channel, in combination, means associated with certain of the control



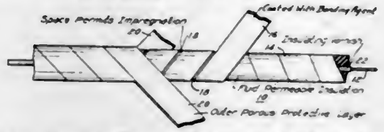
points for giving a continuous indication at the control station of a condition at the remote station by continuous energization of the signalling channel, and means responsive to the control operations for other control points while the said indication is being given for interrupting the said continuous indication only while the control operations for the said other control points are taking place.

2,314,693
ELECTRIC CIRCUIT INTERRUPTER
Robert C. Dickinson, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 9, 1939, Serial No. 294,069
41 Claims. (Cl. 200—114)



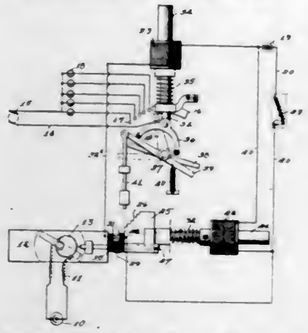
1. In a circuit interrupting device, interrupting means having a pair of terminals, said interrupting means opening the circuit upon the passage therethrough of currents of a predetermined magnitude, a contact adapted to be engaged by one of said terminals, means for releasably maintaining said one terminal in engagement with said contact, and current-responsive locking means operable to prevent release of said second-mentioned means until after said interrupting means has operated to open the circuit.

2,314,694
ELECTRICAL CONDUCTOR
Clarence W. Dodds, Sharon, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 6, 1942, Serial No. 425,769
10 Claims. (Cl. 174—25)



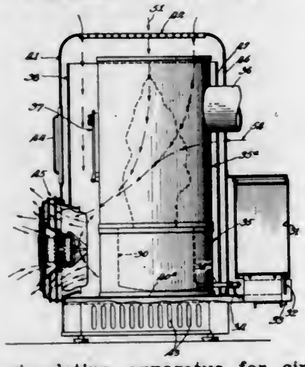
1. An electrically insulated conductor suitable for use in dielectric fluids and cooperative therewith for enhanced insulative properties comprising, in combination, an electrical conductor, a dielectric fluid permeable insulation applied to the conductor, a layer of sheet material applied over the fluid permeable insulation, the sheet material carrying a fluid dielectric insoluble bonding agent, the sheet material being so prepared and applied that spaces for penetration by the dielectric fluid to the fluid permeable insulation and for escape of air and other gases are provided, and an outer fluid dielectric permeable covering applied to the sheet material, the whole being united by the bonding agent.

2,314,695
LIGHT OPERATED CONTROL SYSTEM FOR ELECTRIC LIGHTS
Stanley W. Dusdieker, Des Moines, Iowa
Application September 16, 1940, Serial No. 356,973
2 Claims. (Cl. 175—375)



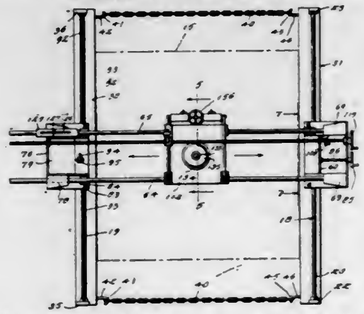
1. A switch apparatus for automatic electric circuit control, comprising a galvanometer having a movable member, an eccentric operatively connected to the movable member, a shaft slidingly supported for movement toward and from the eccentric, means for periodically and repeatedly moving the shaft toward and from the eccentric, a stepped plate carried by said shaft, a pivotally supported member having a portion thereof guided to position for engaging one of the steps on the stepped plate when moved in one direction, the amount of movement of said pivoted member being determined by the position of the stepped plate, a pivotally supported switch plate adjacent said member, an electric switch operated by a movement of said switch plate, a movable push plate for engaging both said pivoted member and said switch plate, its movement in one direction being limited by the said movable member, and means for periodically and repeatedly moving the push plate toward the metal plate.

2,314,696
AIR CONDITIONING AND CIRCULATING APPARATUS
James M. Funk, Ottawa, Ill., assignor to Lonergan Manufacturing Company, Albion, Mich., a corporation of Michigan
Application May 20, 1939, Serial No. 274,793
6 Claims. (Cl. 230—120)



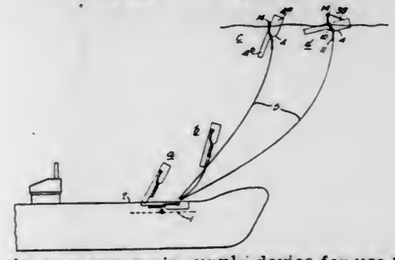
4. Air circulating apparatus for circulating air outwardly through an opening in a wall comprising a propeller including a plurality of blades and a hub therefor positioned to circulate temperature conditioned air outwardly through said opening, a motor for driving said propeller, means for supporting said motor and propeller, said means surrounding said motor and extending outwardly from said opening so as to spread said temperature conditioned air into an expanding annular stream moving in a radial direction away from the area centrally in front of said opening, and means for inducing a suction draft to circulate air of a cooling temperature inwardly from an area substantially centrally in front of said opening and to pass the same about said motor and to discharge it into said temperature conditioned air at the end of said motor adjacent said hub.

2,314,697
MEAT CHOPPING BLOCK SMOOTHING MACHINE
Roland L. Goff, Yreka, Calif.
Application October 28, 1940, Serial No. 363,216
7 Claims. (Cl. 144—2)



4. A machine for smoothing meat chopping blocks comprising a cutter, means for supporting said cutter in vertically adjustable relationship with respect to said block, means for horizontally adjusting said cutter including a screw threaded shaft and a pivoted nut engaging said shaft and secured to said first named cutter support, means constantly urging said nut to a disengaged position, a latch on said nut holding said nut in engagement with said shaft, means adjacent one end of said horizontal adjusting means for unlatching said nut whereby the latter disengages from said shaft when said cutter is moved a predetermined distance horizontally in one direction.

2,314,698
MEANS FOR SUPPLYING AIR TO SUBMERGED SUBMARINES
Frederick James Gray, Cheltenham, England
Application July 22, 1940, Serial No. 346,747
In Great Britain August 11, 1939
6 Claims. (Cl. 114—16.4)



1. An emergency air supply device for use with submarines comprising a hollow body forming a float, an opening through the float at a point between its ends, a tube pivoted in said opening to the float so that one end of the tube extends along the upper side of one end of the float and the other end extends along the lower side of the float, a valve housing on the upper end part of the tube, a valve in said housing, spring means normally closing said valve, means connecting the valve to the float body to open the valve when the said tube pivots in one direction, an air supply pipe connected to the tube at the end remote from the valve housing, the said float and pipe being adapted to be located close to the deck of the submarine, and means operable from within the submarine to release the float.

2,314,699
LUMINESCENT MATERIAL
Danforth R. Hale, Madison, N. J., assignor to Radio Corporation of America, a corporation of Delaware
No Drawing. Application February 1, 1941, Serial No. 376,997
7 Claims. (Cl. 250—81)

1. The steps in the method of preparing a luminescent material which comprises dispersing an oxide of an element chosen from the group consisting of beryllium, magnesium, zinc and zirconium in a solution of a salt of an element chosen from the group consisting of silicon, germanium, titanium, zirconium, hafnium and thorium, and precipitating the dioxide of the element of the second named group upon the oxide of the element of the first named group.

2,314,700
FOWL PICKER
Fred Hanshaw, Port Huron, Mich.
Application June 6, 1941, Serial No. 396,796
9 Claims. (Cl. 17—11.1)



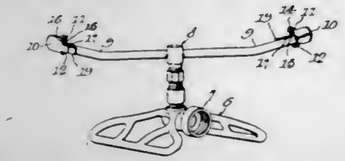
7. A fowl picker comprising a movable member

having sponge rubber teeth or projections adapted to wipingly remove feathers from the fowl, and means for rapidly moving the member so that with a fowl in contact therewith, the feathers will be removed.

2,314,701
LAMINATED PRODUCT
Mortimer T. Harvey, East Orange, N. J., assignor to The Harvel Corporation, a corporation of New Jersey
No Drawing. Application November 15, 1938, Serial No. 240,496
2 Claims. (Cl. 154—43)

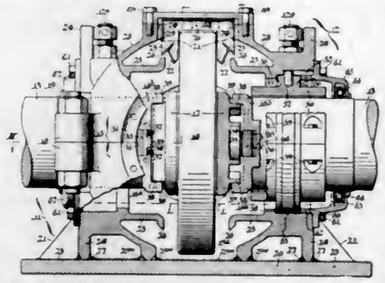
1. A laminated product characterized by the fact that it can be punched at a high rate of speed at normal temperatures without delamination, comprising essentially sheets of cellulosic fibrous material bound together by a condensation product of formaldehyde and a mixture of carbolic acid and cardanol, the amount of said formaldehyde reacted being from about 0.6 mole to about 1.5 moles for each mole of the phenols reacted therewith, the ratio of said carbolic acid to cardanol in said mixture being about 1 mole to about 0.16 mole to 0.7 mole, said condensation product being thermosetting.

2,314,702
ROTARY LAWN SPRINKLER
Joseph E. Higgins, Grand Island, Nebr.
Application January 8, 1941, Serial No. 373,685
3 Claims. (Cl. 299—69)



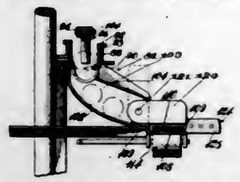
3. In combination with a lawn sprinkler having a rotor provided with a substantially radial water discharge nozzle; a deflector having a single water-deflecting portion contiguous to and oblique to said nozzle and positioned to be struck by the water discharged therefrom to cause rotation of said rotor, said water-deflecting portion having a free outer end, said deflector being devoid of encumbrances between said water-deflecting portion and said nozzle, said deflector being provided with a mounting portion joined to the inner end of said water-deflecting portion, means mounting said mounting portion of said deflector on said rotor upon a substantially vertical pivotal axis to allow said deflector to swing and dispose said water-deflecting portion in different oblique positions with respect to said nozzle, and a spring surrounding the deflector pivot, said spring having one arm connected directly with said mounting portion of said deflector and another arm connected directly with said rotor, said spring urging said deflector in a direction to position said deflecting portion at its minimum angle with respect to said nozzle, said spring being yieldable to allow said deflector to move in the opposite direction to one position or another under the influence of the water discharged against said deflecting portion, said spring and the action of the water against said deflecting portion serving to hold said deflector against oscillation upon its pivot during rotation of said rotor, whereby said rotor will rotate continuously at a uniform speed.

2,314,703
BEARING
Harry A. S. Howarth, Philadelphia, Pa.
Application August 4, 1940, Serial No. 351,386
12 Claims. (Cl. 308—160)



1. A thrust bearing structure for a horizontal shaft comprising as main strength members half-ring girders standing substantially upright at opposite sides of the shaft, when the latter is in place, substantially parallel therewith; a base attached to the lower portions of said half-ring girders; and thrust bearing shoes in the horizontal plane of the shaft axis supported by the upper ends of said half-ring girders at the openings between them, for coacting with a thrust collar or flange on the shaft, and removable laterally through said openings.

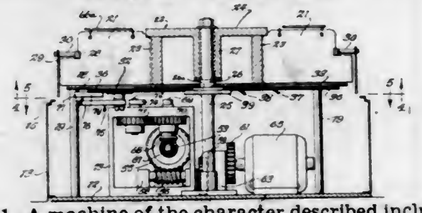
2,314,704
PINEAPPLE GRADING APPARATUS
Kermit J. Jackson, Honolulu, Territory of Hawaii
Original application January 3, 1940, Serial No. 312,276. Divided and this application November 5, 1940, Serial No. 364,452
2 Claims. (Cl. 209—99)



1. A grader comprising a pair of parallel fixed supports spaced laterally from each other, a series of troughs mounted on said supports and depending therebetween, said troughs being formed with upper marginal edge portions resting on said supports, said troughs being open-ended and in longitudinal alinement, the contiguous ends of the troughs being in substantial abutment with each other each trough having a slot extending longitudinally through the bottom thereof and dividing the trough into two sections of progressively varying widths for the separation of various sizes of articles delivered to the trough series, means depending below the troughs and secured to the sections for connecting the sections together, a drive chain having paddles to longitudinally traverse the trough series, said chain including upper and lower flights, sprockets mounted at the substantial terminals of the supports at a sufficient altitude to locate the lower flight of the chain substantially along the top of the trough series thus to properly position the respective paddles in respect to said series, and means to receive articles cropping through the slot openings and out of the open end of the final trough of the series when moved therealong by the paddles,

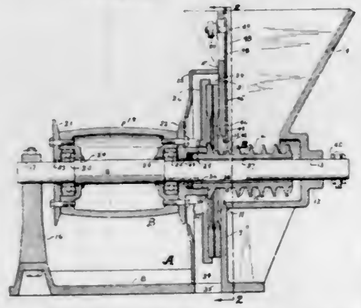
said means consisting of a chute having partitions substantially matched in positions with the ends of the troughs.

2,314,705
FOLLOW-UP CARD FILE HOLDING AND DESIGNATING MACHINE
Evert F. Johnson, Oil City, Pa., assignor to The Pennzoil Company, Oil City, Pa., a corporation of Pennsylvania
Application January 29, 1942, Serial No. 428,704
14 Claims. (Cl. 129—16.1)



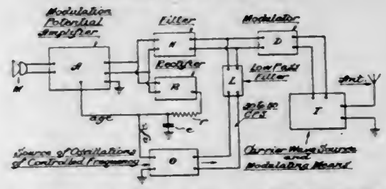
1. A machine of the character described including a horizontal support having a plurality of discharge outlets, a vertical shaft, means carried by said shaft for closing said outlets, a wheel mounted on said shaft over said support, said wheel being divided into compartments in which cards may be accommodated, means for rotating said wheel to advance each of said compartments successively to positions over each of said outlets, and means for actuating said first named means to permit the discharge of said cards through said outlets.

2,314,706
GRAIN GRINDER GATE VALVE
Howard M. Johnston, Toronto, Ontario, Canada, assignor to Massey-Harris Company Ltd., Toronto, Ontario, Canada, a limited company of Canada
Application February 6, 1941, Serial No. 377,622
1 Claim. (Cl. 83—8)



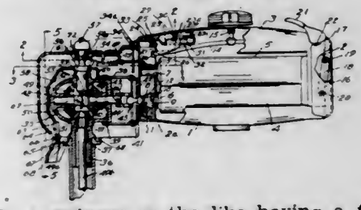
A device of the class described, comprising a hopper having at its bottom a uniform for its length horizontally arranged generally circular in cross section chamber, one end being open forming an outlet, a rotatably mounted member extending concentrically and longitudinally through said chamber, a grinding plate concentrically positioned with said chamber and partially contacting the forward end of said hopper, driving means operatively connected to said member and having another grinder plate mounted thereon and positioned adjacent said first plate, an auger conveyor mounted on said member and positioned in said chamber, the end protruding through said outlet, a portion of said auger conveyor from said protruding end to a short distance past the inside vertical plane of the hopper being somewhat smaller in diameter than the remainder of the auger, a vertically arranged gate valve positioned on the inside of said hopper adjacent said outlet and being cut-away at its bottom so the valve, when closed, may partially surround said reduced portion of the auger leaving substantially the lower half of said outlet chamber and the reduced portion of the auger open for the passage of the material.

2,314,707
SIGNALING SYSTEM
Martin Katzin, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application March 7, 1941, Serial No. 382,181
8 Claims. (Cl. 250—6)



1. The method of signaling which includes the steps of generating a carrier wave, modulating said carrier wave in accordance with signal potentials, controlling the amplitude of said signal potentials to obtain substantially full modulation of said carrier wave by said signal potentials, generating alternating potentials the frequency of which is proportional to the mean amplitude of the signal potentials, and modulating said carrier wave by said generated alternating potentials.

2,314,708
WRINGER AND THE LIKE
Walter L. Kauffman, II, Erie, Pa., assignor to Lovell Manufacturing Company, Erie, Pa., a corporation of Pennsylvania
Application October 5, 1939, Serial No. 298,100
11 Claims. (Cl. 68—249)

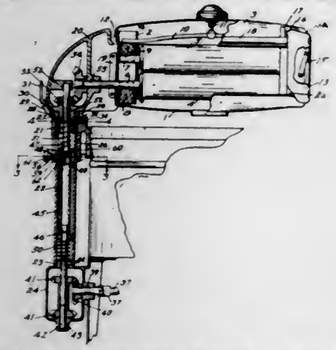


1. In a wringer or the like having a frame; rolls mounted in the frame; pressure means for the rolls; a driving head on which the frame is mounted; a release device for relieving pressure on the rolls; reversing gears driving the rolls; and means controlling the gears having neutral and driving positions; the combination with the means controlling the gears and the release device of devices locking the release device against release action whenever the wringer drive is in neutral.

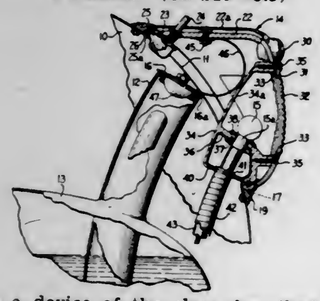
2,314,709
WRINGER AND THE LIKE
Walter L. Kauffman, II, Erie, Pa., assignor to Lovell Manufacturing Company, Erie, Pa., a corporation of Pennsylvania
Application October 5, 1939, Serial No. 298,102
4 Claims. (Cl. 68—269)

1. In a wringer or the like, having a frame;

squeeze rolls mounted in the frame; a gear head on which the frame is movably mounted; and driving means for the rolls comprising reversing gears exerting torque thrust on the frame, the thrust being reversed with a reversal of the means; the combination with the frame, gear head and driving means of means releasing the driving means actuated by a movement of the frame in a direction of the torque thrust, said releasing means comprising a vertical slot having offsets; a reverse gear setting device having a projection extending through the slot; abutments moving with the frame at each side of and parallel with the slot, and a swinging plate on the projection, said plate having a pin slidingly mounted in the vertical slot and adapted to engage by the swinging of the plate the offsets in the vertical slot, said swinging plate engaging the abutments at each side of the vertical slot providing for release with a movement of the wringer in either direction.

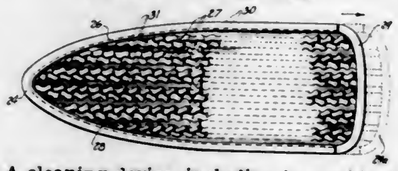


2,314,710
COMBINED TAIL LAMP AND GAS TANK FILLING VENT
Robert T. Keller, Royal Oak, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application March 30, 1940, Serial No. 327,069
5 Claims. (Cl. 240—8.3)



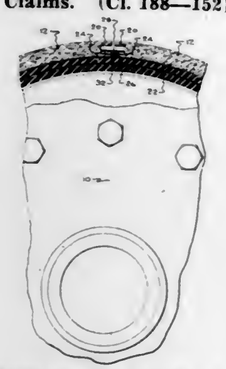
1. In a device of the class described, a body portion having an aperture, a tank within the body portion having a filling vent terminating adjacent the aperture, a removable cover means for the filling vent, a supporting means fixed on the body portion surrounding the aperture, a movable tail light housing cooperating with the supporting means to close the aperture in the body portion, hinge means between the housing and the supporting means to allow the housing to be moved from its cooperative relation with the supporting means to expose the aperture, resilient means on the housing to mount the removable cover means to open and close the vent means when the housing is moved about the hinge means to open and close the aperture in the body, and manually operable latch means to maintain the housing and the supporting means in cooperative relation to close the aperture.

2,314,711
CLEANING DEVICE
Raymond A. Kelly and Winfield F. Raddon, Salt Lake City, Utah
Application May 22, 1940, Serial No. 336,608
6 Claims. (Cl. 15—104)



1. A cleaning device, including in combination, a plurality of depending riffles spaced apart longitudinally one from another, the said riffles being provided with flutes having peaks and valleys extending transversely of the said riffles, the distance from peak to peak and valley to valley being equal approximately to the distance from riffle to riffle, and means disposed to support the riffles in the said spaced relation.

2,314,712
EXPANDER TUBE BRAKE
James T. King, Burbank, Calif., assignor to Hayes Industries, Inc., Jackson, Mich., a corporation of Michigan
Application August 2, 1940, Serial No. 349,398
4 Claims. (Cl. 188—152)



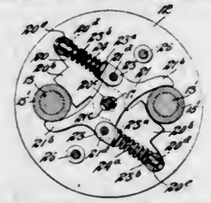
1. In an expander tube brake, a shim positionable between the expander tube and the brake blocks comprising a thin base portion and a portion projecting therefrom for engagement with the brake blocks to locate the shim relative to opposed ends of adjacent brake blocks.

2,314,713
DEVICE FOR MOUNTING WALL CABINETS
Charles E. Kirch, Alden, N. Y.
Application March 12, 1941, Serial No. 382,976
5 Claims. (Cl. 154—1)

2. A device for use in connection with a plurality of independent elements which are to be attached to a wall by cement and to which a fixture is thereafter to be secured including a body for holding said elements in a predetermined assembled relation, and means adapted to be affixed to said wall for acting against said body simultaneously to press all of said elements firmly against said wall while said cement sets, said body being detachable from said elements.

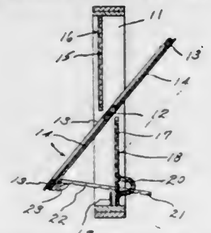


2,314,714
ELECTRIC SWITCH
Haroutium K. Kouyoumjian, Wakefield, R. I.
Application August 27, 1941, Serial No. 408,413
10 Claims. (Cl. 200—67)



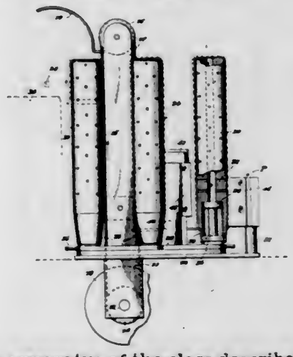
1. An electric switch comprising a pair of fixed contacts of cylindrical form, a pair of pivoted rotatable contact plates each simultaneously engaging the fixed pair of contacts by portions of each plate at opposite sides of the pivot by the edges of each plate by a butt contact, a pair of springs connected respectively between portions of said plates and opposite each other with reference to the axis of the plates for exerting pressure on both of the plates in the closed position in a direction to hold them in closed position, and means for first moving one of the plates from the contacts and for moving the springs over their dead center positions for thereby causing the other plate to be snapped from its closed position to its open position and for moving the springs over their dead center positions in the opposite direction for thereby causing both of said plates to be snapped from their open position to their closed position, said plates being rotated in opposite directions with reference to each other in the opening and in the closing movements.

2,314,715
WINDOW SCREEN
Herman O. Kraft, Detroit, Mich.
Application October 23, 1941, Serial No. 416,145
8 Claims. (Cl. 160—94)



7. In a covering for a sash, a mesh member on the inside thereof having an inwardly bulged recessed portion, and a latch connected to said sash adapted to be nested within said recess when said sash is in closed position, access to said latch being through the mesh surrounding said recess.

2,314,716
BEAD FORMING AND PRINTING DEVICE
Yervant H. Kurkjian, Hawthorne, N. J., assignor to Julius Schmid, Inc., New York, N. Y., a corporation of New York
Application April 27, 1939, Serial No. 270,427
8 Claims. (Cl. 18—2)



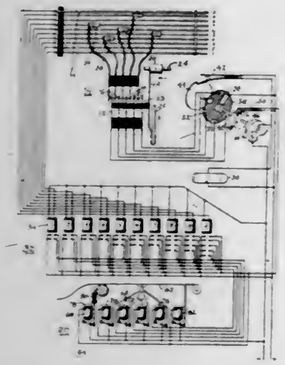
1. In an apparatus of the class described, a base, a rotating support mounted upon the base, projecting forms carried by the support, means for rolling a thin rubber article upon itself from one end of the form toward the other end thereof, said means comprising a longitudinally movable endless belt having lateral frictional contact pressure upon the open end of a thin rubber article carried by the form whereby movement of the belt will cause the thin rubber article to roll upon itself, the continual movement of the belt being adapted to shift the rubber article laterally away from the outer end of the form whereby the article may be removed from the form, the rotating support being adapted to be rotated to bring the forms and the rubber articles carried by the forms into frictional contact with the endless belt in a manner whereby the rubber articles are rolled upon themselves from the inner ends of the forms toward the outer ends of the forms.

2,314,717
CARRYING CASE
Richard F. Landwehr, Laurelton, N. Y., assignor to Sagamor Metal Goods Corporation, New York, N. Y., a corporation of New York
Application February 23, 1940, Serial No. 320,341
10 Claims. (Cl. 220—32)



1. A carrying case which fits into the palm of the hand, said case comprising: two hinged members which latch together when the case is closed; operating bars projecting from opposite edges of the case, both of the bars being simultaneously movable inwardly of the case and toward one another by pressure applied by the hand in which the case is held; and mechanism operative in response to such combined simultaneous bar movement to unlatch said hinged members for opening of the case, said mechanism being operatively non-responsive to pressure applied to either one of said bars only.

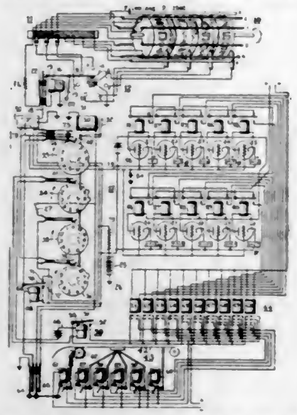
2,314,718
ACCOUNTING APPARATUS
Ward Leathers, Brooklyn, and Archibald Gold, New York, N. Y., assignors, by mesne assignments, to International Business Machines Corporation
Application April 26, 1940, Serial No. 331,814
1 Claim. (Cl. 164—115)



In an apparatus for producing perforated accounting and statistical record strips including a series of punches, a solenoid for each punch adapted when energized to operate the punch and cause the latter to perform a data punching operation, a plurality of normally open electrical circuits each operable upon being closed to energize one or more of said solenoids and cause operation of its or their respective punches, a plurality of individual, self-contained circuit-closing units each of which is adapted to be set up to represent precomputed data which are to be recorded automatically by operation of said punches every time such unit is selected for circuit-closing purposes and each of which is adapted upon selection thereof to close a predetermined circuit or circuits in accordance with such precomputed data, said circuit-closing units each comprising a contactor group having a plurality of normally open pairs of contacts, means for arbitrarily selectively coupling each pair of contacts in a selected circuit, and means for selecting the circuit-closing groups and closing the contacts of the selected groups substantially simultaneously.

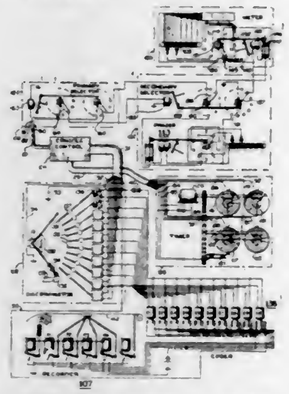
2,314,719
AUTOMATIC METER-READING APPARATUS
Ward Leathers, Brooklyn, N. Y., assignor, by mesne assignments, to International Business Machines Corporation.
Application August 2, 1940, Serial No. 349,982
4 Claims. (Cl. 177—351)

1. In an apparatus for exhibiting at a remote point the relative positions of a series of movable members, a plurality of resistances of progressively increasing values which correspond to different positions capable of being assumed by the movable members, each succeeding resistance being inclusive of the preceding resistances, an impedance circuit, a distributor switch for separately and successively connecting said resistances in said circuit, means operable by movement of the movable members for actuating the switch, means in said circuit establishing a potential differential commensurate with the impedance value of the circuit, a plurality of reading circuits, means responsive to said potential differential for selectively closing said reading cir-



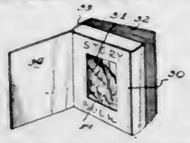
cuits, and exhibiting instrumentalities operatively connected to said reading circuits.

2,314,720
AUTOMATIC METER-READING APPARATUS
Ward Leathers, Brooklyn, N. Y., assignor, by mesne assignments, to International Business Machines Corporation
Application October 18, 1940, Serial No. 361,798
5 Claims. (Cl. 177—351)



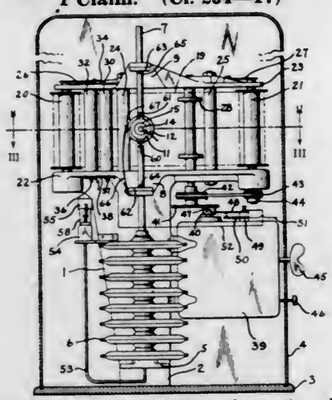
4. In an electrical transmitting and recording system, a plurality of groups of meters, means for successively selecting a group of meters, means for successively selecting a meter within a group, a central recording station, a plurality of impulses transmitting channels connecting the meters of each group to the central station, a trip register at the central station including a plurality of geared indicating elements decimally related in ascending digital order for sequential movement incrementally in a decimally progressive sequence, certain lower digital indicating elements serving to indicate the selection of individual meters within the groups and certain other higher digital indicating elements serving to indicate the selection of the meter groups, means operable upon selection of each meter for tripping the register, and means operable upon movement of said higher digital indicating elements for rendering said meter-group selecting means operative.

2,314,721
DIORAMA CONSTRUCTION
Herman H. Lowenstein, Chicago, Ill.
Application May 5, 1941, Serial No. 391,845
5 Claims. (Cl. 35—1)



1. In a device of the character described, a sleeve member having an opening in the front face thereof, a shallow dish-like member disposed within said opening and having flanged edges overlying the edges of the opening, tabs formed in the said front face of the sleeve member engaging said flanges and holding same flatly against the said face, said dish-like member thereby forming a shallow cavity in the front face of said sleeve member and having a substantially planar bottom wall capable of supporting objects thereon.

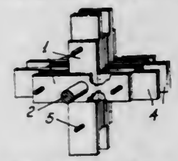
2,314,722
RECORDING BAROGRAPH
Bernard Maggin, Detroit, Mich.
Application October 20, 1941, Serial No. 415,777
1 Claim. (Cl. 234—17)



A recording device of the character described comprising a plurality of capsules forming a single bellows axially supported at one end, a support extending from the opposite end, means supporting a recording chart strip movable transversely of the axis of the bellows, means normally positioned midway between the width of the chart strip for describing a path over the chart, means actuated by movement of the bellows for opening the interior of the bellows to the atmosphere at a predetermined position along the stroke of the support at each side of its normal central position, and means for closing the interior of the bellows to the atmosphere at the normal central position of the support.

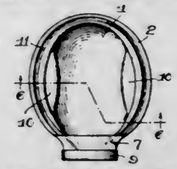
2,314,723
FEED GRINDING ROTOR
Henry J. Mankoff, Wichita, Kans.
Application January 12, 1942, Serial No. 426,442
1 Claim. (Cl. 83—11)

In a hammer mill rotor, a supporting shaft, a plurality of rectangular flat support bars, means for securing the support bars to the shaft for rotation therewith, the support bars being mounted on the shaft in consecutive alternate substantially rectangular crossed relation and the alternate bars being in aligned relation, apertures spaced inwardly from the ends of the support bars, a plurality of flat hammer bars symmetrical in side face shape arranged with their inner ends in bearing relation on inwardly adjacent support bars, the other ends projecting



radially beyond said support bars, apertures substantially centrally of the length of said hammer bars between the ends, and means extending thru the apertures of both support and hammer bars to maintain them in assembled relation; whereby the hammer bars after a degree of wear may be reversed end for end and from side to side to present unworn corners at the periphery of the rotor.

2,314,724
COLOSTOMY PROTECTOR
Edward Paul Marsan, Chicago, Ill.
Application November 28, 1941, Serial No. 420,787
4 Claims. (Cl. 128—283)

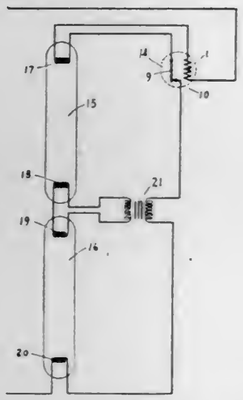


1. As a new article of manufacture, a surgical appliance embodying a non-yielding cup-shaped body having a rear opening and adapted to surround and shield a colostomy; a hollow stub integral with said body and communicating with the lower portion thereof; a groove in the edge of the body wall surrounding said opening, said groove having less width than the thickness of the wall and adapted to form a vacuum seal between said body and the skin tissue around the colostomy; and a flexible sack detachably mounted on said hollow stub.

2,314,725
THERMAL RELAY FOR ELECTRIC DISCHARGE LAMP
Henry J. McCarthy, Danvers, Mass., assignor to Sylvania Electric Products, a corporation of Massachusetts
Application December 28, 1940, Serial No. 372,154
1 Claim. (Cl. 176—124)

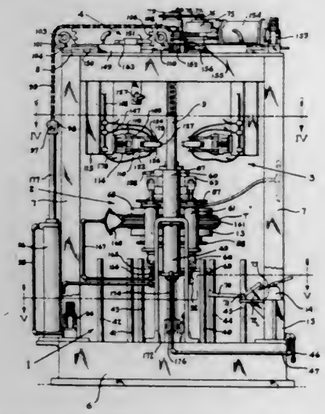
In combination: an electric gaseous discharge device having filamentary electrodes; and a thermal relay for controlling pre-heating of said filamentary electrodes, said relay being enclosed in a sealed container and comprising: a pair of lead-in wires, the inner end of one of said wires being bent substantially at right angles; a bimetallic strip fixed to the top of said wire, of which the top thereof is bent substantially at right angles, and extending toward said other lead-in wire but not in contact therewith; a second bimetallic strip fixed to the same lead-in wire as said first bimetallic strip and extending toward said other lead-in wire and normally in

contact therewith; said second strip being in a plane perpendicular to the first strip and normally out of contact therewith; and a ballast, for said discharge device, in the form of a tungsten filament in series with said filamentary electrodes



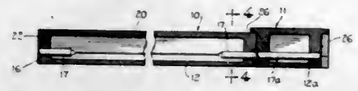
and in such heating relationship with said bimetallic strips as to cause the first of said strips to lock the second strip away from its normally closed position with respect to one of said lead wires.

2,314,726
APPARATUS FOR TREATING TIRES
Osborne B. Moore and Glenn G. Havens, Detroit, and George F. Wikle, Grosse Pointe, Mich., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application November 23, 1940, Serial No. 366,812
14 Claims. (Cl. 18—2)



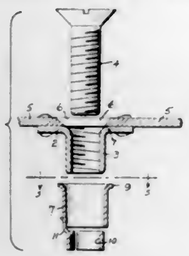
1. In an apparatus for treating tires having a tread configuration including grooves, the combination of a support for rotatably positioning a tire on a vertical axis, means for centering the tire on the support, means for clamping the tire on the support to impart tension strains in the region of the bases of the tread grooves, means for elevating the support and the tire axially while maintaining the tire in a clamped position, and means movable radially of the tire in its elevated position for heating the distended bases of the tread grooves.

2,314,727
ELECTRICITY CONDUCTOR UNIT WITH FIXED SOCKET-END CONDUCTORS
Louis G. Morten, Teaneck, N. J., assignor to John B. Pierce Foundation, New York, N. Y., a corporation of New York
Application February 23, 1940, Serial No. 320,242
5 Claims. (Cl. 174—98)



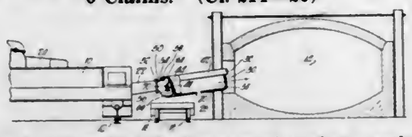
1. An electricity conductor unit for seriatim electrical and mechanical interconnection with other units of like characteristics to form a continuous wiring system, comprising the combination with a substantially hollow body comprising mutually separable cap and base portions, each said body portion having end walls of electrical insulation material, said end wall portions being provided with registering grooves which form tubular passages in mutual axial alignment, of electricity-conducting socket means extending through said tubular passages, each said socket means having an integral continuous flange at its outer end in engagement with the outer surface of said end walls over a substantial area, the body of each socket being of uniform diameter throughout its length, and electricity conductors extending from the socket means at one end wall to the socket means at another and connected thereto with minimum of slack to afford electrical and mechanical connection therebetween to restrain said interconnected socket means against displacement with respect to said end walls, said electricity conductors being in mutually insulated spaced relationship.

2,314,728
LOCK NUT DEVICE
Howard J. Murphy, Greenwood, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application March 27, 1941, Serial No. 385,502
4 Claims. (Cl. 151—32)



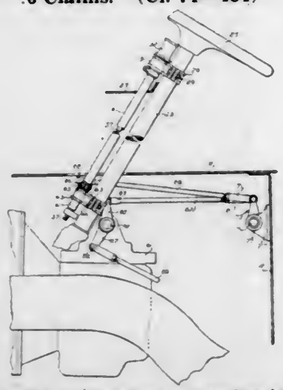
4. A one-piece nut lock for screw and nut fastenings comprising a pair of sleeve members, a bridge portion securely connecting said sleeve members together in spaced relation, one of said sleeve members being of a size to be slipped over the sides of the nut, and the other sleeve member being of smaller diameter than said nut-receiving portion, and being spaced from said nut, said latter sleeve member constituting a screw-clutching ring for frictionally engaging and gripping a portion of said screw threaded into said nut, both of said sleeve portions being split longitudinally and extending from said bridge portion in opposite directions.

2,314,729
OPEN HEARTH CHARGING DEVICE
William H. Mursch, Crafton, Pa., assignor to Carnegie-Illinois Steel Corporation, a corporation of New Jersey
Application April 27, 1942, Serial No. 440,701
6 Claims. (Cl. 214—26)



1. An open hearth furnace charging machine including a peel adapted to be moved into and out of the furnace, a charging box having a novel detachable coupling with the peel comprising a pair of cross bars at one end of the box, and a hook-like head located at an extremity of the peel having respective seats and keeper lugs projecting upwardly therefrom adapted to be moved upwardly to detachably engage said cross bars.

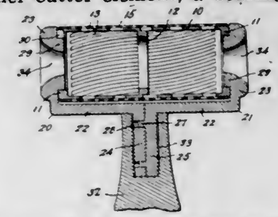
2,314,730
VEHICLE CONTROL MECHANISM
John Nicol, Detroit, Mich., assignor to Divco-Twin Truck Company, Detroit, Mich., a corporation of Michigan
Original application November 2, 1940, Serial No. 364,082. Divided and this application June 28, 1941, Serial No. 400,304
6 Claims. (Cl. 74—484)



1. In a vehicle wherein an engine is resiliently mounted on the chassis and has a variable speed transmission secured thereto, a steering post on the chassis and extending to a point adjacent the transmission, control mechanism for the transmission comprising a manual control lever shiftably mounted near the top of said steering post, a rod paralleling said post, terminating adjacent the transmission, and operable by said lever, a support connected to a part of the chassis substantially spaced from the transmission, pivoted means on said support, means connecting the bottom of said rod to said pivoted means. and means connecting the variable speed mechanism of said transmission to said pivoted means, whereby transmission of engine vibration to said control lever is prevented.

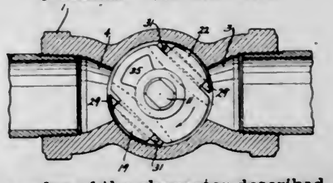
2,314,731
MANUALLY OPERATED DRY SHAVER
Barney R. Nyhagen, Bronx, N. Y.
Application May 8, 1939, Serial No. 272,424
2 Claims. (Cl. 30—43)

1. A manually operable dry shaver including a non-rotary cylindrical inner cutter element having longitudinally extending circumferentially spaced cutting teeth, an outer hollow cylindrical cutter element having perforations defining cutting teeth, said outer cutter element surrounding the inner cutter element and mounted to freely turn with reference thereto for cutting engagement with the teeth of the inner cutter element when pressed against and rolled over the skin so as to shear the hair protruding through the perforations and extending into the path of the teeth of the inner cutter element, a bearing yoke in-



cluding a pair of mating sections each having a base portion having a semi-cyclindrical exteriorly threaded stem and an angularly disposed bearing ear formed with an annular bearing boss adapted to fit within the opposite ends of the inner cutter element when the yoke sections are in mated relation, and a handle member having an interiorly threaded socket engaging with the stem of said yoke sections to lock the same in mated assembled relation to mount the cutter elements between the bearing ears, and interengageable means on the yoke and the inner cutter element to retain the same in fixed relation thereto.

2,314,732
VALVE
Robert L. Ohls, Houston, Tex., assignor to Reed Roller Bit Company, Houston, Tex., a corporation of Texas
Application August 16, 1941, Serial No. 407,173
6 Claims. (Cl. 251—102)

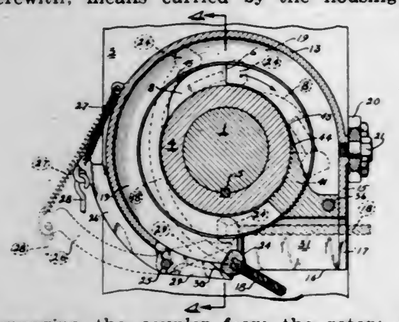


1. In a valve of the character described, a port, a retractable closure slidably movable over said port, a movable carrier for said closure, means for transmuting movement of the carrier in one direction into retracting movement of the leading edge of the closure when moved in said direction and for transmuting movement of the carrier in the other direction into retracting movement of the other edge of said closure, and means adjacent each edge of the closure operable after retracting movement for moving the closure with the carrier.

2,314,733
AUTOMATIC CATHEAD
Frank M. Owen, Oklahoma City, Okla.
Application April 15, 1938, Serial No. 202,194
12 Claims. (Cl. 254—173)

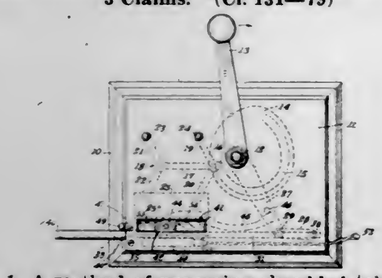
10. In an automatic cathead structure, the combination of: a rotor; a coupler engaging means carried by the rotor; a housing for the rotor; a coupler freely movable in the housing;

a line rigidly attached to the coupler and moveable therewith, said line adapted to be wound upon the rotor when the coupler is engaged therewith; means carried by the housing for



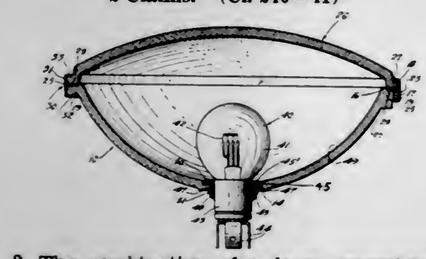
disengaging the coupler from the rotor; and, resilient means carried solely by the line and solely acting to hold the coupler out of engaged position with relation to the engaging means.

2,314,734
PORTABLE CIGARETTE MAKING MACHINE
Kelman Josef Ptasnik, New York, N. Y.
Application February 24, 1940, Serial No. 320,578
3 Claims. (Cl. 131—79)



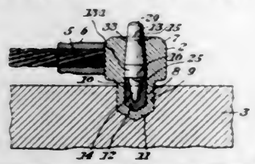
1. A method of preparing shredded tobacco in cigarette machines which consists in subjecting said tobacco to heat treatment during its formation to a cigarette filler, maintaining said heat treatment until greasy ingredients of the tobacco are liberated to thereby cause spreading of said ingredients to the surface of the tobacco shreds constituting the cigarette filler, and moving said tobacco filler while said ingredients are in spread condition.

2,314,735
HEADLIGHT AND PARTS THEREOF
Michael P. Portnow, Newark, N. J.
Application August 9, 1941, Serial No. 406,093
2 Claims. (Cl. 240—41)



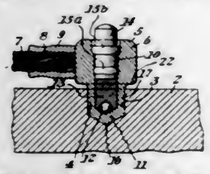
2. The combination of a lamp comprising a bulb having a light source therein and a base having a transversely extending flange of asymmetrical contour accurately located with respect to said light source, a reflector having an opening therethrough at the apex end thereof, a recess in the interior of said reflector at the apex end thereof, the contour of said recess being similar to the contour of said flange, a plurality of slots in the recessed portion of said reflector, said slots communicating with said opening, a plurality of blades extending longitudinally of said base, the radial distance between the outer surface of the upper portion of each of said blades and the longitudinal center line of said base being no greater than the radius of the opening in the apex end of said reflector and less than the radial distance from the center of said opening to the outer end of said slots and the radial distance between the lower portion of said blades and the longitudinal center line of said base being greater than the radius of said opening and less than the distance between the center of said opening and the outer end of said slots, said blades and base extending through said opening and said flange located in said recess, and means cooperating with said blades and reflector to lock said lamp to said reflector from the rear of said reflector.

2,314,736
RAIL BOND TERMINAL
Ernest J. Sabol, Pittsburgh, Pa., assignor, by mesne assignments, to Asbury G. Wilson, John Richard Wilson, and Theodore F. Wilson, Wilkinsburg, Pa., copartners trading as Hanlon & Wilson Company
Application March 16, 1942, Serial No. 434,883
4 Claims. (Cl. 287—20.3)



1. A rail bond terminal comprising a head, an expansible stud adapted to be received in a rail cavity, a bore extending through the head and through a substantial portion of the length of the stud, one end of the bore being closed by the end wall of the stud, a relatively soft material in the bore of the stud, the bore in the head tapering toward its outer end, and a pin of relatively hard material in the bore, said pin tapering toward the outer end of the bore and adapted to be driven against said relatively soft material to expand the stud into tight engagement with the rail.

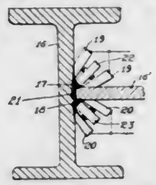
2,314,737
RAIL BOND TERMINAL
Ernest J. Sabol, Pittsburgh, Pa., assignor, by mesne assignments, to Asbury G. Wilson, John Richard Wilson, and Theodore F. Wilson, Wilkinsburg, Pa., copartners trading as Hanlon & Wilson Company
Application March 16, 1942, Serial No. 434,884
5 Claims. (Cl. 287—20.3)



1. A rail bond terminal, comprising a terminal

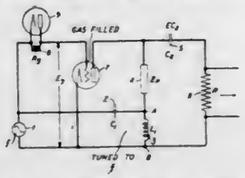
head, an expansible stud adapted to be received in a rail cavity, a bore extending through the head and through a substantial portion of the length of the stud, an expander element of relatively hard material adjacent the bottom of the bore, and a plug of relatively soft material located entirely within the bore and compacted against said expander element and against the wall of the bore, whereby said expander element and plug of relatively soft material are retained in the bore.

2,314,738
METHOD OF ELECTRIC WELDING
Eduard Schenk, Oakdale, Pa.
Application May 4, 1942, Serial No. 441,571
4 Claims. (Cl. 219—10)



1. The method of welding an end of one metal member to the side of another metal member that has abutting engagement therewith, which comprises placing a metallic filler strip in an angle formed by the members, and directing a flow of alternating current across those areas of the members which are adjacent to the sides of the strip and across the abutting areas of said members, through electrodes disposed against the members at points adjacent to the remote edges of the said areas on each of the said members, the current flow across the said areas being always in the same direction at any given instant and maintained until the said areas and the filler metal becomes soft, the current frequency being such that there is magnetic concentration of current flow between the said abutting areas.

2,314,739
ELECTRICAL CIRCUIT EMPLOYING GRID-CONTROLLED GAS DISCHARGE TUBES
William G. Shepherd, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 22, 1941, Serial No. 394,642
9 Claims. (Cl. 250—27)



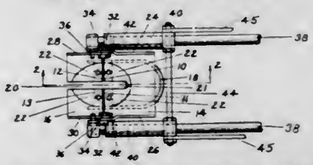
1. A switching circuit comprising a gas-filled space discharge device having a cathode, an anode and a control grid, and circuits therefor, an energy storage device in the anode-cathode circuit of said discharge device, a charging source connected to said energy storage device, means to apply to the control grid-cathode circuit of said discharge device an alternating current wave to periodically cause ionization in said discharge device and allow said energy storage device to discharge therethrough during a part of each cycle of the applied wave, and means to make the series impedance of said control grid-cathode circuit low when the control grid is driven negative, to aid de-ionization, and high when the control grid is driven positive, to avoid power loss.

2,314,740
RING TRAVELER
Stuart H. Sherman, La Grange, and Robert J. Clarkson, Hogansville, Ga., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application March 27, 1942, Serial No. 436,442
8 Claims. (Cl. 57—125)



1. In combination with a spinner or twister ring and spindle, a ring traveler adapted to slide upon said ring and provided with a filament receiving channel that extends lengthwise of the traveler throughout a substantial portion of the length of this traveler in a slightly diagonal direction.

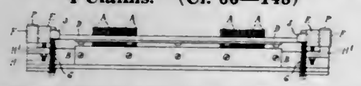
2,314,741
MACHINE FOR OPENING EGGS AND SEPARATING THE CONTENTS
Laurence M. Sigler, St. Louis, Mo., assignor of one-third to Kathryn B. Gill and one-third to James C. Gill, both of San Francisco, Calif.
Application September 19, 1941, Serial No. 411,477
12 Claims. (Cl. 146—2)



1. An egg-opening device, that is adapted for use in machines for opening eggs and separating the contents thereof, to open eggs in hingelike fashion, comprising a pair of egg-receiving pockets, each of said pockets having upstanding sides that are pivotally connected to the corresponding sides of the other pocket to permit movement of the pockets relative to each other in hingelike fashion around an axis substantially perpendicular to said sides, said upstanding sides being dimensioned so the pivotal connections of the upstanding sides are approximately at the level of the top of an egg held by the pockets whereby movement of the pockets relative to each other will cause a portion of the top of the egg to crack and form a hinge for the rest of the egg during the egg-opening operation, said pockets having portions that conform approximately to

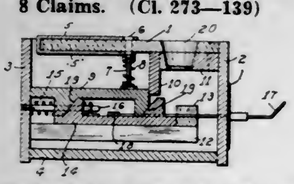
the contour of a portion of an egg and are adapted to position the shell of the egg after the egg-breaking operation, egg-opening prongs carried by the said pockets, said egg-opening prongs conforming approximately to the contour of a portion of an egg, and means to move the pockets relative to each other.

2,314,742
STRAIGHT-BAR KNITTING MACHINE
Harry Wilfred Start, Carlton, and Ernest Start, Wilford, England
Application January 6, 1942, Serial No. 425,792
In Great Britain November 22, 1940
4 Claims. (Cl. 66—148)



1. Mechanism for running work on the needles of a straight-bar knitting machine comprising, in combination, needles, points to receive the work, a bar to hold the points, means pivotally mounting the point holding bar so that the points may be swung into position to engage with the needles and instruments associated with the points and moveable longitudinally thereof by a swinging movement about the point holding bar pivot center to press the work onto the needles after the latter have been engaged by the points.

2,314,743
AUTOMATIC PUNCHBOARD
Robert C. Walters, East St. Louis, Ill.
Application August 15, 1941, Serial No. 407,073
8 Claims. (Cl. 273—139)



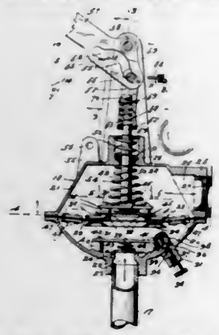
1. The combination with a fixed punchboard, of a manually-operable control element, a punch freely movable independently of said control element to any punch-out position of said punchboard, and means operated by the movement of said control element to actuate said punch through the punchboard.

2,314,744
TOY FIGURE
Donald M. Warren, La Fayette, Ind.
Application November 21, 1941, Serial No. 419,929
7 Claims. (Cl. 46—157)



1. A toy figure member of sheet material designed to stand on edge but of such thickness as to be normally incapable of so doing, and a sheet material support member also designed to stand on edge and of such thickness as to be normally incapable of so doing, means for detachably interconnecting said members in transversely extending upstanding relationship to each other, said interconnecting means comprising a tongue extending edgewise from an upwardly extending edge of one of said members and an opening provided in the other of said members for receiving said tongue, said tongue and opening being of tightly interfitting character, the relationship of said figure and support, when interconnected, being such that they cross each other so that the support extends in opposite directions from the opposite faces of the figure and the figure extends in opposite directions from the opposite faces of the support, and said figure and support, when interconnected having substantially co-planar bottom edge portions.

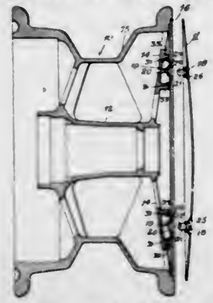
2,314,745
PUMP
Walter F. Wesley, Minneapolis, Minn., assignor, by mesne assignments, to Edward L. Wesley, Minneapolis, Minn.
Application September 7, 1939, Serial No. 293,765
7 Claims. (Cl. 103—151)



1. A pump of the kind described comprising a casing, a diaphragm dividing the casing into an intake compartment and a discharge compartment, an intake port and a discharge port in the casing, the former leading into the intake compartment and the latter leading from the discharge compartment, a port in the diaphragm connecting the two compartments, valves for opening and closing the intake port and the port in the diaphragm, and means for operating the diaphragm to produce pumping action, said operating means including a spring under strain to move the diaphragm in one direction, and connections including a lever for moving the diaphragm in the opposite direction to that imparted thereto by the spring, and against the tension of said spring, said connections being constructed and arranged to impart two strokes to the diaphragm during each stroke of the lever.

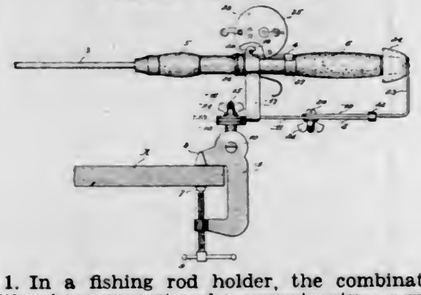
2,314,746
FASTENER ASSEMBLY
Will T. White and Charles H. Zimmerman, Akron, Ohio, assignors to Dzus Fastener Co., Inc., Babylon, N. Y., a corporation of New York
Application August 19, 1941, Serial No. 407,405
7 Claims. (Cl. 85—5)

1. In a fastener assembly for securing two articles or parts together a mounting for a fastener member comprising a bracket having a relatively flat portion formed with an aperture adjacent the center thereof, and means for attaching the bracket to one of the articles or parts comprising a depending flange connected to the relatively flat portion, an outwardly projecting flange connected to the depending flange and a projecting wing formed on the laterally projecting flange projecting beyond the connection between the flange and the bracket, said wing being



cooperable to be disposed at an angle to the remainder of the flange.

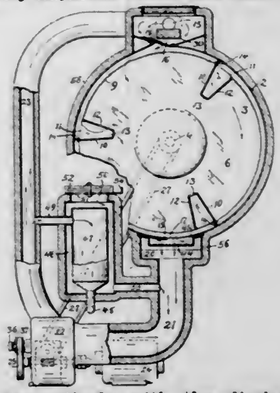
2,314,747
FISHING ROD HOLDER
Mortimer A. White, Rochester, N. Y.
Application December 21, 1940, Serial No. 371,095
2 Claims. (Cl. 248—42)



1. In a fishing rod holder, the combination with a base support and a superstructure carried thereby embodying a rearwardly arranged cup shaped socket for the base end of the rod resisting its movement both rearwardly and laterally and rigid hooked retaining members rising therefrom adapted to interlock over the crossbars of a winding reel in its usual position on such rod, the superstructure being laterally rotatably supported on the base support at a point forwardly of the retaining members for horizontal angular adjustment.

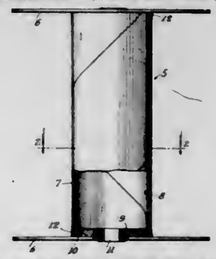
2,314,748
CLOTHES DRYING APPARATUS
William T. White, Fort Wayne, Ind., assignor of one-third to William C. Rastetter, Jr., and one-third to Louis C. Rastetter, both of Fort Wayne, Ind.
Application April 1, 1939, Serial No. 265,581
5 Claims. (Cl. 34—86)

2. A clothes drying apparatus having a supported stationary shell provided with a door, a foraminous drum rotatable in said shell, a fan unit having a suction passage and a discharge passage that have communication respectively with said shell at opposite points whereby an air stream is established, when the door is closed, through the shell and drum upon operation of the fan unit for entrainment in said stream moisture absorbed from damp clothes contained in said drum, a heating unit for the air stream, actuating means for said drum and fan unit including a motor, electrical circuits provided with a source of power for energizing said motor and heating unit, controlling means for automatically closing the heating unit circuit operated by the fan unit when actuated, and a heat exchanger having closely adjacent outlet and inlet passages



connected respectively with the discharge and suction passages of the fan unit, each of said outlet and inlet passages having constant communication therethrough with the atmosphere.

2,314,749
SPOOL, BOBBIN, OR THE LIKE
Philipp Willner, New York, N. Y., assignor to Phil Will's Die Cutting Corp., New York, N. Y., a corporation of New York
Application September 29, 1941, Serial No. 412,873
4 Claims. (Cl. 242—119)

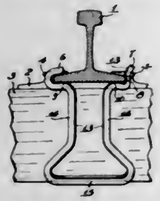


1. A spool comprising a hollow cylindrical body having opposed ends, disc-shaped flanges for said body ends, and means securing said flanges to said body, each of said means comprising a substantially circular head connected to each of said flanges, each head comprising a plurality of stacked fibrous laminae at least the marginal edges of which being free to flex, at least some of the laminae of each head having a diameter slightly greater than the internal diameter of said cylindrical body, whereby a tight fit is established between said body ends and said laminated heads upon engagement of said opposed body ends with said laminated heads, thus bringing about resistance to separation of said heads and said flanges from said cylindrical body ends by the free flexing action of said marginal edges of said laminae within said body ends.

2,314,750
COMBINED RAIL ANCHOR AND BALLAST TAMPER
Emanuel Woodings, Oakmont, Pa., assignor to Woodings-Verona Tool Works, Verona, Pa., a corporation of Pennsylvania
Application September 27, 1941, Serial No. 412,625
1 Claim. (Cl. 238—215)

A combined rail anchor and ballast tamper

formed from a substantially rigid piece of resilient metal bent to form a downwardly bowed portion adapted to extend beneath a rail beside a tie with its upper ends in contact with the bottom of the rail, a jaw at one end of said bowed portion for receiving and gripping a rail base flange, and a notched lug extending upwardly from the opposite end of the bar with the inner surface of its upper end adapted to preliminarily engage the edge of the adjoining rail base flange



to permit the lug to be raised to snap its notch over said adjoining flange and thus lock the bar on the rail, said bowed portion extending downwardly substantially to the bottom of said tie and having a substantially straight and horizontal bottom whereby the wave motion of the rail as trains pass over it causes said bottom of the bowed portion to tamp ballast under the tie, the sides of said bowed portion being substantially parallel from their upper ends part way down and then diverging to said bottom.

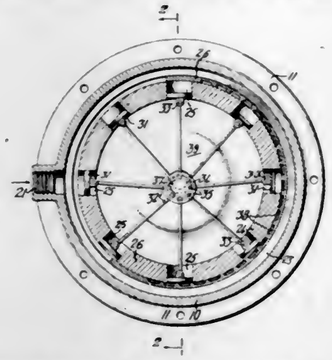
2,314,751
ELECTRICAL CONNECTION
Clement A. Woodward, Dedham, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application November 23, 1940, Serial No. 366,851
3 Claims. (Cl. 173—363)



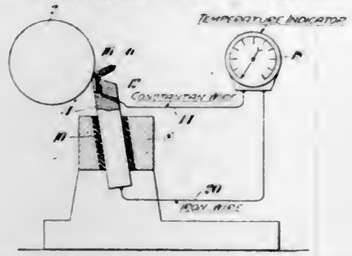
3. A socket member for an electrical connection, said socket member comprising a metal casing having a base and a rim, said rim having an annular shoulder and annular groove above said shoulder, the free edge of said rim constituting the margin of an opening for receiving a stud comprising a part of a cooperating member of the connection, a conducting means electrically connected to said casing, a ring-shaped spring confined in said groove, said spring being contractible and expansible to embrace tightly said stud whereby said parts are secured in connection, and said spring having free ends offset in different directions to engage said shoulder and said free edge under constant spring tension so as to effect a positive electrical connection between said stud and said socket casing while permitting said spring to expand and contract for snap action between the stud and socket.

2,314,752
FLOWMETER
Raymond T. Zwack, East Orange, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application February 13, 1942, Serial No. 430,835
4 Claims. (Cl. 73—247)

1. A flow meter comprising a closed, cylindrical annular body fixed coaxially within said housing, housing having a fluid inlet and a fluid outlet, an a plurality of equally spaced, radially disposed cylinders formed in said body, a piston in each of said cylinders, a crank-shaft coaxially of said housing and annular body, a connector plate carried by said crank-shaft, connecting rods pivotally connected between each of said pistons and said connector plate, a sleeve valve member overlying said annular body for a major part of the periphery thereof, said sleeve valve member having connection to said crank-shaft through a radially projecting, imperforate plate portion and having an axially fluted inner surface forming passageways for fluid displaced from said cylinders, said passageways being in communication with said fluid outlet, and totalizing means actuated upon rotation of said crank-shaft to indicate fluid flow.

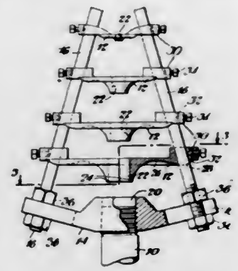


2,314,753
APPARATUS FOR INDICATING TEMPERATURE OF CUTTING TOOLS
Morris Asimow, Los Angeles, Calif.
Application October 20, 1941, Serial No. 415,839
4 Claims. (Cl. 73—359)



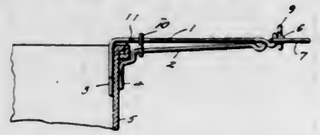
4. Means for determining temperatures produced in a cutting tool which is machining a workpiece, which comprise, in combination, a cutting tool for machining the workpiece, the tool having a cutting edge and a chip-deflecting surface adjacent to the cutting edge, a bore in the tool terminating at the chip-deflecting surface of the tool immediately adjacent to the cutting edge of the tool, means in the said bore forming a thermoelectric junction with the tool at the cutting edge, thereby making the tool an element of a thermocouple operable responsively to frictional heat generated in the tool as the tool machines the workpiece, and means for measuring the amount of thermoelectric current produced by the thermocouple, the thermoelectric current and the heat in the tool which produce the said current being an index of machining properties of the workpiece under given conditions of machining.

2,314,754
SPRAY HEAD
John B. Baird, Houston, Tex., assignor to Hudson Engineering Corporation, Houston, Tex., a corporation of Texas
Application July 25, 1941, Serial No. 403,964
5 Claims. (Cl. 299—130)



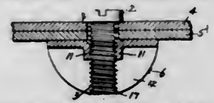
4. A spray head comprising a supporting member having a delivery port, a series of annular distributing plates supported in spaced relation with reference to said member, said plates progressively decreasing in diameter with the plate of smallest diameter being most remote from the member, and central openings in the plates progressively decreasing in diameter with the opening of smallest diameter in the plate of smallest diameter, said plates being formed of a plurality of parts and supported on rods adjustably mounted in the supporting member for movement toward and from the central opening, slots in the plates arranged to receive the supporting rods, said slots being sufficiently long to permit the spacing of the plates and adjustment of the rods with reference to the supporting member to permit the plates to be adjusted toward and from the supporting member, and locking devices for holding each part of the plates in a plurality of different spray distributing positions.

2,314,755
SPOON HOLDING ATTACHMENT FOR COOKING PANS
Joseph Ballarino, Gary, Ind.
Application December 15, 1941, Serial No. 423,116
1 Claim. (Cl. 65—65)



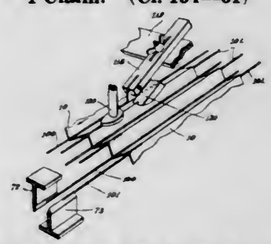
A spoon holding attachment for cooking pans, constructed from two or more pieces of wire bent to form upper and lower resilient body portions provided at their inner ends with loop-shaped clamping heads and twisted together and bent at their outer ends to form a horizontal transverse supporting arm terminating at its outer or free end in an inwardly bent hook or clip, the clamping heads adapted to fit or slip over the edge of the pan rim and engage opposite sides of the latter and the transverse arm forming a support for the outer end of the spoon handle, and a wire loop encircling the resilient body portions of the device and adapted to hold the clamping heads firmly against the sides of the rim when slid into operative position, substantially as and for the purpose specified.

2,314,756
LOCK NUT
William A. Bedford, Jr., Hingham, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application June 14, 1941, Serial No. 398,090
4 Claims. (Cl. 151—21)



1. A wing nut formed from a flat strip of sheet metal comprising a base having a screw-receiving opening and elements adjacent said opening for threaded engagement with said screw, resilient wings integral with opposed side edges of said base extending outwardly from said base, said wings having their inner broad surfaces in opposed facing relation and portions of said wings combining to form finger-gripping elements, and portions of said wings being cupped and threaded and constituting a yieldable threaded screw-receiving passage in substantial alignment with said screw-receiving opening.

2,314,757
MACHINE FOR PLAITING
Edward L. Benedict, New York, N. Y., assignor to Elb Products, Inc., New York, N. Y., a corporation of New York
Application February 19, 1940, Serial No. 319,640
1 Claim. (Cl. 154—31)

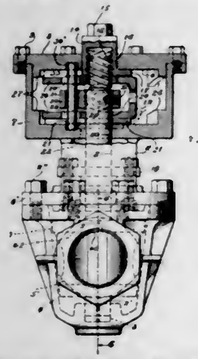


In a machine for forming a unit comprising at least two sheets of flexible plaited material connected along at least some of their folds and one of said sheets having plaits of less depth than the other, the combination with means for gradually plaiting the sheet having the deeper plaits, of means for applying adhesive along and slightly away from the folds on at least one side, and means for applying the other sheet to the adhesive coated portions of the first sheet, said first mentioned means including a stationary support for the folds to be coated, and a stationary grooved adhesive applying nozzle closely adjacent each fold to be coated, and means for supplying adhesive under pressure to said grooved nozzle.

2,314,758
REFRACTORY COMPOSITION
Milton H. Berns, Blasdell, N. Y., assignor to Electro Refractories & Alloys Corporation, Buffalo, N. Y.
No Drawing. Application July 10, 1940, Serial No. 344,779
8 Claims. (Cl. 106—44)

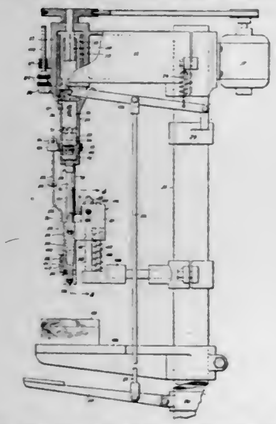
1. A refractory composition for supporting loads at high temperatures, consisting of silicon carbide, mullite in sufficient quantity to encase the particles of silicon carbide with a protective coating of mullite, and approximately ten per cent of a vitrified clay binder.

2,314,759
PLUG VALVE
Robert Bischoff, Baltimore, Md.
Application October 3, 1940, Serial No. 359,464
8 Claims. (Cl. 74—22)



1. An operating mechanism for a valve of the rotary type having a casing and a stem, said operating mechanism comprising a nut threaded on the stem, a carrier secured to the nut, abutment means limiting the play of the nut in axial directions, whereby the nut is enabled to move the stem in an axial direction as it is rotated relatively thereto, an operating arm connected to the stem to turn the same, means connecting the carrier to the arm, said connection having a control, the connection and control comprising means causing the arm and carrier and stem to move in correspondence with the nut, turning together forwardly and backwardly about the axis of the stem through a predetermined arc, said means including a provision for permitting forward turning of the nut prior to the forward turning of the arm and stem, and means for lowering the carrier and nut at the end of said forward turning motion of the stem, whereby the stem is raised at the beginning of said forward motion and lowered at the end of said motion.

2,314,760
POWER SCREW DRIVER
Walter Blair, Detroit, Mich., assignor to Phillips Screw Company, a corporation of Delaware
Application May 8, 1941, Serial No. 392,422
3 Claims. (Cl. 144—32)



1. In a device of the character described, a head member formed therethrough with a passageway, said passageway being operable for receiving an implement rectilinearly movable along a definite path and a fastener element ahead of and engageable by the implement for being driven thereby into fastened relationship with a work piece, means for moving said implement, means forming an aperture of variable area ahead of and in alignment with the fastener element, the area of said aperture normally being relatively small to oppose forward passage of the fastener element as a whole therethrough but being enlargeable to permit such forward passage, means comprising a rectilinearly movable shaft carrying an adjustably mounted abutment for engagement by said means for moving said implement for exerting a force independent of the force exerted by the implement to operate said first-named means and effectuate said aperture enlargement, means operable for controlling the time of initiation of the operation of said second-named means with respect to the time for the arrival of the implement at the end of its forward movement.

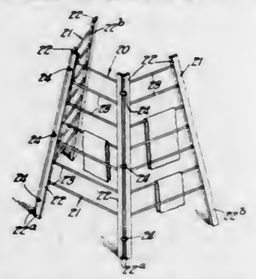
2,314,761
WATER GAUGE
Stefan Bochonok, Enola, Pa.
Application September 18, 1941, Serial No. 411,419
3 Claims. (Cl. 73—330)



1. A water gauge, comprising a casing having an open side, a sight glass V-shape in cross section disposed on the open side of the casing and closing the same, a sight member of V-shape in cross section disposed astride of the sight glass and having longitudinal sight openings exposing a greater portion of the side walls of the sight glass, said sight member having laterally disposed flanges in rear of the sight openings, and a plurality of yokes disposed astride of the casing and having hooked ends engaging over said flanges and adjustably held to lock the sight member against the sight glass.

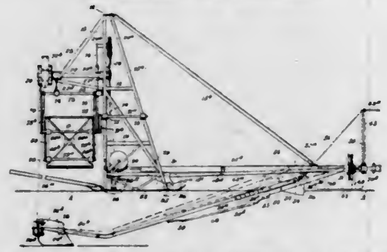
2,314,762
FOLDING CLOTHES DRIER AND METHOD OF MAKING SAME
Fred S. Boltz, Mansfield, Mass.
Application September 24, 1940, Serial No. 358,095
6 Claims. (Cl. 211—178)

1. Method of assembling a clothes drier of the type having several hingedly connected drying racks foldable one upon another and each consisting of spaced side rails and cross bars therebetween, comprising the steps of hingedly connecting side rails in pairs, superposing separate and hingedly connected side rails in two units in the relation which they are to assume in the assembled drier when the same is folded, tying the superposed side rails of each unit together, securing the ends of cross bars to the corre-



sponding side rails of the tied units, and then untying said rail units.

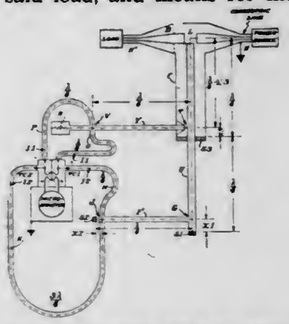
2,314,763
MEANS OR MACHINERY FOR CLEARING OR EXCAVATING DITCHES
Douglas Raymond Bomford, Bevington Hall, near Evesham, England, assignor to Bomford & Evershed Limited, Salford Priors, near Evesham, England
Application June 3, 1941, Serial No. 396,444
In Great Britain July 1, 1940
14 Claims. (Cl. 37—103)



1. In a machine for clearing or excavating ditches, the combination of a traversable standard, a bucket to remove material from the ditch, means carried by the standard for raising and lowering the bucket, means carried by the standard for inverting the bucket, draw bar mechanism for effecting traversing movement of the standard comprising a member fixed to the standard and a movable member connected to the bucket raising and lowering and inverting means and adapted to be drawn by a tractor, and means for holding said movable member in fixed relation to the fixed member to effect traversing movement of the standard and operable to release said movable member to permit it to operate said bucket lifting and lowering and inverting means.

2,314,764
ULTRA HIGH FREQUENCY WATTMETER
George H. Brown, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application April 26, 1941, Serial No. 390,627
8 Claims. (Cl. 171—95)

8. An ultra high frequency meter for measuring the power applied to a load including, in combination, a transmission line connected to said load for deriving a current proportional to the load current and for applying a low impedance to said connection, means including said transmission line and a second transmission line for deriving a current proportional to the voltage across said load, and means for indicating



the power applied to said load as functions of said two derived currents.

2,314,765
DISPLAY CARD, PARTICULARLY FOR PIPE STEMS
Otto Brunner, Jackson Heights, N. Y., assignor to Henry Leonard & Thomas, Inc., Ozone Park, N. Y., a corporation of New York
Application October 23, 1941, Serial No. 416,191
4 Claims. (Cl. 211—60)

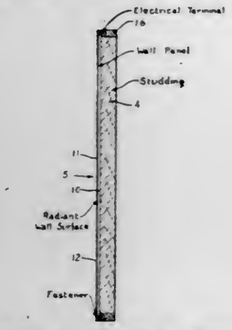


2. A display card for pipe stems, said card comprising a main display board made of cardboard or the like, means on the back of said board to support the same in substantially upright position, said means comprising a single piece of cardboard or the like cut and bent to form side walls connected by a rear wall, the inner edges of the side walls near the top and bottom being turned to form flaps which are cemented to the back of the main board, the main board being slotted at the side walls and said walls being extended through said slots between the top and bottom flaps to provide holder strips which project in vertical position from the front of the display board, said holder strips being perforated to frictionally receive a plurality of pipe stems to be displayed, the rear wall being parallel to the main board, and the side walls being parallel to one another, and the slots in the main board being wider than the thickness of the holder strips, so that said support means and holder strips may be folded flat against the main board when not in use.

2,314,766
SURFACE HEATING ELEMENT
Arthur W. Bull, Grosse Pointe, and Glenn G. Havens, Detroit, Mich., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application April 17, 1940, Serial No. 330,054
10 Claims. (Cl. 219—19)

6. An electrical heating means comprising a relatively non-inflammable heat-insulating, elec-

trically non-conducting support carrying a substantially continuous flexible, substantially non-cracking coating of electrically conductive plastic composition containing electro-conducting carbon in amount capable of liberating substantial and useful amounts of heat energy when generated therein by conversion of electrical energy,



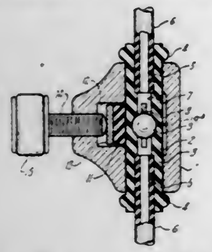
and means for completing an electrical circuit with said coating including spaced metal conductors of different polarity contacting said coating along a substantial length thereof whereby to distribute electrical energy over a comparatively wide area of said coating for conversion therein into thermal energy.

2,314,767

ADJUSTABLE RUBBER VALVE

Guy H. Burrell, Mount Lebanon, Pa., assignor to Burrell Technical Supply Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application March 18, 1942, Serial No. 435,161
4 Claims. (Cl. 251—122)



1. A valve structure comprising a supporting housing, a molded resilient valve body disposed in said housing and held against axial displacement therein, said valve body having a central flow passage, a valve disposed in said passage of a size larger than the passage, an adjusting screw for subjecting the valve body to pressure adjacent the valve, said housing being recessed transversely of the line of pressure to permit flexing and distortion of the valve body.

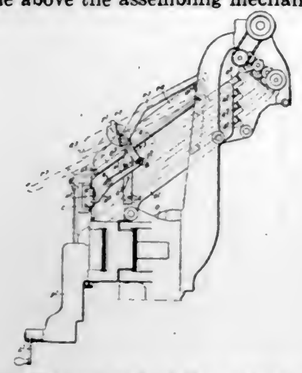
2,314,768

TYPOGRAPHICAL COMPOSING MACHINE

Harold A. Burt, St. Albans, N. Y., assignor to Mergenthaler Linotype Company, a corporation of New York

Application January 8, 1942, Serial No. 425,983
26 Claims. (Cl. 199—45)

1. In a typographical composing machine equipped with assembling mechanism, the combination of a magazine, an overlying, upwardly movable supporting frame wherein the magazine is removably mounted, and means for lifting the said frame above the assembling mechanism pre-



paratory to the removal of the magazine therefrom.

2,314,769

NEUTRAL LUBRICITY-INCREASING AGENTS

Arthur W. Burwell, Niagara Falls, N. Y., assignor to Alox Corporation, New York, N. Y., a corporation of New York

No Drawing. Application June 7, 1941, Serial No. 397,137
4 Claims. (Cl. 252—42)

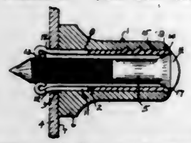
4. An improved lubricity-increasing agent for use in lubricating oils consisting essentially of a mixture of low molecular weight aliphatic alcohol esters of relatively high molecular weight saturated aliphatic carboxylic acids of mineral origin and a minor proportion of lithium soaps of said acids, the acid number of said mixture not exceeding 2, said mixture being characterized by being substantially non-corrosive to aluminum, magnesium and alloys thereof.

2,314,770

ATTACHING DEVICE

Elliot P. Cogswell, Cambridge, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts

Application June 28, 1941, Serial No. 400,256
3 Claims. (Cl. 85—2.4)



1. A shelf support for refrigerators and the like comprising a shelf-supporting member having an axial passage extending through opposed ends thereof, a metal-attaching member having a tubular shank disposed within said passage, a yieldable fastener means at one end of said shank adapted to be inserted in the aperture of a supporting panel and expanded by a pin inserted axially of said shank for gripping the walls surrounding said aperture, said shank having a laterally projecting element at the opposite end engaging the opposite end of said shelf-supporting member adjacent said axial passage for limiting axial movement of said parts in one direction, and said shank having a second projecting element intermediate its ends engaging the wall of the passage through said shelf-supporting member to limit axial movement of said parts in an opposite direction.

2,314,771

HEADREST

Charles A. Compton, Washington, D. C.

Application October 10, 1941, Serial No. 414,529
3 Claims. (Cl. 5—337)



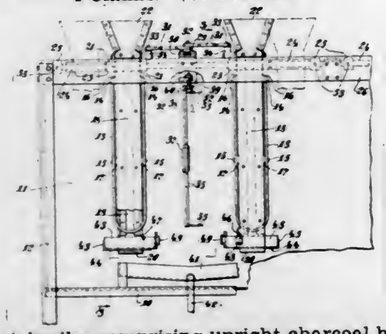
2. A collapsible head rest comprising a base member, a pair of spaced frames pivoted on said base member and rising therefrom, a strip of fabric connected between the tops of the frames, a rod adjacent one frame and having one end connected with the top of the associated frame, a second rod in line with the first rod and having connection at one end with the base member, a turnbuckle, the other ends of the rods being threaded into said turnbuckle for causing the top of the associated frame to be drawn outwardly for pulling the fabric taut, means for retaining the other frame against movement, each rod having a shoulder thereon near an end of the turnbuckle, a second turnbuckle, rods extending from the opposite ends of the second turnbuckle and provided with bearings coacting with the shoulders on the first-mentioned rods to prevent total disengagement of said first-mentioned rods from the associated turnbuckle.

2,314,772

BROILER

Thomas Corra, New York, N. Y.

Application January 9, 1942, Serial No. 426,132
4 Claims. (Cl. 126—14)



1. A broiler comprising upright charcoal burners supported in suspended, substantially parallel relation facing each other, means for effecting relative adjustment of said suspended upright charcoal burners toward and away from each other, a grill, means for suspending said grill in position between said charcoal burners, a drip pan extending below both said charcoal burners and removable ash trays at the bottom of and carried by said burners, above said drip pan.

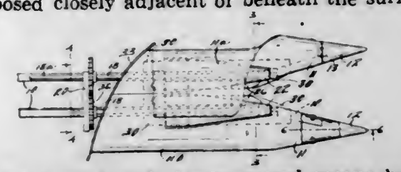
2,314,773

VINE PULLING MACHINE

Eben D. Dahlman, Grandy, Minn.

Application February 25, 1942, Serial No. 432,267
7 Claims. (Cl. 55—66)

1. A device for pulling and discharging potato vines having in combination, a pair of laterally spaced conical members having forward substantially pointed ends and having rearwardly converging sides, spaced guide members extending rearwardly from said first mentioned members, a pair of laterally spaced rollers between which the vines are guided, said conical members having their central axes inclining downwardly from said rollers so that the pointed ends thereof are disposed closely adjacent or beneath the surface



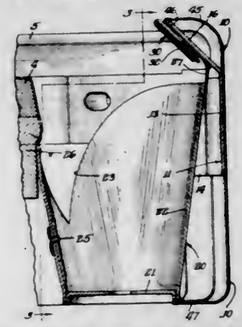
of the ground and closely spaced means below said guiding means and rollers between which the vines must move upwardly, said means being constructed and arranged to separate the potatoes from said vines.

2,314,774

POCKET FOR BILLIARD TABLES

Alfred F. Debicki, Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill., a corporation of Delaware

Application June 5, 1942, Serial No. 445,837
10 Claims. (Cl. 273—12)



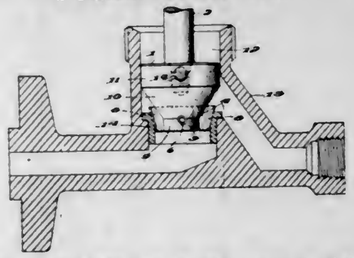
1. In a pocket structure for billiard tables, a pocket support formed of sheet stock and comprising a vertically disposed web with lateral ears extending therefrom for attachment to the table structure and an arm extending obliquely upward and inward from the web portion, and means for suspending one side of a pocket from said arm.

2,314,775

CUTTER HEAD

Frederick A. Dexter, Orange, Mass., assignor to The Leavitt Machine Company, Orange, Mass., a corporation of Massachusetts

Application October 24, 1941, Serial No. 416,419
2 Claims. (Cl. 90—12.5)



1. A cutter head for attachment to the lower end of a revoluble spindle of a valve seat resurfacing tool, said head constituting a unitary cut-

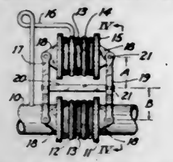
ting blade holder and pilot and comprising a lower conical portion provided with a diametral slot for receiving a cutting blade and an upper cylindrical portion concentric with the axis of rotation of said spindle for centering the head with respect to the valve seat to be operated upon, the diameter of said cylindrical portion being greater than the length of said slot.

2,314,776

PIPE EXPANSION JOINT

Frederick W. Dittus, Berkeley, Peter J. Bertoglio, Alameda, and William H. Spaulding, Berkeley, Calif., assignors to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware

Application February 24, 1942, Serial No. 432,098
6 Claims. (Cl. 285—90)



1. An expansion joint comprising aligned abutments adapted to be connected in a conduit carrying fluid under pressure, a first expansible and collapsible tubular means connecting said abutments and subject to the internal fluid pressure in said conduit, a second expansible and collapsible tubular means subject to said internal fluid pressure, abutments at the ends of said second tubular means and means connecting said abutments to balance the elongating force in said conduit due to the difference between the internal and external fluid pressure, said means being so constructed and arranged as to permit longitudinal expansion and contraction of said tubular means.

2,314,777

MECHANICAL PENCIL

Hastings Macleod Farrington, London, England

Application August 18, 1941, Serial No. 407,360
In Great Britain August 17, 1940
4 Claims. (Cl. 120—19)
(Granted under the provisions of sec. 14, act of March 2, 1927; 357 O. G. 5)



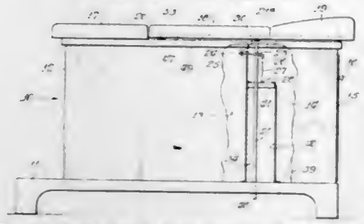
1. In a mechanical pencil, a hollow body casing having a longitudinal slot formed in the wall thereof, an integrally formed carrier member adapted to be received within the bore of said casing and having a forward portion of tubular configuration adapted to receive a writing lead, and further having a rear portion formed as a resilient strip and being bent at a point intermediate its length to form a forward leg and a back leg which make an obtuse angle between them, said angle and the lengths of said legs being of such values that when said carrier member is positioned within the bore of said casing, the common point of said legs impinges on the wall of the bore of said casing and the free end of said back leg is resiliently lockingly impinged on the opposite side of the inner wall of the bore of said casing, whereby application of upward pressure from said lead on said carrier member during writing intensifies the grip of the locking impingement of said free end on said wall.

2,314,778

PHYSICIAN'S EXAMINING TABLE OR THE LIKE

George E. Froelich, Two Rivers, Wis., assignor to Hamilton Manufacturing Company, Two Rivers, Wis., a corporation of Wisconsin

Application August 20, 1941, Serial No. 407,555
6 Claims. (Cl. 311—7)



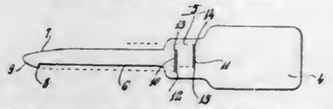
6. In a physician's examining table or the like having a base and a rest member hinged thereto to move toward and from the base, that improvement therein which comprises a single centrally located lifter rod movable in a vertical plane extending medially longitudinally of the base, said rod being articulated at its upper end with the rest member and having a lower free end received in the base, lateral supporting means carried by the base passing the intermediate portion of the lifter rod therethrough, said means having a laterally restricted slot therein through which the rod passes and said slot being elongated longitudinally of the base for accommodating different angular positions of the rod with respect to the base, said slotted means having a pair of vertically spaced apart wall portions extending in the direction of said plane and laterally spaced apart for slidably but snugly passing the rod therethrough whereby to guard against lateral canting of the rod, and means carried by the base for adjustably gripping or releasing the rod for said movement.

2,314,779

TAG

Warren Fuhrmann, Kearny, N. J.

Application December 29, 1941, Serial No. 424,726
6 Claims. (Cl. 40—21)



1. A tag comprising a body portion and a tongue extending from and in the plane of the body portion and having at the free end a hook portion extending from a longitudinal edge thereof, and said body portion being arranged with a pair of parallelly spaced slots disposed therein to extend transversely of and in stepped relation

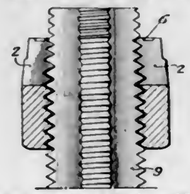
to the longitudinal axis of the tongue with the slot nearest the tongue having one end terminating in alinement with the hook portion and the opposite end of said slot terminating in alinement with the longitudinal edge opposite the longitudinal edge of the tongue arranged with the hook portion, and the slot farthest from the tongue having one end terminating in alinement with the longitudinal edge arranged with the hook portion and the opposite end of said farthest slot extending beyond the longitudinal edge opposite the longitudinal edge arranged with the hook portion, whereby the free end portion of the tongue is engaged in the slots by canting said end portion in alinement with the stepped relationship of the slots and the normal position of the tongue relative to the body portion positioning the hook portion of the tongue to extend beyond the second end of the slot farthest from the tongue and retain the tongue in the slots.

2,314,780

LOCK NUT AND METHOD OF MANUFACTURE

Harald F. Gade, Philadelphia, Pa., assignor to Pennsylvania Manufacturing Company, Jenkintown, Pa., a corporation of Delaware

Application August 21, 1942, Serial No. 455,640
10 Claims. (Cl. 10—86)



7. In the manufacture of self-locking nuts, the method which consists in slotting a threaded nut blank from one end to form a plurality of segmental portions, performing work on said segmental portions to slightly reduce the pitch of the thread adjoining the outer ends of the segments and to displace the segments toward the axis of the nut so as to cause them to obstruct the normal bore of the latter and to resiliently resist the threading of the nut on a companion bolt, subjecting the nut to a retapping operation with a tap of lesser pitch diameter than the tap used in producing the original threads in the blank, and subjecting the nut to a further retapping operation with a tap corresponding in pitch diameter to the said original tap, the last-named tapping operation embracing only that portion of the thread extending from the unslotted end of the nut to a point beyond the base of said slots and adjacent to the outer ends of said segments.

2,314,781

MARINE MINE DESTROYER

Harry J. Ganis, Winchester, Va.

Application May 6, 1940, Serial No. 333,454
3 Claims. (Cl. 114—240)



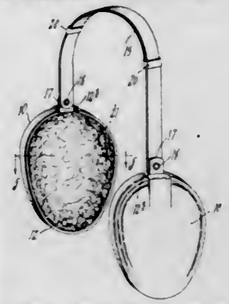
1. Means for destroying marine mines for connection with a sea going vessel including in combination a pair of beams for pivotal connection at their rear ends to opposed points on the starboard and port sides of the vessel near its midship, said beams extending in parallel relation to each other beyond the prow of the vessel and adapted to swing on their said pivotal connections in planes parallel to a fore-and-aft vertical plane of the vessel, a rigid bar transversely connecting the forward ends of said beams, a mine contactor and a rigid supporting frame therefor, said frame having a rigid bar pivotally connected at its middle with the middle of the aforesaid bar connecting said parallel beams, and buoyant means for maintaining said mine contactor supporting frame in operating position in the water.

2,314,782

EAR MUFF

Louis Goretsky, Roxbury, Mass.

Application March 17, 1941, Serial No. 383,723
6 Claims. (Cl. 2—209)



1. An earmuff comprising a molded, rigid plastic casing lined with an ear-covering lining piece, said casing having a bottom portion and a peripheral wall of a contour generally like that of an ear, said lining piece being fitted into said casing so as to occupy substantially the entire area defined by said peripheral wall.

2,314,783

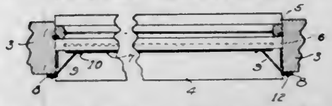
WITHDRAWN

2,314,784

BLACK-OUT SHADE CONSTRUCTION

Bud Helgoth, St. Louis, Mo.

Application February 9, 1942, Serial No. 429,972
9 Claims. (Cl. 160—41)



1. The combination with a window shade adapted to cover an opening, of a side member adapted to be fixed in place along a side of said opening and overlap the side edge of said shade to press the latter in one direction, said member slidingly yieldingly engaging only one face of said shade.

2,314,785

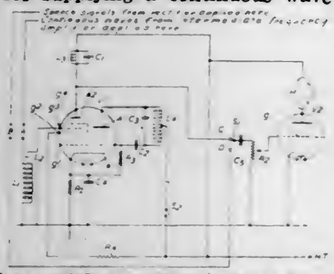
RADIO RECEIVER

John Douglas Holland, London, England, assignor to International Standard Electric Corporation, New York, N. Y.

Application February 27, 1942, Serial No. 432,589
In Great Britain February 7, 1941
2 Claims. (Cl. 250—20)

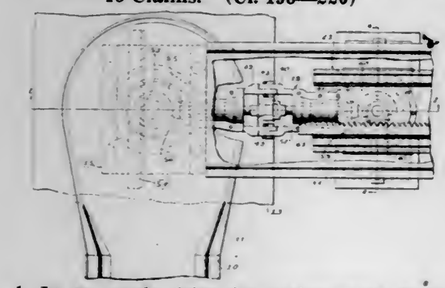
1. In a superheterodyne receiver of the type

having an intermediate frequency wave circuit including an intermediate frequency amplifier adapted for the reception of continuous or speech modulated waves having automatic volume control means connected therewith, and a local oscillator for supplying a continuous wave to beat



with the amplified continuous wave from said intermediate frequency amplifier, the combination including electronic means for producing a beat wave in response to waves from said intermediate frequency amplifier and said oscillator, said oscillator being electronically coupled with said beat producing means.

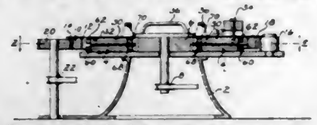
2,314,786
SHAKER CONVEYER
John H. Holstein, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application June 6, 1941, Serial No. 396,834
15 Claims. (Cl. 198—220)



1. In an angle drive for reciprocably driving one trough section of a shaker conveyer from another, a base having one trough section reciprocably mounted thereon, another base adjustably movable about said first mentioned base and having said other trough section reciprocably mounted thereon, a link pivotally connected to one of said bases and holding said bases in fixed spaced relation with respect to each other during movement of one base about the other, drive means extending parallel to said link, a geared drive connection from one of said trough sections to said drive means and a geared drive connection from said drive means to said other trough section.

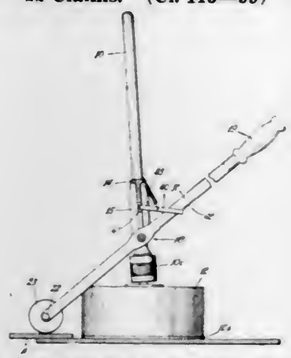
2,314,787
GRINDING MACHINE
Grover C. Hunt, Carlisle, Pa.
Application December 6, 1941, Serial No. 422,001
6 Claims. (Cl. 51—161)

4. A lapping machine comprising upper and lower abrasive discs, a plurality of work holders disposed between the discs and arranged in a series about the common center thereof and each having at least one opening therethrough within which a work piece is adapted to be held, means for causing planetary movement of said work holders about the common center of the discs and rotary movement about their individual axes whereby work pieces held by the work holders will be moved radially and circumferentially over the discs, the dimensions of the discs



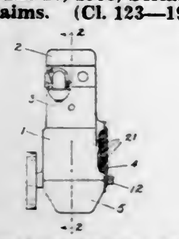
and of the work holders being such that in its outermost position of radial movement a part of each work piece passes beyond the outer periphery of the discs, and a ring surrounding and mounted on at least one of the discs for adjusting movement toward and away from the working face thereof.

2,314,788
WELDING JIG
John William Innes, Philadelphia, Pa.
Application May 22, 1941, Serial No. 394,629
12 Claims. (Cl. 113—99)



1. In an apparatus of the class described, the combination of an electromagnetically energized grappling assembly, means for energizing said grappling assembly to attach the same to an object to be welded, work engaging means adapted to abut an object to be welded to that attached to the grappling assembly, and a pivotal lever connection for operatively securing said work engaging means to said grappling assembly, said connecting lever having an operating portion for manipulating said work engaging element and said grappling assembly in opposed directions to draw together the objects to be welded.

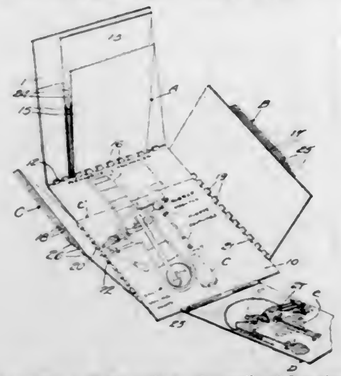
2,314,789
INTERNAL COMBUSTION ENGINE
Edwin Jacobsen, Glendale, Calif.
Application June 17, 1938, Serial No. 214,229
7 Claims. (Cl. 123—197)



1. In an internal combustion engine, a piston,

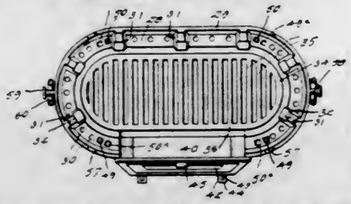
a crankshaft intersected by the piston axis, a connecting rod interconnecting the piston and crankshaft and made in two parts hinged together, an auxiliary crankshaft at one side of the piston axis, a pitman from said auxiliary crankshaft to the hinge of said rod, and means causing the two shafts to rotate at the same speed.

2,314,790
FOLDER
Martin Jenter, Pelham, N. Y., assignor to Jenter Corporation, Ridgefield, N. J., a corporation of New Jersey
Application April 15, 1942, Serial No. 439,046
11 Claims. (Cl. 35—54)



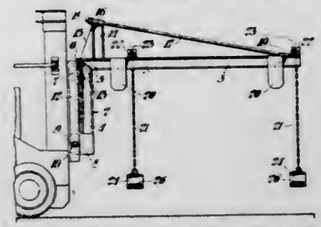
1. A device of the class described having a support, a first series of leaves, a second series of leaves, means hinging the leaves to the support for movement of the leaves of one series on an axis at an angle to the axis of the leaves of the other series so that one series may normally be superimposed on the other series, said leaves having edge portions stepped whereby areas of the leaves of both series are exposed in normal condition, a picture delineated on and common to the uppermost surface of the uppermost leaf and said exposed areas, and a locator pivoted to the support on an axis different from the leaves for disposition over said leaves, said locator being diaphanous and having picture matter delineated thereon related to and arranged for coaction over and with the first mentioned picture.

2,314,791
PORTABLE STOVE
Bolling Jones, Jr., Robert H. White, and Lynt White, Atlanta, Ga., assignors to Atlanta Stove Works, Atlanta, Ga.
Application December 2, 1940, Serial No. 368,272
3 Claims. (Cl. 126—1)



2. In a portable stove having an open top hollow body; the combination of a flared rim carried by the upper edge of said body and provided with openings therethrough, a grill, supporting lugs for said grill carried by said rim, a spaced apart pair of front legs carried by said grill, a spaced apart pair of rear legs carried by said grill, said pairs of legs being spaced apart different distances, the rear of said rim having a pair of openings spaced apart to receive said front legs therethrough and the front of said rim having a pair of openings spaced apart to receive said rear legs therethrough, said pairs of legs extending through said openings when said grill is one position with said grill resting on said lugs, said leg openings and said grill legs being so disposed that in a reversed position of said grill said grill legs are disposed out of registry with said leg openings and the lower ends of said grill legs rest on said rim.

2,314,792
DEVICE OR ATTACHMENT FOR LIFTING BOXES AND THE LIKE
William E. Korner, Gary, Ind., assignor to Carnegie-Illinois Steel Corporation, a corporation of New Jersey
Application December 20, 1941, Serial No. 423,834
11 Claims. (Cl. 214—75)

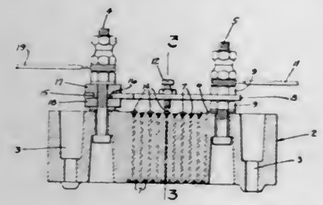


1. A device of the class described for lifting boxes and the like comprising a frame member, downwardly extending, substantially rigid means carried by said frame member which is stationary relative thereto against which one side of the top portion of the box or article to be lifted is adapted to lie and which is adapted to be disposed to one side of the box or article, means suspended from said frame member which extends a substantial distance below said first mentioned means and which is adapted to be disposed on the side of the box or article opposite that from said first mentioned means at a spaced distance therefrom, and means carried by said last mentioned means which is adapted to extend in under the bottom of the box or article on that side thereof to support the same, said first mentioned means adapted to prevent the box or article from tipping and said second mentioned means adapted to support the same at the bottom thereof.

2,314,793
VARIABLE RESISTANCE UNIT
Stanley W. Law, St. Paul, Minn.
Application August 3, 1940, Serial No. 350,761
2 Claims. (Cl. 201—63)

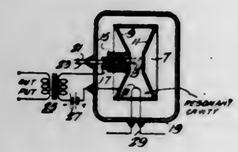
1. A resistance unit adapted for use in a railroad signal control circuit, said unit comprising an insulating block, spaced terminal posts mounted in said block and fixedly secured thereto, a resistance coil in direct circuit with said terminal posts, a conductor plate having one end fixedly secured to one of said terminal posts and in circuit therewith, the intermediate portion of said conductor plate being disposed over the convolutions of said coil and spaced therefrom, a contact screw carried by the conductor plate for electrically connecting said plate to a selected convolution of said coil and whereby the

effective resistance of said coil in the control circuit may be varied, a pair of carborundum elements mounted on the other of said terminal posts and between which the adjacent end of the conductor plate is supported, one of said elements having a reduced portion received in an aperture provided in the adjacent end of the conductor plate whereby said end of the plate is spaced from its respective terminal post, means on said terminal post for securing the carborundum elements in intimate contact with the conductor plate and whereby said plate is retained



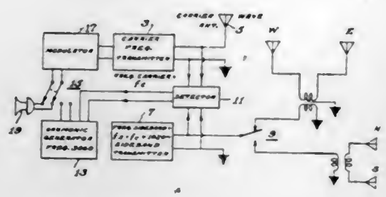
in fixed relation to the resistance coil, said carborundum elements presenting high resistance to direct current, such as used for operating railroad signal systems, whereby the normal flow of low voltage current in the control circuit will be through the resistance coil, and said elements presenting low resistance to high voltage surges such as lightning discharges, whereby when lightning strikes a rail or the control circuit, the high voltage current thereof will be shunted through the conductor plate and said carborundum elements, thereby preventing damage to the resistance coil.

2,314,794
MICROWAVE DEVICE
Ernest G. Linder, Philadelphia, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Application June 25, 1940, Serial No. 342,235
1 Claim. (Cl. 250—27)



An ultra high frequency detector comprising a resonant cavity electrode having an apertured end, a tubular member forming a projection of said electrode and surrounding said aperture, a cathode having an electron emissive surface located within said tubular member outside of said cavity electrode and insulated therefrom whereby regions of said cathode immediately adjacent said emissive surface are capacitively coupled to said tubular member, means for causing an electron stream to flow through said resonant electrode comprising means for applying a positive potential to said electrode with respect to said cathode, means for establishing standing waves of modulated high frequency energy in said cavity electrode, means for varying the electron current from said cathode in response to the amplitude of said standing waves, and output means coupled to said resonant cavity electrode and responsive to said changes in electron current.

2,314,795
RADIO RANGE
David G. C. Luck, Haddon Heights, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application May 5, 1939, Serial No. 272,017
7 Claims. (Cl. 250—11)



3. A radio range including a source of sideband radio frequency energy, a source of carrier frequency energy, a detector, means for applying said energies to said detector to derive a current of a frequency corresponding to the difference of said sideband and carrier frequencies, means for obtaining a current at a harmonic of said difference frequency, and means for modulating said carrier energy with said harmonic frequency current.

2,314,796
COMBINATION WEARING APPAREL AND PROTECTOR THEREFOR
Herman Marx, New York, N. Y.
Application June 27, 1942, Serial No. 448,780
18 Claims. (Cl. 36—1)

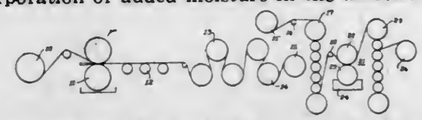


1. The combination of footwear having an upper and outsole joined to said upper, with protecting means in engagement with the joint of said outsole and upper and extensible when in operative position to the upper or outside of said footwear, and retractable to a location adjacent of said joint when in inoperative position.

2,314,797
PAPER MANUFACTURE
Donald F. Morris and Leonard R. Growdon, Chillicothe, Ohio, assignors to The Mead Corporation, Chillicothe, Ohio, a corporation of Ohio
Application November 19, 1937, Serial No. 175,366
5 Claims. (Cl. 117—68)

2. The process in the forming of paper for use in printing, and the like, and adapted to have substantially reduced curling tendencies due to the stabilization of forces created within the sheet by unequal treatment of the two sides thereof, which comprises applying a surface coating to

one side only of the formed sheet, drying the coated sheet, said dried coated sheet having a tendency to curl toward the coated side resulting from forces set up within the sheet, calendering the sheet, subjecting the calendered sheet to a wet pressing operation to effect uniform incorporation of added moisture in the amount of



approximately 1.5% to 2.0% into the sheet upon the uncoated side thereof, the added moisture being effective to stabilize the forces within the sheet and substantially reduce the curling tendencies caused by the forces initially present within the sheet, and lightly recalendering the sheet with the added moisture therein.

2,314,798
COMPOSITE ELECTRIC CONDUCTOR STRAND
Thomas F. Peterson, Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application August 15, 1939, Serial No. 290,294
1 Claim. (Cl. 174—128)



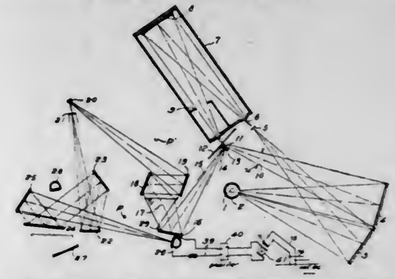
An overhead electric transmission line of the type consisting solely of three relatively movable intertwisted wires with at least one of the wires made of copper and the remainder made of steel, and which is suspended in a span of sufficient length under sufficient tension to urge the mutually opposed wire portions together with great force and to cause them to relatively move when the span is subjected to wind force, each of said wires being individually coated with a zinc layer, the mutually opposed wire portions being in each instance supported apart on said zinc layers and being in each instance relatively movable thereon so when the span is subjected to wind force, each of these portions moves on its zinc layer relative thereto, the zinc layer lubricating the portion moving thereon so it moves smoothly to diminish vibration of the type produced by the portions when relatively moving in direct contact, and so as to reduce local wear causing local wire depressions initiating fatigue failure thereof.

2,314,799
CARRYING MEANS
Herbert M. Piker, Hamilton, Ohio, assignor to The Hamilton Metal Products Company, Hamilton, Ohio, a corporation of Ohio
Application July 22, 1940, Serial No. 346,774
1 Claim. (Cl. 16—115)



In a carrying handle of the class described formed from a blank of sheet metal having elongated apertures for attaching links adjacent the corners thereof bent to form a handle body portion and end supports, in which the metal is bent to form side portions and a connecting top portion for the handle body portion and end supports, each said side portion between the end supports being bent toward the other to form a bottom member for the body portion of the handle and with each side of the end supports depending below the handle body portion in the form of arms for rests for the carrying handle, and with the elongated apertures for attaching links in alignment with one another having their major axes extending toward the middle of the handle.

2,314,800
INFRARED SPECTROPHOTOMETER
Orrin W. Pineo, Milo, Maine, assignor, by mesne assignments, to American Cyanamid Company, New York, N. Y., a corporation of Maine
Application July 21, 1939, Serial No. 285,689
5 Claims. (Cl. 250—43)

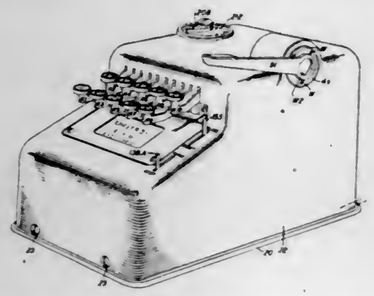


1. An infra-red photometer comprising in combination a source of infra-red radiation, means for splitting the radiation into two beams, the first of them being used as a reference beam, means for interposing in the second beam a sample whose absorption is to be measured, means for controlling the amount of one of the beams, an infra-red monochromator having entrance and exit slits, flickering means for alternately conducting the reference beam and sample beam to the entrance slit of the monochromator, said flickering means operating at a uniform and closely controlled frequency, a high resistance bolometer consisting of a substantially continuous conducting path of an element of high specific resistance, said bolometer having a heat capacity sufficiently small to follow thermal fluctuations at flicker frequency, means for focusing the emergent beam from the exit slit of the monochromator onto said bolometer, a circuit in which said bolometer is provided with a constant direct current and is connected to the input of a thermionic amplifier capable of high amplification at flicker frequency, an electric motor driven by the output of said amplifier in interaction with alternating current of fixed phase at flicker frequency, drive means from the motor to the means for controlling the intensity of the controlled beam, the phase of the amplifier output current being adjusted with reference to said fixed phase so that the rotation of the motor will be in a direction to make the amount of the reference beam balance the sample beam.

2,314,801
TELEPHONE CALL TRANSMITTER
John G. Roberts, Dobbs Ferry, and Charles D. Richard, West New Brighton, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 7, 1939, Serial No. 293,710
13 Claims. (Cl. 179—90)

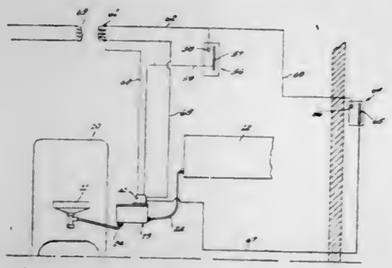
2. In a call transmitter, a set of key members,

bars actuated by said key members respectively, spring retracted plungers actuated by said bars respectively, a motor mechanism, longitudinally movable pulsing elements actuated by said motor,



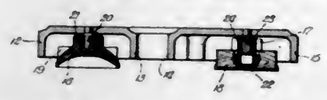
and normally ineffective stop means positioned by the operation of said plungers by said bars for controlling the longitudinal operation of said pulsing elements.

2,314,802
GRAVITY FEED CONTROL DEVICE
Roy P. Skerritt, Detroit, Mich.
Application December 7, 1940, Serial No. 369,026
5 Claims. (Cl. 236—91)



1. In a heating system, heating means for supplying heat to a selected space, fuel supply means for supplying fuel to said heating means, valve means operatively disposed between said fuel supply means and said heating means for controlling the supply of fuel from the one to the other, actuating means for actuating said valve means, a thermostat disposed in an electrical circuit therefor and operable responsive to temperature variations within said space for controlling said circuit, a second thermostat disposed in a second electrical circuit therefor and operable responsive to temperature variations without said space for controlling said second circuit, means in series with one of said thermostats and operable responsive to the closing of the respective circuit therefor for converting the resulting electrical energy into heat energy, and means operatively connected to said valve actuating means and in heat exchange relationship with said energy converting means for responding to the creation of said heat energy to actuate said valve means a predetermined extent and also being disposed in series with the other of said thermostats and operable responsive to the closing of the respective circuit therefor for converting the resulting electrical energy into mechanical energy to actuate said valve means another predetermined extent.

2,314,803
SIGN ELEMENT AND MEANS FOR MOUNTING THE SAME
Erwin Wagner, Berwyn, and Walter S. Wagner and Ralph J. Jordan, Chicago, Ill., assignors to Wagner Sign Service, Incorporated, Chicago, Ill., a corporation of Illinois
Application December 11, 1939, Serial No. 308,544
9 Claims. (Cl. 40—142)



1. An object for attachment to a structure having a smooth surface, comprising, in combination, a body made of relatively solid material, a disk-like mounting member secured to and projecting from the rear of said body for receiving a film of cement for adhesion to said surface, and a suction cup for holding said body in position on said surface until the cementing of said disk-like mounting member is effected.

2,314,804
GLASS ARTICLE
Herbert S. Willson, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York
No Drawing. Application December 7, 1938, Serial No. 244,474
5 Claims. (Cl. 49—92)

1. A glass article composed throughout of a borosilicate glass containing a substantial amount of an oxide of an easily reducible metal selected from the group consisting of lead and copper, selected portions of the surface layer of the glass having a different color than the interior portion of the glass, said selected portions being formed from the same glass forming constituents as the interior portion but having a substantial amount of the said metal oxide reduced to the metallic state.

2,314,805
FLOATING TANK ROOF SEAL
John H. Wiggins, Chicago, Ill.
Application May 24, 1940, Serial No. 337,022
4 Claims. (Cl. 220—26)



1. In a floating tank roof seal, the combination of an annular, circumferentially flexible side wall shoe provided at its upper end with a doubled or folded portion, a floating roof, a substantially annular-shaped fabric sealing element whose outer edge is embraced by and gripped tightly to the doubled portion of said shoe, a sheet metal structure of substantially inverted frustum form

mounted horizontally on the roof with its lower end portion sealed to the roof, and a portion at the upper end of said sheet metal structure that embraces and tightly grips the inner edge of said fabric sealing element.

2,314,806
EXPLOSIVE COMPOSITION
Clarence H. Winning, Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 14, 1940, Serial No. 365,609
11 Claims. (Cl. 52—11)

1. An explosive composition comprising a water-soluble oxygen-supplying inorganic salt, a sensitizing agent, and barley meal in pulverulent form.

2,314,807
EXPLOSIVE COMPOSITION
Clarence H. Winning, Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 26, 1940, Serial No. 367,217
11 Claims. (Cl. 52—11)

1. An explosive composition containing not more than 25% liquid explosive, said composition comprising a water-soluble oxygen supplying inorganic salt, a sensitizing agent, and rye flour in pulverulent form.

2,314,808
EXPLOSIVE COMPOSITION
Clarence H. Winning and Ross J. Miller, Woodbury, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 17, 1940, Serial No. 370,488
10 Claims. (Cl. 52—11)

1. An explosive composition comprising a water-soluble oxygen-supplying inorganic salt, a sensitizing agent, and spelt meal in pulverulent form.

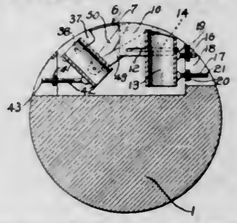
2,314,809
EXPLOSIVE COMPOSITION
Clarence H. Winning, Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application January 7, 1941, Serial No. 373,421
11 Claims. (Cl. 52—11)

1. An explosive composition comprising a water-soluble inorganic salt selected from the group consisting of ammonium nitrate, sodium nitrate, the chlorates and the perchlorates, a sensitizing agent, and oat flour in pulverulent form.

2,314,810
EXPLOSIVE COMPOSITION
Clarence Herman Winning, Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application February 18, 1941, Serial No. 379,445
12 Claims. (Cl. 52—11)

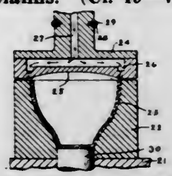
1. An explosive composition comprising a water-soluble oxygen-supplying inorganic salt, a sensitizing agent, and a cereal meal of the species *Andropogon sorghum* in pulverulent form.

2,314,811
BOWLING BALL GRIP
John Henry Akin, Ames, Iowa, assignor of one-third to Allene Akin Dealy, and one-third to George Henry Akin, Ames, Iowa
Application July 12, 1940, Serial No. 345,213
4 Claims. (Cl. 33—174)



1. In a bowling ball grip, a frame including a body plate having a thumb stall opening, mounting plates depending from the frame adjacent the opening, said mounting plates having slots, a thumb stall mounted in the opening, pins engageable in the slots and connected with the thumb stall and being operable for slidably mounting the thumb stall within the opening, said pins also providing pivotal mounting for the thumb stall within the opening, means for adjusting the thumb stall longitudinally within the opening, and means for adjusting the tilting of the thumb stall within the opening.

2,314,812
METHOD OF MAKING GLASS ARTICLES
Henry H. Blau, Elmiro, N. Y., and Raymond W. Kell, Charleroi, Pa., assignors to Corning Glass Works, Corning, N. Y., a corporation of New York
Application March 7, 1940, Serial No. 322,838
8 Claims. (Cl. 49—79)

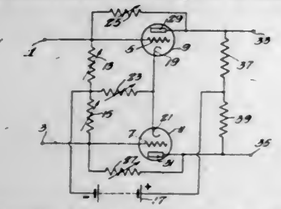


4. The method of fabrication of a glass article, which includes intercepting heat being radiated from a glass charge after its deposit in a forming mold, reflecting the intercepted heat back into the charge, forming the charge into an article of a desired shape, subjecting surfaces of the article to a heat treatment brought about by lifting the article from direct contact with the mold and subjecting the inner surface of the article to a heat treatment brought about by reflection of heat radiated by the article back into it from a suitable reflecting surface while its outer surfaces are similarly treated by heat radiated by the article and reflected back into it by the adjacent mold surfaces.

2,314,813
FEEDBACK AMPLIFIER CIRCUITS
Donald S. Bond, Philadelphia, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Application July 30, 1938, Serial No. 222,092
2 Claims. (Cl. 179—171)

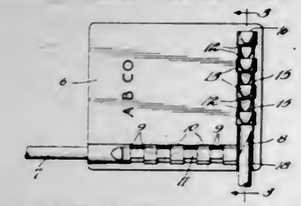
1. A direct current amplifier comprising two space discharge tubes each provided with a cathode, a control grid, and an anode, a common

power supply for said tubes, a common cathode resistor connected between both of said cathodes and one terminal of said power supply, a pair of grid resistors respectively connected between each of said control grids and said one power supply terminal, means for applying an input current symmetrically to said pair of resistors so as to vary the voltages of said control grids in opposite directions with respect to said one power



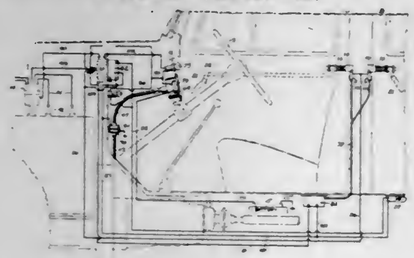
supply terminal in response to variations in said input current, and two feedback resistors, each connected between the anode and the grid of one of said tubes, cooperating with the respective grid resistors to provide a feedback path for each of said tubes whereby a portion of the output voltage of each of said tubes is applied to the control grid thereof to oppose variations in the voltage of said control grid.

2,314,814
SEAL
Bruce Borland, Chicago, Ill.
Application January 5, 1940, Serial No. 312,567
3 Claims. (Cl. 292—315)



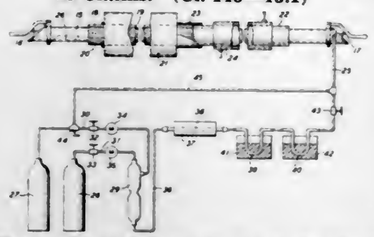
1. In a seal, the combination of a plate, a wire having one end secured to the plate, a plurality of substantially parallel slits in one portion of the plate forming intermediate straps, the adjacent straps being bent outwardly on opposite sides of the plate with their outer portions tapered toward their entry ends to facilitate the entry of the wire and guiding the same past said straps, the plate adjacent to the last slit forming an abutment or stop to limit the entry of the wire.

2,314,815
APPLIANCE FOR MOTOR VEHICLES
Howard Brandt, New York, N. Y.
Application November 1, 1940, Serial No. 363,899
8 Claims. (Cl. 180—82)



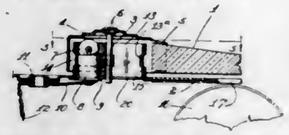
1. The combination with a vehicle having a door and a door jamb, of a latch bolt having a socket formed therein and disposed in the door and engageable with a keeper formed in the jamb, a slide mounted on the jamb and engageable with the socket so as to lock the door in closed position, means for shifting the slide into and out of engagement with the socket in the latch bolt and a striker cam pivotally mounted adjacent the keeper on the door jamb and engageable with the outer surface of the latch bolt when the door is in closed position, the surface of the cam which engages the latch bolt being substantially flat and the cam being tapered in thickness from the base of the keeper towards the door.

2,314,816
METHOD OF DESULPHURIZING CARBON COATED METALS
Joshua R. C. Brown, Jr., Jackson Heights, N. Y., and Leland A. Wooten, Maplewood, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 11, 1940, Serial No. 356,272
13 Claims. (Cl. 148—13.1)



1. The method of desulphurizing carbon coated metal which comprises enclosing said metal in an enclosed evacuated container, heating said metal in a reducing atmosphere for an extended period to cause reaction between the sulphur compounds in the metal and carbon coating and the reducing media to selectively form sulphuous gases without changing the character of the carbon coating, removing said gases from said container, and cooling said metal.

2,314,817
ILLUMINATED INSTRUMENT POINTER
O. Neil Christensen, Oak Park, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application March 23, 1939, Serial No. 263,584
5 Claims. (Cl. 116—129)

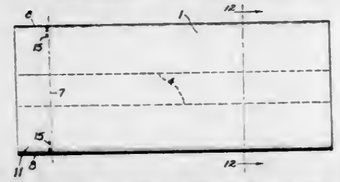


1. In combination, an instrument dial plate, a rotatable spindle extending through said plate, a hub attached to the spindle at the outer side of the dial plate, said hub having a flange extending transversely of the dial plate and curved in substantially coaxial relation to the spindle, said flange having an opening, a pointer extending from the hub at said opening and radially outward therefrom, and a light-emitting element disposed at one side of the spindle within the curve of said flange and substantially at the same transaxial plane as the opening therein, together with an arcuate color screen fixedly supported in coaxial relation to the spindle between the said light-emitting element and the opening in the flange of said hub, whereby the light from said element modified by the color screen, escapes through said opening and illuminates the pointer.

2,314,818
SURFACE TREATMENT OF TINNED MATERIAL
Willard O. Cook and Hugh E. Romine, Pittsburgh, Pa., assignors to Carnegie-Illinois Steel Corporation, a corporation of New Jersey
No Drawing. Application April 29, 1939, Serial No. 270,912
3 Claims. (Cl. 204—140)

1. The method of treating tinned container stock having thereon a porous oxide film formed at the high temperature incident to the hot tinning of said stock, consisting in removing all of said oxide from and baring a virgin tin surface on said stock, and then subjecting said bared surface to substantially pure air at a temperature relatively low compared to the hot-dip temperature, thereby forming a dense uniform impermeable oxide film throughout said surface rendering said surface substantially immune to the development of yellow stain during normal storage conditions or subsequent baking at temperatures encountered in lithographing and enamelling.

2,314,819
CLOSURE
Arthur C. Ewer, Brooklyn, N. Y., assignor to Bemis Bro. Bag Company, St. Louis, Mo., a corporation of Missouri
Application October 14, 1939, Serial No. 299,428
2 Claims. (Cl. 229—62)

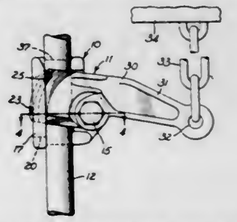


1. A closure for flat gusseted tubing having side walls and lateral gussets therebetween, comprising a flap formed by folding an end portion of the tubing upon itself along a transverse fold line, means overlying the flap for holding the flap against the side of the resulting bag, and means for holding together opposite parts of the side walls and of the gusset in said flap comprising a staple passing through each gusset and its adjacent side walls on each side of the bag closely adjacent and parallel to said fold line and within the flap only, said staples also being respectively closely adjacent to the respective outer longitudinal edges of the tubing.

2,314,820
IMPREGNATED PAPER
Sumner C. Fairbanks, Passaic, N. J., assignor to The Hamersley Manufacturing Company, Garfield, N. J., a corporation of New Jersey
No Drawing. Application September 9, 1939, Serial No. 294,095
3 Claims. (Cl. 117—155)

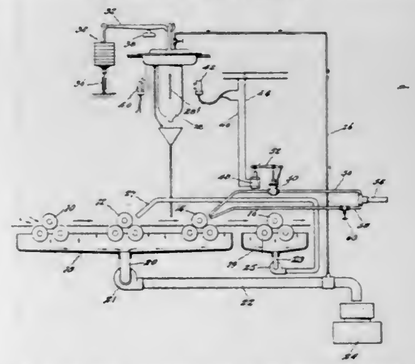
1. Paper of enhanced wet strength and wet-rub properties, whose fibres are thoroughly impregnated with a waterproof mixture consisting essentially of a carrier medium selected from the class which consists of paraffin and petrolatum, and a condensation derivative of rubber obtained by treating rubber in solution with chlorostannic acid or a halide of an amphoteric metal, said impregnating mixture being present in the paper in an amount no greater than about ten percent of the weight of the paper.

2,314,821
DEVICE FOR GRIPPING RODS AND THE LIKE
George E. Fritts, Torrance, Calif.
Application August 26, 1941, Serial No. 408,307
7 Claims. (Cl. 24—249)



1. A device of the character described for gripping an elongated object to resist longitudinal movement of the object in one direction, said device comprising: a first jaw adapted to contact said object from one side; a second jaw adapted to contact said object from the other side; and pivot means connecting said second jaw to said first jaw for opening and closing movement, the axis of said pivot means being transverse to said direction of longitudinal movement but inclined relative to a plane perpendicular to said direction, whereby closing movement of said second jaw relative to the first jaw causes said second jaw to progressively approach the longitudinal axis of the elongated object when the elongated object is in contact with said first jaw, the direction of closing movement of said second jaw being in the direction of said longitudinal movement, whereby the tendency of the gripped object to make such longitudinal movement relative to the device urges the second jaw by frictional contact therewith into increasing pressure against the object.

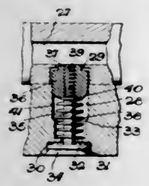
2,314,822
MEANS FOR CONTROLLING SPECIFIC GRAVITIES
Mariano José Galainena y Quesada, Habana, Cuba
Application March 28, 1940, Serial No. 326,505
5 Claims. (Cl. 137—78)



1. A unit for controlling the specific gravity

of solutions comprising a tank for the solution having an overflow lip and an outlet toward which the tank bottom converges downwardly, a balance beam, means to support said tank from one end of said beam, a weight and an anchored spring at the other end of said beam and acting counter to the tank, and means operating without physical contact with said tank, balance beam or associated parts, as the tank is caused to rise and fall by changes in the specific gravity of its contents for controlling the specific gravity of the solution.

2,314,823
MOLDING APPARATUS
Henry Z. Gora, Bridgeport, Conn., assignor to Jenkins Bros., New York, N. Y., a corporation of New Jersey
Application August 10, 1939, Serial No. 289,485
11 Claims. (Cl. 18—34)



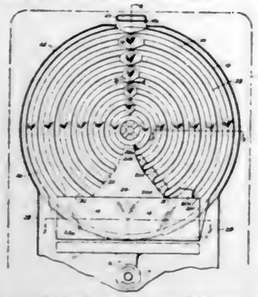
1. In molding apparatus of the type employing relatively movable mold members, means for first stripping and then ejecting the molded element from one of said mold members including means providing a recess, means communicating with said recess for conveying fluid under pressure thereto, an ejector member operated by fluid pressure in said recess to admit stripping fluid to the face of the mold, a second member connected to said ejector member and operated by fluid pressure to move said ejector member to ejecting position, and a third means in said recess for discontinuing the flow of pressure fluid when said ejector member is moved to ejecting position.

2,314,824
METHOD OF MAKING GLASS ARTICLES
Charles H. Greene, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York
No Drawing. Application March 1, 1940, Serial No. 321,789
4 Claims. (Cl. 49—77)

1. Method of making glass articles, which includes finely pulverizing glass, molding the pulverized glass to shape and sintering the shaped mass to a transparent article in an atmosphere of steam at atmospheric pressure.

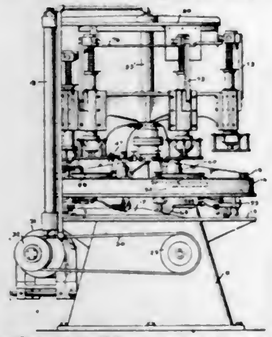
2,314,825
HEATING APPARATUS
George Herbster, Cleveland, Ohio
Application August 3, 1940, Serial No. 350,585
25 Claims. (Cl. 126—110)

1. A heat exchange head having a plurality of conduits with portions arranged substantially concentrically and radially spaced apart in radially adjacent relationship to provide a plurality of circumferentially elongated air receiving openings through the head for effective reception of air in a whirling horizontally moving column, and a hollow base adapted to receive products of combustion from a gas burner, said conduits having spaced downward extensions of the



concentric portions communicating individually with respective portions of the hollow base.

2,314,826
METHOD AND APPARATUS FOR PERFORATING GLASS ARTICLES
Ray A. Hinkley, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York
Application May 14, 1940, Serial No. 335,185
11 Claims. (Cl. 49—28)

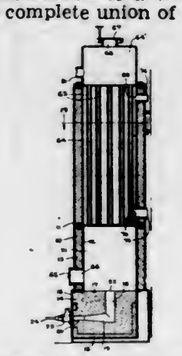


2. In a glass working apparatus, a rotatable table with supports arranged about its periphery for a series of glass articles to be perforated, hole burner assemblies carried by said table and arranged under the respective supports, hole reshaping mechanisms arranged over the respective supports and movable in unison therewith as the table is rotated, means for raising the burner assemblies during a predetermined portion of a revolution of said table, means for rendering said burners active only when in their raised position, and means for actuating said reshaping mechanisms after their associated burners have become inactive.

2,314,827
PROCESS FOR EXTRACTING PURE NITROGEN FROM AIR
Richard M. Hortvet, Minneapolis, Minn., assignor to Diamond Iron Works, Incorporated, Minneapolis, Minn.
Original application February 27, 1939, Serial No. 258,658. Divided and this application February 5, 1940, Serial No. 317,312
2 Claims. (Cl. 23—220)

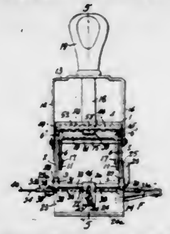
1. A process of obtaining nitrogen from air which consists in causing a stream of fuel gas and a surrounding stream of air to unite at an ignition point, effecting ignition of the gas within

the surrounding envelope of air at that point, thereafter controlling expansion and forward movement of the gases of combustion by means of walls of a refractory block so the same will continually expand diametrically for a predetermined distance through said block, at the end of said distance causing the direction of movement of the ignited gas to be changed sharply by impingement against walls of said refractory block, whereby the whole body of said refractory block and particularly the said constraining walls thereof become heated to a very high temperature to cause complete union of all the molecules



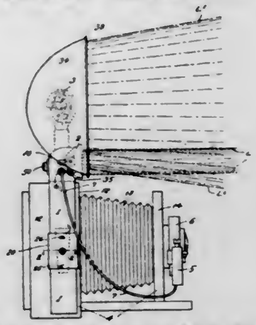
of the fuel gas and of the oxygen of the air introduced at said ignition point, the combustion gas mixture and the nitrogen therein being maintained in continuous motion from the point of burning to the place where the finally separated nitrogen is accumulated, cooling the resulting gas mixture, thereafter causing the cooled gas mixture to move in an elongated helical path in fine bubbles in a solution for absorbing carbon dioxide to remove the carbon dioxide therefrom, then removing water vapor therefrom, leaving substantially pure nitrogen, and accumulating said nitrogen for use.

2,314,828
PRINTING DEVICE
William A. Humphries, Stanford, Ky.
Application November 7, 1939, Serial No. 303,270
4 Claims. (Cl. 101—334)



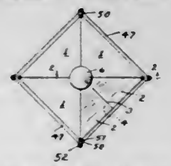
1. In a printing device a work support formed of a single piece of sheet material with a flat bed portion to receive the work, said piece being bent to form spaced upstanding elements each with spaced pairs of surfaces angularly disposed along a transverse plane, each pair of surfaces being adapted for tightly receiving respective work-straddling corner portions of a printing mechanism support for detachably connecting the supports with the mechanism support resting on outlying corner parts of the flat bed portion, and said piece having slots along opposite ends of the flat bed portion whereby at least a portion of each of said connecting elements is spaced up from the flat bed portion to admit work under said portions of said elements.

2,314,829
PHOTOGRAPHING UNIT
Robert H. Hunter, Cleveland, Ohio
Application March 12, 1940, Serial No. 323,591
3 Claims. (Cl. 67—29)



2. In combination, a hollow flash-light handle constituting a holder for dry cells, an elbow at one end of the holder and having a laterally directed flash light reflector and bulb mounting thereon, a reflector in generally surrounding eccentric parallel relation to the aforesaid reflector and secured to the elbow, and a socket adapted to receive a photo-flash bulb, said socket being carried by the elbow, means electrically connecting the bulb mounting and socket to the dry cells, said means including a switch arranged to be operated by a hand while grasping the handle, said switch upon initial movement energizing only the flash light bulb and later exploding the photo-flash bulb.

2,314,830
TENT
Robert H. Hunter, Cleveland, Ohio
Application June 25, 1942, Serial No. 448,364
10 Claims. (Cl. 135—1)



10. In a tent, a generally dome-shaped hollow body of flexible material, a spider element operatively attached to the body at its top central portion and with mutually rigid outwardly radiating arms adapted to telescope with supporting rib or pole elements for the tent to hold said elements in position, and means fixed to the body material in radial alignment with the arms and extending downwardly substantially to the base of the tent for additionally securing such rib or pole elements to the flexible body material substantially continuously along such rib or pole elements.

2,314,831
PREPARATION OF D-TARTARIC ACID BY FERMENTATION
Jonas Kamlet, Brooklyn, N. Y., assignor to Miles Laboratories, Inc., Elkhart, Ind., a corporation of Indiana
No Drawing. Application September 25, 1940, Serial No. 358,304
14 Claims. (Cl. 195—47)

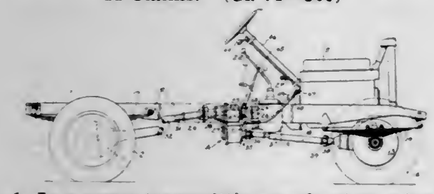
2. A process for producing a compound containing the acid radical of dextro-tartaric acid

which comprises fermenting an aqueous solution of glucose with a culture of *Acetobacter suboxydans* in the presence of a compound of vanadium, while passing an oxygen-containing gas through the fermenting mixture and maintaining the pH at a value of from 3.0 to 12.0 by the addition of an alkali chosen from the group consisting of the hydroxides, carbonates and bicarbonates of the alkali metals.

2,314,832
EXPLOSIVE COMPOSITION
William E. Kirst and Clarence H. Winning, Woodbury, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 13, 1940, Serial No. 365,487
10 Claims. (Cl. 52—11)

1. An explosive composition comprising a water-soluble oxygen-supplying inorganic salt, and linseed meal in pulverulent form.

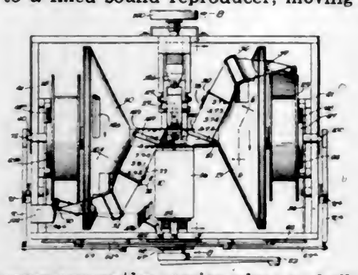
2,314,833
POWER TRANSMITTING MECHANISM
Beverly W. Keese, Oshkosh, Wis., assignor to The Timken-Detroit Axle Company, Detroit, Mich., a corporation of Ohio
Application August 3, 1940, Serial No. 350,917
11 Claims. (Cl. 74—326)



1. In a power transmitting mechanism, a housing; an input shaft and a primary output shaft disposed in axially aligned relationship and journaled for independent rotation in said housing; a secondary output shaft in said housing parallel to said first-named shafts and journaled for rotation; a countershaft mounted for rotation in said housing about an axis substantially parallel to said input and output shafts; and gearing means in said housing and operably associated with said shafts for selectively transmitting power from said input shaft to said output shafts at a high speed ratio and a low speed ratio; said gearing means embodying an element axially shiftable on said countershaft to an inoperative position, said element being operable to interrupt the drive to said secondary output shaft when said gearing means is in the high speed ratio, and also being operable to interrupt the drive to both said primary and secondary output shafts when said gearing means is in the low speed ratio.

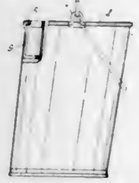
2,314,834
SOUND ON FILM
John Ripley Kiel, Merchantville, N. J., assignor to Mary R. Kiel, Wilmette, Ill.
Original application October 27, 1938, Serial No. 237,225. Divided and this application May 10, 1940, Serial No. 334,357
10 Claims. (Cl. 179—100.4)

1. The method of reproducing a sound record from spaced parallel sound grooves extending obliquely across a flexible carrier strip which consists in curving the carrier strip into helical form with opposite edges closely adjacent to register spaced sound grooves for continuity, progressing said carrier longitudinally and transversely in respect to a fixed sound reproducer, moving along



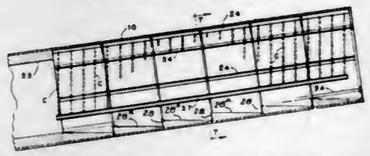
the grooves across the carrier edges and silencing the reproducer at the instant of passage over the adjacent edges of the carrier.

2,314,835
BUCKET
Thomas H. Johns, Swissvale, and Paul W. Sylvander, McKeesport, Pa.
Application December 19, 1940, Serial No. 370,766
1 Claim. (Cl. 220—1)



A bucket comprising a container of substantially kidney shape in horizontal cross-section, having flared concave and convex sides of complementary shape, the top of the bucket having a reinforcing ring with upstanding bail holders formed thereon, said ring having an integral depending hanger portion extending downward in a vertical plane on the outside across the concave side of the container, said hanger being shaped to nest in the concavity of the container to permit stacking with similar containers beyond the lower extremity of the hanger.

2,314,836
ROTARY KILN
Gilbert E. Seil, Cynwyd, Pa.
Application May 12, 1942, Serial No. 442,600
2 Claims. (Cl. 263—32)



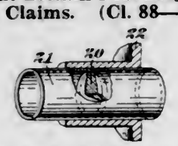
1. A rotary kiln construction having one end of the kiln drum adapted to have fed thereto material to be treated, and the opposite end of the drum adapted for the entry into the interior of the drum of gases to pass through the drum in counter-current to the material being treated therein, said kiln construction being characterized by a plurality of weighted chain assembly

units provided in that portion of the drum that is closest to the material feed end thereof, each of which assembly units comprises a series of chains fastened to the drum at points along a line substantially longitudinally of the drum, and a common weight member attached to the free ends of the chains of that assembly unit for weighting the chains, which common weight member comprises a rail member extending substantially the length of said chain assembly longitudinally of the drum.

2,314,837
PROCESS FOR PRESERVING FOOD JUICES
Ayedis Artinian, New York, and Cloyd M. Chapman, Glen Cove, N. Y.
No Drawing. Application June 3, 1940, Serial No. 338,580
3 Claims. (Cl. 99—155)

1. The process of preserving food juices which comprises rapidly heating the juice at atmospheric pressure to a temperature approaching but not reaching its boiling point in an atmosphere supersaturated with water vapor at a temperature approximating the temperature of the food juice with which it is in contact, said heating of the juice being effected by indirect means wherein no steam comes into contact with the food juices.

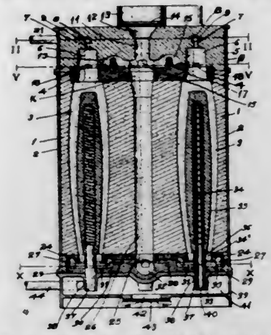
2,314,838
OPTICAL LENS AND SIMILAR DEVICE
Arthur William Kingston, London, England, assignor, by direct and mesne assignments, to Combined Optical Industries Limited, London, England
Application June 8, 1936, Serial No. 84,170
In Great Britain February 23, 1934
8 Claims. (Cl. 88—57)



1. An optical body having an accurate predetermined optical shape formed of a molded transparent resinous material capable of being molded at temperatures not exceeding 200° C. and having two optically polished surfaces produced by the operation of molding the material to the required form by a mold having optically polished molding surfaces, the ultimate polish and contour of each of said first-mentioned surfaces being those imparted to them by the mold.

2,314,839
CASTING METAL
Donald J. Campbell, Spring Lake, Mich.
Application May 19, 1941, Serial No. 394,068
3 Claims. (Cl. 22—200)

1. In casting metal, the method consisting of applying suction simultaneously to a core within a mold cavity and a feeder cavity of a mold having a plurality of mold cavities therein, a runner sprue for flowing molten metal to the mold cavities and having a plurality of portions of different cross-sectional areas comprising a choke portion an enlarged portion below the said choke portion and a third portion having a greater cross-sectional area than the choke portion and extending below the said mold cavities with a plurality of runner gates extending to the lower end of said mold cavities and runner gates extending from the said enlarged portion to the upper portion of said mold cavities while the metal in the mold is in a molten state, causing a partial vacuum within the said mold cavities

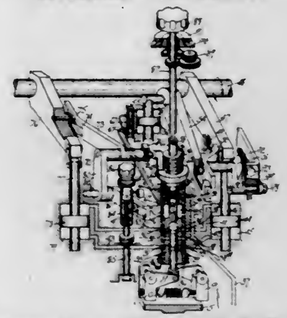


by applying suction to the mold cavities at their top and to the cores in the mold cavities through the core arbors simultaneously.

2,314,840
DETERGENT COMPOSITION
Coleman R. Caryl, Riverside, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application September 27, 1940, Serial No. 358,658
17 Claims. (Cl. 252—138)

1. A detergent composition comprising 0.5 to 3 parts of the condensation product of an aliphatic monocarboxylic acid having 10 to 18 carbon atoms with a monoalkylol cyanamide, 5 to 10 parts of the sulfosuccinic ester of at least one aliphatic alcohol having 6 to 10 carbon atoms, and 10 to 50 parts of a water-soluble salt of pyrophosphoric acid, the parts being by weight.

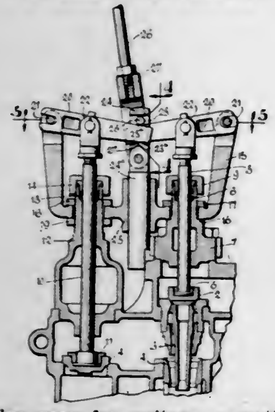
2,314,841
GOVERNOR FOR PRIME MOVERS
Irving M. Crafts, Portland, and Charles B. Taylor, Middletown, Conn., assignors to The Pickering Governor Company, Portland, Conn., a corporation of Connecticut
Application August 17, 1940, Serial No. 353,098
25 Claims. (Cl. 264—3)



13. A governor mechanism including a motor driven centrifugally operated member, a main valve operatively connected with said centrifugally operated member, a ported stabilizing bushing having its ports controlled by said main valve, a ported speed droop bushing within which said stabilizing bushing is located, a power piston, a chamber for said piston, passages opening from said chamber on opposite sides of said piston and communicating with the ports of said

speed droop bushing, a throttle member operatively connected with said piston, an operative connection between said throttle member and said speed droop bushing, and an operative connection between said throttle member and said stabilizing bushing.

2,314,842
SINGLE VALVE GEAR FOR PLURAL VALVE CONTROL
William Norman Hedeman, Cincinnati, and William Earl Snyder, Silverton, Ohio, assignors to The Edna Brass Mfg. Company, Cincinnati, Ohio, a corporation of Ohio
Application October 20, 1941, Serial No. 415,728
3 Claims. (Cl. 137—144)



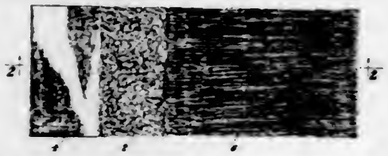
1. A valve gear for unitary operation of the steam and water admission valves of an injector, the valves having their operating stems in parallelism, comprising, a support removably mounted upon the bonnets of the valve, a valve operating lever respectively for each valve extending transversely to and intermediately pivotally connecting with the end of the valve operating stem, one end of the lever fulcrumed on said support, and the opposite end extended to bring the levers for the several valves in an adjoining relation, a saddle in engagement with the free ends of said levers and having a guiding stem pivotally connected with the saddle and slidably mounted on said support, and means pivotally connecting with said saddle to move the same in alternate directions to open and close the valves.

2,314,843
PROCESS OF PRODUCING NICOTINAMIDE
Martin E. Hultquist, North Plainfield, N. J., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application September 12, 1941, Serial No. 410,581
4 Claims. (Cl. 260—295)

1. A method of preparing nicotinamide which comprises reacting nicotinic acid and urea at a temperature from 180° C. to 250° C.

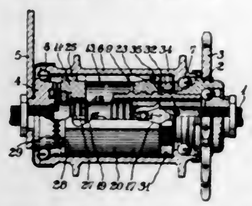
2,314,844
FABRIC
Richard G. Knowland, Pelham, and James M. Donnelly, Amsterdam, N. Y., assignors to Bigelow-Sanford Carpet Co. Inc., Thompsonville, Conn., a corporation of Massachusetts
Application July 24, 1940, Serial No. 347,222
1 Claim. (Cl. 28—79)

As an article of manufacture, a needled fabric having a prefabricated backing, a layer of lofty shredded material deposited on the backing, a tread layer of non-felting extruded fibers composed substantially entirely of rayon capable of an elongation at break exceeding 8%, said shredded material being needled through the backing to present fibers of the shredded material on the exposed surface of the backing, the extruded filament being needled through both



the shredded material and the backing to present fibers of extruded filament on the exposed surface of the backing, and a coating of adhesive on the under surface of the backing securing the fibers of the shredded material and the rayon which are thus presented on the external surface of the backing, the said layer of shredded material being substantially free of said adhesive material.

2,314,845
BACKPEDALING BRAKE FOR VELOCIPEDES
Stanley B. Kurzina, Jr., Elmira, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Original application July 31, 1940, Serial No. 348,791. Divided and this application August 19, 1941, Serial No. 407,426
4 Claims. (Cl. 192—6)

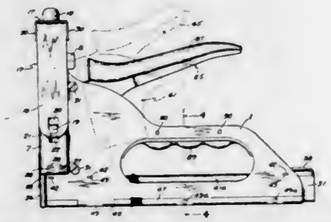


1. In a backpedaling hub brake for velocipedes, a wheel hub, a brake sleeve therein having overlapping longitudinal slots extending from each end thereof, and brake expanding members each loosely mounted in one end of the sleeve having radially extending wedge lugs adapted to enter the open ends of the slots and expand the sleeve, and having lugs with radial shoulders adapted to engage in the closed ends of the alternate slots to retain the members in the sleeve.

2,314,846
SULPHO ESTERS OF CIS-ENDOMETHYLENE-3,6-Δ^4-TETRAHYDROPHTHALIC ACID
Paul P. McClellan, Old Greenwich, and Jack C. Bacon, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application December 24, 1940, Serial No. 371,594
14 Claims. (Cl. 260—468)

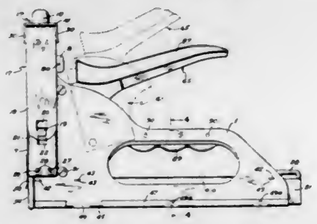
8. A process for the production of sulphonated esters of cis-endomethylene-3,6-Δ^4-tetrahydrophthalic acid which comprises heating esters of cis-endomethylene - 3,6 - Δ^4 - tetrahydrophthalic acid with a member of the group consisting of water-soluble sulphite and bisulphite salts.

2,314,847
FASTENER DRIVING MACHINE
Fridolin Polzer, Norwalk, Conn., assignor to The E. H. Hotchkiss Company, Norwalk, Conn., a corporation of Connecticut
Application December 20, 1940, Serial No. 371,011
12 Claims. (Cl. 1—49)



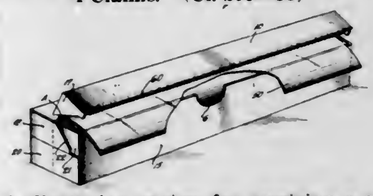
1. A fastener driving machine comprising an outer housing including spaced side plates, a guideway at the front of the housing, a vertically reciprocable driver and support in said guideway, a spring for forcing the driver downwardly to drive a fastener, means for feeding fasteners to a driving position under the driver, and means for lifting the driver against the action of the spring preparatory to the driving operation comprising a unit assembly mounted between the side plates including an inner housing, an operating lever pivoted in the inner housing and having a depending arm, a cam lever pivoted in said latter housing and having a cam on its lower edge, means on the depending arm to run on said cam to lift the cam lever, and means on the cam lever to engage the driver support to lift the driver.

2,314,848
FASTENER DRIVING MACHINE
Fridolin Polzer, Norwalk, Conn., assignor to The E. H. Hotchkiss Company, Norwalk, Conn., a corporation of Connecticut
Original application December 20, 1940, Serial No. 371,011. Divided and this application May 28, 1941, Serial No. 395,602
11 Claims. (Cl. 1—49)



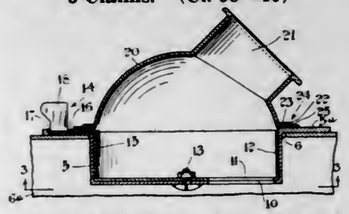
1. A fastener driving machine comprising a housing having side plates forming an upright guideway, a driver mounted to reciprocate in the guideway, a fastener support at the lower part of the housing with its forward end at the rear of the driver, upright outwardly extending flanges on the side plates at the forward edges thereof, a plate having guides to receive said flanges and slidable onto the same from the lower ends thereof, said latter plate being spaced forwardly from the end of the fastener support to form a raceway for passage of fasteners under action of the driver, means for detachably securing said latter plate in position, means for operating the driver to set a fastener, and means for feeding fasteners along the support to the raceway.

2,314,849
DISPENSING CARTON
Owen J. Sullivan, Appleton, and Robert T. Frieders, Menasha, Wis., assignors to Marathon Paper Mills Company, Rothschild, Wis., a corporation of Wisconsin
Application December 16, 1940, Serial No. 370,388
4 Claims. (Cl. 206—58)



2. A dispensing carton for receiving a roll of sheet material comprising a blank suitably scored and cut to provide a front, rear, bottom and top panel, a cover hinged to said top panel, an extension panel integral with said cover panel, said cover being hinged to said top panel along a line positioned between the rear wall and the middepth of the carton whereby the space between the upper edge of the front wall and the front edge of the top wall is insufficient to allow accidental displacement of the roll within the carton, end flaps hinged to each of said panels, the end flaps integral with the front and rear walls being folded inwardly and the end flaps of the top and bottom panels being folded thereover and fastened thereto for closing the ends of the carton, the end flaps on said hinged cover and extension panel being substantially triangular in shape, coextensive in area and adapted to be adhered in superimposed matched relation for retaining said extension panel in position overlapping said front panel.

2,314,850
AIR VENT
Harold M. Woelfel, Montreal, Quebec, Canada, assignor to The Robert Mitchell Co. Limited, Montreal, Quebec, Canada
Application December 21, 1940, Serial No. 371,121
3 Claims. (Cl. 98—40)



3. An air distributing outlet of the character described comprising a cup-shaped casing provided at the top or open side with an integral outwardly directed flange of substantial width, a channel-forming ring secured to the upper surface of said flange to form therewith an inwardly opening channel immediately adjacent the open top of said casing, said channel-forming ring being of less width than the casing flange and being arranged with its outer edge spaced inwardly a substantial distance from the corresponding edge of said flange, said flange being provided with an arcuate recess in its upper surface which is made wider than said ring so that the latter covers only the inner portion of said recess, a dome-shaped cover provided, at its lower edge, with an integral outwardly directed flange fitted in the channel formed by and be-

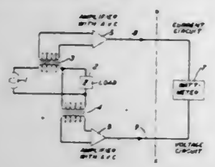
tween said casing flange and said channel-forming ring, said cover being provided with an air outlet opening inclined so that its central axis is at an angle to the central axis of said casing, a cup-shaped damper rotatably mounted in said casing, said casing and damper being provided with complementary air admission openings formed in corresponding wall portions thereof located below the top openings of said casing, a handle member secured to said damper and having a portion thereof extending outwardly, within the recess of the casing flange, to a point beyond the outer edge of the channel forming ring and a finger piece secured to that portion of the handle member which projects between the outer edge of the channel-forming ring.

2,314,851

POWER FACTOR MEASURING SYSTEM

Duane R. Barney and Glenn W. Weaver, East Orange, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application April 30, 1942, Serial No. 441,138
10 Claims. (Cl. 172—245)



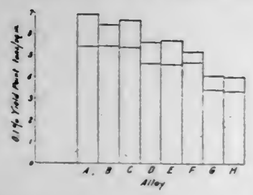
1. A power factor indicator comprising in combination a wattmeter having a current circuit and a voltage circuit, an amplifier including automatic volume control means connected in the current circuit, and another amplifier also including automatic volume control means connected in the voltage circuit.

2,314,852

HEAT TREATMENT OF MAGNESIUM BASE ALLOYS

Alfred Brandt, Swansea, Wales, assignor, by mesne assignments, to The Anglo California National Bank of San Francisco, San Francisco, Calif., a national banking association, as trustee

Application October 8, 1941, Serial No. 414,176
In Great Britain September 9, 1940
2 Claims. (Cl. 148—21.3)



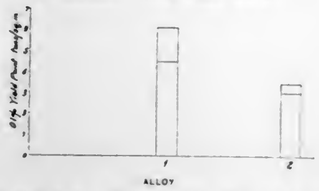
1. A method for improving the yield point of cast magnesium base alloys containing more than 7% but less than 12% of aluminum, at least about 0.2% and less than 4% of zinc and from 0.1% to 1.0% of manganese, the total amount of alloying constituents being not above 12% the balance being substantially all magnesium, which comprises subjecting such alloys in the "as-cast" condition to a heat treatment at a temperature within the range of 100° C. to 250° C.

2,314,853

HEAT TREATMENT OF MAGNESIUM BASE ALLOYS

Alfred Brandt, Swansea, Wales, assignor, by mesne assignments, to The Anglo California National Bank of San Francisco, San Francisco, Calif., a national banking association, as trustee

Original application October 8, 1941, Serial No. 414,176. Divided and this application March 13, 1942, Serial No. 434,599. In Great Britain September 9, 1940
6 Claims. (Cl. 148—21.3)



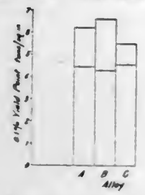
1. A method for improving the yield point of cast magnesium base alloys consisting of aluminum from about 2.0% to about 6.0%, tin from about 2.75% to about 10.0%, silver from about 0.1% to about 4.0%, the balance substantially all magnesium, the total amount of said alloying constituents being not above 12%, which comprises subjecting such alloys in the "as-cast" condition to a heat treatment at a temperature within the range 100° C. to 250° C.

2,314,854

HEAT TREATMENT OF MAGNESIUM BASE ALLOYS

Alfred Brandt, Swansea, Wales, assignor, by mesne assignments, to The Anglo California National Bank of San Francisco, San Francisco, Calif., a national banking association, as trustee

Original application October 8, 1941, Serial No. 414,176. Divided and this application August 5, 1942, Serial No. 453,731. In Great Britain September 9, 1940
2 Claims. (Cl. 148—21.3)



1. A method for improving the yield point of cast magnesium base alloys containing more than 7% but less than 12% of aluminum and from 0.1% to 1.0% of manganese, the total amount of alloying constituents being not above 12% the balance being substantially all magnesium, which comprises subjecting such alloys in the "as-cast" condition to a heat treatment at a temperature within the range of 100° C. to 250° C.

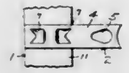
2,314,855

ELECTRICAL TERMINAL AND TERMINAL INSTALLATION

Scipione M. Del Camp, Maywood, Ill., assignor to Cinch Manufacturing Corporation, Chicago, Ill., a corporation of Illinois

Application December 6, 1940, Serial No. 368,894
1 Claim. (Cl. 173—324)

In combination with an insulating support of resinous material, such as a phenolic condensate and the like, provided with a plurality of rectangular openings therein; of a wiring terminal of heat-conducting material comprising a body of substantially rectangular cross-section engaging said support along one of its flat sides, said body being formed with an integral wire attaching means beyond the support, and a plurality of large apertures in the part thereof engaging said support and substantially rectangular shaped attaching lugs formed from material taken from said body in forming said apertures and disposed at right angles to said body for positioning within the apertures of said support, said attaching lugs



being of less width than said body providing marginal portions of said body surrounding said lugs and engaging said support, at least one of said openings being interposed between an attaching lug and wire-securing means to reduce transfer of heat applied to said wire-securing means directly to and in line with said attaching lug, the free ends of said lugs being formed with a central notch providing end prongs therein, said prongs being upset over the face of the support opposite the terminal body to grip said support between the upset prongs and the marginal portions of the terminal body.

2,314,856

DECORATIVE SLAB

Clyde C. Schuetz, Mount Prospect, Ill., assignor to Keasbey & Mattison Company, Ambler, Pa., a corporation of Pennsylvania

Original application June 19, 1937, Serial No. 149,048. Divided and this application March 27, 1941, Serial No. 385,475
1 Claim. (Cl. 72—26)



An article of manufacture comprising a rigid unitary slab or sheet of asbestos cement material having its surface formed with alternating hollows and ridges giving a predetermined texture to the surface, the surfaces of the ridges being of one asbestos cement composition of desired color and the surfaces of the hollows being of asbestos cement of a different chemical composition of a different color so that the ridges and hollows show asbestos cements of different colors in accordance with the preselected texture.

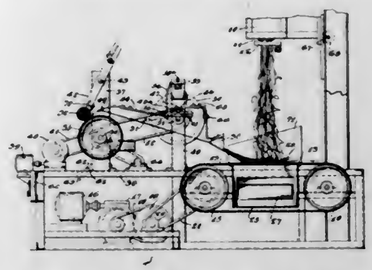
2,314,857

APPARATUS FOR MANUFACTURING SLIVERS

Jesse L. Tucker and George M. Lannan, Newark, Ohio, assignors, by mesne assignments, to Owens-Corning Fiberglas Corporation, Toledo, Ohio, a corporation of Delaware

Original application November 29, 1935, Serial No. 52,085, now Patent No. 2,264,345, dated December 2, 1941. Divided and this application April 29, 1940, Serial No. 332,138
6 Claims. (Cl. 19—150)

6. In apparatus of the character described, the combination of means for flowing streams of viscous material downwardly from a source of supply, means for attenuating the streams into fibers and directing said fibers downwardly, an endless foraminous surface spaced beneath said first-named means and on which said fibers are deposited, means for continuously advancing said surface in its plane to cause the deposited fibers to accumulate progressively on said surface in the form of a matted web, means for continuously



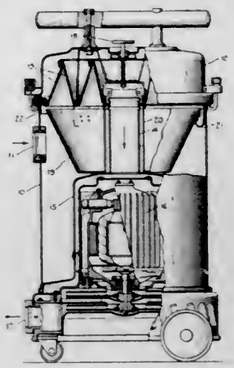
moving the web relative to said surface in the general direction of movement of said surface, and suction means beneath said surface for holding said web to said surface against the action of said web moving means to thereby aid in shaping the web into the form of a sliver.

2,314,858

VACUUM CLEANER

Axel Albert Forsberg, Stockholm, Sweden

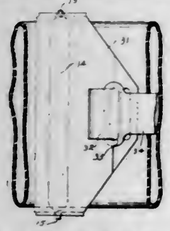
Application September 26, 1942, Serial No. 459,744
In Sweden July 5, 1941
4 Claims. (Cl. 183—67)



4. In a vacuum cleaner having a cylindrical body portion, an intake opening near the upper part thereof, a centrally disposed air flow tube, a removable cylindrical cover portion connected to the body by an air tight joint, a filter structure between the body and the cover and means for creating air flow into the body, through the filter and into the cylindrical cover, that improvement which comprises a conical dust pan of substantially the same projected extent as the filter removably supported closely adjacent the filter in the upper portion of the body and opposite the intake thereto, whereby heavy particles entrained in the entering air are deflected out of the air stream by the conical sides of the pan and fine particles caught by the filter may fall into said pan, said dust pan having a central tube slightly larger than said air flow tube for remov-

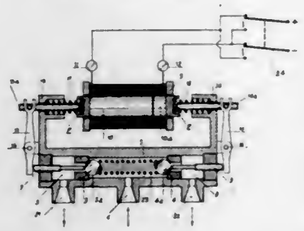
able disposition therearound, and resilient spacing members between said dust pan and said cylindrical body portion.

2,314,859
BUCKLE
Lloyd A. Straits, United States Navy
Application June 19, 1942, Serial No. 447,670
3 Claims. (Cl. 24—192)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



3. A device for adjustably fastening an easily puncturable inflatable belt consisting of a buckle comprising a base member having a transverse rounded depression therein strengthening the base member against bending, upstanding ears at the ends of said base member, a clamping lever, a rounded portion on the end of said lever, pintle means on said clamping lever for pivoting said clamping lever in said upstanding ears of said base member with said rounded portion eccentric to said pivoting means, whereby said clamping lever will move said rounded portion to and from cooperating position with the transverse depression in the base member to clamp the belt therebetween, hook means integrally extending from said base member, and a hook cooperating bail member adapted to be secured to an end of the tube.

2,314,860
FIRE CONTROL DEVICE
Georges Lénin, Saint-Cyr-sur-Mer, France, assignor to Olaer Patent Company, New York, N. Y., a society of New York
Application May 8, 1941, Serial No. 392,569
In France March 4, 1940
7 Claims. (Cl. 89—27)

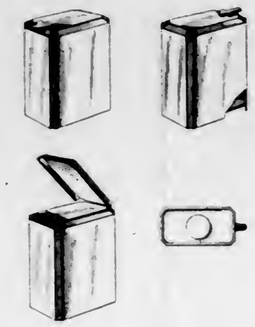


1. In connection with a fire-arm provided with a device for resetting said arm into firing position and a device for firing said arm, both of these devices being operable by a fluid under pressure, a control system for operating either of said two devices which comprises, in combination, a source of fluid under pressure, means for controlling the communication between said source of fluid under pressure and said devices respectively, an electromagnet including two parts movable with respect to each other, means for transmitting the relative displacements of said parts to said communication controlling means such that a displacement in one direction corresponds to the operation of one of said devices while displacement in the opposite direction corresponds to the operation of the other device, means for feeding energizing electric current to said electro-magnet, and means for reversing at will the direction of said current.

DESIGNS

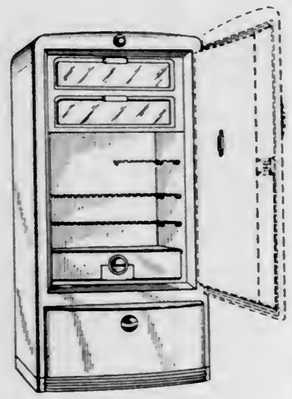
MARCH 23, 1943

135,273
DESIGN FOR A SALT SHAKER
Willie Lewis Hickman, Tampa, Fla., assignor of one-half to William J. Trowell, Sulphur Springs, Fla.
Application November 28, 1941, Serial No. 104,374
Term of patent 3½ years



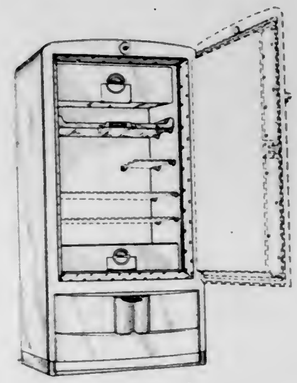
The ornamental design for a salt shaker, as shown.

135,274
DESIGN FOR A REFRIGERATOR
Richard B. Janes, Greenville, Mich., assignor to Gibson Electric Refrigerator Corporation, Greenville, Mich., a corporation of Michigan
Application May 19, 1942, Serial No. 106,951
Term of patent 7 years



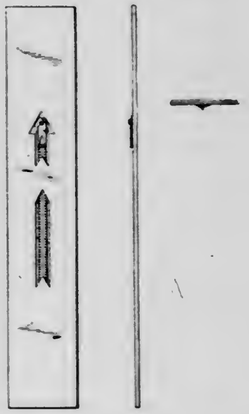
The ornamental design for a refrigerator, substantially as shown and described.

135,275
DESIGN FOR A REFRIGERATOR
Richard B. Janes, Greenville, Mich., assignor to Gibson Electric Refrigerator Corporation, Greenville, Mich., a corporation of Michigan
Application May 19, 1942, Serial No. 106,952
Term of patent 7 years



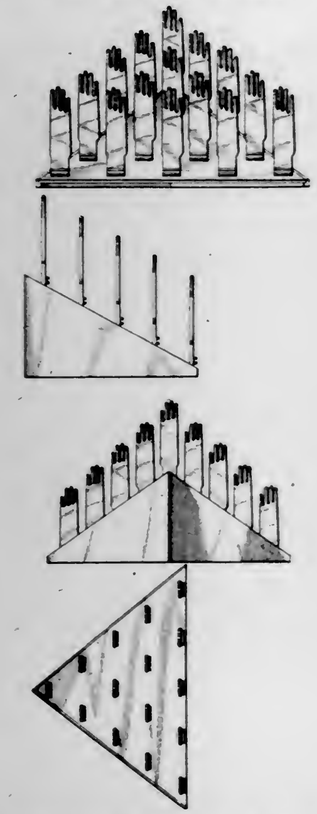
The ornamental design for a refrigerator, substantially as shown and described.

135,276
DESIGN FOR A DISPLAY PACKAGE FOR A SLIDE FASTENER
Paul T. Poutinen, Manhasset, N. Y., assignor to Waldes Koh-I-Noor, Inc., Long Island City, N. Y., a corporation of New York
Application March 27, 1942, Serial No. 106,351
Term of patent 7 years



The ornamental design for a display package for a slide fastener, substantially as shown.

135,277
DESIGN FOR A GLOVE DISPLAY STAND
Ardo L. Whisler, Port Huron, Mich.
Application January 9, 1943, Serial No. 109,224
Term of patent 14 years



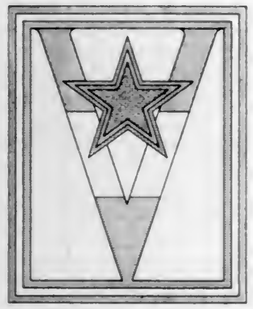
The ornamental design for a glove display stand, as shown.

135,278
DESIGN FOR A HOSE SUPPORTER
Leo Zavolner, Brooklyn, N. Y.
Application September 4, 1942, Serial No. 108,132
Term of patent 3½ years



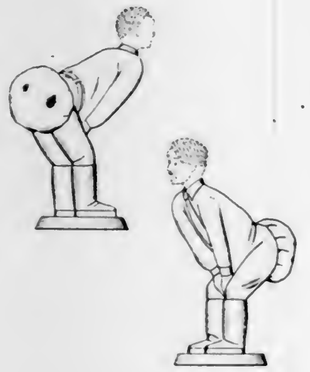
The ornamental design for a hose supporter, substantially as shown.

135,279
DESIGN FOR A SIGN OR THE LIKE
John N. Baines, Chicago, Ill.
Application January 20, 1943, Serial No. 109,291
Term of patent 7 years



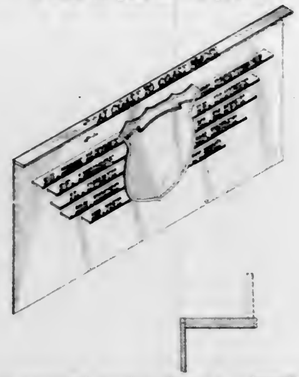
The ornamental design for a sign or the like, as shown.

135,280
DESIGN FOR A PIN CUSHION
Charles P. Englebardt, Far Rockaway, N. Y., assignor to Bassons, Maspeth, Long Island, New York, a copartnership
Application October 14, 1942, Serial No. 108,516
Term of patent 7 years



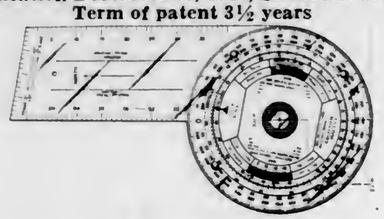
The ornamental design for a pin cushion, substantially as shown and described.

135,281
DESIGN FOR AN ADVERTISING SIGN OR THE LIKE
Milton M. Gair, Redlands, Calif.
Application December 28, 1942, Serial No. 109,153
Term of patent 14 years



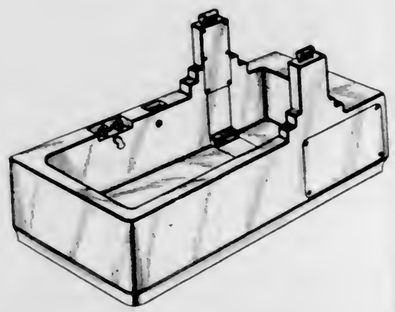
The ornamental design for an advertising sign or the like, substantially as shown.

135,282
DESIGN FOR A NAVIGATIONAL INSTRUMENT
Thomas C. Green, United States Marine Corps
Application December 23, 1942, Serial No. 109,116
Term of patent 3½ years



The ornamental design for a navigational instrument, as shown.

135,283
DESIGN FOR A BATHTUB
Arthur J. Hunting, Eureka, Calif.
Term of patent 7 years



Application January 2, 1943, Serial No. 109,192
The ornamental design for a bathtub, as shown.

135,284
DESIGN FOR A CATAPULT
Alton W. Hutson and Hazel M. Hutson, Del Rio, Tex.
Application December 22, 1942, Serial No. 109,102
Term of patent 7 years



The ornamental design for a catapult, as shown.

135,285
DESIGN FOR A VICTORY PLAQUE
Joseph S. Jacobs, New York, N. Y.
Application December 16, 1942, Serial No. 109,166
Term of patent 3½ years



The ornamental design for a victory plaque, as shown.

135,286
DESIGN FOR A PIN OR SIMILAR ARTICLE
Elsa Maria Kafka, New York, N. Y.
Application February 5, 1942, Serial No. 105,646
Term of patent 3½ years



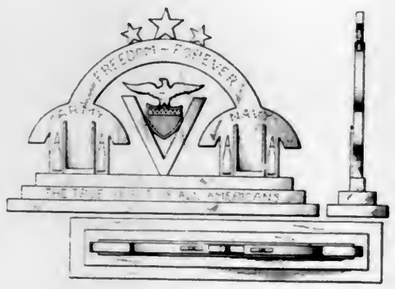
The ornamental design for a pin or similar article, as shown.

135,287
DESIGN FOR A SETTEE
Frank Mastrangelo, Fitchburg, Mass.
Application May 26, 1942, Serial No. 107,010
Term of patent 7 years



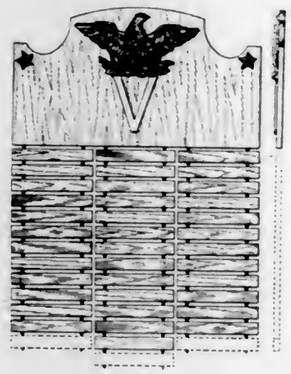
The ornamental design for a settee, as shown and described.

135,288
DESIGN FOR A PICTURE FRAME
Hilda E. Perkins, Binghamton, N. Y.
Application January 26, 1943, Serial No. 109,348
Term of patent 7 years



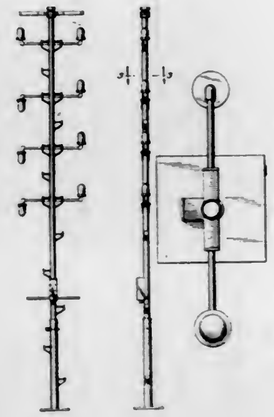
The ornamental design for a picture frame, substantially as shown.

135,289
DESIGN FOR AN HONOR ROLL PLAQUE
Philip G. Rosier, Chicago, Ill., assignor to Philip G. Rosier, George J. Spatuzza, and Frank E. Bourget, copartners, doing business under the firm name of National Plaque Specialties Co., Chicago, Ill.
Application December 23, 1942, Serial No. 109,112
Term of patent 3½ years



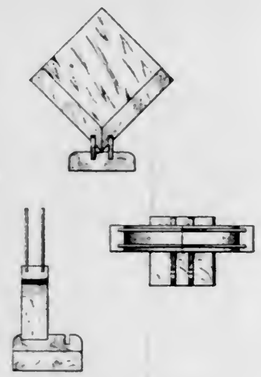
The ornamental design for an honor roll plaque, substantially as shown and described.

135,290
DESIGN FOR A SIGNAL LIGHTS STAFF
David Conlan, New York, N. Y.
Application December 5, 1942, Serial No. 108,953
Term of patent 7 years



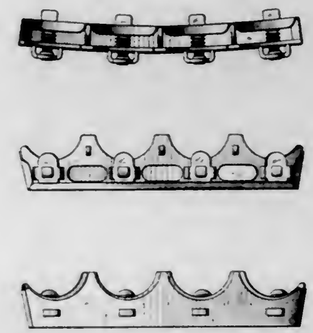
The ornamental design for a signal lights staff, substantially as shown.

135,291
DESIGN FOR A CIGARETTE TRAY
Maurice J. Fletcher, Des Moines, Iowa, assignor to Cadet Smokestands Company, Des Moines, Iowa
Application May 9, 1942, Serial No. 106,947
Term of patent 14 years



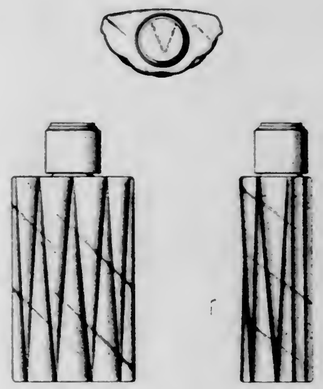
The ornamental design for a cigarette tray, substantially as shown.

135,292
DESIGN FOR A CHARGER CLIP OR THE LIKE
Salvatore Giordano, South Ozone Park, N. Y., assignor to Frank J. Quigan, Inc., Maspeth, Long Island, N. Y., a corporation of New York
Application October 28, 1942, Serial No. 108,629
Term of patent 14 years



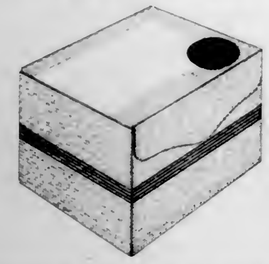
The ornamental design for a charger clip or the like, as shown.

135,293
DESIGN FOR A BOTTLE
Frank McIntosh, New York, N. Y., assignor to Lentheric, Incorporated, New York, N. Y., a corporation of New York
Application September 30, 1941, Serial No. 103,569
Term of patent 7 years



The ornamental design for a bottle, substantially as shown.

135,294
DESIGN FOR A CARTON
Donald E. Ost, Glen Ellyn, Ill., assignor to Container Corporation of America, Chicago, Ill., a corporation of Delaware
Application July 30, 1942, Serial No. 107,760
Term of patent 14 years



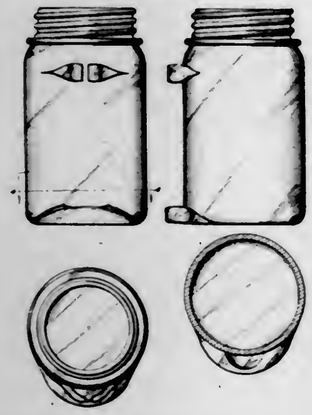
The ornamental design for a carton, as shown and described.

135,295
DESIGN FOR A TOY
Thomas J. Parker, Oaklandon, Ind.
Application Decembe 31, 1941, Serial No. 104,936
Term of patent 3½ years



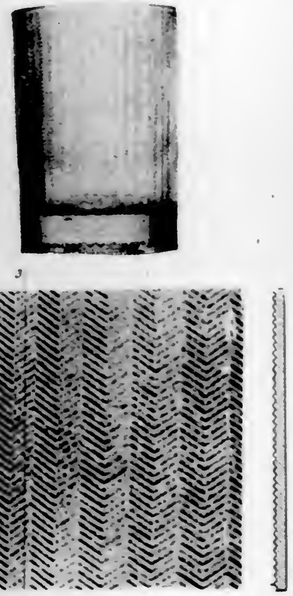
The ornamental design for a toy, as shown.

135,296
DESIGN FOR A DESSERT JAR
Lawrence R. Sereno, Montreal, Wis.
Application November 9, 1942, Serial No. 108,731
Term of patent 3½ years



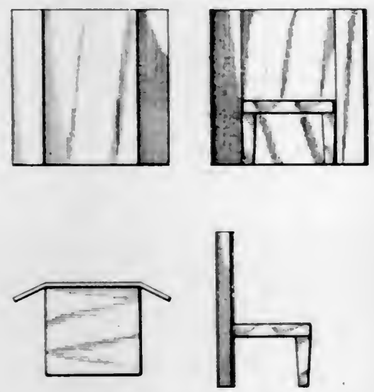
The ornamental design for a dessert jar, as shown.

135,297
DESIGN FOR A GLASS TUMBLER OR SIMILAR ARTICLE
Carl T. Sloan, Jeannette, Pa., assignor to The Jeannette Glass Company, Jeannette, Pa., a corporation of Pennsylvania
Application August 27, 1941, Serial No. 103,054
Term of patent 14 years



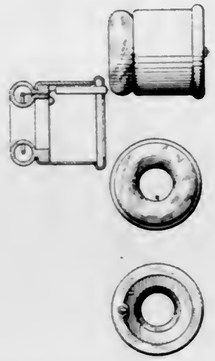
The ornamental design for a glass tumbler or similar article, substantially as shown and described.

135,298
DESIGN FOR A COMBINATION FIRE SCREEN AND SEAT
Robert L. Cook, Dallas, Tex.
Application December 30, 1942, Serial No. 109,165
Term of patent 7 years



The ornamental design for a combination fire screen and seat, as shown.

135,299
DESIGN FOR AN ELECTRIC LAMP BULB
John J. Devine, Middletown, Conn.
Application November 25, 1942, Serial No. 108,877
Term of patent 14 years



The ornamental design for an electric lamp bulb, as shown.

135,300
DESIGN FOR AN EMBLEM PIN
Ben Felsenthal, New York, N. Y.
Application December 21, 1942, Serial No. 109,084
Term of patent 3½ years



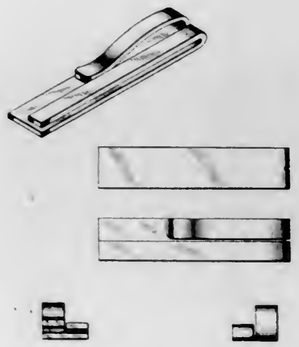
The ornamental design for an emblem pin, substantially as shown and described.

135,301
DESIGN FOR A JEWELRY PIN
Maximilian C. Meyer, Brooklyn, N. Y.
Application July 30, 1942, Serial No. 107,756
Term of patent 7 years



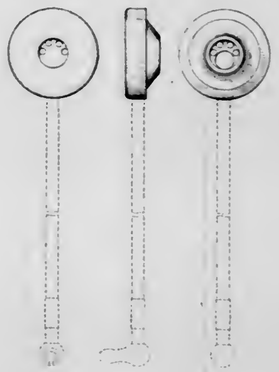
The ornamental design for a jewelry pin, substantially as shown and described.

135,302
DESIGN FOR A HAIR CURLER OR SIMILAR ARTICLE
Edwin Reynolds, Vineland, N. J.
Application October 10, 1942, Serial No. 108,498
Term of patent 14 years



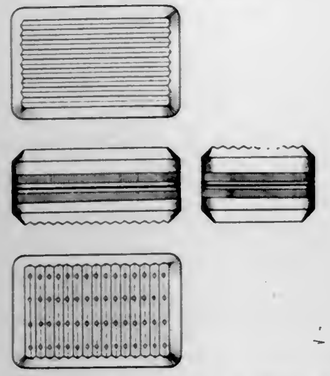
The ornamental design for a hair curler or similar article, substantially as shown.

135,303
DESIGN FOR AN AUXILIARY TELEPHONE RECEIVER
Louis S. Scher, New York, N. Y.
Application May 9, 1942, Serial No. 106,840
Term of patent 7 years



The ornamental design for an auxiliary telephone receiver, substantially as shown and described.

135,304
DESIGN FOR A SOAP BOX
Marjorie J. Thomasson, Mount Lebanon, Pa.
Application February 11, 1942, Serial No. 105,764
Term of patent 7 years



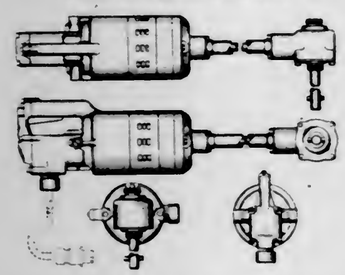
The ornamental design for a soap box, as shown.

135,305
DESIGN FOR A PIN
Frank H. Bercker, Milwaukee, Wis., assignor to Army Air Cadettes, Milwaukee, Wis., a corporation of Wisconsin
Application November 6, 1942, Serial No. 108,714
Term of patent 7 years



The ornamental design for a pin, as shown.

135,306
DESIGN FOR AN EXTERNAL ENERGIZER FOR INTERNAL COMBUSTION ENGINE STARTERS
David J. Conant, Cleveland Heights, Ohio, assignor to Jack & Heintz, Inc., Bedford, Ohio, a corporation of Ohio
Application September 19, 1942, Serial No. 108,280
Term of patent 14 years



The ornamental design for an external energizer for internal combustion engine starters, substantially as shown.

135,307
DESIGN FOR A VACUUM TUBE
William W. Eitel, San Bruno, and Jack A. McCullough, Millbrae, Calif., assignors to Eitel-McCullough, Inc., San Bruno, Calif., a corporation of California
Application June 30, 1942, Serial No. 107,373
Term of patent 14 years



The ornamental design for a vacuum tube, substantially as shown.

135,308
DESIGN FOR A VACUUM TUBE
William W. Eitel, San Bruno, and Jack A. McCullough, Millbrae, Calif., assignors to Eitel-McCullough, Inc., San Bruno, Calif., a corporation of California
Application June 30, 1942, Serial No. 107,376
Term of patent 14 years



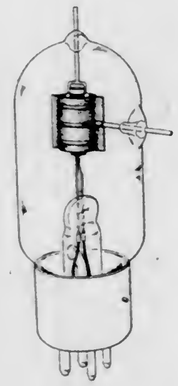
The ornamental design for a vacuum tube, substantially as shown.

135,309
DESIGN FOR A VACUUM TUBE
William W. Eitel, San Bruno, and Jack A. McCullough, Millbrae, Calif., assignors to Eitel-McCullough, Inc., San Bruno, Calif., a corporation of California
Application June 30, 1942, Serial No. 107,377
Term of patent 14 years



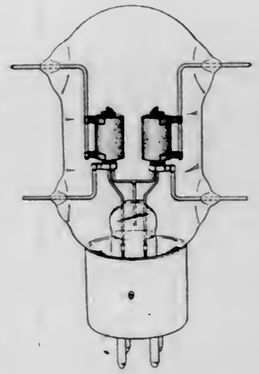
The ornamental design for a vacuum tube, substantially as shown.

135,310
DESIGN FOR A VACUUM TUBE
William W. Eitel, San Bruno, and Jack A. McCullough, Millbrae, Calif., assignors to Eitel-McCullough, Inc., San Bruno, Calif., a corporation of California
Application July 21, 1942, Serial No. 107,643
Term of patent 14 years



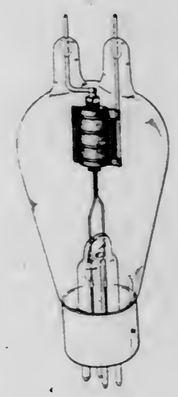
The ornamental design for a vacuum tube, substantially as shown.

135,311
DESIGN FOR A VACUUM TUBE
William W. Eitel, San Bruno, and Jack A. McCullough, Millbrae, Calif., assignors to Eitel-McCullough, Inc., San Bruno, Calif., a corporation of California
Application July 21, 1942, Serial No. 107,644
Term of patent 14 years



The ornamental design for a vacuum tube, substantially as shown.

135,312
DESIGN FOR A VACUUM TUBE
William W. Eitel, San Bruno, and Jack A. McCullough, Millbrae, Calif., assignors to Eitel-McCullough, Inc., San Bruno, Calif., a corporation of California
Application July 21, 1942, Serial No. 107,645
Term of patent 14 years



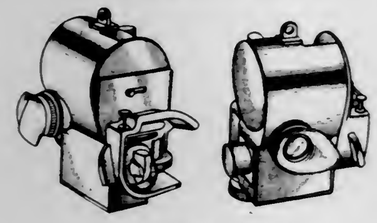
The ornamental design for a vacuum tube, substantially as shown.

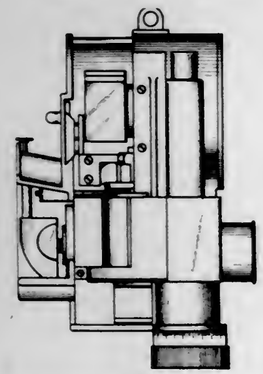
135,313
DESIGN FOR A VACUUM TUBE
William W. Eitel, San Bruno, and Jack A. McCullough, Millbrae, Calif., assignors to Eitel-McCullough, Inc., San Bruno, Calif., a corporation of California
Application August 24, 1942, Serial No. 108,020
Term of patent 14 years



The ornamental design for a vacuum tube, substantially as shown.

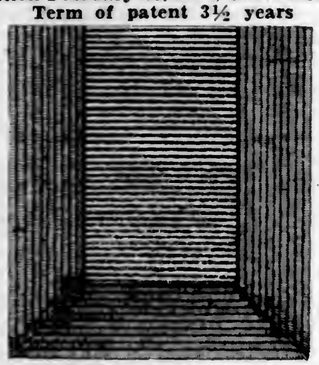
135,314
DESIGN FOR AN OCTANT
Edward F. Flint, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application October 17, 1942, Serial No. 108,550
Term of patent 14 years





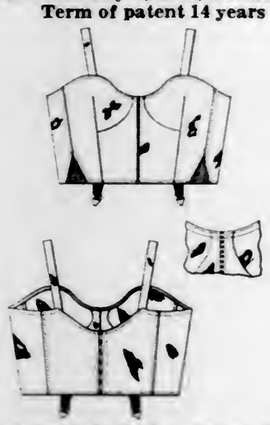
The ornamental design for an octant, substantially as shown.

135,315
DESIGN FOR A BEDSPREAD
Louis J. Freeman, New York, N. Y.
Application February 26, 1943, Serial No. 109,635
Term of patent 3½ years



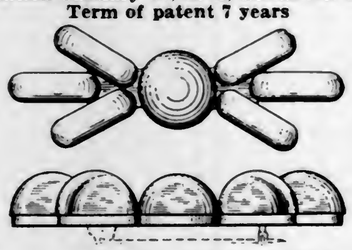
The ornamental design for a bedspread, substantially as shown and described.

135,316
DESIGN FOR A BRASSIÈRE
Elias Heller, Brooklyn, N. Y.
Application January 1, 1943, Serial No. 109,184
Term of patent 14 years



The ornamental design for a brassière, as shown.

135,317
DESIGN FOR A JEWELRY PIN OR SIMILAR ARTICLE
Maximilian C. Meyer, Brooklyn, N. Y.
Application January 20, 1943, Serial No. 109,309
Term of patent 7 years



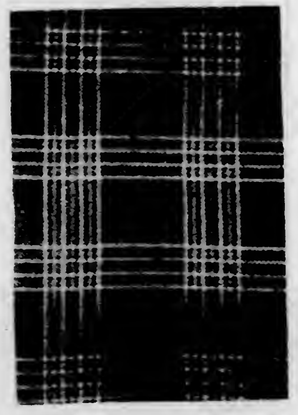
The ornamental design for a jewelry pin or similar article, substantially as shown and described.

135,318
DESIGN FOR AN EARRING
Maximilian C. Meyer, Brooklyn, N. Y.
Application January 20, 1943, Serial No. 109,310
Term of patent 7 years



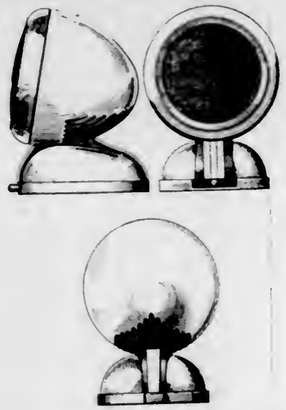
The ornamental design for an earring, substantially as shown and described.

135,319
DESIGN FOR A TEXTILE FABRIC
Jack Rubin, New York, N. Y.
Application February 25, 1943, Serial No. 109,625
Term of patent 3½ years



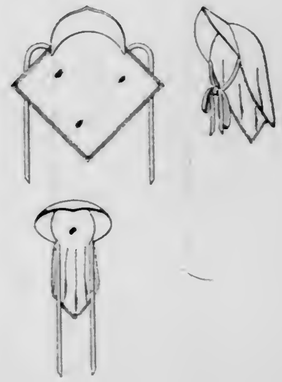
The ornamental design for a textile fabric, substantially as shown.

135,320
DESIGN FOR A COMBINED SPEAKER-MICROPHONE AND CONTROL UNIT
Charles W. Dann, East Orange, N. J., assignor to Thomas A. Edison, Incorporated, West Orange, N. J., a corporation of New Jersey
Application September 24, 1942, Serial No. 108,329
Term of patent 14 years



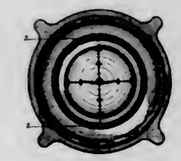
The ornamental design for a combined speaker-microphone and control unit, substantially as shown.

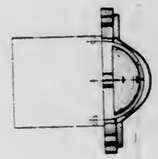
135,321
DESIGN FOR A HAT
Zinaida Harpignies, Kew Gardens, N. Y.
Application October 29, 1942, Serial No. 108,631
Term of patent 3½ years



The ornamental design for a hat, as shown.

135,322
DESIGN FOR AN AIRCRAFT LANDING INSTRUMENT INDICATOR
Frederic A. Jenks, Rockville Centre, Thomas M. Ferrill, Jr., Hempstead and Donald F. Folland, East Hempstead, N. Y., assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York
Application November 7, 1942, Serial No. 108,717
Term of patent 7 years





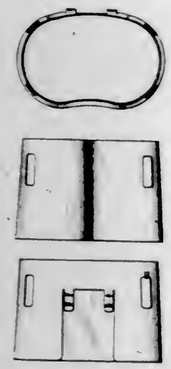
The ornamental design for an aircraft landing instrument indicator, as shown.

135,323
DESIGN FOR A WOMAN'S CAP
Yolanda M. Liberatore, Chicago, Ill., assignor to Standard Safety Equipment Co., a corporation of Illinois
Application December 23, 1942, Serial No. 109,109
Term of patent 7 years



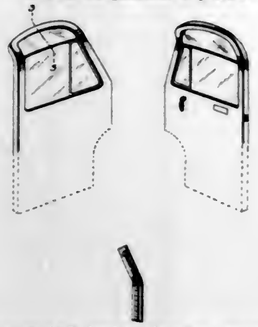
The ornamental design for a woman's cap, as shown.

135,324
DESIGN FOR A PORTABLE HEATER
John Howard Pearson, Lowell, Mass.
Application December 23, 1942, Serial No. 109,107
Term of patent 7 years



The ornamental design for a portable heater, as shown.

135,325
DESIGN FOR AN AUTOMOBILE DOOR OR SIMILAR ARTICLE
Peter J. Swofford, Fort Worth, Tex.
Application December 31, 1940, Serial No. 97,754
Term of patent 7 years



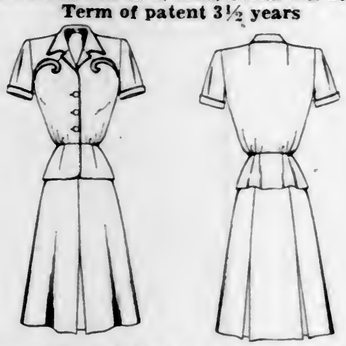
The ornamental design for an automobile door or similar article, as shown.

135,326
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application March 3, 1943, Serial No. 109,657
Term of patent 3½ years



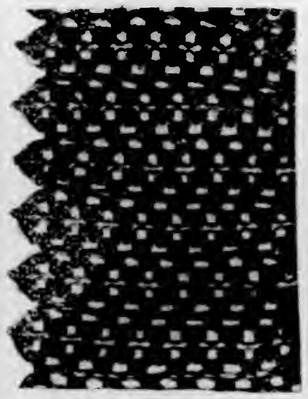
The ornamental design for a dress, substantially as shown.

135,327
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application March 3, 1943, Serial No. 109,658
Term of patent 3½ years



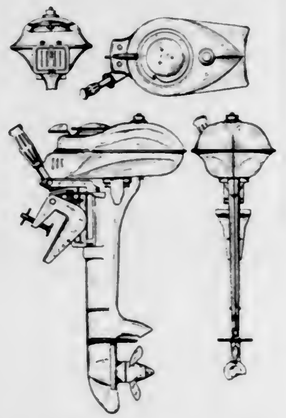
The ornamental design for a dress, substantially as shown.

135,328
DESIGN FOR A KNOTTED FABRIC
Lewek Herszkowicz, New York, N. Y.
Application January 29, 1943, Serial No. 109,362
Term of patent 3½ years



The ornamental design for a knotted fabric, substantially as shown.

135,329
DESIGN FOR AN OUTBOARD MOTOR
Elmer C. Kiekhaefer, Cedarburg, Wis., assignor to Kiekhaefer Corporation, Cedarburg, Wis., a corporation of Wisconsin
Application December 18, 1940, Serial No. 97,431
Term of patent 14 years



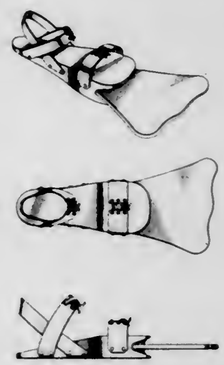
The ornamental design for an outboard motor, as shown.

135,330
DESIGN FOR A LADY'S SUIT
Frank Land, Boston, Mass.
Application March 4, 1943, Serial No. 109,669
Term of patent 3½ years



The ornamental design for a lady's suit, substantially as shown.

135,331
DESIGN FOR A SWIMMING PROPELLER
Harold L. Messinger, Los Angeles, Calif., assignor of one-half to Lawrence P. Romano, Los Angeles, Calif.
Application October 24, 1942, Serial No. 108,605
Term of patent 14 years



The ornamental design for a swimming propeller, as shown.

Patents Nos. 2,314,861 to 2,315,483

THE

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OF THE

United States Patent Office

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CONTENTS

	Page
Issue of March 30, 1943	763
Adjudicated Patents	763
Adverse Decisions in Interference	763
Disclaimers	763
Notice of Cancellation	763
Applications Under Examination	764
Decisions of the U. S. Courts—	
In re Effervescent Products, Inc.	765
Patent Suits	766
Trade-Mark Registrations Canceled	766
Bulletin of Decisions of Patent Office on Trade-Marks	768
Trade-Marks Published (85 Applications)	775
Trade-Mark Registrations Granted	786
Trade-Mark Registrations Renewed	792
Reissues	795
Patents Granted	796
Designs	944

March 30, 1943

Trade-Marks	97	No. 400,717 to No. 400,813, inclusive.
T. M. Renewals	76	
Reissues	2	No. 22,295 to No. 22,296, inclusive.
Patents	623	No. 2,314,861 to No. 2,315,483, inclusive.
Designs	72	No. 135,332 to No. 135,403, inclusive.
Total	870	

Adjudicated Patents

(C. C. A. Ill.) Burnett patent, No. 1,879,974, for railway hand brake, *Held* invalid, claims 1, 2, 3, 11, 12, and 13, if valid, *Held* infringed. *Ajax Hand Brake Co.* v. *Superior Hand Brake Co.*, 132 F.(2d) 606.

(C. C. A. Ill.) Burnett patent, No. 1,848,822, for handwheel, *Held* invalid. *Id.*

(C. C. A. Ill.) Burnett patent, No. 1,911,056, for railway car hand brake, *Held* invalid, claims 1, 2 and 3 *Held* not infringed, claim 9, if valid, *Held* not infringed, claims 10, 11, 12 and 13, if valid, *Held* infringed. *Id.*

(C. C. A. Ill.) Burnett patent, No. 1,911,057, for winding drum for railway car hand brakes, *Held* invalid, claims 4 and 5 *Held* not infringed.

(C. C. A. Ill.) Burnett patent, No. 1,963,115, for releasing and holding means for car hand brakes, *Held* invalid, claims 1, 2, 3, 4, 5, and 12 *Held* not infringed. *Id.*

(C. C. A. Ill.) Burnett patent, No. 2,054,651, for hand brake mechanism, *Held* invalid, claims 1, 3, 4, 5, 7, 8, 9, 10, 11, 14, 15, 18, 21, and 23 to 29, inclusive, *Held* not infringed, claim 19, if valid, *Held* infringed.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed.

Pat. 2,203,572, R. H. Johnson, Striping or banding machine, decided March 4, 1943, claims 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, and 31.

Pat. 2,205,670, H. C. Pye, Sound translating device, decided January 11, 1943, claims 1 and 2.

Pat. 2,251,282, J. D. Huizeng, Ribbon forming machine, decided March 5, 1943, claims 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, and 12.

Disclaimers

2,256,455.— *Thomas J. Crawford*, Youngstown, Ohio. OIL WELL CASING. Patent dated September 16, 1941. Disclaimer filed March 1, 1943, by the assignee, *Republic Steel Corporation.*

Hereby enters this disclaimer, to wit: that the term "substantially co-extensive" which appears in claims 1, 2, and 3 shall mean that the hardened layers and the threaded portions are substantially equal in length and that the hardened layers are not substantially longer than the threaded portions.

2,259,946.—*James M. Wallace*, Braddock, Pa. CIRCUIT INTERRUPTER. Patent dated October 21, 1941. Disclaimer filed March 5, 1943, by the assignee, *Westinghouse Electric & Manufacturing Company.*

Hereby enters this disclaimer to claims 1, 17 and 19 in said patent.

Notice of Cancellation

U. S. PATENT OFFICE, *Richmond, Va., Mar. 11, 1943.*

K-Nine Diner Corporation, its assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Lawrence A. Lockwood, 232 E. Erie St., Chicago, Ill., to effect the cancellation of trade-mark registration of K-Nine Diner Corporation, 725 National City Bank Bldg., Euclid Ave. and E. 6th St., Cleveland, Ohio, No. 354,743, dated February 22, 1938, and the notice of such proceeding sent by registered mail to the said K-Nine Diner Corporation at the said address having been returned by the post office undeliverable, and said notice reforwarded by registered mail to said K-Nine Diner Corporation at 234 Erie St., Toledo, Ohio, having been returned by the post office undeliverable, notice is hereby given that unless said K-Nine Diner Corporation, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Condition of Applications Under Examination at Close of Business March 13, 1943

(Total number of applications awaiting action, excluding Trade-Mark Division, 40,513; Trade-Mark Division, 811. Oldest new case, Apr. 25, 1942; oldest amended, Apr. 25, 1942.)
The dates given are 1942 except where † indicates 1943)

Divisions, Examiners, and Subjects of Inventions	Oldest new application awaiting office action	Oldest amended application awaiting office action	No. of applications awaiting action
1. TUCKER, M. W., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Domestic Cooking Vessels; Sewerage.	Sept. 30	Nov. 3	372
2. HERRMANN, D., Fishing and Trapping; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering.	Dec. 14	Oct. 19	238
3. WOLFFE, S., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	May 18	May 14	981
4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting.	Oct. 23	Sept. 26	396
5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps	July 23	July 11	588
6. GENIESSE, E. W., Carbon Chemistry (part)	June 17	June 27	1037
7. JARBOE, C. G., Optics, Photography	July 14	July 21	997
8. ADAMS, F. L., Furniture; Kitchen and Table Articles; Racks and Cabinets	Sept. 2	Aug. 25	629
9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	Aug. 26	Sept. 5	742
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Oct. 1	Oct. 7	390
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Stop Mechanisms	Sept. 22	Oct. 3	347
13. DONNELLY, A. E., Metal Working (part); Gear Cutting, Milling and Planing; Needle and Pin Making	Aug. 25	Aug. 31	663
14. HANLIN, GEORGE, Metal Working (part); Farriery; Wire Fabrics	Nov. 16	Nov. 11	401
15. HENKIN, BENJ., Glass, Plastic Block and Earthenware Apparatus; Plastics	Aug. 12	Aug. 11	685
16. SPENCER, C. J., Telegraphy; Telephony	July 23	July 23	689
17. HABECKER, LEON B., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	May 25	June 2	719
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	July 8	July 21	567
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	June 18	June 13	690
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part).	Sept. 16	Sept. 3	448
21. THOMPSON, T. J., Textiles	Sept. 29	Sept. 4	312
22. RINGLE, D., Aeronautics; Firearms; Ordnance and Explosive Devices	June 5	June 6	1629
23. BARROWS, B., Cash Registers; Calculators (part)	Oct. 15	Oct. 7	125
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	Oct. 7	Oct. 7	618
25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Aug. 5	Aug. 3	606
26. YOUNG, R. R., Electricity—Generation and Motive Power	Sept. 3	Aug. 7	535
27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus.	Sept. 3	July 10	663
28. SOLYOM, H. L., Internal-Combustion Engines (part); Cylinders and Pistons	July 24	May 11	581
29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Package and Article Carriers; Woodworking; Tools; Metal Working, Assembling.	Nov. 3	Nov. 14	349
30. McCANN, LEO P., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Nov. 13	Nov. 9	331
31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils	Sept. 19	Sept. 19	1321
32. LESH, K., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	Sept. 2	Sept. 5	657
33. HULL, J. S., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements	Sept. 28	Oct. 29	563
34. SAPERSTEIN, S., Electricity—Meters and Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators.	Sept. 19	Sept. 24	376
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles	Sept. 28	Sept. 17	651
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	Oct. 15	Sept. 30	402
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Oct. 27	Nov. 3	489
38. KRAFFT, C. F., Coating Processes: Coating or Plastic Compositions (part)	Aug. 8	Sept. 14	696
39. WHITNEY, F. L., Fluid-Pressure Regulators; Valves; Water Distribution	Dec. 14	Dec. 2	355
40. DRUMMOND, E. J., Receptacles	Nov. 2	Nov. 4	410
41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles; Counters and Calculators (part); Typewriting Machines; Check-Controlled Apparatus.	Sept. 5	Sept. 12	425
42. MARANS, H., Electric Signaling	Oct. 24	Oct. 17	344
43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Azo Compounds.	May 13	May 12	955
44. HARVEY, L. P., Refrigeration	Aug. 19	July 21	369
45. HILL, H. D., Shafting and Flexible Shaft Couplings; Wheels and Axles; Resilient Tires and Wheels; Lubrication; Bearings and Guides; Motors; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part).	Sept. 7	Sept. 18	742
46. BLEECKER, V. E., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Heating Systems; Coating Apparatus.	July 13	July 15	462
47. KANOF, WM. J., Clutches and Power Stops; Brakes; Boring and Drilling; Land Vehicles (part)	Sept. 4	Sept. 3	968
48. ROEPKE, O. B., Electricity, General Applications; Igniters	Apr. 25	Apr. 25	737
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	Sept. 17	Sept. 7	610
50. LEVIN, SAMUEL, Resins; Rubber; Carbohydrates and Derivatives	Aug. 15	Aug. 15	1196
51. BACKUS, C. D., Radiant Energy	Sept. 4	Sept. 2	914
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits.	Aug. 17	Sept. 18	612
53. PECK, M. K., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Curtains, Shades and Screens; Cutlery.	Dec. 5	Oct. 28	193
54. STRACHAN, O. W., Electric Lamp and Discharge Devices (part)	Aug. 13	Aug. 15	447
55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery	July 3	June 27	754
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Laminated Fabrics (part); Paper Making	Aug. 17	Aug. 17	854
57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Aug. 24	Sept. 18	388
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working	Sept. 5	Oct. 19	544
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds; Compositions (part).	May 6	May 16	1271
60. GLASS, R. L., Electricity, Heating and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Marine Propulsion; Consumable Electrode Lamp and Discharge Devices.	July 22	July 22	424
61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Laminated Electrical Insulation, Belt, Hose, Tire and Ball Making; Boats and Buoys.	July 9	Aug. 22	590
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	Nov. 13	Aug. 27	438
63. WINKELSTEIN, A. H., Preserving; Poisons; Fermentation; Foods and Beverages; Proteins; Oils and Fats.	June 12	June 29	984
64. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Distillation; Fuel	Sept. 19	Sept. 26	1140
65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays.	Aug. 8	Aug. 12	649
Trade Marks: RICHMOND, F. A.	Feb. 2	Feb. 22	811
Designs: KALUPY, H. H.	Feb. 17	Feb. 20	315

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Adams, George W., C. E. Heitman, N. E. Ritchie, W. S. Booth, F. L. Jandron, and J. E. Fernald, trustees under the will of M. B. G. Eddy, deceased, Boston, Mass. Printed books and publications. Serial No. 458,300; Mar. 30. Class 38.

Albanese, Arthur, doing business as Marvel Jewelry Mfg. Company, Providence, R. I. Jewelry. Serial No. 457,868; Mar. 30. Class 28.

Alpha Mills, Schuylkill Haven, Pa. Infants' and children's crespers, sweaters, two-piece romper suits, etc. Serial No. 457,801; Mar. 30. Class 39.

American Grana Watch Company. (See Von Burg, Emil.)

Arkansas Company, Inc., Newark, N. J. Compound having detergent, penetrating and emulsifying properties. Serial No. 454,049; Mar. 30. Class 4.

Beacon Sales Company. (See Freeman, Abraham S.)

Beaumont Company. (See Grove Laboratories, Inc., The.)

Bergeron, Esther, doing business under the fictitious name and style of Trader Vic, Oakland, Calif. Rum. Serial No. 449,985; Mar. 30. Class 49.

Block, Charles A., doing business as H & L Block, San Francisco, Calif. Jackets for men, women, and children. Serial No. 457,537; Mar. 30. Class 39.

Bogdanoff, Leonard, New York, N. Y. Artists' materials. Serial No. 457,378; Mar. 30. Class 16.

Booth, W. Stuart, trustee, et al. (See Adams, G. W., Heitman, Ritchie, Booth, Jandron, and Fernald.)

Breleo Radio Company, New York, N. Y. Radio transmitters and receivers; radio broadcasting, general announcing and public address apparatus and parts therefor; amplifying apparatus, etc. Serial No. 456,447; Mar. 30. Class 21.

Brodkin, Milton, New York, N. Y. Women's and children's hats, berets, and tam-o-shanters. Serial No. 457,673; Mar. 30. Class 39.

Brown, Delane, Inc., Towson, Md. Special purpose food, auxiliary or dietary supplement food. Serial No. 457,572; Mar. 30. Class 46.

Burkhardt, Frederic T., Holyoke, Mass. Writing and printing paper. Serial No. 455,064; Mar. 30. Class 37.

Carter Carburetor Corporation, St. Louis, Mo. Internal combustion engine carburetors. Serial No. 421,597; Mar. 30. Class 23.

Castaloy Corporation, Detroit, Mich. Fixtures. Serial No. 453,633; Mar. 30. Class 23.

Chapman & Smith Company, Chicago, Ill. Maltless extracts for flavoring beverages. Serial No. 434,553; Mar. 30. Class 45.

Chicago Pneumatic Tool Company, New York, N. Y. Hydraulic riveters. Serial No. 450,047; Mar. 30. Class 23.

Clayton Brothers. (See Wyer, E., & Sons, Limited.)

Communication Measurements Laboratory, New York, N. Y. Automatic tester for use with all types of electronic equipment. Serial 457,601; Mar. 30. Class 26.

Cosmetics Research Corporation, doing business as Don Leslie, West Haven, Conn., and New York, N. Y. Smoking tobacco. Serial No. 457,806; Mar. 30. Class 17.

Coty, Inc., New York, N. Y. Face powder, dusting powder, toilet water, etc. Serial No. 458,034; Mar. 30. Class 6.

Curtiss, John S., El Paso, Tex. Blasting cap protectors and devices for carrying and applying the same. Serial No. 457,603; Mar. 30. Class 9.

Duplan Corporation, The., New York, N. Y. Yarns. Serial No. 458,207; Mar. 30. Class 43.

Eddy, Mary Baker G. (See Adams, G. W., Heitman, Ritchie, Booth, Jandron, and Fernald, trustees.)

Famous Funnies, Inc., Waterbury, Conn. Comic magazines. Serial No. 457,950; Mar. 30. Class 38.

Fernald, Josiah E., trustee, et al. (See Adams, G. W., Heitman, Ritchie, Booth, Jandron, and Fernald.)

Fisher Flouring Mills Company, Harbor Island, Seattle, Wash. Wheat flour. Serial No. 457,895; Mar. 30. Class 46.

Flower Foods, Inc., Maywood, Ill. Solution for strengthening, feeding, and promoting the development of cut plants. Serial No. 458,491; Mar. 30. Class 6.

Freeman, Abraham S., doing business as Beacon Sales Company, Cleveland, Ohio. Shaving cream. Serial No. 457,118; Mar. 30. Class 4.

Frye Company, The, Watertown, Mass. Medicinal preparation. Serial No. 458,458; Mar. 30. Class 6.

Gamble Stores Incorporated, Minneapolis, Minn. Vitamin B complex capsules, brewers' yeast tablets, etc. Serial No. 458,174; Mar. 30. Class 6.

General Shoe Corporation, Nashville, Tenn. Shoes. Serial No. 457,809; Mar. 30. Class 39.

Grove Laboratories, Inc., The, doing business as Beaumont Co., Wilmington, Del., and St. Louis, Mo. Vitamin capsules. Serial No. 457,914; Mar. 30. Class 6.

Grove Laboratories, Inc., The, doing business as Beaumont Company, Wilmington, Del., and St. Louis, Mo. Vitamin capsules. Serial No. 458,190; Mar. 30. Class 6.

Harpignies, Zinaida, New York, N. Y. Women's wearing apparel. Serial No. 456,953; Mar. 30. Class 39.

Haskelite Manufacturing Corporation, Chicago, Ill. Unfinished plywood. Serial No. 455,729; Mar. 30. Class 12.

Haslin Mills. (See Meyer, Emile.)

Hatch Full Fashioned Hosiery Co., Belmont, N. C. Hosiery. Serial No. 458,191; Mar. 30. Class 39.

Heitman, Charles E., trustee, et al. (See Adams, G. W., Heitman, Ritchie, Booth, Jandron, and Fernald.)

Hey-Rube, Inc., Tulsa, Okla. Souvenir program. Serial No. 458,304; Mar. 30. Class 38.

Hillsborough Packing Company, Inc., Tampa, Fla. Fresh citrus fruits. Serial No. 455,375; Mar. 30. Class 46.

Holophane Company, Inc., New York, N. Y. Glass and combination glass and metal globes and reflectors. Serial No. 450,591; Mar. 30. Class 34.

Horsfall, John C., & Sons Limited, Glasburn, near Keighley, England. Knitting wools. Serial No. 455,019; Mar. 30. Class 43.

International Milling Company, Minneapolis, Minn. Wheat meal in granular form. Serial No. 457,976; Mar. 30. Class 1.

Jandron, Francis L., trustee, et al. (See Adams, G. W., Heitman, Ritchie, Booth, Jandron, and Fernald.)

Jersey Cereal Company, Chicago, Ill. Breakfast cereals. Serial No. 454,757; Mar. 30. Class 46.

Johnson, S. C., & Son, Inc., Racine, Wis. Electric floor polishing machines. Serial No. 456,560; Mar. 30. Class 21.

Kentucky Macaroni Company, Louisville, Ky. Alimentary paste products. Serial No. 452,614; Mar. 30. Class 46.

La Choy Food Products, Inc., Archbold, Ohio. Mixed fruit and vegetable juice. Serial No. 458,272; Mar. 30. Class 46.

Lambert Vitamins Company, Inc., New York, N. Y. Vitamin tablets. Serial No. 456,150; Mar. 30. Class 6.

Leslie, Don. (See Cosmetics Research Corporation.)

Liberty Vitamin Corporation, New York, N. Y. Medicinal preparation. Serial No. 457,765; Mar. 30. Class 6.

Lieberman, John P., & Co., Detroit, Mich. Smoking and chewing tobacco. Serial No. 457,856; Mar. 30. Class 17.

Lowe, Joe, Corporation, New York, N. Y. Frozen confections. Serial No. 458,334; Mar. 30. Class 46.

Lucurell, John, Seattle, Wash. Ladies' trimmed hats. Serial No. 457,394; Mar. 30. Class 39.

MacFarland, William H., Sr., Philadelphia, Pa. Dextrose wafers. Serial No. 457,009; Mar. 30. Class 46.

Marvel Jewelry Mfg. Company. (See Albanese, Arthur.)

Mason, J. S., & Sons, Inc., Westboro, Mass. Cotton and linen tape, braids and webbing, wool braid, etc. Serial No. 457,500; Mar. 30. Class 40.

McDonald Products Corporation, Buffalo, N. Y. Ash trays. Serial No. 457,938; Mar. 30. Class 8.

Medical Chemicals, Inc., Baltimore, Md. Germicidal and fungicidal preparations. Serial No. 457,526; Mar. 30. Class 6.

Meiers Company, The, Appleton, Wis. Vitaminic preparation. Serial No. 458,399; Mar. 30. Class 6.

Metal Decorating & Mfg. Co., Chicago, Ill. Name, number and letters plates, seals and tags. Serial No. 457,610; Mar. 30. Class 50.

Meyer, Emile, doing business as Haslin Mills, New York, N. Y. Water repellent fabrics. Serial No. 457,629; Mar. 30. Class 42.

Mine Safety Appliances Company, Pittsburgh, Pa. Mine rock dust distributors, mine fire trucks, limestone pulverizers, etc. Serial No. 450,264; Mar. 30. Class 23.

Morrissey, Charles T., doing business as Charles T. Morrissey & Company, Chicago, Ill. Egg substitute. Serial No. 457,985; Mar. 30. Class 46.

National Tile Company, The, Anderson, Ind. Steatite insulators used as component parts of radio sets. Serial No. 458,119; Mar. 30. Class 21.

Newman, Aaron, Brooklyn, N. Y. Men's and boys' neckties and cravats. Serial No. 456,080; Mar. 30. Class 39.

Oil Specialties & Refining Co., Inc., Brooklyn, N. Y. Metal polish. Serial No. 457,988; Mar. 30. Class 4.

Old Weston Distilling Co., Weston, Mo. Whiskey. Serial No. 450,660; Mar. 30. Class 49.

Pacific Fruit & Produce Company, Seattle, Wash. Fresh deciduous fruits and fresh vegetables. Serial No. 441,325; Mar. 30. Class 46.

Pacific Lumber Company, The, San Francisco, Calif. Shredded bark fiber. Serial No. 457,420; Mar. 30. Class 1.

Paper Products, Oconomowoc, Wis. Combination of envelope and letter-folder sheets. Serial No. 450,142; Mar. 30. Class 37.

Pittsburgh Plate Glass Company, Pittsburgh, Pa. Paints, paint primers, paint enamels, etc. Serial No. 458,226; Mar. 30. Class 16.

Plastalloy Company, Burbank, Calif. Thermoplastic synthetic resins. Serial No. 455,129; Mar. 30. Class 1.

Puritan Rug Co., New York, N. Y. Scatter and novelty rugs. Serial No. 457,778; Mar. 30. Class 42.

Puro Products Company, Chicago, Ill. Food compositions. Serial No. 455,517; Mar. 30. Class 46.

Quaker Oats Company, The, Chicago, Ill. Soups. Serial No. 458,373; Mar. 30. Class 46.

Ritchie, Nelvia E., trustee, et al. (See Adams, G. W., Heitman, Ritchie, Booth, Jandron, and Fernald.)

Ross, Sydney, Co., The, Newark, N. J. Preparation for use in the treatment of inappetence, general debility, exhaustion, etc. Serial No. 457,659; Mar. 30. Class 6.

S. A. Fabrica Argentina De Alpargatas, Buenos Aires, Argentina. Men's and women's jute or hemp soled fabric shoes. Serial No. 454,464; Mar. 30. Class 39.

Saks, M. J., Shoe Corp., New York, N. Y. Boots, shoes, pumps, etc. Serial No. 457,371; Mar. 30. Class 39.

Seeman Brothers, Inc., New York, N. Y. Ammonia substitute. Serial No. 458,082; Mar. 30. Class 6.

Simonin's, C. F., Sons, Inc., Philadelphia, Pa. Vegetable oil. Serial No. 451,451; Mar. 30. Class 46.

Sonneborn, L., Sons, Inc., New York, N. Y. Chemical product. Serial No. 458,292; Mar. 30. Class 6.

Standard Brands Incorporated, New York, N. Y. Cereal beverage preparation. Serial No. 458,201; Mar. 30. Class 46.

Standard Brands Incorporated, New York, N. Y. Multivitamin and mineral tablets. Serial No. 458,252; Mar. 30. Class 6.

Sundox Products Limited, Gateshead, England. Meat and vegetable extract. Serial No. 457,425; Mar. 30. Class 46.

Terrytoons, Inc., New Rochelle, N. Y. Magazine for comic strips. Serial No. 455,576; Mar. 30. Class 38.

Titeflex Metal Hose Co., Newark, N. J. Unitary, detachable, filled radio-shielded spark plug leads for the ignition of internal combustion engines. Serial No. 458,255; Mar. 30. Class 21.

Trader Vic. (See Bergeron, Esther.)

Union Asbestos & Rubber Company, Chicago, Ill. Thermal pipe insulation. Serial No. 455,617; Mar. 30. Class 12.

United Chemical Company, Inc., Kansas City, Mo. Glycerine substitute. Serial No. 454,586; Mar. 30. Class 6.

Vita-Var Corporation, Newark, N. J. Paints, varnishes and paint enamels. Serial No. 451,127; Mar. 30. Class 16.

Von Burg, Emil, doing business as American Grana Watch Company, New York, N. Y. Watches, parts thereof, watch movements, and clocks. Serial No. 456,349; Mar. 30. Class 27.

Welmaid Products, Chicago, Ill. Ironing table pads and covers. Serial No. 456,644; Mar. 30. Class 24.

Winthrop Chemical Company, Inc., New York, N. Y. Anesthetic preparations, preparations for determining blood clotting capacity, etc. Serial No. 458,350; Mar. 30. Class 6.

Wyer, E., & Sons, Limited, also doing business as Clayton Brothers, London, England. Fruit syrups, fruit squashes, fruit extracts, etc. Serial No. 444,845; Mar. 30. Class 45.

LIST OF REGISTRANTS OF TRADE-MARKS

Addressograph-Multigraph Corporation, Cleveland, Ohio. Publication. 400,748; Mar. 30; Serial No. 456,229; published Jan. 12, 1943. Class 38.

All Over Manufacturing Co. (See Andis O. M. Manufacturing Co.)

American Axe and Tool Company, The, Pittsburgh, Pa., and Charleston, W. Va., assignor, by mesne assignments, to The American Fork & Hoe Company, Cleveland, Ohio. Axes, scythes, hatchets, etc. 164,880; renewed Feb. 27, 1943.

American Fork & Hoe Company, The. (See American Axe and Tool Company, The, assignor.)

Anderson, Arthur A., doing business as Arthur Anderson Fish Co., to Columbia River Salmon Co. Inc., Astoria, Oreg., successor. Canned salmon. 171,412; renewed Aug. 7, 1943.

Andis O. M. Manufacturing Co., Racine, Wis., by change of name to All Over Manufacturing Co. Hair clippers. 166,116; renewed Mar. 27, 1943.

B. V. D. Corporation. (See Klein, Gordon & Company, assignor.)

Bakelite Corporation. (See General Bakelite Company, assignor.)

Baker Food Products Company, Chicago, Ill. Canned meat products. 400,740; Mar. 30; Serial No. 454,727; published Jan. 19, 1943. Class 46.

Bauermeister, Charles W., Co., Inc., Terre Haute, Ind. Food and ingredients of foods. 171,313; renewed Aug. 7, 1943.

Beatrice Creamery Company, assignor to Beatrice Creamery Company, Chicago, Ill. Cheese. 171,338; renewed Aug. 7, 1943.

Becker, John A., doing business as Gumputtie Laboratories, Chicago, Ill. Packing and sealing compound. 400,796; Mar. 30. Class 12.

Beech-Nut Packing Company, Canajoharie, N. Y. Bacon. 170,929; renewed July 24, 1943.

Bradley, Milton, Company, Springfield, Mass. Board game. 400,772–3; Mar. 30; Serial Nos. 457,112–13; published Jan. 19, 1943. Class 22.

Bradley, Milton, Company, Springfield, Mass. Board game. 400,775; Mar. 30; Serial No. 457,114; published Jan. 19, 1943. Class 22.

Burns, E. Reed, Manufacturing Corporation, Brooklyn, N. Y. Polishing and buffing compound. 400,810; Mar. 30. Class 4.

California Paint Company, Oakland, assignor to General Paint Corporation, San Francisco, Calif. Paints and painters' materials. 169,659; renewed June 26, 1943.

California Prune and Apricot Growers, Inc., assignor to California Prune & Apricot Growers Association, San Jose, Calif. Dried fruits. 168,564; renewed May 29, 1943.

Capitol Paint & Varnish Works, Inc., Chicago, Ill. Paints. 400,742; Mar. 30; Serial No. 454,823; published Jan. 19, 1943. Class 16.

Celanese Corporation of America, New York, N. Y. Staple fibers. 400,749; Mar. 30; Serial No. 456,233; published Jan. 19, 1943. Class 1.

Chicago Mail Order Company, Chicago, Ill. Men's suits. 400,785; Mar. 30. Class 39.

Cohen, N. B., Company, Scranton, Pa. Hair nets. 400,779; Mar. 30. Class 39.

Colorado Milling & Elevator Co. (See Holland O'Neal Milling Co., assignor.)

Colorado Milling & Elevator Co., The, doing business as The Monte Vista Flour Mills, Denver and Mount Vista, Colo. Wheat flour. 167,267; renewed Apr. 24, 1943.

Colorado Milling & Elevator Co., The, doing business as The Ft. Collins Flour Mills, Denver and Fort Collins, to the Colorado Milling & Elevator Co., Denver, Colo. Wheat flour. 170,844; renewed July 24, 1943.

Columbia River Salmon Co. Inc. (See Anderson, Arthur A.)

Continental Coffee Company, Inc., Chicago, Ill. Coffee, tea, mustard, etc. 400,719; Mar. 30; Serial No. 444,756; published Jan. 19, 1943. Class 46.

Da-Lite Screen Company, Inc., Chicago, Ill. Motion picture screens. 400,736; Mar. 30; Serial No. 453,732; published Jan. 19, 1943. Class 26.

Detective Comics, Inc., New York, N. Y. Cartoons published in a series. 400,764; Mar. 30; Serial No. 456,728; published Jan. 12, 1943. Class 38.

Detective Comics, Inc., New York, N. Y. Publication. 400,767; Mar. 30; Serial No. 456,847; published Jan. 19, 1943. Class 38.

Dewein, Victor C., Emery and Forsyth, Ill. Lawn, plant, and shrub foods. 400,760; Mar. 30; Serial No. 456,683; published Jan. 5, 1943. Class 10.

Dubow, J. A., Glove Co., Inc., Chicago, Ill., by change of name to J. A. Dubow Manufacturing Co., Inc. Sporting goods. 163,563; renewed Jan. 23, 1943.

Dziuk, Edmund, doing business as Edmund D. Price, Detroit, Mich. Sewing needles for hand use. 400,790; Mar. 30. Class 40.

Eastman Kodak Company, Jersey City, N. J., and Rochester, N. Y. Photographic film and photographic paper. 400,803; Mar. 30. Class 26.

Eddy Form, Inc., New York, N. Y. Brassières. 400,791; Mar. 30. Class 39.

Elephant Brush Company, Limited, London, England. Varnish brushes, wall brushes, sash brushes, etc. 400,733–4; Mar. 30; Serial Nos. 453,325–6; published Jan. 5, 1943. Class 29.

Eutectic Welding Alloys, Inc., assignor to Eutectic Welding Alloys Company, New York, N. Y. Metallic welding, brazing, and soldering alloys, and cementing material. 400,805; Mar. 30. Class 14.

Fidelity Chemical Products Corp., Newark, N. J. Cleaning preparation. 400,789; Mar. 30. Class 4.

Flying Stories, Inc., New York, N. Y. Periodical. 400,758; Mar. 30; Serial No. 456,529; published Jan. 19, 1943. Class 38.

Foregger Company, Inc., The, New York, N. Y. Pharyngeal airways—namely, tubular throat tubes. 400,806; Mar. 30. Class 44.

Fox River Paper Company, assignor to Fox River Paper Corporation, Appleton, Wis. Writing paper. 166,943; renewed Apr. 17, 1943.

Fox River Paper Company, assignor to Fox River Paper Corporation, Appleton, Wis. Writing paper. 167,152; renewed Apr. 24, 1943.

G. C. A. Manufacturing Co., The, Pittsfield, Mass. Apparatus for installing and removing electric-light bulbs, lamp sockets, lamp bases, etc. 170,243; renewed July 10, 1943.

General Bakelite Company, Perth Amboy, N. J., assignor, by mesne assignments, to Bakelite Corporation, New York, N. Y. Pipes and pipe parts, and cigar and cigarette holders. 170,772; renewed July 24, 1943.

General Paint Corporation. (See California Paint Company, assignor.)

General Power Plant Corporation, assignor to Helix Gage Works, Inc., New York, N. Y. Gauges. 400,741; Mar. 30; Serial No. 454,756; published Jan. 19, 1943. Class 26.

General Ribbon Mills, Inc., Dover, Del., and New York, N. Y. Textile ribbons. 400,777; Mar. 30. Class 42.

Goodyear Tire & Rubber Company, The, Akron, Ohio. Tires. 400,771; Mar. 30; Serial No. 457,036; published Jan. 19, 1943. Class 35.

Granat Bros., Inc., San Francisco, Calif. Jewelry. 400,754–5; Mar. 30; Serial Nos. 456,489–90; published Jan. 19, 1943. Class 28.

Greenfield Tap and Die Corporation. (See Moback Tool & Machine Manufacturing Corporation.)

Griffith Laboratories, Inc., The, doing business as The Griffith Laboratories, Chicago, Ill. Powdered product for flavoring food. 400,782; Mar. 30. Class 46.

Gulf & West Indies Co., Inc., New York, N. Y. Sponges. 400,724; Mar. 30; Serial No. 448,413; published Jan. 19, 1943. Class 1.

Gumputtie Laboratories. (See Becker, John A.)

Hanson-Van Winkle-Munning Company. (See Munning, A. P., & Co., assignor.)

Harman Watch Co. Inc., New York, N. Y. Watches, clocks, and parts thereof. 400,765; Mar. 30; Serial No. 456,732; published Jan. 19, 1943. Class 27.

Harman Watch Co. Inc., New York, N. Y. Jewelry. 400,766; Mar. 30; Serial No. 456,733; published Jan. 19, 1943. Class 28.

Hays Corporation, The, Michigan City, Ind. Instruments or gauges for measuring various conditions. 400,781; Mar. 30. Class 26.

Healy, Daniel J., doing business as D. J. Healy Shops, assignor to D. J. Healy Shops, Detroit, Mich. Wool yarns. 171,479; renewed Aug. 7, 1943.

Hearthstone House, Winnetka, Ill. Mayonnaise, thousand island dressing, roquefort cheese dressing, etc. 400,729; Mar. 30; Serial No. 452,746; published Jan. 19, 1943. Class 46.

Helix Gage Works, Inc. (See General Power Plant Corporation, assignor.)

Hinde & Dauch Paper Company, The, Sandusky, Ohio. Boxes and cartons. 400,718; Mar. 30; Serial No. 441,538; published Jan. 19, 1943. Class 2.

Hodgman Rubber Company. (See Stranss, Archer, Rubber Company.)

Holland O'Neal Milling Co., Mount Vernon, Mo., assignor to The Colorado Milling & Elevator Co., Denver, Colo. Wheat flour. 167,140; renewed Apr. 24, 1943.

Hollins, William, & Company, Limited, Nottingham, England. Cloth in the piece. 168,674; renewed May 29 1943.

Home Curtain Corp., New York, N. Y. Window curtains. 400,795; Mar. 30. Class 42.

Hoover Suction Sweeper Company, The, assignor to The Hoover Company, assignor to The Hoover Company, North Canton, Ohio. Electric suction sweepers. 169,520; renewed June 19, 1943.

Houlis, Louis D., Dallas, Tex. Air conditioning equipment for bakeries. 400,801; Mar. 30. Class 34.

Houser, Richard E., Houston, Tex. Oils, having rust, corrosion and gum dissolving properties, cleaning properties, and also used as lubricants and penetrants. 400,743; Mar. 30; Serial No. 455,593; published Jan. 5, 1943. Class 15.

Illinois Canning Co., to The Illinois Canning Company, Hoopeston, Ill., successor. Canned corn. 23,463–4; re-renewed Aug. 8, 1943.

Illinois Canning Co., to The Illinois Canning Company, Hoopeston, Ill., successor. Canned vegetables. 23,465; re-renewed Aug. 8, 1943.

Ingersoll, Robt. H., & Bro., New York, N. Y., assignor, by mesne assignments, to Waterbury Clock Company, assignor, by mesne assignments, to Waterbury Clock Company, Waterbury, Conn. Watches and clocks. 167,686; renewed May 8, 1943.

International Chemical Company, Inc., Philadelphia, Pa. Lubricating oils. 400,735; Mar. 30; Serial No. 453,721; published Aug. 11, 1942. Class 15.

Juliá, Angel P., doing business as Cia Licorera Julia. Barrio Obrero, Santurce, P. R. Rum. 400,787; Mar. 30. Class 49.

Julia, Cia Licorera. (See Juliá, Angel P.)

Kann, David, Inc., North Bergen, N. J. Fountain pens, mechanical pencils, combination fountain pens and mechanical pencils, etc. 400,759; Mar. 30; Serial No. 456,561; published Jan. 19, 1943. Class 37.

Kelly-Springfield Tire Company, New York, N. Y., assignor, by mesne assignments, to The Kelly-Springfield Tire Company, Cumberland, Md. Resilient vehicle tires. 169,306; renewed June 12, 1943.

Keystone Lubricating Company, Philadelphia, Pa. Lubricants. 171,284–8; renewed Aug. 7, 1943.

Keystone Lubricating Company, Philadelphia, Pa. Lubricants. 171,290; renewed Aug. 7, 1943.

Keystone Lubricating Company, Philadelphia, Pa. Lubricants. 171,541–5; renewed Aug. 7, 1943.

Kilcup, Daniel D., Portland, Oreg. Coin receptacles. 400,726; Mar. 30; Serial No. 449,324; published Jan. 19, 1943. Class 2.

Kimball, J. H., Inc., New York, N. Y. Ladies' handkerchiefs. 400,802; Mar. 30. Class 39.

King, Browning, & Co., of New York, Inc., New York, N. Y. Men's and boys' suits, topcoats, overcoats, sport coats, etc. 400,804; Mar. 30. Class 39.

Kistler Leather Company, South Boston, to Kistler Leather Company, Boston, Mass. Leather. 169,045; renewed June 5, 1943.

Klein, Gordon & Company, Detroit, Mich., assignor, by mesne assignments, to The B. V. D. Corporation, Baltimore, Md. Hosiery; knit and cut underwear; knitted sweaters, and men's work shirts. 166,698; renewed Apr. 10, 1943.

Kleinert, I. B., Rubber Company, New York, N. Y. Very thin treated fabric sheeting in the piece to render it waterproof. 400,728; Mar. 30; Serial No. 452,503; published Jan. 19, 1943. Class 50.

Krans Bros. & Co., Inc., New York, N. Y. Whiskies, gins and alcoholic cordials. 400,813; Mar. 30. Class 49.

La Dez Cigar Co., Denver, Colo. Cigars. 167,178; renewed Apr. 24, 1943.

Lafayette Pharmacal Company, The, La Fayette, Ind., by change of name to Lafayette Pharmacal Inc. Medicinal preparation. 169,613; renewed June 26, 1943.

Lancaster Bone Fertilizer Co. Inc., Lancaster, to Lancaster Bone Fertilizer Co. Inc., Quarryville, Pa. Fertilizers and lime for fertilizers. 171,548; renewed Aug. 7, 1943.

Laura Secord Confections, Ltd., assignor to Laura Secord Candy Shops, Limited, Toronto, Ontario, Canada. Candies. 163,475; renewed Jan. 16, 1943.

Lenox Incorporated, Trenton, N. J. Ceramic insulating parts. 400,746–7; Mar. 30; Serial Nos. 455,981–2; published Jan. 19, 1943. Class 21.

Liberty Hosiery Mills, Inc., Liberty, N. C. Women's stockings. 400,797; Mar. 30. Class 39.

Lobel, Helen, & Co., New York, N. Y., Women's and misses' negligees, housecoats, robes, etc. 400,793; Mar. 30. Class 39.

London Handkerchief Co., Inc., New York, N. Y. Handkerchiefs. 400,799; Mar. 30. Class 39.

Marinello Company, La Crosse, Wis., assignor, by mesne assignments, to Sales Affiliates, Inc., New York, N. Y. Powder for the skin, toilet water and perfume. 164,164; renewed Feb. 13, 1943.

Marshall Field & Company, Chicago, Ill. Lace curtains. 400,783; Mar. 30. Class 42.

Mayer China Company, The, Beaver Falls, Pa. Chinaware. 171,115; renewed July 31, 1943.

Mayfair Togs, Inc., New York, N. Y. Snow suits, bathing suits, play suits, etc. 400,792; Mar. 30. Class 39.

May-Way Mills, Inc. (See Quisenberry Feed Mfg., assignor.)

McKesson & Robbins, Incorporated. (See Walnut Growers Spray Manufacturing Company.)

McKesson & Robbins, Incorporated. (See Western Wholesale Drug Co.)

McMullen-Leavens Company, Inc., New York, N. Y. Men's dress and negligee shirts, men's and women's pajamas, shorts, and underwear; and women's wearing apparel. 400,808; Mar. 30. Class 39.

Midland Shoe Corporation, New York, N. Y. Shoes. 400,800; Mar. 30. Class 39.

Moback Tool & Machine Manufacturing Corporation, Boston, Mass., assignor to Greenfield Tap and Die Corporation, Greenfield, Mass. Reamers. 166,033; renewed Mar. 27, 1943.

Monarch Wine Co. of Georgia, Atlanta, Ga. Wine. 400,780; Mar. 30. Class 47.

Monitor Sad Iron Company, The, sometimes trading under the name of Royal Self-Heating Iron Co., Big Prairie, Ohio. Sad irons. 165,332; renewed Mar. 6, 1943.

Monte Vista Flour Mills, The. (See Colorado Milling & Elevator Co., The.)

Monville, Frank O., Hubbell, Mich. Medicinal preparation for the treatment of colds, etc. 164,442; renewed Feb. 20, 1943.

Morenci Allied Products, Morenci, Mich. Adhesive cement. 400,725; Mar. 30; Serial No. 448,573; published Jan. 19, 1943. Class 5.

Morris Paper Mills, Chicago, Ill. Cartons, caddies, and pasteboard packages. 165,830; renewed Mar. 20, 1943.

Mountain City Mill Company, assignor to Mountain City Mill Company, Inc., Chattanooga, Tenn. Feed for horses, cattle, hogs, etc. 171,031; renewed July 31, 1943.

Munning, A. P., & Co., assignor to Hanson-Van Winkle-Munning Company, Matawan, N. J. Chemicals in combination for electroplating solutions. 165,719–20; renewed Mar. 20, 1943.

Napa & Sonoma Wine Co., San Francisco, Calif. Wines. 400,737; Mar. 30; Serial No. 453,780; published Dec. 29, 1942. Class 47.

National Gum & Mica Co., New York, N. Y., Boston, Mass., Charlotte, N. C., Chicago, Ill., Dunellen, N. J., San Francisco, Calif., and Toronto, Ontario, Canada, assignor to National Starch Products Inc., New York, N. Y. Paste powder. 164,850; renewed Feb. 27, 1943.

National Mortar and Supply Company of Pittsburg, Pittsburgh, Pa. Lime. 169,341; renewed June 12, 1943.

News Map of the Week, Inc., Chicago, Ill. Periodical publication. 400,778; Mar. 30. Class 38.

New York Merchandise Co., Inc., New York, N. Y. Hair nets. 400,807; Mar. 30. Class 39.

North American Mercantile Co. Inc., San Francisco, Calif. Canned fruits and vegetables, dried fruits, condensed milk, etc. 171,536; renewed Aug. 7, 1943.

Norten Pike Company. (See Pike Manufacturing Company, assignor.)

Oneida Community, Limited, Oneida, N. Y., by change of name to Oneida Ltd. Silver-plated flatware, tableware and cutlery. 171,329; renewed Aug. 7, 1943.

Parade Publication, Inc., New York, N. Y. Magazine. 400,739; Mar. 30; Serial No. 454,669; published Jan. 19, 1943. Class 38.

Parents' Magazine Press, Inc., The, assignor to The Parents' Institute, Inc., New York, N. Y. Publication. 400,721; Mar. 30; Serial No. 446,029; published Jan. 12, 1943. Class 38.

Peck, Stow & Wilcox Company, The, Southington, Conn. Pliers. 168,150; renewed May 15, 1943.

Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Cotton, wool, and rayon piece goods. 400,784; Mar. 30. Class 42.

Pennsylvania Wire Glass Company, by merger to Pennsylvania Wire Glass Company, Philadelphia, Pa. Sheet glass. 167,043; renewed Apr. 24, 1943.

Pharis Tire and Rubber Company, The, Newark, Ohio. Pneumatic tires and tubes. 400,774; Mar. 30; Serial No. 457,141; published Jan. 19, 1943. Class 35.

Philco Corporation, Philadelphia, Pa. Clocks, radio station selecting clocks, and automatic starting timers. 400,738; Mar. 30; Serial No. 454,376; published Jan. 19, 1943. Class 27.

Pike Manufacturing Company, The, Pike Station, Haverhill, assignor to Norton Pike Company, Littleton, N. H. Oil stones and whetstones. 23,448; re-renewed Aug. 1, 1943.

Plastic Products Company, Detroit, Mich. Joint sealing material. 400,720; Mar. 30; Serial No. 444,912; published Jan. 27, 1942; Class 12.

Price, Edmund D. (See Dziuk, Edmund D.)

Prince Matchabelli, Inc., New York, N. Y. Soap. 400,761; Mar. 30; Serial No. 456,688; published Jan. 19, 1943. Class 4.

Progress Paint Mfg. Co., Louisville, Ky. Wagon paint, fibre roof paint, varnish, etc. 170,293; renewed July 10, 1943.

Quisenberry Feed Mfg. Co., assignor, by mesne assignments, to May-Way Mills, Inc., Kansas City, Mo. Poultry feed. 167,190–1; renewed Apr. 24, 1943.

Ralston Purina Company, St. Louis, Mo. Baby chicks. 400,769; Mar. 30; Serial No. 456,900; published Jan. 19, 1943. Class 46.

Relinner Devices Company, Inc., New York, N. Y. Electric light sockets, fluorescent light sockets, swivel attachment for light sockets, etc. 400,744–5; Mar. 30; Serial Nos. 455,954–5; published Jan. 19, 1943. Class 21.

Rex Paper Company, Kalamazoo, Mich. Coated paper. 400,794; Mar. 30. Class 37.

Riverbank Wine Co., Boston, Mass. Wines. 400,786; Mar. 30. Class 47.

Robinson, Frank B., Moscow, Idaho. Newspaper column. 400,753; Mar. 30; Serial No. 456,471; published Jan. 19, 1943. Class 38.

Robntine Products Corp., New York, N. Y. Knife-coated fabrics, as for instance, rubber coated and pyroxlin coated fabrics. 400,752; Mar. 30; Serial No. 456,433; published Jan. 19, 1943. Class 50.

Rorer, William H., Inc., Philadelphia, Pa. Food or tonic for plants. 400,717; Mar. 30; Serial No. 438,156; published Jan. 21, 1941. Class 10.

Royal Self-Heating Iron Co. (See Monitor Sad Iron Company, The.)

Ruberoid Co., The. (See Safepack Mills, assignor.)

Rugg, E. T., & Co., assignor to The E. T. Rugg Company, Newark, Ohio. Cordage. 171,447; renewed Aug. 7, 1943.

Russell Playing Card Co., Milltown, N. J., assignor to The United States Playing Card Company, East Norwood, Cincinnati, Ohio. Playing cards. 171,225; renewed July 31, 1943.

Safepack Mills, Boston, Mass., assignor, by mesne assignments, to the Ruberoid Co., Bound Brook, N. J. Wrapping, packing, and lining material in sheet form. 170,598; renewed July 17, 1943.

St. Louis Surfacer and Paint Company, St. Louis, Mo. Dry, paste, and ready-mixed paints and varnishes. 170,514; renewed July 17, 1943.

Sales Affiliates, Inc. (See Marinello Company.)

Schmidt Packing Co., Mission, Tex. Fresh citrus fruits. 400,811; Mar. 30. Class 46.

Schrafft's. (See Shattuck, Frank G.)

Sears, Roebuck and Co., Chicago, Ill. Grass seed. 400,750; Mar. 30; Serial No. 456,371; published Jan. 19, 1943. Class 1.

Semet-Solvay Company, Solvay, to Semet-Solvay Company, New York, N. Y. Chemicals. 170,279; renewed July 10, 1943.

Sharp & Dohme, Baltimore, Md., assignor to Sharp & Dohme, Incorporated, Philadelphia, Pa. Benzyl benzoate in liquid and capsule form. 165,710; renewed Mar. 30, 1943.

Shattuck, Frank G., Company, doing business as Schrafft's, to Frank G. Shattuck Company, New York, N. Y. Candy. 171,335; renewed Aug. 7, 1943.

Sherman, Bows. (See Sherman, Sol.)

Sherman, Sol, doing business as Sherman Bows, New York, N. Y. Money bags. 400,812; Mar. 30. Class 3.

Smokadore Co., The, San Francisco, Calif., assignor to Smokadore Manufacturing Co., Inc., Bloomfield, N. J. Ash receivers. 165,697; renewed Mar. 20, 1943.

Stanco Incorporated. (See Standard Oil Company (Incorporated in New Jersey), assignor.)

Standard Oil Company, (Incorporated in New Jersey), Bayonne, N. J., assignor to Stanco Incorporated, New York, N. Y. Mineral oil. 164,507; renewed Feb. 20, 1943.

Star Expansion Bolt Company, assignor, by mesne assignments, to Star Expansion Bolt Company, New York, N. Y. Expansion shields. 169,358; renewed June 12, 1943.

Stein, A., & Company, Chicago, Ill. Arm bands. 169,381; renewed June 12, 1943.

Stein, A., & Company, Chicago, Ill. Suspenders. 169,385; renewed June 12, 1943.

Stewart, Bonnie Earl, doing business as Stewart's Orange & Nut Shop, Memphis, Tenn. Pralines. 400,770; Mar. 30; Serial No. 456,931; published Jan. 19, 1943. Class 46.

Strauss, Archer, Rubber Company, Framingham, Mass., by change of name to Hodgman Rubber Company. Waterproof fabrics. 169,247; renewed June 12, 1943.

Time, Incorporated, New York, N. Y. Magazine. 400,730; Mar. 30; Serial No. 452,897; published Jan. 19, 1943. Class 38.

Torino Vermouth, Inc., New York, N. Y. Vermouth. 400,776; Mar. 30. Class 47.

U. S. Neckwear Corporation, New York, N. Y. Necktles and scarfs. 400,798; Mar. 30. Class 39.

United States Playing Card Company, The. (See Russell Playing Card Co.)

United States Rubber Company, New York, N. Y. Reclaimed rubber compositions. 400,762; Mar. 30; Serial No. 456,702; published Jan. 19, 1943. Class 1.

United States Rubber Company, New York, N. Y. Latex compositions. 400,763; Mar. 30; Serial No. 456,703; published Jan. 19, 1943. Class 1.

Vermouth Industries of America Inc., New York, N. Y. Vermouth wines. 400,751; Mar. 30; Serial No. 456,374; published Jan. 19, 1943. Class 47.

Vit-O-Scope Company, Inc., New York, N. Y. Meters for measuring vitamin and mineral deficiencies of individuals. 400,756–7; Mar. 30; Serial Nos. 456,517–18; published Jan. 19, 1943. Class 26.

Vogue Hats—Garfunkel Makers, New York, N. Y. Ladies' and misses' hats. 400,809; Mar. 30. Class 39.

Walnut Growers Spray Manufacturing Company, Vernon, Calif., to McKesson & Robbins, Incorporated, New York, N. Y., successor. Charcoal to be used in connection with stock and poultry feed. 167,690; renewed May 8, 1943.

Warren Foundry and Machine Company, assignor to Warren Foundry & Pipe Corp., Phillipsburg, N. J. Cast-iron gas and water pipes and fittings. 171,301; renewed Aug. 7, 1943.

Washauer & Franck, Inc., Boston, Mass. Women's and misses' dresses. 400,788; Mar. 30. Class 39.

Waterbury Clock Company. (See Ingersoll, Robt. H., & Bro., assignor.)

Weber Foundations, Inc., New York, N. Y. Combination sanitary belts and pantie briefs. 400,731–2; Mar. 30; Serial Nos. 453,287–8; published Jan. 19, 1943. Class 44.

Western Oregon Packing Corporation, Corvallis, Oreg. Canned fruits, berries, and vegetables. 400,727; Mar. 30; Serial No. 450,464; published Jan. 19, 1943. Class 46.

Western Wholesale Drug Co., Los Angeles, Calif., to McKesson & Robbins, Incorporated, New York, N. Y., successor. Salve and face cream. 167,669. Renewed May 8, 1943.

Whitman Saddle & Leather Goods Mfg. Co., Cincinnati, Ohio. Riding saddles, riding bridles, fancy cavesens, etc. 400,768; Mar. 30; Serial No. 456,880; published Jan. 19, 1943. Class 3.

Wilson & Co., Inc., Chicago, Ill. Vegetable shortening. 400,722; Mar. 30; Serial No. 447,086; published Apr. 28, 1942. Class 46.

Zuritsky, Charles, doing business as A. Zuritsky & Sons, Philadelphia, Pa. Fresh tomatoes. 400,723; Mar. 30; Serial No. 448,274; published Jan. 19, 1943. Class 46.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Charcoal to be used in connection with stock and poultry feed. Walnut Growers Spray Manufacturing Company. 167,690; renewed May 8, 1943.

Fibers, Staple. Celanese Corporation of America. 400,749; Mar. 30; Serial No. 456,233; published Jan. 19, 1943.

Latex compositions. United States Rubber Company. 400,763; Mar. 30; Serial No. 456,703; published Jan. 19, 1943.

Leather. Kistler Leather Company. 169,045; renewed June 5, 1943.

Rubber compositions, Reclaimed. United States Rubber Company. 400,762; Mar. 30; Serial No. 456,702; published Jan. 19, 1943.

Seed, Grass. Sears, Roebuck and Co. 400,750; Mar. 30; Serial No. 456,371; published Jan. 19, 1943.

Sponges. Gulf & West Indies Co. 400,724; Mar. 30; Serial No. 448,413; published Jan. 19, 1943.

CLASS 2

Boxes and cartons. Hinde & Dauch Paper Company. 400,718; Mar. 30; Serial No. 441,538; published Jan. 19, 1043.

Cartons, caddies, and pasteboard packages. Morris Paper Mills. 165,830; renewed Mar. 20, 1943.

Receptacles, Coin. D. D. Kilcup. 400,726; Mar. 30; Serial No. 449,324; published Jan. 19, 1943.

CLASS 3

Bags, Money. S. Sherman. 400,812; Mar. 30.

Saddles, riding bridles, fancy cavesons, etc., Riding. Whitman Saddle & Leather Goods Mfg. Co. 400,768; Mar. 30; Serial No. 456,880; published Jan. 19, 1943.

CLASS 4

Cleaning preparation. Fidelity Chemical Products Corp. 400,789; Mar. 30.

Polishing and buffing compound. E. Reed Burns Manufacturing Corporation. 400,810; Mar. 30.

Soap. Prince Matchabelli, Inc. 400,761; Mar. 30; Serial No. 456,688; published Jan. 19, 1943.

Stones and whetstones, Oil. Pike Manufacturing Company. 23,448; re-renewed Aug. 1, 1943.

CLASS 5

Cement, Adhesive. Morenci Allied Products. 400,725; Mar. 30; Serial No. 448,573; published Jan. 19, 1943.

Paste powder. National Gum & Mica Co. 164,850; renewed Feb. 27, 1943.

CLASS 6

Benzyl benzoate in liquid and capsule form. Sharp & Dohme. 165,710; renewed Mar. 20, 1943.

Chemicals. Semet-Solvay Company. 170,279; renewed July 10, 1943.

Chemicals in combination for electroplating solutions. A. P. Munning & Co. 165,719–20; renewed Mar. 20, 1943.

Medicinal preparation. Lafayette Pharmacal Company. 169,613; renewed June 26, 1943.

Medicinal preparation for the treatment of colds, etc. F. O. Monville 164,442; renewed Feb. 20, 1943.

Mineral oil. Standard Oil Company (Incorporated in New Jersey). 164,507; renewed Feb. 20, 1943.

Powder for the skin, toilet water, and perfume. Marinello Company. 164,164; renewed Feb. 13, 1943.

Salve, and face cream. Western Wholesale Drug Co. 167,669; renewed May 8, 1943.

CLASS 7

Cordage. E. T. Rugg & Co. 171,447; renewed Aug. 7, 1943.

CLASS 8

Ash receivers. Smokadore Co. 165,697; renewed Mar. 20, 1943.

Pipes and pipe parts, and cigar and cigarette holders. General Bakelite Company. 170,772; renewed July 24, 1943.

CLASS 10

Fertilizers and lime for fertilizers. Lancaster Bone Fertilizer Co. Inc. 171,548; renewed Aug. 7, 1943.

Food or tonic for plants. William H. Rorer, Inc. 400,717; Mar. 30; Serial No. 438,156; published Jan. 21, 1941.

Foods, Lawn, plant, and shrub. V. C. Dewein. 400,760; Mar. 30; Serial No. 456,683; published Jan. 5, 1943.

CLASS 12

Lime. National Mortar and Supply Company. 169,341; renewed June 12, 1943.

Packing and sealing compound. J. A. Becker. 400,796; Mar. 30.

Sealing material, Joint. Plastic Products Company. 400,720; Mar. 30; Serial No. 444,912; published Jan. 27, 1942.

CLASS 13

Pipes and fittings, Cast-iron gas and water. Warren Foundry and Machine Company. 171,301; renewed Aug. 7, 1943.

Shields, Expansion. Star Expansion Bolt Company. 169,358; renewed June 12, 1943.

CLASS 14

Alloys, and cementing material, Metallic welding, brazing, and soldering. Eutectic Welding Alloys, Inc. 400,805; Mar. 30.

CLASS 15

Keystone Lubricating Company. 171,284–8; renewed Aug. 7, 1943.

Lubricants. Keystone Lubricating Company. 171,290; renewed Aug. 7, 1943.

Lubricants. Keystone Lubricating Company. 171,541–5; renewed Aug. 7, 1943.

Oils, having rust, corrosion and gum dissolving properties, cleaning properties, and also used as lubricants and penetrants. R. E. Houser. 400,743; Mar. 30; Serial No. 455,593; published Jan. 5, 1943.

Oils, Lubricating. International Chemical Company. 400,735; Mar. 30; Serial No. 453,721; published Aug. 11, 1942.

CLASS 16

Paint, fibre roof paint, varnish, etc., Wagon. Progress Paint Mfg. Co. 170,293; renewed July 10, 1943.

Paints. Capitol Paint & Varnish Works, Inc. 400,742; Mar. 30; Serial No. 454,823; published Jan. 19, 1943.

Paints and painters' materials. California Paint Company. 169,659; renewed June 26, 1943.

Paints and varnishes, Dry, paste, and ready-mixed. St. Louis Surfacer and Paint Company. 170,514; renewed July 17, 1943.

CLASS 17

Cigars. La Dez Cigar Co. 167,178; renewed Apr. 24, 1943.

CLASS 21

Ceramic insulating parts. Lenox Incorporated. 400,746–7; Mar. 30; Serial Nos. 455,981–2; published Jan. 19, 1943.

Sockets, fluorescent light sockets, swivel attachment for light sockets, etc., Electric light. Reliance Devices Company. 400,744–5; Mar. 30; Serial Nos. 455,954–5; published Jan. 19, 1943.

Sweepers, Electric suction. Hoover Suction Sweeper Company. 169,520; renewed June 19, 1943.

CLASS 22

Game, Board. Milton Bradley Company. 400,772–3; Mar. 30; Serial Nos. 457,112–13; published Jan. 19, 1943.

Game, Board. Milton Bradley Company. 400,775; Mar. 30; Serial No. 457,114; published Jan. 19, 1943.

Playing cards. Russell Playing Card Co. 171,225; renewed July 31, 1943.

Sporting goods. J. A. Dubow Glove Co. 163,563; renewed Jan. 23, 1943.

CLASS 23

Apparatus for installing and removing electric light bulbs, lamp sockets, lamp bases, etc. G. C. A. Manufacturing Co. 170,243; renewed July 10, 1943.

Axes, scythes, hatches, etc. American Axe and Tool Company. 164,880; renewed Feb. 27, 1943.

Clippers, Hair. Andis O. M. Manufacturing Co. 166,116; renewed Mar. 27, 1943.

Pliers. Peck, Stow & Wilcox Company. 168,150; renewed May 15, 1943.

Reamers. Moback Tool & Machine Manufacturing Corporation. 166,033; renewed Mar. 27, 1943.

CLASS 24

Iron, Sad. Monitor Sad Iron Company. 165,332; renewed Mar. 6, 1943.

CLASS 26

Gauges. General Power Plant Corporation. 400,741; Mar. 31; Serial No. 454,756; published Jan. 19, 1943.

Instruments or gauges for measuring various conditions. Hays Corporation. 400,781; Mar. 30.

Meters for measuring vitamin and mineral deficiencies of individuals. Vit-O-Scope Company. 400,756–7; Mar. 30; Serial Nos. 456,517–18; published Jan. 19, 1943.

Photographic film and photographic paper. Eastman Kodak Company. 400,803; Mar. 30.

Screens, Motion picture. Da-Lite Screen Company. 400,736; Mar. 30; Serial No. 453,732; published Jan. 19, 1943.

CLASS 27

Clocks, radio station selecting clocks, and automatic starting timers. Philco Corporation. 400,738; Mar. 30; Serial No. 454,376; published Jan. 19, 1943.

Watches and clocks. Robt. H. Ingersoll & Bro. 167,686; renewed May 8, 1943.

Watches, clocks, and parts thereof. Harman Watch Co. 400,765; Mar. 30; Serial No. 456,732; published Jan. 19, 1943.

CLASS 28

Flatware, tableware and cutlery, Silver-plated. Oneida Community, Limited. 171,329; renewed Aug. 7, 1943.

Jewelry. Granat Bros., Inc. 400,754–5; Mar. 30; Serial Nos. 456,489–90; published Jan. 19, 1943.
Jewelry. Harman Watch Co. 400,766; Mar. 30; Serial No. 456,733; published Jan. 19, 1943.

CLASS 29

Brushes, wall brushes, sash brushes, etc., Varnish. Elephant Brush Company. 400,733–4; Mar. 30; Serial Nos. 453,325–6; published Jan. 5, 1943.

CLASS 30

Chinaware. Mayer China Company. 171,115; renewed July 31, 1943.

CLASS 33

Glass, Sheet. Pennsylvania Wire Glass Company. 167,043; renewed Apr. 24, 1943.

CLASS 34

Air conditioning equipment for bakeries. L. D. Houlis. 400,801; Mar. 30.

CLASS 35

Tires. Goodyear Tire & Rubber Company. 400,771; Mar. 30; Serial No. 457,036; published Jan. 19, 1943.
Tires and tubes, Pneumatic. Pharis Tire and Rubber Company. 400,774; Mar. 30; Serial No. 457,141; published Jan. 19, 1943.
Tires, Resilient vehicle. Kelly-Springfield Tire Company. 169,306; renewed June 12, 1943.

CLASS 37

Paper, Coated. Rex Paper Company. 400,794; Mar. 30.
Paper, Writing. Fox River Paper Company. 166,943; renewed Apr. 17, 1943.
Paper, Writing. Fox River Paper Company. 167,152; renewed Apr. 24, 1943.
Pens, mechanical pencils, combination fountain pens and mechanical pencils, etc., Fountain. David Kahn, Inc. 400,759; Mar. 30; Serial No. 456,561; published Jan. 19, 1943.
Wrapping, packing, and lining material in sheet form. Safepack Mills. 170,598, renewed July 17, 1943.

CLASS 38

Cartoons published in a series. Detective Comics, Inc. 400,764; Mar. 30; Serial No. 456,728; published Jan. 12, 1943.
Magazine. Parade Publication, Inc. 400,739; Mar. 30; Serial No. 454,669; published Jan. 19, 1943.
Magazine. Time, Incorporated. 400,730; Mar. 30; Serial No. 452,897; published Jan. 19, 1943.
Newspaper column. F. B. Robinson. 400,753; Mar. 30; Serial No. 456,471; published Jan. 19, 1943.
Periodical. Flying Stories, Inc. 400,758; Mar. 30; Serial No. 456,529; published Jan. 19, 1943.
Publication. Addressograph-Multigraph Corporation. 400,748; Mar. 30; Serial No. 456,229; published Jan. 12, 1943.
Publication. Detective Comics, Inc. 400,767; Mar. 30; Serial No. 456,847; published Jan. 19, 1943.
Publication. Parents' Magazine Press, Inc. 400,721; Mar. 30; Serial No. 446,029; published Jan. 12, 1943.
Publication, Periodical. News Map of the Week, Inc. 400,778; Mar. 30.

CLASS 39

Bands, Arm. A. Stein & Company. 169,381; renewed June 12, 1943.
Brassières. Eddy Form, Inc. 400,791; Mar. 30.
Dresses, Women's and misses'. Warshauer & Franck, Inc. 400,788; Mar. 30.
Hair nets. N. B. Cohen Company. 400,779; Mar. 30.
Hair nets. New York Merchandise Co. 400,807; Mar. 30.
Handkerchiefs. London Handkerchief Co. 400,799; Mar. 30.
Handkerchiefs, Ladies'. J. H. Kimball, Inc. 400,802; Mar. 30.
Hats, Ladies' and misses' hats. Vogue Hats—Garfunkel Makers. 400,809; Mar. 30.
Hosiery; knit and cut underwear; knitted sweaters, and men's work shirts. Klein, Gordon & Company. 166,698; renewed Apr. 10, 1943.
Neckties and scarfs. U. S. Neckwear Corporation. 400,798; Mar. 30.
Negligees, housecoats, robes, etc., Women's and misses'. Helen Lobel & Co. 400,793; Mar. 30.
Shirts, men's and women's pajamas, shorts, and underwear; and women's wearing apparel, Men's dress and negligee. McMullen-Leavens Company. 400,808; Mar. 30.
Shoes. Midland Shoe Corporation. 400,800; Mar. 30.
Stockings, Women's. Liberty Hosiery Mills, Inc. 400,797; Mar. 30.
Suits, bathing suits, play suits, etc., Snow. Mayfair Togs, Inc. 400,792; Mar. 30.
Suits, Men's. Chicago Mail Order Company. 400,785; Mar. 30.
Suits, topcoats, overcoats, sport coats, etc., Men's and boys'. Browning King & Co., of New York, Inc. 400,804; Mar. 30.
Suspenders. A. Stein & Company. 169,385; renewed June 12, 1943.

CLASS 40

Needles for hand use, Sewing. E. Dzink. 400,790; Mar. 30.

CLASS 42

Cloth in the piece. William Hollins & Company. 168,674; renewed May 29, 1943.
Curtains, Lace. Marshall Field & Company. 400,783; Mar. 30.
Curtains, Window. Home Curtain Corp. 400,795; Mar. 30.
Piece goods, Cotton, wool, and rayon. J. C. Penney Company. 400,784; Mar. 30.
Ribbons, Textile. General Ribbon Mills, Inc. 400,777; Mar. 30.

CLASS 43

Yarns, Wool. D. J. Healy. 171,479; renewed Aug. 7, 1943.

CLASS 44

Pharyngeal airways—namely, tubular throat tubes. Foregger Company. 400,806; Mar 30.
Sanitary belts and pantie briefs, Combination. Weber Foundations, Inc. 400,731–2; Mar. 30; Serial Nos. 453,287–8; published Jan. 19, 1943.

CLASS 46

Bacon. Beech-Nut Packing Company. 170,929; renewed July 24, 1943.
Candies, Laura Secord Confections, Ltd. 163,475; renewed Jan. 16, 1943.
Candy. Frank G. Shattuck Company. 171,335; renewed Aug. 7, 1943.
Canned corn. Illinois Canning Co. 23,463–4; re-renewed Aug. 8, 1943.
Canned fruits and vegetables, dried fruits, condensed milk, etc. North American Mercantile Co. Inc. 171,536; renewed Aug. 7, 1943.
Canned fruits, berries, and vegetables. Western Oregon Packing Corporation. 400,727; Mar. 30; Serial No. 450,464; published Jan. 19, 1943.
Canned meat products. Baker Food Products Company. 400,740; Mar. 30; Serial No. 454,727; published Jan. 19, 1943.
Canned salmon. A. A. Anderson. 171,412; renewed Aug. 7, 1943.
Canned vegetables. Illinois Canning Co. 23,465; re-renewed Aug. 8, 1943.
Cheese. Beatrice Creamery Company. 171,338; renewed Aug. 7, 1943.
Chicks, Baby. Ralston Purina Company. 400,769; Mar. 30; Serial No. 456,900; published Jan. 19, 1943.
Coffee, tea, mustard, etc. Continental Coffee Company. 400,719; Mar. 30; Serial No. 444,756; published Jan. 19, 1943.
Feed for horses, cattle, hogs, etc. Mountain City Mill Company. 171,031; renewed July 31, 1943.
Feed, Poultry. Quisenberry Feed Mfg. Co. 167,190–1; renewed Apr. 24, 1943.
Flour, Wheat. Colorado Milling & Elevator Co. 167,267; renewed Apr. 24, 1943.
Flour, Wheat. Colorado Milling & Elevator Co. 170,844; renewed July 24, 1943.
Flour, Wheat. Holland O'Neal Milling Co. 167,140; renewed Apr. 24, 1943.
Food and ingredients of foods. Charles W. Bauermeister Co. 171,313; renewed Aug. 7, 1943.
Fruits, Dried. California Prune and Apricot Growers, Inc. 168,564; renewed May 29, 1943.
Fruits, Fresh citrus. Schmidt Packing Co. 400,811; Mar. 30.
Mayonnaise, thousand island dressing, roquefort cheese dressing, etc. Hearthstone House. 400,729; Mar. 30; Serial No. 452,746; published Jan. 19, 1943.
Powdered product for flavoring food. Griffith Laboratories, Inc. 400,782; Mar. 30.
Pralines. B. E. Stewart. 400,770; Mar. 30; Serial No. 456,931; published Jan. 19, 1943.
Shortening, Vegetable. Wilson & Co. 400,722; Mar. 30; Serial No. 447,086; published Apr. 28, 1942.
Tomatoes, Fresh. C. Zuritsky. 400,723; Mar. 30; Serial No. 448,274; published Jan. 19, 1943.

CLASS 47

Vermouth. Torino Vermouth, Inc. 400,776; Mar. 30.
Wine. Monarch Wine Co. of Georgia. 400,780; Mar. 30.
Wines. Napa & Sonoma Wine Co. 400,737; Mar. 30; Serial No. 453,780; published Dec. 29, 1942.
Wines. Riverbank Wine Co. 400,786; Mar. 30.
Wines, Vermouth. Vermouth Industries of America Inc. 400,751; Mar. 30; Serial No. 456,374; published Jan. 19, 1943.

CLASS 49

Rum. A. P. Juliá. 400,787; Mar. 30.
Whiskies, gins, and alcoholic cordials. Kraus Bros. & Co. 400,813; Mar. 30.

CLASS 50

Fabric sheeting in the piece to render it waterproof, Very thin treated. I. B. Kleinert Rubber Company. 400,728; Mar. 30; Serial No. 452,503; published Jan. 19, 1943.
Fabrics, as for instance, rubber coated and pyroxylin coated fabrics, Knife-coated. Robntine Products Corp. 400,752; Mar. 30; Serial No. 456,433; published Jan. 19, 1943.
Fabrics, Waterproof. Archer Strauss Rubber Company. 169,247; renewed June 12, 1943.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 30TH DAY OF MARCH, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Greer, Agnes J. R. (See Shoemaker, Robert W., assignor.)
Katzen, Raphael. (See Olson, E. T., Katzen, and Plow.)
Northwood Chemical Company. (See Olson, E. T., Katzen, and Plow, assignors.)
Olson, Edgar T., Pittsburgh, Pa., R. Katzen, Brooklyn, N. Y., and R. H. Plow, Iron Mountain, Mich., assignors to Northwood Chemical Company, Phelps, Wis. Making lignin. Re. 22,295; Mar. 30.
Plow, Richard H. (See Olson, E. T., Katzen, and Plow.)
Shoemaker, Robert W., Anderson, Ind., assignor to A. J. R. Greer, Morgantown, W. Va. Treatment of metals. Re. 22,296; Mar. 30.

LIST OF DESIGN PATENTEES

American Greeting Publishers. (See Grossberg, Minnie, assignor.)
Arens, Egmont, New York, N. Y. Refrigerator. 135,332; Mar. 30.
Associated Electric Laboratories, Inc. (See Giannini, G. M., assignor.)
Bausch & Lomb Optical Company. (See Sterling, Scott, assignor.)
Bell Telephone Laboratories, Incorporated. (See Brown, Wolfe W., assignor.)
Behrman, Mayes, Atlanta, Ga., assignor to Starr Engraving Company, Houston, Tex. Badge or similar article. 135,367; Mar. 30.
Bihari, Henry J., Bronx, N. Y. Finger ring. 135,352; Mar. 30.
Biller, David J., assignor to Day-Brite Lighting, Inc., St. Louis, Mo. Housing for a fluorescent lighting fixture. 135,375; Mar. 30.
Botham, Arthur R., New York, N. Y., assignor to Coty, Inc., Wilmington, Del. Combined traveling case and cosmetic holder. 135,358; Mar. 30.
Botham, Arthur R., New York, N. Y., assignor to Coty, Inc., Wilmington, Del. Traveling case. 135,357; Mar. 30.
Boyar, Benjamin, Woodmere, N. Y. Carrying case or similar article. 135,359; Mar. 30.
Breuner, Wallace E., Oakland, Calif. Adapter for a ski pack sled. 135,360; Mar. 30.
Britz, Maurice, Chicago, Ill. Ash tray. 135,376; Mar. 30.
Brown, Wolfe W., Short Hills, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone operator's chair. 135,333; Mar. 30.
Brown, Wolfe W., Short Hills, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone operator's chair. 135,334; Mar. 30.
Cameron, William H. M., Toronto, Ontario, Canada. Game device. 135,377; Mar. 30.
Cannon, Nahum A., Birmingham, Ala. Paperweight. 135,388; Mar. 30.
Cashin, Bonnie, New York, N. Y. Dress. 135,396; Mar. 30.
Cashin, Bonnie, New York, N. Y. Dress. 135,397; Mar. 30.
Cashin, Bonnie, New York, N. Y. Dress. 135,398; Mar. 30.
Cashin, Bonnie, New York, N. Y. Dress. 135,399; Mar. 30.
Chadkin, Bernard, New York, N. Y. Pocket stereoscope. 135,378; Mar. 30.
Chay, Tee Ka, Brooklyn, N. Y. Game board or similar article. 135,337; Mar. 30.
Clark, William A., St. Louis, Mo. Mitten. 135,368; Mar. 30.
Cleaver-Brooks Company. (See Cleaver, J. C., and Resek, assignors.)
Cleaver, John C., and J. V. Resek, Whitefish Bay, assignors to Cleaver-Brooks Company, Milwaukee, Wis. Combination boiler and sterilizer or the like. 135,379; Mar. 30.
Coty, Inc. (See Botham, Arthur R., assignor.)
Day-Brite Lighting, Inc. (See Biller, David J., assignor.)
De Vilbiss Company. (See Villemenot, Frederic A., assignor.)
Electric Arc, Inc. (See Holslag, Claude J., assignor.)
Felsenthal, Ben, New York, N. Y. Emblem pin. 135,380; Mar. 30.
Fitchhorn, Elver J., Delaware, Ohio. Reed for musical instruments. 135,338; Mar. 30.
Flaster, Alfred A., New York, N. Y. Compact or similar article. 135,335; Mar. 30.
Foster Brothers Mfg. Co. (See Latimer, George W., assignor.)
Funk, Truman B., assignor to Yard-Man, Inc., Jackson, Mich. Industrial truck. 135,400; Mar. 30.
Giannini, Gabriel M., North Hollywood, Calif., assignor, by mesne assignments, to Associated Electric Laboratories, Inc., Chicago, Ill. Loud-speaking telephone. 135,389; Mar. 30.
Giannini, Gabriel M., North Hollywood, Calif., assignor, by mesne assignments, to Associated Electric Laboratories, Inc., Chicago, Ill. Loud-speaking telephone. 135,401; Mar. 30.
Gile, Harold C., Kittery, Maine. Beam compass. 135,353; Mar. 30.
Gillette Safety Razor Company. (See Hollis, Morton, assignor.)
Goodwin, Greta, New Salem, Ohio, assignor to Standard Safety Equipment Co. Woman's cap. 135,369; Mar. 30.
Grossberg, Minnie, assignor to American Greeting Publishers, Cleveland, Ohio. Greeting card display cabinet. 135,336; Mar. 30.
Haas, Carl F. (See Winkler, F. C., and Haas.)
Hammond Machinery Builders, Inc. (See Krueger, E. C., assignor.)
Hansen, Bertha J., Rutherford, N. J. Brooch or similar article. 135,370; Mar. 30.
Hanson, Harry E., St. Paul, Minn. Slipper. 135,339; Mar. 30.
Harpignies, Zinaida, Kew Gardens, N. Y. Safety cap. 135,354; Mar. 30.
Hendrix, Rex, Ruth, Nev. Jewelry finding or similar article. 135,371; Mar. 30.
Henney Motor Company. (See Schofield, Earl L., assignor.)
Hill-Rom Company. (See Hillenbrand, William A., assignor.)
Hillenbrand, William A., Franklin County, assignor to Hill-Rom Company, Inc., Batesville, Ind. Over-bed table. 135,340; Mar. 30.
Hillenbrand, William A., Franklin County, assignor to Hill-Rom Company, Inc., Batesville, Ind. Over-bed table. 135,341; Mar. 30.
Hollis, Morton, Brookline, assignor to Gillette Safety Razor Company, Boston, Mass. Case for safety razors and shaving accessories. 135,381; Mar. 30.
Holslag, Claude J., South Orange, assignor to Electric Arc, Inc., Newark, N. J. Welding electrode extruder covering machine. 135,342; Mar. 30.
Hopkins, George, Rochester, N. Y. Ski glider. 135,343; Mar. 30.
Ideal Novelty & Toy Co. (See Michtom, Benjamin F., assignor.)
Krueger, Edward C., Otsego, assignor to Hammond Machinery Builders, Inc., Kalamazoo, Mich. Backstand for belt polishing machines. 135,344; Mar. 30.
Lains, Viola, Seattle, Wash. Transparent sewing machine presser foot. 135,390; Mar. 30.
Lamb, Thomas, New York, N. Y. Figure toy or the like. 135,382; Mar. 30.
Latimer, George W., Baltimore, Md., assignor to Foster Brothers Mfg. Co., Inc. Corner member for a sleeping berth or the like. 135,346; Mar. 30.
Le Blond, Richard K., Cincinnati, Ohio. Feed box for lathes. 135,345; Mar. 30.
Leibowitz, Isidor, New York, N. Y. Dress. 135,372; Mar. 30.
Leibowitz, Isidor, New York, N. Y. Dress. 135,373; Mar. 30.
Lent, Constantin P., Forest Hills, N. Y. Brooch or similar article. 135,391; Mar. 30.
Michtom, Benjamin F., New Rochelle, assignor to Ideal Novelty & Toy Co., Long Island City, N. Y. Stuffed toy animal unit. 135,355; Mar. 30.

Michtom, Benjamin F., New Rochelle, assignor to Ideal Novelty & Toy Co., Long Island City, N. Y. Stuffed toy animal unit. 135,356; Mar. 30.
Montano, Jesus R., Earlimart, Calif. Hand grenade. 135,361; Mar. 30.
Myers, Raymond J., Detroit, Mich. Interior partition structure. 135,362; Mar. 30.
Ochs, Alfred, New York, N. Y. Shrine. 135,363; Mar. 30.
O'Connell, Peter T., New York, N. Y. Flag or the like. 135,364; Mar. 30.
Pierson, Harold L., assignor to E. P. Reed & Co., Rochester, N. Y. Combined sole and heel of a shoe. 135,347; Mar. 30.
Quinn, Ada, Ogden, Utah. Apron. 135,383; Mar. 30.
Quinn, Ada, Ogden, Utah. Apron. 135,384; Mar. 30.
Reed, E. P., & Co. (See Pierson, Harold L., assignor.)
Resek, Jules V. (See Cleaver, J. C., and Resek.)
Sears, Roebuck and Co. (See Schneider, Karl, assignor.)
Schneider, Karl, assignor to Sears, Roebuck and Co., Chicago, Ill. Skillet. 135,348; Mar. 30.
Schofield, Earl L., assignor to Henney Motor Company, Freeport, Ill. Vehicle. 135,392; Mar. 30.
Standard Safety Equipment Co. (See Goodwin, Greta, assignor.)
Starr Engraving Company. (See Behrman, Mayes, assignor.)
Sterling, Scott, Irondequoit, assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Lens computer. 135,349; Mar. 30.
Sullivan, Henry J., Duluth, Minn. Ship hull. 135,402; Mar. 30.
Ulrich, Carl E., Chicago, Ill. Bread slicing board. 135,350; Mar. 30.
Van Horn, Dale, Lincoln, Nebr. Game board. 135,351; Mar. 30.
Vuillemenot, Frederic A., assignor to Te De Vilbiss Company, Toledo, Ohio. Atomizer. 135,365; Mar. 30.
Vuillemenot, Frederic A., assignor to The De Vilbiss Company, Toledo, Ohio. Atomizer. 135,366; Mar. 30.
Weinger, Irving, Brooklyn, and S. Widder, assignors to J. Widder & Co., New York, N. Y. Correspondence portfolio. 135,393; Mar. 30.
Westinghouse Electric & Manufacturing Company. (See Winkler, F. C., and Haas, assignors.)
Weston, Alexander S., New York, N. Y. Casing for a lighter or similar article. 135,385; Mar. 30.
Widder, J., & Co. (See Weinger, I., and Widder, assignors.)
Widder, Samuel. (See Weinger, I., and Widder.)
Wilde, Hans W., North Bergen, N. J. Textile fabric. 135,374; Mar. 30.
Wilde, Hans W., North Bergen, N. J. Textile fabric. 135,394; Mar. 30.
Wilde, Hans W., North Bergen, N. J. Textile fabric. 135,395; Mar. 30.
Winkler, Frederic C., Lakewood, and C. F. Haas, Cleveland, Ohio, assignors to Westinghouse Electric & Manufacturing Company. Luminaire. 135,386; Mar. 30.
Yard-Man, Inc. (See Funk, Truman B., assignor.)
Youther, John D., Aberdeen Proving Grounds, Md. Badge or the like. 135,387; Mar. 30.
Zahn, Samuel, New York, N. Y. Dress. 135,403; Mar. 30.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 30TH DAY OF MARCH, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Acrotorque Company, The. (See Orshansky, E., Jr., and Pond, assignors.)
Adair, James E., Chicago, Ill., assignor to Colorgraphic Incorporated. Cornice for windows. 2,315,033; Mar. 30.
Adams, George R., Los Angeles, Calif. Lavatory lock. 2,315,102; Mar. 30.
Agule, George J. (See Skehan, J. W., and Agule.)
Air Associates Incorporated. (See Thompson, Clifford F., assignor.)
Ajouelo, Davis J., and J. L. Moore, deceased, Atlanta, by S. A. Moore, executrix, Decatur, assignors to The Auto-Soler Company, Atlanta, Ga. Machine for uniting layers of materials. 2,315,382; Mar. 30.
Alava y Sautu, Emilio, Vitoria, Spain. Apparatus for signaling the decrease of pressure of pneumatic tires. 2,314,965; Mar. 30.
Alien Property Custodian. (See Alma, G. H. P., Strutt, and van der Ziel.)
Alien Property Custodian. (See Baagøe, Anthon J.)
Alien Property Custodian. (SSee Bailly, Armand.)
Alien Property Custodian. (See Benmann, Rudolf.)
Alien Property Custodian. (See Büttner, Hugo.)
Alien Property Custodian. (See Covier, Pierre.)
Alien Property Custodian. (See Dornier, Claude.)
Alien Property Custodian. (SSee Eberhardt, Georg.)
Alien Property Custodian. (See Ehrlich, Josef.)
Alien Property Custodian. (See Freytag, Fritz.)
Alien Property Custodian. (See Goldschmidt, V. M., and Stenvik.)
Alien Property Custodian. (See Gönningen, Herman.)
Alien Property Custodian. (See Guyard, Leon J. B.)
Alien Property Custodian. (See Haltmeier, Alfred.)
Alien Property Custodian. (See Hoffmann, R., and Simson.)
Alien Property Custodian. (See Janeček, František, and František, K.)
Alien Property Custodian. (See Lamesch, Armando, assignor.)
Alien Property Custodian. (See Languepin, Jacques E. J., assignor.)
Alien Property Custodian. (See Lohse, Julius.)
Alien Property Custodian. (See Maybach, Karl.)
Alien Property Custodian. (See Michalke, Frieda, née Parnow.)
Alien Property Custodian. (See Möller, W. and von Manteuffel.)
Alien Property Custodian. (See Petitcolas, P., and Sureau.)
Alien Property Custodian. (See Reichle, A., and Mehler.)
Alien Property Custodian. (See Schieferstein, Georg H.)
Alien Property Custodian. (See Schlegel, Karl H. F.)
Alien Property Custodian. (See Schulz, Elise.)
Alien Property Custodian. (See van der Ziel, A., and Knol.)
Alien Property Custodian. (See van Liempt, Johannes A. M.)
Alien Property Custodian. (See Van Weel, Adelbert.)
Alien Property Custodian. (See von Manteuffel, G. Z., and Waack.)
Alien Property Custodian. (See Wald, Martin.)
Alien Property Custodian. (See Wauters, Jean.)
Alien Property Custodian. (See Whitechurch, Philip C. A.)
Alien Property Custodian. (See Zachariä, Erich.)
Alien Property Custodian. (See Zadnik, Otto.)
Allen, Earl M., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,315,034; Mar. 30.
Allender, Samuel S., New York, N. Y., assignor to Universal Oil Products Company, Chicago, Ill. Pumping of liquids. 2,315,179; Mar. 30.
Allied Chemical & Dye Corporation. (See Flett, Lawrence H., assignor.)
Allis-Chalmers Manufacturing Company. (See Scranton, Charles J., assignor.)
Alma, Gerrit H. P., M. J. O. Strutt and A. van der Ziel, Eindhoven, Netherlands; vested in the Alien Property Custodian. Circuit for the amplification and/or frequency-transformation of electrical oscillations of ultra high frequency. 2,314,916; Mar. 30.
Almetal Universal Joint Company, The. (See Misch, Albert F., assignor.)
Aluminum Company of America. (See Dillon, Harold H., assignor.)
Amelung, John. (See Sanderson, W. Amelung, and Walther.)
American Box Board Company. (See Bonfield, Emmons W., assignor.)
American Cyanamid Company. (See Kropa, Edward L., assignor.)
American Dairy Cattle Club, The. (See Hill, L. O., and Short, assignors.)
American Electro Metal Corporation. (See Volterra, Renzo U., assignor.)
American-La France-Foamite Corporation. (See Lindsay, Charles H., assignor.)
American Reenforced Paper Company. (See Newkirk, Francis F., assignor.)
American Rolling Mill Company, The. (See Martin, O. E., Pick and Reed, assignors.)
American Steel Foundries. (See Baselt, Walter H., assignor.)
American Steel Foundries. (See Cottrell, Robert B., assignor.)
American Telephone and Telegraph Company. (See Andrews, Joseph F., assignor.)
American Telephone and Telegraph Company. (See Gammell, Ernest O., assignor.)
American Telephone and Telegraph Company. (See Hanley, Frank H., assignor.)
American Telephone and Telegraph Company. (See Maxwell, J. L., and Shimmin, assignors.)
American Viscose Corporation. (See Davis, I. P., and Kennedy, assignors.)
Anderson, Kador G., Chicago, Ill. Antiglare window pane. 2,315,103; Mar. 30.
Andis Clipper Company. (See Andis, Mathew, assignor.)
Andis, Mathew, assignor to Andis Clipper Company, Racine, Wis. Electric switch. 2,315,035; Mar. 30.
Andrews, Joseph F., New York, N. Y., assignor to American Telephone and Telegraph Company. Method and apparatus for locating transmission faults. 2,315,383; Mar. 30.
Antonelli, Bruno, Fall River, Mass. Sewing machine presser foot. 2,314,861; Mar. 30.
Appel, George C. (See King, C. H., and Appel.)
Aris Gloves, Inc. (See Chanut, Paul A., assignor.)
Arkell Safety Bag Company. (See Greene, Edwin D., assignor.)
Armington, Raymond Q., Shaker Heights, and S. F. Armington, Willoughby, assignors to The Euclid Road Machinery Company, Euclid, Ohio. Plural scoop scraper. 2,315,363; Mar. 30.
Armington, Stewart F. (See Armington, Raymond Q. and S. F.)
Armstrong, Edwin H., New York, N. Y. Method and means for transmitting frequency modulated signals. 2,315,308; Mar. 30.
Armstrong Machine Works. (See Papulski, Alexander J., assignor.)
Aroney, Anthony, Los Angeles, Calif. Cream separator. 2,315,178; Mar. 30.
Arthur, Oscar F., Belle Vernon, Pa., assignor to Tri-State Engineering Co. Field mat. 2,315,180; Mar. 30.
Asaro, Vito. (See Clark, W. A., and Asaro.)
Ashenberg, Stuart G., and L. J. Schwenkmeyer, San Diego, Calif. Display device. 2,315,240; Mar. 30.
Ashlock, George W., Jr., Oakland, Calif. Fruit pitting chuck. 2,314,862; Mar. 30.
Associated Electric Laboratories, Inc. (See Griffins, Morris E., assignor.)
Associated Electric Laboratories, Inc. (See Kessler, Frank, assignor.)
Associated Electric Laboratories, Inc. (See Nestedt, Harry N., assignor.)
Associated Electric Laboratories, Inc. (See Ostline, John E., assignor.)
Astle, William, Chicago, Ill. Plate heat exchanger. 2,314,966; Mar. 30.
Atkinson, Flavius W. (See Slayter, G., Atkinson, Fletchter, and Smith.)
Autocall Company, The. (See Harrington, James R., assignor.)
Auto-Soler Company. (See Ajouelo, D. J., and Moore, assignors.)
Ayers, George W., Jr. (See Bond, D. C., Ayers, Jr., and Henderson.)
Ayers, George W., Jr., Chicago, D. C. Bond, Northbrook, and L. M. Henderson, Winnetka, assignors to The Pure Oil Company, Chicago, Ill. Removing weakly acidic organic substances from hydrocarbon liquids. 2,315,384; Mar. 30.
Baage, Anthon J., Paris, France; vested in the Alien Property Custodian. Weighing machine with digit indication of weighing value. 2,315,181; Mar. 30.
Bailly, Armand, Brussels, Belgium; vested in the Alien Property Custodian. Centrifugal hydro-extractor. 2,315,036; Mar. 30.

Baird, Albert W., Elizabeth, N. J., assignor to The Linde Air Products Company. Electric welding apparatus. 2,314,917; Mar. 30.
Baker, Philip P., Chula Vista, Calif. Threshing machine. 2,315,385; Mar. 30.
Balaban & Katz Corporation. (See Eddy, William C., assignor.)
Baldenhofer, William G., assignor to The Thompson Grinder Company, Springfield, Ohio. Inclinable grinder spindle. 2,315,104; Mar. 30.
Baldwin, Morris J., Erie, Pa., assignor to General Electric Company. Protective power system. 2,315,386; Mar. 30.
Baltimore Paper Box Company, The. (See Fairchild, Walter H., assignor.)
Bambenek, Joseph B., W. F. Hein and P. Worner, assignors to Peerless Chain Company, Winona, Minn. Carrier attachment for vehicles. 2,315,387; Mar. 30.
Bannon, Lewis A., Roselle, N. J., assignor, by mesne assignments, to Jasco, Incorporated. Chlorination of propylene polymers to give resins. 2,315,037; Mar. 30.
Barry-Wehmiller Machinery Company. (See Herold, James L., assignor.)
Bartlett, C. O., & Snow Company, The. (See Smith, Benjamin A., assignor.)
Barton, Rice, Corporation. (See Stafford, Stephen B., assignor.)
Baselt, Walter H., assignor to American Steel Foundries, Chicago, Ill. Brake. 2,315,241; Mar. 30.
Basic Patents Inc. (See Stember, Bernard, assignor.)
Batchell, George W., Toledo, Ohio. Lehr conveyer. 2,315,148; Mar. 30.
Baughman, George W., asignor to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,315,038; Mar. 30.
Baule, Gerhard H. J., Syracuse, assignor to Oswego Falls Corporation, Fulton, N. Y. Bottle capping machine. 2,314,918; Mar. 30.
Bedford, Alda V., Collingswood, N. J., assignor to Radio Corporation of America. Television system. 2,315,388; Mar. 30.
Beede, Harry L., Fort Lee, assignor to The Okonite-Callender Cable Company, Incorporated, Paterson, N. J. Electric cable. 2,315,039; Mar. 30.
Behrend & Rothschild. (See Coller, Claude C., assignor.)
Bell Aircraft Corporation. (See Salisbury, F. M., and Dufort, assignors.)
Bell Aircraft Corporation. (See Schwartz, Arthur A., assignor.)
Bell Telephone Laboratories, Incorporated. (See Bode, Hendrik W., assignor.)
Bell Telephone Laboratories, Incorporated. (See Haynes, James R., assignor.)
Bell Telephone Laboratories, Incorporated. (See Humphrey, Robert G., assignor.)
Bell Telephone Laboratories, Incorporated. (See Knoop, William A., assignor.)
Bell Telephone Laboratories, Incorporated. (See Leibe, Frank A., assignor.)
Bell Telephone Laboratories, Incorporated. (See Logan, Mason A., assignor.)
Bell Telephone Laboratories, Incorporated. (See Mallina, Rudolph F., assignor.)
Bell Telephone Laboratories, Incorporated. (See Mattke, Charles F., assignor.)
Bell Telephone Laboratories, Incorporated. (See McRae, James W., assignor.)
Bell Telephone Laboratories, Incorporated. (See Milarta, Louis E., assignor.)
Bell Telephone Laboratories, Incorporated. (See Norton, Frank R., assignor.)
Bell Telephone Laboratories, Incorporated. (See Nyquist, Harry, assignor.)
Bell Telephone Laboratories, Incorporated. (See Schimpf, Luther G., assignor.)
Bell Telephone Laboratories, Incorporated. (See Willard, Gerald W., assignor.)
Bell Telephone Laboratories, Incorporated. (See Williams, Samuel B., assignor.)
Bemmann, Rudolf, Leuna, Germany; vested in the Alien Property Custodian. Recovering neutral substances containing oxygen from oils containing such substances. 2,315,182; Mar. 30.
Benson, Ronald C., Camden, N. J., and N. H. Mageoch, Manoa, assignors to Philadelphia Gear Works, Inc., Philadelphia, Pa. Valve control. 2,315,389; Mar. 30.
Bergesch, August W., St. Louis, Mo. Fastener for storm windows and the like. 2,314,967; Mar. 30.
Bergstrom, Victor J., assignor to Superior Felt & Bedding Co., Chicago, Ill. Convertible couch structure. 2,314,864; Mar. 30.
Berry, Wallace S. (See Wahlberg, N. E., Berry and Sladky.)
Bestian, Herbert, and G. von Finck, Frankfort-on-the-Main, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y. Impregnating textile materials and the material thus obtained. 2,314,968; Mar. 30.
Bicknell, George M., St. Louis, Mo., and V. C. Worden, Detroit, Mich., assignors to Carter Carburetor Corporation, St. Louis, Mo. Dual carburetor. 2,315,183; Mar. 30.
Bierwirth, Rudolph A., Haddon Heights, N. J., assignor to Radio Corporation of America. Heating device. 2,314,865; Mar. 30.
Billeb, Clyde K., Shorewood, assignor to Milprint, Inc., Milwaukee, Wis. Excreta bag. 2,315,390; Mar. 30.
Bitter, Raymond E., Cambridge, and D. W. MacLeod, Brighton, assignors, by mesne asignments, to General Latex and Chemical Corporation, Cambridge, Mass. Dipping form. 2,315,310; Mar. 30.
Blair, George W., assignor to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind. Cushion 2,315,391; Mar. 30.
Bliss, Elmer J., Boston, Mass. X-ray machine. 2,315,149; Mar. 30.
Bobrov, Samuel H., Chicago, Ill. Exit roll for galvanizing pots. 2,315,150; Mar. 30.
Bode, Hendrik W., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electric wave amplification. 2,315,040; Mar. 30.
Boehringer Corporation. (See Micheel, F., and Haarhoff, assignors.)
Bohr, Jack C., et al. (See King, Emory O., assignor.)
Bokovoy, Samuel A., Audubon, N. J., assignor to Radio Corporation of America. Mounting piezoelectric crystals. 2,315,392; Mar. 30.
Bond, Donald C. (See Ayers, G. W., Jr., Bond, and Henderson.)
Bond, Donald C., Northbrook, G. W. Ayers, Jr., Chicago, and L. M. Henderson, Winnetka, assignors to The Pure Oil Company, Chicago, Ill. Removing weakly acidic substances from water-immiscible liquids. 2,314,919; Mar. 30.
Bonfield, Emmons W., assignor to American Box Board Company, Grand Rapids, Mich. Container. 2,315,105; Mar. 30.
Boosey, Edward W. N., Detroit, Mich. Maintaining the water of swimming pools at a substantially uniform temperature. 2,315,184; Mar. 30.
Booth, Jesse J., Duquesne, Pa. Safety guard for punch presses and the like. 2,315,151; Mar. 30.
Boothroyd, Hubert, Leicester, England, assignor to United Shoe Machinery Corporation, Flemington, N. J. Perforating machine provided with clutch control mechanisms. 2,315,041; Mar. 30.
Border, Lawson E., Wood River, Ill., assignor to Shell Development Company, San Francisco, Calif. Reconditioning used solutizer solutions. 2,315,480; Mar. 30.
Borg-Warner Corporation. (See Nutt, Harold, assignor.)
Bortnick, Ephim, New York, N. Y. Sound attachment device for motion picture machines. 2,315,309; Mar. 30.
Bosco, George B., Chicago, Ill. Screw clamp. 2,314,866; Mar. 30.
Boucke, Heinz, Berlin-Charlottenburg, Germany, assignor, by mesne assignments, to Patents Research Corporation, New York, N. Y. Automatic electronic control system. 2,315,042; Mar. 30.
Boucke, Heinz, Berlin-Charlottenburg, Germany, assignor, by mesne assignments, to Patents Research Corporation, New York, N. Y. Electric amplifier system. 2,315,043; Mar. 30.
Bowden (Engineers) Limited. (See Melsom, Walter A., assignor.)
Bowerman, Ray, Niles, Mich. Chuck handling device for lathes. 2,315,393; Mar. 30.
Boyd, Donald. (See Fenner, Harry E., assignor.)
Boyle, John R., assignor to Illinois Testing Laboratories, Inc., Chicago, Ill. Air velocity meter. 2,315,185; Mar. 30.
Boynton, Alexander, San Antonio, Tex. Semithreadless drill stem. 2,314,876; Mar. 30.
Boynton, Alexander, San Antonio, Tex. Flowing device, tubing, and casing flow. 2,314,868; Mar. 30.
Boynton, Alexander, San Antonio, Tex. Differential stage lift flow device. 2,314,869; Mar. 30.
Brandt, Joe L., Tremont, Ill. Closer for gates. 2,315,106; Mar. 30.
Bransky, David W., assignor to Standard Oil Company, Chicago, Ill. Handling acid sludge. 2,315,044; Mar. 30.
Breitenstein, Victor W., assignor to Illinois Testing Laboratories, Inc., Chicago, Ill. Metal detection device. 2,315,045; Mar. 30.
Brickler, George. (See Gilbert, George, assignor.)
Briggs, Quentin L., and R. A. Voyls, Chicago, Ill. Moving toy and projector therefor. 2,315,242; Mar. 30.
Briggs, Robert E., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Adjustable sprocket wheel. 2,314,969; Mar. 30.
Bristol Aeroplane Company Limited. (See Fedden, A. H. R., Butler, Thomas, and Price, assignors.)
Brosius, Murray, Nashville, Tenn. Inside mold form. 2,315,394; Mar. 30.
Brown, Chester W., assignor to Line Material Company, Milwaukee, Wis. Fuse link. 2,315,311; Mar. 30.
Brown, Gordon H., and A. E. Lanigan, assignors to Electromaster, Inc., Detroit, Mich. Safety appliance for electrically heated apparatus. 2,314,863; Mar. 30.
Brown, Leslie, assignor to Lenox, Incorporated, Trenton, N. J. Refractory setter. 2,315,395; Mar. 30.
Brown, William J., Hackensack, N. J., assignor to Western Electric Company, Incorporated. Electron discharge device circuits. 2,315,312; Mar. 30.
Brundage, Glen. (See Parkton, George W., assignor.)

Buchholz, Herbert, Berlin, Germany, assignor to General Electric Company, Cavity resonator. 2,315,313; Mar. 30.
Buckland, Earl M., and G. J. Juttner, Chicago, and J. M. Marchock, Elmwood Park, assignors to Rockwell-Barnes Company, Chicago, Ill. Easel-type book and method. 2,315,396; Mar. 30.
Budlong, Simeon. (See Miller, E. R., Littell, and Budlong.)
Buerkle, Paul W. (See Ives, H., and Buerkle.)
Bullova Watch Company. (See Jensen, Gustav, assignor.)
Bullum, Steve, Greggton, Tex. Pump pull rod adjuster. 2,315,152; Mar. 30.
Bumstead, Ralph W., Westfield, N. J. Multiplex television and facsimile system. 2,314,920; Mar. 30.
Bunnell, Fred H., Lansing, Mich. Pressure retaining device. 2,314,921; Mar. 30.
Burger, Alfred, Charlottesville, Va., assignor to Tobacco By-Products and Chemical Corporation, Louisville, Ky. Nicotine derivative. 2,315,314; Mar. 30.
Burgin, James. (See Chickinoff, J., Roberts, and Burgin.)
Bussler, Thomas O., assignor of one-third to C. Dold and one-third to B. M. Durr, Wheelersburg, Ohio. Safety switch point protecting means. 2,315,243; Mar. 30.
Butler, Bernard J. (See Giles, A. O., Sheffield, Jr., Maruoka, and Butler.)
Butler, John, Cleveland Heights, Ohio. Rolling attachment for motor vehicles. 2,315,397; Mar. 30.
Butler, Leonard F. G. (See Fedden, A. H. R., Butler, Thomas, and Price.)
Büttner, Hugo, Berlin-Charlottenburg, Germany; vested in the Alien Property Custodian. Container. 2,315,186; Mar. 30.
Byrns, Alva C., Palos Verdes Estates, assignor to Union Oil Company of California, Los Angeles, Calif. Production of ketones. 2,315,046; Mar. 30.
Cairnes, William E., assignor to Galvin Manufacturing Corporation, Chicago, Ill. Radio apparatus. 2,315,315; Mar. 30.
Campbell, Joseph, Jr., West Brighton, Staten Island, N. Y. Tooth powder dispenser. 2,315,244; Mar. 30.
Capell, Robert G. (See Fitz Simons, O., and Capell.)
Carter Carburetor Corporation. (See Bicknell, G. M., and Worden, assignors.)
Carter Carburetor Coporation. (See Ericson, George R., assignor.)
Celanese Corporation of America. (See Dreyfus, Henry, assignor.)
Celanese Corporation of America. (See Lyem, Arthur, assignor.)
Central Discount Company. (See Hudson, James L., assignor.)
Chanut, Paul A., assignor to Aris Gloves, Inc., New York, N. Y. Glove construction. 2,314,922; Mar. 30.
Chapman, Thomas G., Tucson, Ariz., and V. W. Winters, Los Angeles, Calif., assignors of one-half to said Chapman and one-half to The Eagle-Picher Mining and Smelting Company, Joplin, Mo. Cyanidation of ore pulps with limited agitation. 2,315,187; Mar. 30.
Chase Brass & Copper Co. Incorporated. (See Pope, Elton A., assignor.)
Chesler, Isidor, Oceanport, N. J., assignor to Eagle Pencil Company, New York, N. Y. Attrition mill and method. 2,315,083; Mar. 30.
Chesler, Isidor, Oceanport, N. J., assignor to Eagle Pencil Company, New York, N. Y. Attrition mill. 2,315,084; Mar. 30.
Chickinoff, James, and R. M. Roberts, Berkeley, and J. Burgin, Oakland, assignors to Shell Development Company, San Francisco, Calif. Catalytic dehydrogenation. 2,315,107; Mar. 30.
Chisholm-Ryder Company. (See de Back, William, assignor.)
Chism, Charles R., Pittsburg, Calif. Wire feeder tor nail machines. 2,315,108; Mar. 30.
Christensen, Carl W. (See Potts, R. H., and Christensen.)
Christy, George C., Chicago, Ill. Auxiliary door construction. 2,315,365; Mar. 30.
Churchward, Jack, New Haven, Conn. Fluid delivery apparatus. 2,315,085; Mar. 30.
Cissna, Elton E., Bayonne, N. J. Astrological calculator. 2,315,316; Mar. 30.
Clapson, William J., Joplin, Mo., assignor to The Eagle-Picher Lead Company, Cincinnati, Ohio. Treating basic lead sulphate. 2,315,188; Mar. 30.
Clark, Jesse, assignor to Rock-Ola Manufacturing Corporation, Chicago, Ill. Resilient mounting. 2,315,398; Mar. 30.
Clark, William A., and V. Asaro, assignors to L. A. Young Spring and Wire Corporation, Detroit, Mich. Spring structure. 2,314,923; Mar. 30.
Cleveland Tractor Company. (See Heaslet, James G., assignor.)
Cline, Charles R., New Brighton, Pa. Battery terminal clamp. 2,315,399; Mar. 30.
Cobb, Robert S., West Lafayette, and W. B. Moore, Coshocton, assignors to The Moore Enameling & Manufacturing Company, West Lafayette, Ohio. Enameled cooking utensil. 2,315,475; Mar. 30.
Cochrane Corporation. (See Rohlin, Victor A., assignor.)
Cochrane Corporation. (See Rohlin, V. A., and Kittredge, assignors.)
Codet, Howard G. (See Holt, P. H., 2nd, and Codet.)
Coe Laboratories, Inc. (See Vallandigham, Vance V., assignor.)
Coffee X Corporation. (See Polin, H. S., Nerken, and Wettingfeld, Jr., assignors.)
Coleman, Harold, Chicago, Ill. Window and operating means therefor. 2,314,970; Mar. 30.
Coller, Claude C., assignor to Behrend & Rothschild, New York, N. Y. Coin bank. 2,315,086; Mar. 30.
Collier, Thomas W., Brunswick, Ga. Protective device. 2,315,245; Mar. 30.
Colorgraphic Incorporated. (See Adair, James E., assignor.)
Commercial Solvents Corporation. (See Stengel, L. A., and O'Loughlin, assignors.)
Commercial Solvents Corporation. (See Tryon, Philip F., assignor.)
Continental Turpentine & Rosin Corp. Inc. (See Kressman, Frederick W., assignor.)
Cook, John, Ridgewood, N. J. Wire producing mechanism. 2,315,189; Mar. 30.
Cooke, Edward F. (See Roach, E. J., and Cooke.)
Coons, Curtis C., assignor to The Hoover Company, North Canton, Ohio. Refrigeration. 2,315,364; Mar. 30.
Copp, Philip, Didsbury, Manchester, and H. Whiteley, Cleckheaton, assignors to The Renold and Coventry Chain Company, Limited, Didsbury, Manchester, England. Casing for chain belt and like transmissions. 2,315,317; Mar. 30.
Corning Glass Works. (See Hood, H. P., and Nordberg, assignors.)
Cottrell, Robert B., assignor to American Steel Foundries, Chicago, Ill. Truck. 2,315,047; Mar. 30.
Creek Chub Bait Company. (See Davenport, Sam F., assignor.)
Crocker, Oliver E. (See Ford, David O., assignor.)
Croft, Kenneth C., Dayton, Ohio. Fishing float. 2,315,048; Mar. 30.
Crompton & Knowles Loom Works. (See Kronoff, C. R., and Palmer, assignors.)
Cronstedt, Val, assignor to United Aircraft Corporation, East Hartford, Conn. Combined wire support and corrosion inhibitor. 2,315,049; Mar. 30.
Crosby, Murray G., Riverhead, N. Y., assignor to Radio Corporation of America. Frequency modulation system. 2,315,050; Mar. 30.
Cunning, Thomas G., Upland, Calif. Fruit drying machine. 2,315,246; Mar. 30.
Cutter Laboratories. (See Cutter, Robert K., assignor.)
Cutter, Robert K., assignor to Cutter Laboratories, Berkeley, Calif. Drip meter. 2,315,109; Mar. 30.
Cuvier, Pierre, Paris, France; vested in the Alien Property Custodian. Preparation of phenol-urea-formaldehyde resins. 2,315,087; Mar. 30.
D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Resinous composition. 2,315,400; Mar. 30.
D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Thermosetting aminotriazine-formaldehyde condensation products. 2,315,401; Mar. 30.
D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Protein-modified aminotriazine-formaldehyde condensation products. 2,315,402; Mar. 30.
Daley, Frederick M., Shelton, and Ludolf H. De Wyk, Ansonia, assignors to The Sponge Rubber Products Company, Shelton, Conn. Converting bulk compound into vulcanized sponge rubber. 2,315,366; Mar. 30.
Daniels, James E. (See Flizikowski, John S., assignor.)
Davenport, Sam F., assignor to Creek Chub Bait Company, Garrett, Ind. Fish lure. 2,315,247; Mar. 30.
Davis, Claude R. (See Pfennig, R. F., and Davis.)
Davis, Isaac P., Swarthmore, and E. S. Kennedy, Wayne, Pa., assignors to American Viscose Corporation, Wilmington, Del. Flat knit goods and yarn therefor. 2,314,924; Mar. 30.
Dayton, Max E., Rockford, Ill. Coupler. 2,314,870; Mar. 30.
Daywalt, Willa W., et al. (See King, Emory O., assignor.)
Deans, John. (See Van Deventer, C., III, and Deans.)
De Back, William, assignor to Chisholm-Ryder Company, Incorporated, Niagara Falls, N. Y. Apparatus for treating foodstuffs. 2,314,871; Mar. 30.
De Bengoa, Miguel B., Montevideo, Uruguay. Portable thermograph. 2,314,925; Mar. 30.
Dennington, Arthur R., East Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Food treatment and/or storage apparatus. 2,315,285; Mar. 30.
Dennison Manufacturing Company. (See Flood, Carl A., assignor.)
Dentists' Supply Company of New York, The. (See Thornton, H. M., and Dietz, assignors.)
De Rosa, Louis A., Dayton, Ohio. Pseudo-extension of frequency bands. 2,315,248; Mar. 30.
De Rosa, Louis A., Dayton, Ohio. Pseudo-extension of frequency bands. 2,315,249; Mar. 30.
Detroit Harvester Company. (See Kost, Harold W., assignor.)
Deubler, Louis H., Jr., Chicago, Ill. Universal drill vise. 2,315,318; Mar. 30.
Deutscher, Samuel, Brooklyn, N. Y. Machine for treating furs. 2,314,971; Mar. 30.
De Wyk, Ludolf H. (See Daley, F. M., and De Wyk.)

Dickey, Roy N., assignor to Meets-A-Need Manufacturing Company, Seattle, Wash. Hot cake and waffle cooking utensil. 2,314,872; Mar. 30.
Dietz, Charles. (See Thornton, H. M., and Dietz.)
Dillon, Harold H., Cleveland, Ohio, assignor to Aluminum Company of America, Pittsburgh, Pa. Composite piston. 2,315,403; Mar. 30.
Di Pasquale, Angelo H., Ballston Spa, N. Y. Game board. 2,315,088; Mar. 30.
Ditto, Incorporated. (See Williams, Robert A., assignor.)
Dohrmann, Henry A., Chicago, Ill. Wash tank. 2,315,089; Mar. 30.
Dold, Clifford, et al. (See Bussler, Thomas O., assignor.)
Dole Valve Company, The. (See Zelnis, Edward P., assignor.)
Dono, George E., assignor to Morris Motors Limited, Oxford, England. Water, oil, or other liquid cooler. 2,315,404; Mar. 30.
Doran Brothers. (See Schultze, Paul, assignor.)
Doran, John C. (See Schultze, Paul, assignor.)
Dornier, Claude, Friedrichshafen-on-the-Bodensee, Germany; vested in the Alien Property Custodian. Control apparatus for aircraft. 2,315,110; Mar. 30.
Dreher, Stanley C., Cincinnati, Ohio. Abrasive cutoff machine. 2,315,090; Mar. 30.
Dresden, Mark K., Media, assignor to A. H. Wirz Inc., Chester, Pa. Single use tube and mount. 2,315,319; Mar. 30.
Drewry, Montrose K., Milwaukee, and M. E. Fitze, Hales Corners, assignors to Wisconsin Electric Power Company, Milwaukee, Wis. Method and apparatus for degasifying liquids. 2,315,481; Mar. 30.
Dreyfus, Henry, London, England, assignor to Celanese Corporation of America. Production of polymeric compounds. 2,314,972; Mar. 30.
Drybak Corporation, The. (See Grady, Warren G., assignor.)
Dufort, Robert H. (See Salisbury, F. M., and Dufort.)
Dulken, Charles F., Arlington, N. J. Treating textiles. 2,315,405; Mar. 30.
Du Pont, E. I., de Nemours & Company. (See Evans, J. H., and Hall, assignors.)
Du Pont, E. I., de Nemours & Company. (See Moffett, Walter K., assignor.)
Durr, Burty M., et al. (See Bussler, Thomas O.)
Duryea, O. C., Corporation. (See Simonson, Sigvard, assignor.)
Eagle Pencil Company. (See Chesler, Isidor, assignor.)
Eagle-Picher Lead Company, The. (See Clapson, William J., assignor.)
Eagle-Picher Mining and Smelting Company, The. (See Chapman, T. G., and Winters, assignors.)
Earle, Ralph H., Wauwatosa, assignor to Line Material Company, South Milwaukee, Wis. Automatic circuit-interrupting device. 2,315,320; Mar. 30.
Eberhardt, Georg, Bitterfeld, Germany; vested in the Alien Property Custodian. Rectifying column. 2,315,190; Mar. 30.
Eddy, Harold C., Los Angeles, Calif., assignor, by mesne assignments, to Petrolite Corporation, Ltd., Wilmington, Del. Electrical treater method. 2,315,051; Mar. 30.
Eddy Paper Corporation, The. (See Rehfield, W. A., and Naylor, assignors.)
Eddy, William C., Michigan City, Ind., assignor to Balaban & Katz Corporation, Chicago, Ill. Television camera. 2,315,406; Mar. 30.
Edelman, Walter E. (See Kronmiller, C. G., and Edelman.)
Egli, Rudolf, Zurich, Switzerland. Fuel feeding device for internal combustion engines. 2,314,926; Mar. 30.
Egloff, Gustav, assignor to Universal Oil Products Company, Chicago, Ill. Catalytic cracking of hydrocarbons. 2,315,192; Mar. 30.
Ehrlich, Josef, Vienna, Germany; vested in the Alien Property Custodian. Detecting alterations of documents. 2,315,111; Mar. 30.
Ellers, Charles A., Montague, Mich. Detachable spout. 2,315,250; Mar. 30.
Electromaster, Inc. (See Brown, G. H., and Lanigan, assignors.)
Ellinger, Flora H., Chicago, Ill. Hair washing sink. 2,315,153; Mar. 30.
Elliott, Harold F., Chicago, Ill. Electrical control apparatus. 2,315,191; Mar. 30.
Ellis-Foster Company. (See Rust, John B., assignor.)
Emerson Electric Mfg. Co., The. (See Logan, E. W., and Kostko, assignors.)
Emery, George S., Tulsa, Okla. Directional coupling. 2,315,112; Mar. 30.
Enell, John O., et al. (See Till, Steven L., assignor.)
Eppenbach, Edwin G., Manhasset, N. Y. Combination mixer. 2,315,251; Mar. 30.
Epstein, David W., Merchantville, N. J., assignor to Radio Corporation of America. Cathode-ray tube. 2,315,367; Mar. 30.
Ericson, George R., Kirkwood, assignor to Carter Carburetor Corporation, St. Louis, Mo. Carburetor. 2,315,052; Mar. 30.
Etten, Nicholas L., Waterloo, Iowa. Wringer with upsweep reset handle. 2,314,973; Mar. 30.
Etten, Nicholas L. (See Hammand, Lowell F., assignor.)
Euclid Road Machinery Company, The. (See Armington, R. Q., and Stewart F., assignors.)
Evans, Addison W., assignor to The Torrington Manufacturing Co., Torrington, Conn. Double inlet blower wheel. 2,315,407; Mar. 30.
Evans, John L., Rockford, Ill., and W. A. Hall, Flint, Mich., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Leak sealing composition. 2,315,321; Mar. 30.
Evjen, Haakon M., assignor to Nordel Corporation, Houston, Tex. Apparatus for making geophysical explorations. 2,314,873; Mar. 30.
Evjen, Haakon M., assignor to Nordel Corporation, Houston, Tex. Reversing switch. 2,314,874; Mar. 30.
F-S-K Manufacturing Company. (See Fels, William, assignor.)
Fairchild, Walter H., assignor to The Baltimore Paper Box Company, Baltimore, Md. Package. 2,315,368; Mar. 30.
Farmers Incorporated. (See Hunt, Sylvester H., assignor.)
Farnsworth, Philo T., Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation. Television projection system. 2,315,113; Mar. 30.
Farnsworth Television and Radio Corporation. (See Farnsworth, Philo T., assignor.)
Farrington, James T., Tampa, Fla. Bead setter. 2,314,927; Mar. 30.
Faus, Harold T., Lynn, Mass., assignor to General Electric Company. Magnetic suspension. 2,315,408; Mar. 30.
Fay, Horace B., Willoughby, Ohio, assignor to Gridiron Steel Company. Tensioned top ironing table. 2,315,193; Mar. 30.
Fedden, Alfred H. R., and L. F. G. Butler, Bristol, England, F. M. Thomas, North Adams, Mass., and P. R. Price, assignors to The Bristol Aeroplane Company Limited, Bristol, England. Bevel-gearing. 2,315,409; Mar. 30.
Fees, John N., Spokane, Wash. Loader. 2,315,091; Mar. 30.
Fels, William, Fairhope, assignor to F-S-K Manufacturing Company, Inc., Foley, Ala. Diesel engine. 2,315,114; Mar. 30.
Felt & Tarrant Manufacturing Company. (See Turck, J. A. V., assignor.)
Fenley, Margaret M., Fulton, Mo. Fishing float. 2,315,322; Mar. 30.
Fenner, Harry E., assignor of one-half to Donald Boyd, Eau Claire, Wis. Heat deflector for circulating heaters. 2,315,154; Mar. 30.
Fischer, Albert C., Chicago, Ill. Promoting restoration of transplanted plants. 2,314,928; Mar. 30.
Fischer, Emanuel M. (See Fischer, Sidney, assignor.)
Fischer, Sidney, assignor of one-half to E. M. Fischer, New York, N. Y. Adjustable bridge for goggles. 2,315,115; Mar. 30.
Fitze, Maurice E. (See Drewry, M. K., and Fitze.)
Fitz Simons, Ogden, and R. G. Capell, assignors to Floridin Company, Warren, Pa. Filter powder. 2,315,410; Mar. 30.
Fletcher, Ed. (See Slayter, G., Atkinson, Fletcher, and Smith.)
Flett, Lawrence H., Hamburg, N. Y., assignor to Allied Chemical & Dye Corporation. Producing higher alkyl aromatic sulphonates. 2,314,929; Mar. 30.
Flizikowski, John S., assignor, by mesne assignments, to J. E. Daniels, Chicago, Ill. Quick opening package. 2,315,116; Mar. 30.
Flood, Carl A., assignor to Dennison Manufacturing Company, Framingham, Mass. Sealing apparatus. 2,315,411; Mar. 30.
Floridin Company. (See Fitz Simons, O., and Capell, assignors.)
Floyd, Richard, Mount Vernon, Ind. Fly trap. 2,314,931; Mar. 30.
Ford, David O., Petersburg, Va. Safety match packet. 2,314,974; Mar. 30.
Ford, David O., assignor of one-tenth to O. E. Crocker, Petersburg, Va. Treating thermoplastic materials and resulting product. 2,314,975; Mar. 30.
Foreman, Ira, San Bernardino, Calif. Building block. 2,315,194; Mar. 30.
Fortis, Oscar, Williston Park, N. Y., assignor to J. W. Hearst, Chicago, Ill. Hydrocarbon fuel burner 2,315,482; Mar. 30.
Foster, Dudley E., South Orange, N. J., assignor to Radio Corporation of America. Television system. 2,315,369; Mar. 30.
Fostos, John, Burlingame, Calif. Selective machine. 2,315,323; Mar. 30.
Franclare Company. (See Miller, Frank W., assignor.)
Franklin Process Company. (See Wood, John M., assignor.)
Fraser, Charles E., Kew Gardens, N. Y. Filter channel scraper. 2,315,252; Mar. 30.
Fraser, Charles E., Kew Gardens, N. Y. Filter bed cleaner with connected wash water boxes. 2,315,253; Mar. 30.
Fraser, Charles E., Kew Gardens, N. Y. Filter bed cleaner with rotary agitator. 2,315,254; Mar. 30.
Fregeolle, Donat H. (See St. Pierre, E., and Fregeolle.)
French, Henry C., Elm Grove, assignor to The Heil Co., Milwaukee, Wis. Scraper. 2,315,092; Mar. 30.

Frey, Charles N. (See Johnston, W. R., Gore, and Frey.)
Freytag, Fritz, Dessau, Germany; vested in the Alien Property Custodian. Airplane construction. 2,315,117; Mar. 30.
Froehlich, Juroslav, Basel, E. Stoecklin, Binningen, and R. Tobler, Riehen, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Indigoid dyestuffs and making same. 2,315,195; Mar. 30.
Furney, Le Roy F., Pueblo, Colo. Headlight dimmer switch. 2,314,930; Mar. 30.
G-H Specialty Company. (See Schmidt, E. L., and Schwabe, Jr., assignors.)
Gallione, Samuel J., Columbus, Ohio. Container holding mechanism. 2,315,196; Mar. 30.
Galumbeck, Bennie L., New York, N. Y. Dual flame oil burner and control system therefor. 2,315,412; Mar. 30.
Galvin Manufacturing Corporation. (See Cairnes, William E., assignor.)
Gammell, Ernest O., Floral Park, N. Y., assignor to American Telephone and Telegraph Company. Teletypewriter selection system. 2,315,413; Mar. 30.
Gardella, Albert B. (See Ward, Raymond R., assignor.)
Garrett Corporation, The, Airesearch Manufacturing Company Division. (See Hannon, Andrew L., assignor.)
Gassner, Alfred A., New York, N. Y., assignor to John F. Neary, Jr., Englewood, N. J., as trustee. Multiple-ply structure and making the same. 2,315,324; Mar. 30.
Gavurin, Jacob, Brooklyn, N. Y. Combination clamp holder for flexible elements and containers. 2,315,325; Mar. 30.
Gazdik, Ivan. (See Lessig, E. T., and Gazdik.)
Gazdik, Ivan, and E. T. Lessig, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Improving the adhesion of rubber to cotton. 2,314,976; Mar. 30.
General Aniline & Film Corporation. (See Bestian, H., and von Finck, assignors.)
General Aniline & Film Corporation. (See Nawiasky, P., and Sprenger, assignors.)
General Aniline & Film Corporation. (See Thurm, A., Krzikalla, and Kirsch, assignors.)
General Electric Company. (See Baldwin, Morris J., assignor.)
General Electric Company. (See Buchholz, Herbert, assignor.)
General Electric Company. (See D'Alello, Gaetano F., assignor.)
General Electric Company. (See Faus, Harold T., assignor.)
General Electric Company. (See Leach, Edward A., assignor.)
General Electric Company. (See Steenstrup, Carl H., assignor.)
General Electric Company. (See Troy, Matthew O., assignor.)
General Electric Company. (See Warrington, A. R. van C., assignor.)
General Latex and Chemical Corporation. (See Bitter, R. E., and MacLeod, assignors.)
Germany, Arthur, Houston, Tex. Sucker rod coupling. 2,315,414; Mar. 30.
Gilbert, George, Newport, assignor of one-half to G. Brickler, Alexandria, Ky. Sanitary milking receptacle. 2,315,415; Mar. 30.
Giles, Alfred O., E. S. Sheffield, Jr., and F. T. Maruoka, Kahului, and B. J. Butler, assignors to Maui Pineapple Company, Ltd., Paia, Territory of Hawaii. Can filling machine. 2,315,255; Mar. 30.
Gillespie, Henderson C., Moorestown, N. J., assignor to Radio Corporation of America. Heating device. 2,314,875; Mar. 30.
Gleason Works. (See Wildhaber, Ernest, assignor.)
Glissendorf, Richard J., Phillips, Wis. Oar lock. 2,315,155; Mar. 30.
Globe-Union Inc. (See King, C. H., and Appel, assignors.)
Globe-Wernicke Company, The. (See Link, Forest L. W., assignor.)
Gmeiner, James, Appleton, Wis. Surgical instrument. 2,315,326; Mar. 30.
Gobright, C. F., Inc. (See Thornton, Ray F., assignor.)
Godlewicz, Marian. (See Pilat, S., and Godlewicz.)
Goldberg, Harry H., Denver, Colo. Storm window. 2,314,992; Mar. 30.
Goldsby, Arthur R., Port Arthur, Tex., and K. Korpi, Redondo Beach, Calif., assignors, by mesne assignments, to The Texas Company, New York, N. Y. Preparing alkylated hydrocarbons from normal paraffinic hydrocarbons. 2,315,197; Mar. 30.
Goldschmidt, Victor M., Smestad, near Oslo, and K. J. Stenvik, Oslo, Norway; vested in the Alien Property Custodian. Heat resistive material, especially building material, and making same. 2,315,198; Mar. 30.
Gomersall, John R., assignor to McGraw Electric Company, Elgin, Ill. Thermal timer for automatic toasters. 2,315,327; Mar. 30.
Gönningen, Hermann, Berlin, Germany; vested in the Alien Property Custodian. Condenser device. 2,315,199; Mar. 30.
Goodrich, B. F., Company, The. (See Gazdik, I., and Lessig, assignors.)
Goodrich, B. F., Company, The. (See Lessig, E. T., and Gazdik, assignors.)
Goodrich, B. F., Company, The. (See Lessig, E. T., and Headley, assignors.)
Gore, Herbert C. (See Redmond, W. R., Gore, and Frey.)
Gossaux, Eugene A., Edwardsville, Ill., assignor of one-half to O. G. Klein, St. Louis, Mo. Hair waving pad. 2,314,932; Mar. 30.
Grady, Warren G., assignor to The Drybak Corporation, Binghamton, N. Y. Hunting coat. 2,315,416; Mar. 30.
Graham Mfg. Co., The. (See Maynard, J. P., and Matteson, Jr., assignors.)
Graham Transmissions Inc. (See Madlé, Alain M., assignor.)
Grays Harbor Chair & Mfg. Company. (See Schuh, William H., assignor.)
Green, Isaac H. C., Pawtucket, assignor to Hemphill Company, Central Falls, R. I. Fabric and knitting. 2,315,119; Mar. 30.
Green, Walter H., Chicago, Ill., assignor to Infilco Incorporated. Liquid purification. 2,314,977; Mar. 30.
Greenberg, Charles B., New York, N. Y. Expansion link. 2,315,417; Mar. 30.
Greene, Edwin D., assignor to Arkell Safety Bag Company, New York, N. Y. Bag, composite material and making. 2,314,876; Mar. 30.
Greener, Eugene R., Dormont, assignor to Pressed Steel Car Company, Inc., Pittsburgh, Pa. Car construction. 2,315,118; Mar. 30.
Gridiron Steel Company. (See Fay, Horace B., assignor.)
Griffins, Morris E., Riverside, assignor to Associated Electric Laboratories, Inc., Chicago, Ill. Telephone line circuit. 2,314,933; Mar. 30.
Groene, Willard L., assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Broaching machine. 2,315,476; Mar. 30.
Guernsey, Earle J., Parker, S. Dak. Highway maintaining device. 2,314,934; Mar. 30.
Guillaume, Anton A., assignor to Segelke & Kohlhaus Company, La Cross, Wis. Weather stripping. 2,315,200; Mar. 30.
Gunn, Francis M., assignor to Pullman-Standard Car Manufacturing Company, Chicago, Ill. Making rail cars. 2,314,978; Mar. 30.
Gunn, Francis M., assignor to Pullman-Standard Car Manufacturing Company, Chicago, Ill. Rail car. 2,314,979; Mar. 30.
Gutterman, Robert P., Brookline, Mass. Serving tray. 2,314,935; Mar. 30.
Guyard, Léon J. B., Paris, France; vested in the Alien Property Custodian. Extracting and concentrating sulphur dioxide. 2,314,936; Mar. 30.
Haaker, Henry W., Yonkers, assignor of one-half to J. Leer, Bronx, N. Y. Building block and wall construction. 2,315,418; Mar. 30.
Haarhoff, Hans. (See Micheel, F., and Haarhoff.)
Haegele, Otto P., Chicago, and O. Wack, Evanston, assignors to United States Gypsum Company, Chicago, Ill. Punching and cutting machine. 2,315,256; Mar. 30.
Hall, Walter A. (See Evans, J. L., and Hall.)
Hall, William D., Elkins, W. Va. Fluid velocity measuring device. 2,314,877; Mar. 30.
Hallock, Robert L., Larchmont, N. Y. Shelf, especially for refrigerators. 2,315,053; Mar. 30.
Haltmeier, Alfred, Bergisch-Gladbach, Germany; vested in the Alien Property Custodian. Recovering ammonia from used cuprammonium artificial silk precipitation liquors. 2,315,201; Mar. 30.
Hammand, Lowell F., Chicago, Ill., assignor to N. L. Etten, Waterloo, Iowa. Constant pressure wringer. 2,314,980; Mar. 30.
Hanley, Frank H., Butler, N. J., assignor to American Telephone and Telegraph Company. Telegraph breaking system. 2,315,419; Mar. 30.
Hannon, Andrew L., Los Angeles, assignor to The Garrett Corporation, Airesearch Manufacturing Company Division, Inglewood, Calif. Control device for oil coolers. 2,314,937; Mar. 30.
Harlow, Jesse H., Chicago, Ill. Machine providing facilities for batting baseballs and driving golfballs. 2,315,257; Mar. 30.
Harper, Floyd K. (See Tingley, C. N., and Harper.)
Harrington, James R., Mansfield, assignor to The Autocall Company, Shelby, Ohio. Diagram board. 2,315,420; Mar. 30.
Haseltine, Stacy B., La Grange, assignor to W. H. Miner, Inc., Chicago, Ill. Floor rack. 2,315,202; Mar. 30.
Havener, Arthur R., Wayland, assignor to Judson L. Thompson Manufacturing Company, Waltham, Mass. Radial fastener setting machine. 2,315,258; Mar. 30.
Hayden, William L., Bryn Mawr, Pa. Animal exercising anchorage. 2,314,941; Mar. 30.
Haynes, James R., Nyack, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signal translating device. 2,314,938; Mar. 30.
Hays, Robert F., Jr., Bloomfield, and A. L. Herman, Montclair, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Gaseous discharge lamp. 2,315,286; Mar. 30.
Headley, Hal P. (See Lessig, E. T., and Headley.)

Heard, Edward C., Los Angeles, Calif. Vibrator attachment for washing machines. 2,314,981; Mar. 30.
Hearst, Jack W. (See Fortis, Oscar, assignor.)
Heaslet, James G., Hudson, assignor to The Cleveland Tractor Company, Cleveland, Ohio. Crawler tractor side frame construction. 2,315,421; Mar. 30.
Heber, William E., Wilmington, Calif. Finger grip wiper for bowling balls. 2,315,054; Mar. 30.
Heddon's, James, Sons. (See McArthur, Joseph, assignor.)
Heil Co., The. (See French, Henry C., assignor.)
Hein, William F. (See Bambenek, J. B., Hein, and Worner.)
Heller, Richard D., Boise, Idaho. Screen. 2,314,878; Mar. 30.
Heller, Richard D., Columbus, Ohio. Screen. 2,314,879; Mar. 30.
Heller, Richard D., Columbus, Ohio. Screen. 2,314,880; Mar. 30.
Heller, Richard D., Columbus, Ohio. Screen cloth. 2,315,055; Mar. 30.
Helmick, Paul F., Dayton, Ohio. Quick release aerial delivery unit. 2,314,881; Mar. 30.
Hemphill Company. (See Green, Isaac H. C., assignor.)
Hemphill Company. (See St. Pierre, Eugene, assignor.)
Hemphill Company. (See St. Pierre, E., and Fregeolle, assignors.)
Hemphill Company. (See Smith, William L., Jr., assignor.)
Henderson, Lawrence M. (See Ayers, G. W., Jr., Bond, and Henderson.)
Henderson, Lawrence M. (See Bond, D. C., Ayers, Jr., and Henderson.)
Henry, Robert W. (See Lawson, S. D., and Henry.)
Hensel, Franz R., and E. I. Larsen, assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind. Composite metal structure. 2,314,882; Mar. 30.
Herman, Alva L. (See Hays, R. F., Jr., and Herman.)
Herold, James L., assignor to Barry-Wehmiller Machinery Company, St. Louis, Mo. Conveyer. 2,315,205; Mar. 30.
Herson, Jacob, Dayton, Ohio. Distance indicator and system. 2,314,883; Mar. 30.
Hewitt, George W., Forest Hills, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electrostatic ore concentration. 2,314,940; Mar. 30.
Hewitt, George W., Pittsburgh, and G. W. Penney, Wilkinsburg, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electrostatic ore concentrator. 2,314,939; Mar. 30.
Hibshman, Henry J. (See Holmes, A., and Hibshman.)
Hildebrandt, Frank M., Baltimore, Md., assignor to U. S. Industrial Alcohol Co., New York, N. Y. Treatment of molasses fermentation solutions. 2,315,422; Mar. 30.
Hildebrandt, Frank M., Baltimore, Md., assignor to U. S. Industrial Alcohol Co., New York, N. Y. Manufacture of fermentation glycerine from molasses. 2,315,423; Mar. 30.
Hill, Arthur R. (See Morse, L. G., Hill, and Morse.)
Hill, Luther R., Radburn, G. A. Vincent, Teaneck, and E. W. Howard, Glen Rock, assignors to The M. W. Kellogg Company, Jersey City, N. J. Hydrogen purification. 2,315,424; Mar. 30.
Hill, Lyle O., and L. W. Short, assignors to The American Dairy Cattle Club, Chicago, Ill. Container. 2,315,425; Mar. 30.
Hinchcliff, Alfred W., Strongsville, Ohio, assignor of one-half to A. R. Kumer, Pittsburgh, Pa. Bomb lub protector. 2,314,942; Mar. 30.
Hofmann, Rudolf, and W. Simson, Dormagen, Germany; vested in the Alien Property Custodian. Cellulose ester manufacture. 2,315,203; Mar. 30.
Holden, Queen, Forest Hills, N. Y., assignor to Western Printing & Lithographing Company, Racine, Wis. Paper doll or the like. 2,315,056; Mar. 30.
Holle, Otto E., Decatur, Ind. Planter. 2,315,204; Mar. 30.
Holloway, Gilbert C., deceased, by J. G. Holloway, Bloomfield, executrix, and F. T. May, Verona, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Testing machine. 2,315,287; Mar. 30.
Holloway, Janet G., executrix. (See Holloway, Gilbert C.)
Holmes, August, Cranford, and H. J. Hibshman, Plainfield, N. J., assignors to Standard Oil Development Company. Solvent treating process. 2,315,057; Mar. 30.
Holt, Philetus H., 2nd, Summit, and H. G. Codet, Scotch Plains, N. J., assignors to Standard Oil Development Company. Plug cock for handling powdered materials. 2,315,058; Mar. 30.
Homrighous, John H., Oak Park, Ill. Spraying device. 2,315,120; Mar. 30.
Hood, Harrison P., and M. E. Nordberg, assignors to Corning Glass Works, Corning, N. Y. High silica glass article. 2,315,328; Mar. 30.
Hood, Harrison P., and M. E. Nordberg, assignors to Corning Glass Works, Corning, N. Y. Making a composite glass article. 2,315,329; Mar. 30.
Hoover Company, The. (See Coons, Curtis C., assignor.)
Hoover Company, The. (See Siedle, Arnold D., assignor.)
Horowitz, Alexandre, and H. Rinia, Eindhoven, Netherlands, assignors, by mesne assignments, to Radio Corporation of America, New York, N. Y. Adjustable slidable electrode condenser. 2,315,330; Mar. 30.
Horowitz, Alexandre, and J. Timmerman, Eindhoven, Netherlands, assignors to Radio Corporation of America, New York, N. Y. Push-button multirange radio tuner. 2,315,331; Mar. 30.
Houdaille-Hershey Corporation. (See Jandus, Herbert S., assignor.)
Houdry Process Corporation. (See Stahl, Gustave D., assignor.)
Howard, Everett W. (See Hill, L. R., Vincent, and Howard.)
Howdle, James T., Birmingham, assignor to The Parker Pipe Company Limited, Notting Hill Gate, London, England. Tobacco pipe. 2,314,982; Mar. 30.
Howe, Everett W., Edgewood, and K. E. Wilhelm, Providence, R. I., assignors to United States Rubber Company, New York, N. Y. Thread tensioning mechanism. 2,315,332; Mar. 30.
Hudson, James L., assignor to Central Discount Company, Detroit, Mich. Carbonating apparatus. 2,314,983; Mar. 30.
Hudson, James L., assignor to Central Discount Company, Detroit, Mich. Carbonating apparatus. 2,314,984; Mar. 30.
Hughes, Ralph C., assignor to Reynolds Gas Regulator Co., Anderson, Ind. Fluid pressure regulator. 2,315,370; Mar. 30.
Humphrey, Robert G., Pelham, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Solder pellet caster device. 2,315,426; Mar. 30.
Hunt, Sylvester H., New Port Richey, Fla., assignor to Farmers Incorporated, Norfolk, Va. Basket manufacture. 2,315,427; Mar. 30.
Hutchens, Raymond D., New York, N. Y., assignor to Radio Corporation of America. Square wave generator. 2,315,374; Mar. 30.
Huttinger, William R., Lansdowne, Pa. High voltage switch. 2,315,428; Mar. 30.
Huttinger, William R., Lansdowne, Pa. High speed drive. 2,315,429; Mar. 30.
Hyde, James F., Corning, N. Y., assignor to Owens-Corning Fiberglas Corporation. Treating glass fibers. 2,315,259; Mar. 30.
Illinois Testing Laboratories, Inc. (See Boyle, John R., assignor.)
Illinois Testing Laboratories, Inc. (See Breitenstein, Victor W., assignor.)
Imperial Chemical Industries Limited. (See Mitchell, Joseph A. M. W., assignors.)
Infilco Incorporated. (See Green, Walter H., assignor.)
Intertype Corporation. (See Turenne, Wilfred J., assignor.)
Ipatieff, Vladimir N. (See Pines, H., and Ipatieff.)
Ives, Harold, Tulsa, Okla., and P. W. Buerkle, West Los Angeles, Calif. Skin clamp. 2,315,333; Mar. 30.
Jackson, Corwill, Ludington, Mich. Vibratory hand screed. 2,314,985; Mar. 30.
Jandus, Herbert S., assignor to Houdaille-Hershey Corporation, Detroit, Mich. Automobile wheel locking assembly. 2,315,206; Mar. 30.
Janeček, František, and F. K. Janeček, Prague-Nuše, Czecho-Slovakia; vested in the Alien Property Custodian. Firearm. 2,315,207; Mar. 30.
Janeček, František K. (See Janeček, František, and F. K.)
Jasco, Incorporated. (See Bannon, Lewis A., assignor.)
Jeffrey Manufacturing Company, The. (See Briggs, Robert E., assignor.)
Jensen, Gustav, assignor to Bulova Watch Company, Incorporated, New York, N. Y. Display container. 2,314,943; Mar. 30.
Johnsen, Thomas O., Tacoma, Wash. Shoe. 2,315,334; Mar. 30.
Johnson, Charles M., Washington, D. C. Centrifugal separator. 2,314,986; Mar. 30.
Johnson Service Company. (See Scharpf, Otto, assignor.)
Johnston, William R., Bronx, H. C. Gore, and C. N. Frey, Scarsdale, assignors to Standard Brands Incorporated, New York, N. Y. Treatment of fat containing materials, and product. 2,314,988; Mar. 30.
Jones, Basil E. (See Tully, J. K., and Jones.)
Jones, William A., Ottawa, Ontario, Canada. Heating appliance. 2,314,987; Mar. 30.
Joy, Joseph F., Claremont, N. H., assignor to Sullivan Machinery Company. Kerf cutting machine. 2,315,430; Mar. 30.
Judsen, Niles A. (See Saunders, N. H., and Judsen.)
Juttner, Gordon J. (See Buckland, E. M., Juttner and Marchok.)
Kahn, Lawrence, Brooklyn, N. Y. Dress form and hanger. 2,315,371; Mar. 30.
Kane Chain Company. (See Kane, John F.)
Kane, David S., Roslyn, N. Y., assignor to J. M. Summers, Englewood, N. J. Fastening device. 2,315,335; Mar. 30.
Kane, James H., et al. (See Kane, John F., assignor.)
Kane, James T., et al. (See Kane, John F., assignor.)

Kane, John F., assignor to J. T. Kane and himself, Fall River, and J. H. Kane, Boston, co-partners doing business under the firm name of Kane Chain Company, Fall River, Mass. Locking arrangement in securing skid chains to wheels. 2,315,059; Mar. 30.
Kane, John F., assignor to J. T. Kane and himself, Fall River, and J. H. Kane, Boston, co-partners doing business under the firm name of Kane Chain Company, Fall River, Mass. Traction chain fastening device. 2,315,060; Mar. 30.
Karrer, Werner, and F. Perrenoud, Zurich, assignors to Maschinenfabrik Oerlikon, Oerlikon, Switzerland. Heat power plant. 2,315,336; Mar. 30.
Katz, David, Brooklyn, N. Y. Refrigerator door fastener. 2,315,337; Mar. 30.
Keasbey & Mattison Company. (See Wetton, Robert G., assignor.)
Kellogg, M. W., Company, The. (See Hill, L. R., Vincent, and Howard, assignors.)
Kellogg Switchboard and Supply Company. (See Saunders, N. H., and Judsen, assignors.)
Kennedy, Edgar S. (See Davis, I. P., and Kennedy.)
Kercher, Arthur J., Berkeley, Calif. Electrical contacting device. 2,314,989; Mar. 30.
Kessler, Frank, Villa Park, assignor to Associated Electric Laboratories, Inc., Chicago, Ill. Telephone system. 2,314,990; Mar. 30.
King, Carl H., and G. C. Appel, assignors to Globe-Union Inc., Milwaukee, Wis. Nonspill vent plug. 2,315,431; Mar. 30.
King, Charles E., Clarkston, Mich. Electromechanical paint remover. 2,315,121; Mar. 30.
King, Emory O., Kansas City, Kans., assignor of one-third to J. C. Booher and one-third to W. W. Daywalt, both of Kansas City, Mo. Protective composition of matter for users of X-rays. 2,315,061; Mar. 30.
King, Jesse C., La Junta, Colo. Templet carrier for articulators. 2,315,338; Mar. 30.
Kinnaird, William R., assignor to Universal Oil Products Company, Chicago, Ill. Catalytic apparatus. 2,315,208; Mar. 30.
Kirsch, Alfred. (See Thurm, A., Krzikalla, and Kirsch.)
Kittredge, Arthur E. (See Rohlin, Victor A., and Kittredge.)
Klein, John O., assignor to Texas Foundries, Inc., Lufkin, Tex. Land anchor. 2,315,339; Mar. 30.
Klein, Otto G. (See Gossaux, Eugene A., assignor.)
Klein, Peter, Brooklyn, N. Y. Connector. 2,314,884; Mar. 30.
Kleine, John E., Grosse Point Farms, assignor to Micromatic Hone Corporation, Detroit, Mich. Method and means for controlling honing operation by expansion. 2,315,062; Mar. 30.
Knauth, Walter T., Houston, Tex., assignor to The Millwhite Company Inc. Viscosimeter. 2,314,991; Mar. 30.
Knochel, William J. (See Marshall, D. E., and Knochel.)
Knol, Kornelis S. (See van der Ziel, A., and Knol.)
Knoop, William A., Hempstead, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Apparatus for and method of generating television signals. 2,315,288; Mar. 30.
Knudsen, Alex W., Rocky River, assignor to The Midland Steel Products Company, Cleveland, Ohio. Punch. 2,315,340; Mar. 30.
Korpi, Karl. (See Goldsby, A. R., and Korpi.)
Kost, Harold W., Birmingham, assignor to Detroit Harvester Company, Detroit, Mich. Fastener applying tool. 2,315,209; Mar. 30.
Kost, Harold W., Birmingham, assignor to Detroit Harvester Company, Detroit, Mich. Fastener. 2,315,210; Mar. 30.
Kost, Harold W., Birmingham, assignor to Detroit Harvester Company, Detroit, Mich. Fastener for moldings or the like. 2,315,211; Mar. 30.
Kostko, Jaroslaw K. (See Logan, E. W., and Kostko.)
Kraft, Wheaton W., assignor to The Lummus Company, New York, N. Y. Distillation process. 2,315,122; Mar. 30.
Kressman, Frederick W., assignor to Continental Turpentine & Rosin Corp. Inc., Laurel, Miss. Preparing wood products. 2,315,372; Mar. 30.
Kronmiller, Carl G., and W. E. Edelman, assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control apparatus. 2,315,212; Mar. 30.
Kronoff, Clarence R., and A. Palmer, assignors to Crompton & Knowles Loom Works, Worcester, Mass. Thread cutter for looms. 2,315,341; Mar. 30.
Kropa, Edward L., Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Casting of phenolic resins. 2,315,432; Mar. 30.
Krzikalla, Hans. (See Thurm, A., Krzikalla, and Kirsch.)
Kulla, Michael J., Cleveland, Ohio. Angle plate for machine tables. 2,315,433; Mar. 30.
Kumer, Albert R. (See Hinchcliff, Alfred W., assignor.)
Lamesch, Armand, Herzogenrath, near Aachen, Germany; vested in the Alien Property Custodian. Method of and apparatus for producing filaments or the like of glass and structures thereof. 2,314,944; Mar. 30.
Lancaster, George W., Bethesda, Md. Rearview mirror. 2,315,260; Mar. 30.
Land, Edwin H., Cambridge, Mass., assignor to Polaroid Corporation, Dover, Del. Forming light-polarizing images. 2,315,373; Mar. 30.
Landsiedel, Harry, Wilton, Conn., assignor to Remington Rand Inc., Buffalo, N. Y. Hair retainer for shavers. 2,315,261; Mar. 30.
Langrish, Henry W., assignor to Molins Machine Company, Limited, Deptford, London, England. Tobacco, tea, or like leaf cutting machine. 2,314,993; Mar. 30.
Languepin, Jacques E. J., Paris, France; vested in the Alien Property Custodian. Resistance electric welding machine. 2,315,093; Mar. 30.
Lanigan, Alfred E. (See Brown, G. H., and Lanigan.)
Larrabee, Clifford P., Vandergrift, Pa. Low-alloy corrosion-resistant steel. 2,315,156; Mar. 30.
Larsen, Agnew E. (See Simpson, H. A., and Larsen.)
Larsen, Earl I. (See Hensel, F. R., and Larsen.)
Lawrence, Benjamin E., Chicago, Ill. Juice extractor and mixer. 2,315,018; Mar. 30.
Lawson, Shelby D., Borger, Tex., and R. W. Henry, Bartlesville, Okla., assignors to Phillips Petroleum Company. Dewaxing lubricant stocks. 2,314,994; Mar. 30.
Leach, Edward A., Schenectady, N. Y., assignor to General Electric Company. Relay. 2,314,885; Mar. 30.
Le Blond, R. K., Machine Tool Company, The. (See Groene, Willard L., assignor.)
Leer, Joseph. (See Haaker, Henry W., assignor.)
Lefebre, Edward A., Jamaica, N. Y. Electric switch. 2,315,262; Mar. 30.
Leibe, Frank A., Quakertown, Pa., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Transmission system. 2,315,434; Mar. 30.
Leibe, Frank A., Quakertown, Pa., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Transmission system. 2,315,435; Mar. 30.
Lennholm, Gustav A., Des Moines, Iowa, assignor to Square D Company, Detroit, Mich. Electric switch. 2,314,995; Mar. 30.
Lenox Incorporated. (See Brown, Leslie, assignor.)
Leslie, Freeland H., Chicago, Ill. Punch press. 2,314,886; Mar. 30.
Lessig, Edward T. (See Gazdik, I., and Lessig.)
Lessig, Edward T., and I. Gazdik, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Improving the adhesion of rubber to cotton. 2,314,996; Mar. 30.
Lessig, Edward T., and H. P. Headley, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Improving the adhesion of rubber to cotton. 2,314,997; Mar. 30.
Lessig, Edward T., and H. P. Headley, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Adhering fibers to rubber. 2,314,998; Mar. 30.
Lieber, Eugene, Staten Island, N. Y., assignor to Standard Oil Development Company. Addition agent for lubricating oils. 2,315,063; Mar. 30.
Lieberman, Arthur, South Bend, Ind. Skate stop. 2,315,342; Mar. 30.
Linde Air Products Company, The. (See Baird, Albert W., assignor.)
Lindsay, Charles H., assignor to American-La France-Foamite Corporation, Elmira, N. Y. Liquid discharge system. 2,315,263; Mar. 30.
Line Material Company. (See Brown, Chester W., assignor.)
Line Material Company. (See Earle, Ralph H., assignor.)
Linehan, Edward, Hillman, Minn. Variable pitch propeller. 2,315,213; Mar. 30.
Link, Forest L. W., Silverton, assignor to The Globe-Wernicke Company, Norwood, Ohio. Typewriter desk. 2,315,436; Mar. 30.
Linsley, Douglas F., Greenwich, assignor to Schick Incorporated, Stamford, Conn. Back lash take-up. 2,315,343; Mar. 30.
Littell, F. J., Machine Company. (See Miller, E. R., Littell, and Budlong, assignors.)
Littell, F. M. (See Miller, E. R., Littell, and Budlong.)
Littmann, Edwin R., Westfield, N. J., assignor to Standard Oil Development Company. Protecting cellulosic materials. 2,315,064; Mar. 30.
Livingston, John W., Forest Hills, assignor to The Union Switch & Signal Company, Swissvale, Pa. Dynamo-electric machine and mounting means therefor. 2,315,065; Mar. 30.
Locke Insulator Corporation. (See Roberts, Charles W., assignor.)
Lodeesen, Herman J., Royal Oak, and H. K. Ward, Detroit, assignors to Parker Rust Proof Company, Wayne County, Mich. Coating metal and material. 2,314,887; Mar. 30.
Logan, Edwin W., Belleville, Ill., and J. K. Kostko, University City, assignors to The Emerson Electric Mfg. Co., St. Louis, Mo. Motor. 2,314,999; Mar. 30.
Logan, Frank G., Mount Vernon, N. Y., assignor to Ward Leonard Electric Company. Electric controlling apparatus. 2,315,264; Mar. 30.
Logan, Mason A., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 2,315,000; Mar. 30.
Logan, Nicholas D., Port Washington, N. Y. Collapsible frame for cellophane display boxes. 2,315,001; Mar. 30.

Lohse, Julius, Berlin-Wilmersdorf, Germany; vested in the Alien Property Custodian. Metallurgical apparatus. 2,315,123; Mar. 30.
Loiselle, Guy, Ste-Agathe-Des-Monts, Quebec, Canada. Engine. 2,315,214; Mar. 30.
Lorica Laboratories Inc. (See Thompson, Roy E., assignor.)
Lovett, Louis E., Cleveland, Ohio. Manufacture of artificial staple fibers. 2,315,265; Mar. 30.
Luccous, John C., Dallas, Tex. Perforator for well pipes. 2,315,437; Mar. 30.
Lufkin Rule Company, The. (See Witchger, Eugene J., assignor.)
Lummus Company, The. (See Kraft, Wheaton W., assignor.)
Lund, Frank M., assignor of fifty per cent to H. M. Pushker, Chicago, Ill. Enlarging easel. 2,315,066; Mar. 30.
Lurtz, Carl, Brooklyn, N. Y. Time-controlled clock attachment. 2,315,266; Mar. 30.
Luzius, Russell W., Ferndale, assignor to Park Chemical Company, Detroit, Mich. Drying machine. 2,315,124; Mar. 30.
Lyem, Arthur, Cumberland, Md., assignor to Celanese Corporation of America. Ornamental organic derivative of cellulose fabric. 2,315,002; Mar. 30.
Machine and Tool Designing Co. (See Pecker, J. S., and Simpson, assignors.)
Machine and Tool Designing Company. (See Simpson, H. A., and Larsen, assignors.)
Machlett Laboratories, Incorporated. (See Skehan, J. W., and Agule, assignors.)
Mack Manufacturing Corporation. (See Matthews, Joseph L., assignor.)
MacLeod, Duncan W. (See Bitter, R. E., and MacLeod.)
Madlé, Alain M., assignor to Graham Transmissions Inc., Milwaukee, Wis. Variable speed transmission. 2,315,067; Mar. 30.
Mageoch, Nelson H. (See Benson, R. C., and Mageoch.)
Maier, August R., Oil City, Pa., assignor to Oil Well Supply Company. Draw works. 2,315,157; Mar. 30.
Mallina, Rudolph F., Hastings on Hudson, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Call transmitter. 2,315,344; Mar. 30.
Mallory, P. R., & Co. (See Hensel, F. R., and Larsen, assignors.)
Manning, Dave M., Hysham, Mont. Grade finishing machine. 2,314,888; Mar. 30.
Manson, Frank G., and J. J. Maskey, Dayton, Ohio. Nonfreezing mouthpiece. 2,314,889; Mar. 30.
Marchok, John M. (See Buckland, E. M., Juttner, and Marchok.)
Maresca, Giuseppe, and G. Pannone, Waterbury, Conn. Combination of book matches and toothpicks. 2,315,438; Mar. 30.
Markham, Edwin A., Gulfport, Fla. Property marker. 2,315,158; Mar. 30.
Marshall, Donald E., Allwood, and W. J. Knochel, Irvington, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Discharge device with water cooled baffle. 2,315,289; Mar. 30.
Martin, Otto E., and J. W. Pick, Middletown, and E. Reed, Zanesville, assignors to The American Rolling Mill Company, Middletown, Ohio. Sheet sorting table. 2,315,003; Mar. 30.
Maruoka, Francis T. (See Giles, A. O., Sheffield, Jr., Maruoka, and Butler.)
Maschinenfabrik Oerlikon. (See Karrer, W., and Perrenoud, assignors.)
Maskey, James J. (See Manson, F. G., and Maskey.)
Massey Concrete Products Company. (See McDaniel, William L., assignor.)
Matteson, George A., Jr. (See Maynard, J. P., and Matteson, Jr.)
Matthews, Joseph L., Highland Park, N. J., assignor to Mack Manufacturing Corporation, Long Island City, N. Y. Convex faced gear. 2,315,068; Mar. 30.
Mattke, Charles F., Jackson Heights, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Apparatus for and method of generating television signals. 2,315,290; Mar. 30.
Mattke, Charles F., Jackson Heights, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Apparatus for and method of generating television signals. 2,315,291; Mar. 30.
Maui Pineapple Company, Ltd. (See Giles, A. O., Sheffield, Jr., Maruoka, and Butler, assignors.)
Maxwell, John L., Redwood City, and E. R. Shimmin, Del Paso Heights, Calif., assignors to American Telephone and Telegraph Company. Teletypewriter system. 2,315,439; Mar. 30.
May, Frederick T. (See Holloway, G. C., and May.)
Maybach, Karl, Friedrichshafen, Germany; vested in the Alien Property Custodian. Internal combustion engine. 2,315,215; Mar. 30.
Maynard, Joel P., Pawtucket, and G. A. Matteson, Jr., Saunderstown, R. I., assignors to The Graham Mfg. Co., Inc. Machine for sharpening lawn mowers. 2,314,945; Mar. 30.
McArthur, Joseph, assignor to James Heddon's Sons, Dowagiac, Mich. Weed guarded fish lure. 2,315,440; Mar. 30.
McDaniel, William L., Highland Park, assignor to Massey Concrete Products Company, Chicago, Ill. Cribbing. 2,315,441; Mar. 30.
McEwen, Jack E., Detroit, Mich. Garment hanger. 2,315,267; Mar. 30.
McGraw Electric Company. (See Gomersall, John R., assignor.)
McKean, Everett K. (See McKean, John H. and Everett K.)
McKean, John H. and E. K., Alvin, Tex., assignors to Stanolind Oil and Gas Company, Tulsa, Okla. Scraper. 2,315,069; Mar. 30.
McNaughton, Hart H., Maryville, Tenn. Air conditioning furnace. 2,315,070; Mar. 30.
McNitt, Robert J., Perth Amboy, N. J. Electrolytic cell for fused baths. 2,315,443; Mar. 30.
McRae, James W., Neptune, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Negative feedback detector. 2,315,442; Mar. 30.
McWane, Henry E., Lynchburg, Va. Mold construction. 2,315,071; Mar. 30.
Meade, John N., Denver, Colo., assignor to Poor & Company, New York, N. Y. Insulated rail joint and insulation therefor. 2,315,444; Mar. 30.
Meckler, Joseph G., Detroit, Mich. Overspray recovery process. 2,315,125; Mar. 30.
Meets-A-Need Manufacturing Company. (See Dickey, Roy N., assignor.)
Mehler, Ludwig. (See Reichle, A., and Mehler.)
Melsom, Walter A., assignor to Bowden (Engineers) Limited, London, England. Flexible hose coupling. 2,314,890; Mar. 30.
Metallizing Engineering Company. (See Shepard, Arthur P., assignor.)
Michalke, Frieda, née Parnow, Berlin, Germany; vested in the Alien Property Custodian. Covering convertible into a bag. 2,315,126; Mar. 30.
Micheel, Fritz, and H. Haarhoff, Munster, Germany, assignors to Boehringer Corporation, New York, N. Y. Preparation of oxy-tetronic acids. 2,314,946; Mar. 30.
Micromatic Hone Corporation. (See Kline, John E., assignor.)
Midland Steel Products Company, The. (See Knudsen, Alex W., assignor.)
Midland Steel Products Company, The. (See Smith, William E., assignor.)
Mieth, Herman, Louisville, Ky. Box trap for catching many animals at one setting. 2,315,345; Mar. 30.
Milarta, Louis E., Hollis, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Regulated rectifier circuit. 2,315,445; Mar. 30.
Miller, Edgar R., Chicago, Ill., F. M. Littell, Detroit, Mich., and S. Budlong, assignors to F. J. Littell Machine Company, Chicago, Ill. Feeding and straightening machine. 2,315,446; Mar. 30.
Miller, Frank W., assignor to Franclare Company, Chicago, Ill. Boiler refilling system. 2,315,447; Mar. 30.
Millet, John B. (See Newstedt, J. R., and Millet.)
Milprint, Inc. (See Billeb, Clyde K., assignor.)
Milwhite Company Inc., The. (See Knauth, Walter T., assignor.)
Miner, W. H., Inc. (See Haseltine, Stacy B., assignor.)
Minneapolis-Honeywell Regulator Company. (See Kronmiller, C. G., and Edelman, assignors.)
Misch, Albert F., assignor to The Almetal Universal Joint Company, Cleveland, Ohio. Making bearing caps. 2,315,006; Mar. 30.
Mishawaka Rubber and Woolen Manufacturing Company. (See Blair, George W., assignor.)
Mitchell, Joseph A. M. W., Runcorn, England, assignor to Imperial Chemical Industries Limited. Improving graphite electrodes. 2,315,346; Mar. 30.
Moffett, Walter K., South River, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Coating composition. 2,315,347; Mar. 30.
Molins Machine Company, Limited. (See Langrish, Henry W., assignor.)
Möller, Waldemar, Rechlin near Murow, Mecklenburg, and G. Zoege von Monteuffel, Berlin-Dahlem, Germany; vested in the Alien Property Custodian. Gyroscopic apparatus. 2,315,216; Mar. 30.
Monsanto Chemical Company. (See Parkhurst, Frederic A., assignor.)
Moore Enameling & Manufacturing Company, The. (See Cobb, R. S., and Moore, assignors.)
Moore, James L. (See Ajouelo, D. J., and Moore.)
Moore, Mark T., Kearney, Nebr. Automatic inductive reactance for welding circuits. 2,315,159; Mar. 30.
Moore, Susan A., executrix. (See Ajouelo, D. J., and Moore.)
Moore, Walter B. (See Cobb, R. S., and Moore.)
Moore, Wiley T., United States Army, Laverne, Okla. Projectile. 2,314,891; Mar. 30.
Morand, Louis D. (See Richardson, H. K., and Morand.)
Morgillo, Constantine A., Toledo, Ohio. Multiposition holder for brushes and the like. 2,315,269; Mar. 30.
Morris Motors Limited. (See Dono, George E., assignor.)
Morris Paper Mills. (See Powell, Henry K., assignor.)
Morse, Charles C. (See Morse, L. G., Hill, and Morse.)
Morse, Leslie G., Randolph, A. R. Hill, Brookfield, and C. C. Morse, Randolph, Vt. Rotary excavator. 2,315,007; Mar. 30.

Mounce, Whitman D., Houston, Tex., assignor to Standard Oil Development Company. Resistance thermometer. 2,315,127; Mar. 30.
Murray Company, The. (See Thompson, Henry E., assignor.)
Nagin, Harry and L., Pittsburgh, assignors to Reliance Steel Products Company, McKeesport, Pa. Reticulated mat assembly. 2,315,448; Mar. 30.
Nagin, Leon. (See Nagin, Harry and L.)
Nash-Kelvinator Corporation. (See Philipp, Lawrence A., assignor.)
Nash-Kelvinator Corporation. (See Wahlberg, N. E., Berry, and Sladky, assignors.)
National Folding Box Company. (See Ringler, William A., assignor.)
National Plastics, Inc. (See Van Deventer, C., III, and Deans, assignors.)
Natural Products Refining Co. (See Vetter, Joseph J., assignor.)
Nawiasky, Paul, Summit, and G. E. Sprenger, Westfield, N. J., assignors to General Aniline & Film Corporation. Sulpho-tricarboxylic acid compounds and preparing same. 2,315,375; Mar. 30.
Naylor, Milton K. (See Rehfield, W. A., and Naylor.)
Neary, John F., Jr., trustee. (See Gassner, Alfred A., assignor.)
Nelkin, Frances. Great Neck, N. Y. Hat fastening device. 2,315,449; Mar. 30.
Nelson, Joseph F., and R. Rosen, Elizabeth, N. J., assignors to Standard Oil Development Company. Oxidation and corrosion inhibitor for lubricating oils. 2,315,072; Mar. 30.
Nerken, Albert I. (See Polin, H. S., Nerken, and Wetting feld, Jr.)
Newkirk, Francis F., assignor to American Reenforced Paper Company, Attleboro, Mass. Shrinkproof paper and manufacture, and laminated product. 2,315,128; Mar. 30.
Newstedt, Harry N., assignor to Associated Electric Laboratories, Inc., Chicago, Ill. Telephone system. 2,315,008; Mar. 30.
Newstedt, John R., Cincinnati, Ohio, and J. B. Millet, Boston, Mass. Neurological unit. 2,315,160; Mar. 30.
Noble, Wiley B., and J. E. Hoffoss, assignors to Reed Roller Bit Company, Houston, Tex. Core bit. 2,314,947; Mar. 30.
Noll, Harry O., San Diego, Calif. Detachable belt loop. 2,315,161; Mar. 30.
Nordberg, Martin E. (See Hood, H. P., and Nordberg.)
Nordel Corporation. (See Evjen, Haakon M., assignor.)
Norton, Frank R., Chatham, N. J., assignor to Bell Telephone laboratories, Incorporated, New York, N. Y. Electric circuits. 2,315,073; Mar. 30.
Noxon, Paul A., Tenafly, N. J., assignor to The Western Union Telegraph Company, New York, N. Y. Telegraph orienting device. 2,315,009; Mar. 30.
Nutt, Harold, assignor to Borg-Warner Corporation, Chicago, Ill. Torsional vibration dampener. 2,314,948; Mar. 30.
Nyquist, Harry, Millburn, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Method of and apparatus for locating transmission faults. 2,315,450; Mar. 30.
Obiglio, Carlos, Buenos Aires, Argentina. Manufacture of tubular bodies. 2,315,217; Mar. 30.
O'Brien, Frederic L., Rutherford, N. J., assignor to The Western Union Telegraph Company, New York, N. Y. Stylus conditioning apparatus. 2,315,348; Mar. 30.
Oil Well Supply Company. (See Maier, August R., assignor.)
O'Kelly, Arlie A., Woodbury, N. J., and R. H. Work, Philadelphia, Pa., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Alkylation process. 2,315,129; Mar. 30.
Okonite-Callender Cable Company, The. (See Beede, Harry L., assignor.)
Oliphant, Belle D., Glendale, Calif. Plate hanger. 2,315,268; Mar. 30.
O'Loughlin, Walter K. (See Stengel, L. A., and O'Loughlin.)
Olsen, Arnt O., Seattle, Wash. Piston ring. 2,315,218; Mar. 30.
Olsen, Arnt O., Seattle, Wash. Coiled spring piston ring. 2,315,219; Mar. 30.
Olsen, Charles A., Sioux Falls, S. Dak. Garden implement. 2,315,074; Mar. 30.
Olsen, Samuel, Chicago, Ill. Selective delivery mechanism for conveyers. 2,315,075; Mar. 30.
Orshansky, Elias, Jr., University Heights, and B. S. Pond, assignors to The Acrotorque Company, Cleveland, Ohio. Pressure apparatus. 2,315,076; Mar. 30.
Oslund, Charles H., Worcester, Mass. Label wiping mechanism. 2,315,349; Mar. 30.
Ostline, John E., assignor to Associated Electric Laboratories, Inc., Chicago, Ill. Signaling system. 2,315,010; Mar. 30.
Oswego Falls Corporation. (See Baule, Gerhard H. J., assignor.)
Owens-Corning Fiberglas Corporation. (See Hyde, James F., assignor.)
Owens-Corning Fiberglas Corporation. (See Slayter, G., Atkinson, Fletcher, and Smith, assignors.)
Pabst Brewing Company. (See Rue, Harold E., assignor.)
Packwood, George H., Jr., St. Louis, Mo. Dispenser. 2,315,376; Mar. 30.
Painter, William B., Dearborn, Mich. Square. 2,315,004; Mar. 30.
Palmer, Albert. (See Kronoff, C. R., and Palmer.)
Palmer, Richard W., Whittier, assignor to Vultee Aircraft, Inc., Downey, Calif. Airplane. 2,314,949; Mar. 30.
Palmer, Richard W., Whittier, Calif., assignor to Vultee Aircraft, Inc. Hydraulic control system for aircraft. 2,315,270; Mar. 30.
Pannone, Giovanni. (See Maresca, G., and Pannone.)
Papulski, Alexander J., assignor to Armstrong Machine Works, Three Rivers, Mich. Humidifying system. 2,314,892; Mar. 30.
Park Chemical Company. (See Luzius, Russell W., assignor.)
Park, Tracy S., Houston, Tex. Piston. 2,315,012; Mar. 30.
Parker Pipe Company Limited. (See Howdle, James T., assignor.)
Parker Rust Proof Company. (See Lodeesen, H. J., and Ward, assignors.)
Parkhurst, Frederic A., Bethesda, Md., assignor, by mesne assignments, to Monsanto Chemical Company. Apparatus for forming sheets of plastic material. 2,315,477; Mar. 30.
Parkhurst, Frederic A., Suffield, Conn., assignor to Monsanto Chemical Company. Producing plastic containers. 2,315,478; Mar. 30.
Parkton, George W., Dalton, assignor of one-third to G. Brundage, Great bend, Pa. Boiler. 2,315,451; Mar. 30.
Parrott, Robert D. (See Wise, R. J., Stewart, and Parrott.)
Patent Button Company, The. (See Purinton, Forrest G., assignor.)
Patents Research Corporation. (See Boucke, Heinz, assignor.)
Pecker, Joseph S., and H. A. Simpson, assignors to Machine and Tool Designing Co., Philadelphia, Pa. Sorting table. 2,315,013; Mar. 30.
Peerless Chain Company. (See Bambenek, J. B., Hein, and Worner, assignors.)
Penney, Gaylord W. (See Hewitt, G. W., and Penney.)
Perrenoud, François. (See Karrer, W., and Perrenoud.)
Peterson, Louis, Minneapolis, Minn. Clutch construction. 2,315,130; Mar. 30.
Petitcolas, Pierre, Rouen, and R. F. M. Sureau, Mont St. Aignan, France; vested in the Alien Property Custodian. Manufacture of polyazoic dyestuff. 2,315,220; Mar. 30.
Petroleum Iron Works Company, The. (See Pittman, Ernest W., assignor.)
Petrolite Corporation, Ltd. (See Eddy, Harold C., assignor.)
Pfennig, Reuben F., and C. R. Davis, Baytown, Tex., assignors to Standard Oil Development Company. Treating slack wax. 2,315,077; Mar. 30.
Philadelphia Gear Works, Inc. (See Benson, R. C., and Mageoch, assignors.)
Philipp, Lawrence A., assignor to Nash-Kelvinator Corporation, Detroit, Mich. Refrigerating apparatus. 2,315,221; Mar. 30.
Philipp, Lawrence A., assignor to Nash-Kelvinator Corporation, Detroit, Mich. Refrigerating apparatus. 2,315,222; Mar. 30.
Phillips, Michael M., et al. (See Till, Steven L., assignor.)
Phillips Petroleum Company. (See Lawson, S. D., and Henry, assignors.)
Phillips Petroleum Company. (See Reid, James A., assignor.)
Phillips Petroleum Company. (See Riney, A. H., and Weber, assignors.)
Pick, Joseph W. (See Martin, O. E., Pick and Reed.)
Pifer, George N., Cleveland Heights, Ohio. Photographing apparatus. 2,315,452; Mar. 30.
Pilat, Stanislaw, and Marian Godlewicz, Lemberg, Poland, assignors to Shell Development Company, San Francisco, Calif. Method of treating mineral oils. 2,315,131; Mar. 30.
Pines, Herman, and V. N. Ipatieff, assignors to Universal Oil Products Company, Chicago, Ill. Conversion of hydrocarbons. 2,315,078; Mar. 30.
Pittman, Ernest W., Beaumont, Tex., assignor to The Petroleum Iron Works Company, of Texas. Tank support. 2,315,453; Mar. 30.
Platkin, Daniel, Los Angeles, Calif. Playing card case. 2,315,136; Mar. 30.
Poch, Waldemar J., Collingswood, N. J., assignor to Radio Corporation of America. Electrical apparatus. 2,315,377; Mar. 30.
Polaroid Corporation. (See Land, Edwin H., assignor.)
Polin, Herbert S., New York, N. Y. Making plastic substances and the products thereof. 2,315,005; Mar. 30.
Polin, Herbert S., New York, A. I. Nerken, Brooklyn, and H. Wettingfeld, Jr., Bayside, Long Island, N. Y., assignors to Coffee X Corporation. Coffee oil refining process. 2,314,893; Mar. 30.
Pond, Benham S. (See Orshansky, E., Jr., and Pond.)
Poor & Company. (See Meade, John N., assignor.)
Pope, Elton A., assignor to Chase Brass & Copper Co. Incorporated, Waterbury, Conn. Plumbing fixture. 2,314,950; Mar. 30.
Porter, Western J., Bunkie, La. Display tray. 2,315,271; Mar. 30.

Potthoff, Kurt T., Brooklyn, N. Y. Electroplating apparatus. 2,315,272; Mar. 30.
Potts, Ralph H., La Grange, and C. W. Christensen, Hinsdale, Ill. Preparing nitriles. 2,314,894; Mar. 30.
Powell, Henry K., assignor to Morris Paper Mills, Chicago, Ill. Bottle holder. 2,314,895; Mar. 30.
Powell, Henry K., assignor to Morris Paper Mills, Chicago, Ill. Bottle holder. 2,314,896; Mar. 30.
Powell, Winfred T., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Automatic telephone system. 2,315,378; Mar. 30.
Powers, Cedric, assignor to The Stanley Works, New Britain, Conn. Safety shield for bench grinders. 2,315,132; Mar. 30.
Pressed Steel Car Company. (See Greener, Eugene R., assignor.)
Price, Peter R. (See Fedden, A. H. R., Butler, Thomas and Price.)
Pullman Company, The. (See Tully, J. K., and Jones, assignors.)
Pullman-standard Car Manufacturing Company. (See Gunn, Francis M., assignor.)
Pure Oil Company, The. (See Ayers, G. W., Jr., D. C. Bond, and L. M. Henderson, assignors.)
Pure Oil Company, The. (See Bond, D. C., Ayers, Jr., and Henderson, assignors.)
Purinton, Forrest G., assignor to The Patent Button Company, Waterbury, Conn. Fluted shank fastener. 2,314,897; Mar. 30.
Purinton, Forrest G., assignor to The Patent Button Company, Waterbury, Conn. Fluted shank fastener. 2,314,898; Mar. 30.
Pushker, Harvey M. (See Lund, Frank M., assignor.)
Putt, Harlie O., Elkhart, Ind. Electric throttle control system. 2,315,273; Mar. 30.
Quigley, Lloyd. (See Rogers, Donald S., assignor.)
Quiroz, Francisco A., Newark, N. J. Internal combustion engine. 2,315,011; Mar. 30.
Radio Corporation of America. (See Bedford, Aida V., assignor.)
Radio Corporation of America. (See Bierwirth, Rudolph A., assignor.)
Radio Corporation of America. (See Bokovoy, Samuel A., assignor.)
Radio Corporation of America. (See Crosby, Murray G., assignor.)
Radio Corporation of America. (See Epstein, David W., assignor.)
Radio Corporation of America. (See Foster, Dudley E., assignor.)
Radio Corporation of America. (See Gillespie, Henderson C., assignor.)
Radio Corporation of America. (See Horowitz, A., and Rinia, assignors.)
Radio Corporation of America. (See Horowitz, A., and Timmerman, assignors.)
Radio Corporation of America. (See Hutchens, Raymond D., assignor.)
Radio Corporation of America. (See Poch, Waldemar J., assignor.)
Radio Corporation of America. (See Strutt, M. J. O., and van der Ziel, assignors.)
Ramage, John H. (See Stewart, N. H., and Ramage.)
Rand, James H., Jr., Stamford, Conn., assignor to Remington Rand Inc., Buffalo, N. Y. Mechanical razor.
Rappl, Anton, assignor to Trico Products Corporation, Buffalo, N. Y. Wiper arm connection. 2,315,350; Mar. 30.
Rasmussen, Harry L., Chicago, Ill. Measuring and dispensing machine. 2,315,162; Mar. 30.
Reed, Eo. (See Martin, O. E., Pick and Reed.)
Reed Roller Bit Company. (See Noble, W. B., and Hoffoss, assignors.)
Reeves, Edward D., Cranford, N. J., assignor to Standard Oil Development Company. Conveying powdered material. 2,315,079; Mar. 30.
Rehfield, Wilson A., Chicago, and M. K. Naylor, Rockford, assignors to The Eddy Paper Corporation, Chicago, Ill. Container. 2,315,094; Mar. 30.
Reichle, Alfred, and L. Mehler, Dormagen, Germany; vested in the Alien Property Custodian. Cuprammonium cellulose spinning process. 2,315,224; Mar. 30.
Reid, James A., Bartlesville, Okla., assignor to Phillips Petroleum Company. Manufacture of viscous polymers. 2,315,080; Mar. 30.
Reliance Steel Products Company. (See Nagin, Harry and Leon, assignors.)
Remington Rand Inc. (See Landsiedel, Harry, assignor.)
Remington Rand Inc. (See Rand, James H., Jr., assignor.)
Renold and Coventry Chain Company, The. (See Copp, P., and Whiteley, assignors.)
Reynolds Gas Regulator Co. (See Hughes, Ralph C., assignor.)
Rhodes, Ben S., Normal, Ill. Belt-supported toilet kit. 2,315,095; Mar. 30.
Rhodes, Charles J., Wakefield, England. Press for cutting sheet metal. 2,315,454; Mar. 30.
Richardson, Henry K., Bloomfield, and L. D. Morand, Clifton, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Apparatus for forming glass with conducting means molded in place. 2,315,292; Mar. 30.
Riche, Arthur L., Freeport, Ill. Water softener. 2,315,223; Mar. 30.
Ridings, Garvice H. (See Wise, R. J., and Ridings.)
Riesenberger, Austin G., Rockville Centre, assignor to Wetter Numbering Machine Co., Brooklyn, N. Y. Numbering machine. 2,315,081; Mar. 30.
Riney, Arthur H., and L. J. Weber, Bartlesville, Okla, assignors to Phillips Petroleum Company. Pipe line cleaner. 2,315,133; Mar. 30.
Ringler, William A., Wayne, Pa., assignor to National Folding Box Company, New Haven, Conn. Carton. 2,314,951; Mar. 30.
Rinia, Herre. (See Horowitz, A., and Rinia.)
Roach, Edmund J., and E. F. Cooke, Beaumont, Tex. Well control head. 2,315,134; Mar. 30.
Roberts, Charles W., East Milton, Mass., assignor to Locke Insulator Corporation, Baltimore, Md. Cable clamp. 2,315,082; Mar. 30.
Roberts, Robert M. (See Chickinoff, J., Roberts, and Burgin.)
Robinson, James A., Sault Ste. Marie, Mich. Ore pocket clearing means. 2,315,163; Mar. 30.
Robson, Hector Harris, Scarsdale, N. Y., assignor to United Fruit Company, Boston, Mass. Preserving perishables. 2,315,379; Mar. 30.
Rock-Ola Manufacturing Corporation. (See Clark, Jesse, assignor.)
Rockwell-Barnes Company. (See Buckland, E. M., Juttner, and Marchok, assignors.)
Rogers, Donald S., Edgewater, assignor of one-half to Lloyd Quigley, Pueblo, Colo. Hose coupling. 2,315,225; Mar. 30.
Rohlin, Victor A., assignor to Cochrane Corporation, Philadelphia, Pa. Method of and apparatus for washing steam. 2,315,226; Mar. 30.
Rohlin, Victor A., Glenside, Pa., and A. E. Kittridge, Audubon, N. J., assignor to Cochrane Corporation, Philadelphia, Pa. Water heating and deaerating apparatus. 2,315,227; Mar. 30.
Rosen, Raphael. (See Nelson, J. F., and Rosen.)
Rue, Harold E., Wauwatosa, Wis., assignor to Pabst Brewing Company, Chicago, Ill. Container. 2,315,014; Mar. 30.
Rue, Harold E., Wauwatosa, Wis., assignor to The Pabst Brewing Company, Chicago, Ill. Tool holder for cartons. 2,315,015; Mar. 30.
Rust, John B., Verona, N. J., assignor to Ellis-Foster Company. Textile treating process. 2,315,135; Mar. 30.
Saco-Lowell Shops. (See Shaw, William, assignor.)
St. Pierre, Eugene, and D. H. Fregeolle, Pawtucket, assignors to Hemphill Company, Central Falls, R. I. Method of knitting. 2,315,165; Mar. 30.
St. Pierre, Eugene, Pawtucket, assignor to Hemphill Company, Central Falls, R. I. Method and machine for knitting. 2,315,166; Mar. 30.
Sale, William H., Sandston, Va. Dust-guard cap for journal boxes. 2,315,455; Mar. 30.
Salisbury, Frank M., and R. H. Dufort, Kenmore, assignors to Bell Aircraft Corporation, Buffalo, N. Y. Adjusting unit. 2,315,483; Mar. 30.
Samiran, David, Fairfield, Ohio. Fuel system including time delayed selector valves. 2,314,899; Mar. 30.
Samiran, David, Fairfield, Ohio. Automatic fuel system having automatic safety switches. 2,314,900; Mar. 30.
Samuelson, Hugh M., assignor to S. Smith & Sons (Motor Accessories) Limited, London, England. Gyroscopic apparatus. 2,315,019; Mar. 30.
Sanderson, William J. Amelung, and M. Walther, Jersey City, N. J. Spraying, dusting, and frost preventing device. 2,315,096; Mar. 30.
Sanford, Frederick O., New York, N. Y. Holder for balls and bobbins of strand material. 2,315,275; Mar. 30.
Saunders, Norman H., Chicago, and N. A. Judsen, Oak Park, assignors to Kellogg Switchboard and Supply Company, Chicago, Ill. Gang relay. 2,315,020; Mar. 30.
Schaefer, Frederic, Pittsburgh, Pa. Embankment retainer. 2,315,351; Mar. 30.
Scharpf, Otto, assignor to Johnson Service Company, Milwaukee, Wis. Regulating apparatus. 2,314,952; Mar. 30.
Scherbatskoy, Serge A., assignor to Well Surveys, Incorporated, Tulsa, Okla. Well surveying method and apparatus. 2,315,355; Mar. 30.
Schick Incorporated. (See Linsley, Douglas F., assignor.)
Schieferstein, George H., Finowfurt, Eberswalde, Germany; vested in the Alien Property Custodian. Apparatus for comminuting dry substances, pastes, and the like. 2,315,229; Mar. 30.
Schiller, Walter, Evanston, Ill. Game. 2,315,164; Mar. 30.
Schimpf, Luther G., St. George, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Call indicator. 2,315,456; Mar. 30.
Schlegel, Karl H. F., Lyngby, Denmark; vested in the Alien Property Custodian. Method and apparatus for producing photographic sound records. 2,315,097; Mar. 30.
Schmidt, Erwin L., and J. L. Schwabe, Jr., assignors to G-H Specialty Company, Milwaukee, Wis. Lawn rake and manufacture thereof. 2,315,021; Mar. 30.

Schuh, William H., Aberdeen, assignor to Grays Harbor Chair & Mfg. Company, Hoquiam, Wash. Drawer pull. 2,315,457; Mar. 30.
Schultze, Paul, assignor to John C. Doran, doing business as Doran Brothers, Danbury, Conn. Pouncing machine. 2,315,276; Mar. 30.
Schulz, Elise, Vienna, Germany; vested in the Alien Property Custodian. Tubular container. 2,315,228; Mar. 30.
Schuyler, Bernard M., Dorchester, Mass. Garment of the pajamas type. 2,315,352; Mar. 30.
Schwabe, Joseph L., Jr. (See Schmidt, E. L., and Schwabe, Jr.)
Schwartz, Arthur A., assignor to Bell Aircraft Corporation, Buffalo, N. Y. Oval cutting machine. 2,315,479; Mar. 30.
Schwenkmeyer, Le Roy J. (See Ashenberg, S. G., and Schwenkmeyer.)
Scranton, Charles J., La Porte, Ind., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Harvester-thresher. 2,314,901; Mar. 30.
Seeburgh, N. Marshall. (See Wallin, Fred E. A., assignor.)
Segelke & Kohlhaus Company. (See Guillaume, Anton A., assignor.)
Sellmeyer, Gilbert J., Indianapolis, Ind. Work guide for saw tables. 2,315,458; Mar. 30.
Shanman, Jerome D., Cincinnati, Ohio. Laundry drier. 2,315,354; Mar. 30.
Shaw, Benson R., assignor to Washington Institute of Technology, Inc., Washington, D. C. Radiosonde pressure element. 2,315,137; Mar. 30.
Shaw, Benson R., assignor to Washington Institute of Technology, Inc., Washington, D. C. Radiosonde humidity element. 2,315,277; Mar. 30.
Shaw, Benson R., assignor to Washington Institute of Technology, Inc., Washington, D. C. Radiosonde box. 2,315,353; Mar. 30.
Shaw, William, Saco, Maine, assignor to Saco-Lowell Shops, Boston, Mass. Air filter. 2,315,278; Mar. 30.
Sheffield, Eugene S., Jr. (See Giles, A. O., Sheffield, Jr., Maruoka, and Butler.)
Shell Development Company. (See Border, Lawson E., assignor.)
Shell Development Company. (See Chickinoff, J., Roberts and Burgin, assignors.)
Shell Development Company. (See Pilat, S., and Godlewicz, assignors.)
Shepard, Arthur P., New York, assignor to Metallizing Engineering Company, Inc., Long Island City, N. Y. Causing sprayed metal to adhere to metal surfaces. 2,314,902; Mar. 30.
Shimmin, Elmer R. (See Maxwell, J. L., and Shimmin.)
Short, Leland W. (See Hill, Lyle O., and Short.)
Shotton, John C., Lakewood, Ohio. Painless drilling dental instrument. 2,315,016; Mar. 30.
Siedle, Arnold D., Canton, assignor to The Hoover Company, North Canton, Ohio. Refrigeration. 2,315,356; Mar. 30.
Siegerist, Walter, St. Louis, Mo. Multicycle straightening, sizing, and polishing machine. 2,314,953; Mar. 30.
Silex Company, The. (See Wolcott, Frank E., assignor.)
Simonson, Sigvard, Butler, Pa., assignor to O. C. Duryea Corporation, Wilmington, Del. Car construction. 2,314,954; Mar. 30.
Simmon, Alfred, Jackson Heights, assignor to Simmon Brothers Inc., Long Island City, N. Y. Focal plane shutter for cameras. 2,315,279; Mar. 30.
Simmon Brothers Inc. (See Simmon, Alfred, assignor.)
Simpson, Henry A. (See Pecker, J. S., and Simpson.)
Simpson, Henry A., Philadelphia, and A. E. Larsen, Jenkintown, Pa., assignors to Machine and Tool Designing Company. Ski rigging for aircraft. 2,315,098; Mar. 30.
Simson, Wilhelm. (See Hofmann, R., and Simson.)
Skehan, Joseph W., and G. J. Agule, Stamford, assignors to Machlett Laboratories Incorporated, Springdale, Conn. Vacuum tube apparatus. 2,315,280; Mar. 30.
Sladky, Joseph F. (See Wahlberg, N. E., Berry, and Sladky.)
Slater, Robert L., Chicago, Ill. Respirator. 2,314,955; Mar. 30.
Slayter, Games, F. W. Atkinson, E. Fletcher, and H. V. Smith, Newark, assignors to Owens-Corning Fiberglas Corporation, Toledo, Ohio. Electric furnace. 2,314,956; Mar. 30.
Smith, Benjamin A., Rocky River, Ohio, assignor to The C. O. Bartlett & Snow Company. Apparatus for treating materials. 2,315,022; Mar. 30.
Smith, Clyde O., Fort Jones, Calif. Ore mill. 2,315,281; Mar. 30.
Smith, Harry V. (See Slayter, G., Atkinson, Fletcher, and Smith.)
Smith, S., & Sons (Motor Accessories) Limited. (See Samuelson, Hugh M., assignors.)
Smith, William E., Detroit, Mich., assignor to The Midland Steel Products Company, Cleveland, Ohio. Ball bearing annulus and making it. 2,315,357; Mar. 30.
Smith, William E., Detroit, Mich., assignor to The Midland Steel Products Company, Cleveland, Ohio. Electric metallic arc welding. 2,315,358; Mar. 30.
Smith, William L., Jr., Pawtucket, assignor to Hemphill Company, Central Falls, R. I. Method of knitting. 2,315,138; Mar. 30.
Snow, Harold A., Orange, N. J. Method of and apparatus for determining characteristics of surfaces. 2,315,282; Mar. 30.
Society of Chemical Industry in Basle. (See Froehlich, J., Stoecklin, and Tobler, assignors.)
Socony-Vacuum Oil Company. (See O'Kelly, A. A., and Work, assignors.)
Soday, Frank J., Upper Darby, Pa., assignor to The United Gas Improvement Company. Polymerization of unsaturated compounds having the cyclopentadiene nucleus. 2,314,903; Mar. 30.
Soday, Frank J., Upper Darby, Pa., assignor to The United Gas Improvement Company. Polymerization of unsaturated compounds having the cyclopentadiene nucleus. 2,314,904; Mar. 30.
Sorenson, Neil, Salt Lake City, Utah. Harvester cutter bar. 2,314,905; Mar. 30.
Sponge Rubber Products Company, The. (See Daley, F. M., and De Wyk, assignors.)
Sprenger, Gerhard E. (See Nawiasky, P., and Sprenger.)
Square D Company. (See Lennholm, Gustav A., assignor.)
Stafford, Stephen B., Oxford, Mass., assignor to Rice Barton Corporation. Textile printing apparatus. 2,315,459; Mar. 30.
Stahl, Gustave D., Melrose Highlands, Mass., assignor, by mesne assignments, to Houdry Process Corporation, Wilmington, Del. Time control apparatus. 2,314,906; Mar. 30.
Standard Brands Incorporated. (See Johnston, W. R., Gore, and Frey, assignors.)
Standard Oil Company. (See Bransky, David W., assignor.)
Standard Oil Development Company. (See Holmes, A., and Hibshman, assignors.)
Standard Oil Development Company. (See Holt, P. H., 2nd, and Codet, assignors.)
Standard Oil Development Company. (See Lieber, Eugene, assignor.)
Standard Oil Development Company. (See Littmann, Edwin R., assignor.)
Standard Oil Development Company. (See Mounce, Whitman D., assignor.)
Standard Oil Development Company. (See Nelson, J. F., and Rosen, assignors.)
Standard Oil Development Company. (See Pfennig, R. F., and Davis, assignors.)
Standard Oil Development Company. (See Reeves, Edward D., assignor.)
Standard Oil Development Company. (See Stevenson, Hugh M., assignor.)
Stanley Works, The. (See Powers, Cedric, assignor.)
Stanolind Oil and Gas Company. (See McKean, John H. and Everett K., assignors.)
Steenstrup, Carl H., Schenectady, N. Y., assignor to General Electric Company. Refrigerating machine. 2,315,460; Mar. 30.
Stember, Bernard, Summit, N. J., assignor to Basic Patents Inc., New York, N. Y. Billfold and the like. 2,315,293; Mar. 30.
Stengel, Leonard A., and W. K. O'Loughlin, assignors to Commercial Solvents Corporation, Terre Haute, Ind. Separation of furfurylamines. 2,315,139; Mar. 30.
Stenvik, Kristoffer. (See Goldschmidt, V. M., and Stenvik.)
Stevenson, Hugh M., Houston, Tex., assignor to Standard Oil Development Company. Water drain for floating roof tanks. 2,315,023; Mar. 30.
Stewart, Louis G. (See Wise, R. J., Stewart, and Parrott.)
Stewart, Nelson H., Caldwell, and J. H. Ramage, Bloomfield, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Method of brazing. 2,315,294; Mar. 30.
Sticelber, Merlin A., Kansas City, Mo. Combination dough mixer refrigerating means and water cooling device. 2,315,230; Mar. 30.
Stoecklin, Ernst. (See Froehlich, J., Stoecklin, and Tobler.)
Stogermayr, Fred, Hoboken, N. J. Fishing tackle. 2,315,295; Mar. 30.
Stromberg-Carlson Telephone Manufacturing Company, The. (See Powell, Winfred T., assignor.)
Strutt, Maximiliaan J. O. (See Alma, G. H. P., Strutt, and van der Ziel.)
Strutt, Maximiliaan J. O., and A. van der Ziel, Eindhoven, Netherlands, assignors to Radio Corporation of America. High frequency amplifier circuits. 2,315,296; Mar. 30.
Sturgeon, John F., assignor to Universal Oil Products Company, Chicago, Ill. Conversion of hydrocarbons. 2,315,024; Mar. 30.
Stutsman, Charles L., and L. C. Vance, Van Nuys, Calif. Low voltage, self-sustaining, remote control switching device. 2,315,231; Mar. 30.
Sullam, Samuel D., London, England. Electric pocket lamp. 2,315,025; Mar. 30.
Sullam, Samuel D., London, England. Electric hand lamp and the like. 2,315,026; Mar. 30.
Sullivan Machinery Company. (See Joy, Joseph F., assignor.)
Summers, J. Mills. (See Kane, David S., assignor.)
Superior Felt & Bedding Co. (See Bergstrom, Victor J., assignor.)

Sureau, Robert F. M. (See Petitcolas, P., and Sureau.)
Svenson, Helge S., Villavicencio, Colombia. Hydrocar or vehicle with water wing wheels. 2,315,027; Mar. 30.
Sweeney, Floyd D., Fresno, Calif. Fishing lure. 2,314,907; Mar. 30.
Texas Company, The. (See Goldsby, A. R., and Korpi, assignors.)
Texas Foundries, Inc. (See Klein, John O., assignor.)
Thomas, Frank E., Chicago, Ill. Toy submarine. 2,315,461; Mar. 30.
Thomas, Frederick M. (See Fedden, A. H. R., Butler, Thomas, and Price.)
Thomas, Matthew J., Los Angeles, Calif. Juice extracting machine. 2,315,028; Mar. 30.
Thompson, Clifford F., Glen Rock, assignor to Air Associates Incorporated, Bendix, N. J. Electromagnetic clutch. 2,315,298; Mar. 30.
Thompson Grinder Company, The. (See Baldenhofer, William G., assignor.)
Thompson, Henry E., assignor to The Murray Company, Dallas, Tex. Cotton gin. 2,315,140; Mar. 30.
Thompson, Herbert A., Benton, England. Separator for liquids having different specific gravities. 2,315,017; Mar. 30.
Thompson, Judson L., Manufacturing Company. (See Havener, Arthur R., assignor.)
Thompson, Roy E., Nyack, N. Y., assignor to Lorica Laboratories Inc., Jersey City, N. J. Apparatus for manufacturing thin rubber articles. 2,315,283; Mar. 30.
Thompson, Walter R., Ruffin, N. C. Roasting fork. 2,315,143; Mar. 30.
Thompson, William D., San Diego, Calif. Multiple film carrying camera. 2,315,284; Mar. 30.
Thornton, Henry M., and C. Dietz, York, Pa., assignors to The Dentists' Supply Company of New York, New York, N. Y. Making artificial teeth. 2,314,957; Mar. 30.
Thornton, Ray F., Dearborn, assignor to C. F. Gobright, Inc., Detroit, Mich. Axle compensator. 2,315,299; Mar. 30.
Thurm, Alfred, Dessau in Anhalt, H. Krzikalla, and A. Kirsch, Ludwigshafen, Germany, assignors to General Aniline & Film Corporation. Water-insoluble disazo dyes. 2,315,232; Mar. 30.
Till, Steven L., Chicago, assignor of one-half to J. O. Enell and M. M. Phillips, Cook County, Ill. Combined engine and cooling system therefor. 2,315,462; Mar. 30.
Timmerman, Jan. (See Horowitz, A., and Timmerman.)
Tingley, Clark N., Johnson City, and F. K. Harper, Binghamton, N. Y. Architectural model. 2,315,463; Mar. 30.
Tinnerman, George A., assignor, by mesne assignments, to Tinnerman Products, Inc., Cleveland, Ohio. Nut fastening device. 2,315,359; Mar. 30.
Tinnerman Products, Inc. (See Tinnerman, George A., assignor.)
Tischler, Adolph W., Chicago, Ill. Hair shaper. 2,315,297; Mar. 30.
Tobacco By-Products and Chemical Corporation. (See Burger, Alfred, assignor.)
Tobler, Richard. (See Froehlich, J., Stoecklin, and Tobler.)
Torrington Manufacturing Co. (See Evans, Addison W., assignor.)
Trepp, Samuel G., Swarthmore, Pa., assignor to The United Gas Improvement Company. Polymerization of unsaturated compounds having the cyclopentadiene nucleus. 2,314,908; Mar. 30.
Trepp, Samuel G., Swarthmore, Pa., assignor to The United Gas Improvement Company. Polymerization of unsaturated compounds having the cyclopentadiene nucleus. 2,314,909; Mar. 30.
Trepp, Samuel G., Swarthmore, Pa., assignor to The United Gas Improvement Company. Polymerization of unsaturated compounds having the cyclopentadiene nucleus. 2,314,910; Mar. 30.
Trepp, Samuel G., Swarthmore, Pa., assignor to The United Gas Improvement Company. Polymerization of unsaturated compounds having the cyclopentadiene nucleus. 2,314,911; Mar. 30.
Trico Products Corporation. (See Rappl, Anton, assignor.)
Tri-State Engineering Co. (See Arthur, Oscar F., assignor.)
Troy, Matthew O., Schenectady, N. Y., assignor to General Electric Company. Stationary induction apparatus. 2,314,912; Mar. 30.
Tryon, Philip F., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Process and composition for the preparation of reflecting surfaces. 2,315,141; Mar. 30.
Tully, James K., Evanston, and B. E. Jones, Flossmoor, assignors to The Pullman Company, Chicago, Ill. Washbasin. 2,315,233; Mar. 30.
Turek, Joseph A. V., Wilmette, assignor to Felt & Tarrant Manufacturing Company, Chicago, Ill. Calculating machine. 2,315,464; Mar. 30.
Turenne, Wilfred J., Fayville, Mass., assignor to Intertype Corporation, Brooklyn, N. Y. Typographical slug casting machine. 2,315,234; Mar. 30.
Unger, Paul O., Elmhurst, assignor to Wilson-Jones Company, Chicago, Ill. Loose leaf binder. 2,315,303; Mar. 30.
Union Oil Company of California. (See Byrns, Alva C., assignor.)
Union Switch & Signal Company, The. (See Allen, Earl M., assignor.)
Union Switch & Signal Company, The. (See Baughman, George W., assignor.)
Union Switch & Signal Company, The. (See Livingston, John W., assignor.)
Union Switch & Signal Company, The. (See Young, Henry S., assignor.)
United Aircraft Corporation. (See Cronstedt, Val, assignor.)
United Fruit Company. (See Robson, Hector H., assignor.)
United Gas Improvement Company, The. (See Soday, Frank J., assignor.)
United Gas Improvement Company, The. (See Trepp, Samuel G., assignor.)
United Shoe Machinery Corporation. (See Boothroyd, Hubert, assignor.)
United States Gypsum Company. (See Haegele, O. P., and Wack, assignors.)
U. S. Industrial Alcohol Co. (See Hildebrandt, Frank M., assignor.)
United States Rubber Company. (See Howe, E. W., and Wilhelm, assignors.)
United States Rubber Company. (See Wilhelm, Kurt E., assignor.)
Universal Oil Products Company. (See Allender, Samuel S., assignor.)
Universal Oil Products Company. (See Egloff, Gustav, assignor.)
Universal Oil Products Company. (See Kinnaird, William R., assignor.)
Universal Oil Products Company. (See Pines, H., and Ipatieff, assignors.)
Universal Oil Products Company. (See Sturgeon, John F., assignor.)
Universal Oil Products Company. (See Watson, Kenneth M., assignor.)
Upham, Burt F., Grimsby, Ontario, Canada. Bed motion for printing presses. 2,315,142; Mar. 30.
Upperman, William K., Atlantic City, N. J. Fish lure. 2,315,304; Mar. 30.
Urquhart, George G., Cynwyd, Pa. Producing lactic acid esters. 2,315,168; Mar. 30.
Vaillant, Henry, Paterson, N. J. Armature winding. 2,315,300; Mar. 30.
Vallandighan, Vance V., assignor to Coe Laboratories, Inc., Chicago, Ill. Dental impression material. 2,315,465; Mar. 30.
Vance, Leonard C. (See Stutsman, C. L., and Vance.)
Van der Ziel, Aldert. (See Alma, G. H. P., Strutt, and van der Ziel.)
Van der Ziel, Aldert. (See Strutt, M. J. O., and van der Ziel.)
Van der Ziel, Aldert, and K. S. Knol, Eindhoven, Netherlands; vested in the Alien Property Custodian. High frequency amplifier circuit. 2,314,958; Mar. 30.
Van Deventer, Christopher, III, and J. Deans, assignors to National Plastics, Inc., Knoxville, Tenn. Sheave or pulley, particularly adapted for looms. 2,315,301; Mar. 30.
Van Iseghem, Edmond J., Overland, assignor of one-half to H. W. Whiteaker, Clayton, Mo. Handbag and similar portable enclosure. 2,315,169; Mar. 30.
Van Liempt, Johannes A. M., Eindhoven, Netherlands; vested in the Alien Property Custodian. Flash-light lamp. 2,315,099; Mar. 30.
Van Voorhees, Harold E., Detroit, Mich. Muffler. 2,315,305; Mar. 30.
Van Weel, Adelbert, Eindhoven, Netherlands; vested in the Alien Property Custodian. Transmitting or receiving device comprising a dipole antenna. 2,315,170; Mar. 30.
Vetter, Joseph J., Hackensack, assignor to Natural Products Refining Co., Jersey City, N. J. Welding rod. 2,315,466; Mar. 30.
Vincent, Gregory A. (See Hill, L. R., Vincent, and Howard.)
Volterra, Renzo U., assignor to American Electro Metal Corporation, Yonkers, N. Y. Manufacturing shaped bodies from iron powders. 2,315,302; Mar. 30.
Von Finck, Georg. (See Bestian, H., and von Finck.)
Von Manteuffel, Gert Z. (See Möller, W., and von Manteuffel.)
Van Manteuffel, Gert Z., and F. Waack, Berlin, Germany; vested in the Alien Property Custodian. Gyroscope. 2,315,167; Mar. 30.
Voorheis, Joseph T., Oakland, Calif. Adjustable characteristic control valve. 2,315,171; Mar. 30.
Voorheis, Joseph T., Oakland, Calif. Means of atomizing liquids. 2,315,172; Mar. 30.
Voyls, Raymond A. (See Briggs, Q. L., and Voyls.)
Vultee Aircraft, Inc. (See Palmer, Richard W., assignor.)
Waack, Fritz. (See von Manteuffel, G. Z., and Waack.)
Wack, Otis. (See Haegele, O. P., and Wack.)
Wahlberg, Nils E., and W. S. Berry, Kenosha, and J. F. Sladky, Racine, assignors to Nash-Kelvinator Corporation, Kenosha, Wis. Drive shaft center bearing. 2,315,467; Mar. 30.

Wald, Martin, Bucharest, Rumania; vested in the Alien Property Custodian. Arrangement for noise elimination at the receiver. 2,315,173; Mar. 30.
Wallin, Fred E. A., Chicago, Ill., assignor to N. M. Seeburg. Apparatus for separating genuine from spurious coins. 2,315,174; Mar. 30.
Walther, Margaret. (See Sanderson, W., Amelung, and Walther.)
Ward, Herbert K. (See Lodeesen, H. J., and Ward.)
Ward Leonard Electric Company. (See Logan, Frank G., assignor.)
Ward, Raymond R., asignor, by direct and mesne assignments, of one-half to A. B. Gardella, Cleveland, Ohio. Step shimming strip. 2,315,360; Mar. 30.
Warrington, Albert R. van C., Wallingford, Pa., assignor to General Electric Company. Protective system. 2,315,468; Mar. 30.
Warrington, Albert R. van C., Wallingford, Pa., assignor to General Electric Company. Protective system. 2,315,469; Mar. 30.
Warrington, Albert R. van C., Wallingford, Pa., assignor to General Electric Company. Protective system. 2,315,470; Mar. 30.
Warrington, Albert R., van C., Wallingford, Pa., assignor to General Electric Company. Protective system. 2,315,471; Mar. 30.
Washington Institute of Technology, Inc. (See Shaw, Benson R., assignor.)
Watson, Kenneth M., assignor to Universal Oil Products Company, Chicago, Ill. Treatment of hydrocarbons. 2,315,144; Mar. 30.
Wauters, Jean, Brussels, Belgium; vested in the Alien Property Custodian. Vaned projectiles. 2,315,145; Mar. 30.
Weber, Isaac E., Luton, and W. S. Wood, Harpenden, England. Manufacture of barium carbonate. 2,315,472; Mar. 30.
Weber, Louis J. (See Riney, A. H., and Weber.)
Wehe, Clifford W., Chicago, Ill. Powdered soap dispenser. 2,314,959; Mar. 30.
Weidner, Rupert, and J. D. Yaro, New York, N. Y. Fan blades for flywheels of sewing machines. 2,315,235; Mar. 30.
Weiller, Herbert A., Los Angeles, Calif., assignor to Weiller Processes, Inc. Silk screen printing. 2,314,913; Mar. 30.
Weiller Processes, Inc. (See Weiller, Herbert A., assignor.)
Well Surveys, Incorporated. (See Scherbatskoy, Serge A., assignor.)
Weller, Charles H., Hightstown, N. J. Supporting hood for inlet and manhole covers. 2,315,236; Mar. 30.
Wenz, Adolfo, Malloco, Chile. Fruit or vegetable selecting machine. 2,315,100; Mar. 30.
Western Electric Company. (See Brown, William J., assignor.)
Western Printing & Lithographing Company. (See Holden, Queen, assignor.)
Western Union Telegraph Company, The. (See Noxon, Paul A., assignor.)
Western Union Telegraph Company, The. (See O'Brien, Frederic L., assignor.)
Western Union Telegraph Company, The. (See Wise, R. J., and Ridings, assignors.)
Western Union Telegraph Company, The. (See Wise, R. J., Stewart and Parrott, assignors.)
Westinghouse Electric & Manufacturing Company. (See Dennington, Arthur R., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hays, R. F., Jr., and Herman, assignors.)
Westinghouse Electric & Manufacturing Company. (See Hewitt, George W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hewitt, G. W., and Penney, assignors.)
Westinghouse Electric & Manufacturing Company. (See Holloway, G. C., and May, assignors.)
Westinghouse Electric & Manufacturing Company. (See Marshall, D. E., and Knochel, assignors.)
Westinghouse Electric & Manufacturing Company. (See Richardson, H. K., and Morand, assignors.)
Westinghouse Electric & Manufacturing Company. (See Stewart, N. H., and Ramage, assignors.)
Wetter Numbering Machine Co. (See Riesenberger, Austin G., assignor.)
Wettingfeld, Henry, Jr. (See Polin, H. S., Nerken and Wettingfeld, Jr.).
Wetton, Robert G., Haddonfield, N. J., assignor to Keasbey & Mattison Company, Ambler, Pa. Water-repellent surfacing for cement. 2,315,029; Mar. 30.
White, Earl G., Hobart, Ind. Multiple chain assembly. 2,315,146; Mar. 30.
Whiteaker, Hall W. (See Van Iseghem, Edmond J., assignor.)
Whitechurch, Philip C. A., Neuilly sur Seine, France; vested in the Alien Property Custodian. Hinged connection, more particularly for binocular optical instruments. 2,315,050; Mar. 30.
Whiteley, Harold. (See Copp, P., and Whiteley.)
Wiegand, Edwin L., Pittsburgh, Pa. Valve means. 2,315,031; Mar. 30.
Wildhaber, Ernest, Irondequoit, assignor to Gleason Works, Rochester, N. Y. Cutter for and method of cutting gears. 2,315,147; Mar. 30.
Wilhelm, Kurt E. (See Howe, E. W., and Wilhelm.)
Wilhelm, Kurt E., Providence, R. I., assignor to United States Rubber Company, New York, N. Y. Thread tensioning mechanism. 2,315,306; Mar. 30.
Willard, Gerald W., Fanwood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Method of and apparatus for producing television images. 2,314,960; Mar. 30.
Williams, Robert A., assignor to Ditto, Incorporated, Chicago, Ill. Duplicating apparatus. 2,315,175; Mar. 30.
Williams, Samuel B., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 2,314,961; Mar. 30.
Wilson, Harry, and W. P. Yarborough, Fort Benning, Ga. Multipurpose parachute delivery container. 2,314,914; Mar. 30.
Wilson-Jones Company. (See Unger, Paul O., assignor.)
Wilson, Thomas K., Portland, Oreg. Fishhook. 2,315,307; Mar. 30.
Winters, Verne W. (See Chapman, T. G., and Winters.)
Wirz, A. H., Inc. (See Dresden, Mark K., assignor.)
Wisconsin Electric Power Company. (See Drewry, M. K., and Fitze, assignors.)
Wise, Raleigh J., Dunellen, L. G. Stewart, Rutherford, and R. D. Parrott, West New York, N. J., assignors to The Western Union Telegraph Company, New York, N. Y. System and apparatus for facsimile telegraphy. 2,315,361; Mar. 30.
Wise, Raleigh J., Dunellen, and G. H. Ridings, Summit, N. J., assignors to The Western Union Telegraph Company, New York, N. Y. Facsimile recording apparatus. 2,315,362; Mar. 30.
Witchger, Eugene J., assignor to The Lufkin Rule Company, Saginaw, Mich. Measuring tape. 2,314,915; Mar. 30.
Wolcott, Frank E., West Hartford, assignor to The Silex Company, Hartford, Conn. Measuring dispenser. 2,315,473; Mar. 30.
Wolcott, Frank E., West Hartford, assignor to The Silex Company, Hartford, Conn. Flatiron stand. 2,315,474; Mar. 30.
Wood, John M., Cranston, assignor to Franklin Process Company, Providence, R. I. Apparatus for dyeing, bleaching, and like treatment of textile materials. 2,314,962; Mar. 30.
Wood, William S. (See Weber, I. E., and Wood.)
Worden, Van C. (See Bicknell, G. M., and Worden.)
Work, Robert H. (See O'Kelly, A. A., and Work.)
Wormer, Peter. (See Bambenek, J. B., Hein, and Wormer.)
Wratschko, Joseph, New Britain, Conn. Hose supporter. 2,315,237; Mar. 30.
Yarborough, William P. (See Wilson, H., and Yarborough.)
Yarnall, David R., assignor to Yarnall-Waring Company, Philadelphia, Pa. Indicator gauge construction. 2,315,238; Mar. 30.
Yarnall-Waring Company. (See Yarnall, David R., assignor.)
Yaro, Jacob D. (See Weidner, R., and Yaro.)
Yeater, Douglas R. (See Yeater, Paul J. and D. R.)
Yeater, Paul J. and D. R., Salem, Oreg. Safety pedal for bicycles. 2,315,380; Mar. 30.
Young, Henry S., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Control apparatus. 2,315,032; Mar. 30.
Young, L. A., Company, The. (See Young, Leonard A., assignor.)
Young, L. A., Spring and Wire Corporation. (See Clark, W. A., and Asaro, assignors.)
Young, Leonard A., Detroit, assignor to The L. A. Young Company, Grand Rapids, Mich. Making playing balls. 2,314,964; Mar. 30.
Young, William, Washington, D. C. Door securing mechanism. 2,315,239; Mar. 30.
Zachariä, Erich, Berlin-Zehlendorf, Germany; vested in the Alien Property Custodian. Electrical follow-up movement. 2,315,176; Mar. 30.
Zadnik, Otto, Stuttgart, Germany; vested in the Alien Property Custodian. Brush mounting. 2,315,177; Mar. 30.
Zelnis, Edward P., assignor to The Dole Valve Company, Chicago, Ill. Automatic air vent valve. 2,314,963; Mar. 30.
Ziskind, Edward E., New York, N. Y. Machine for applying dry transfers of markings. 2,315,381; Mar. 30.
Zukmann, Laszlo, New York, N. Y. Dropout half-tone negative. 2,315,101; Mar. 30.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 30TH DAY OF MARCH, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Lignin, Making. D. T. Olson, R. Katzen, and R. H. Plow. Re. 22,295; Mar. 30.

Metals, Treatment of. R. W. Shoemaker. Re. 22,296; Mar. 30.

LIST OF DESIGN INVENTIONS

Adapter for a ski pack sled. W. E. Breuner. 135,360; Mar. 30.
Apron. A. Quinn. 135,383–4; Mar. 30.
Ash tray. M. Britz. 135,376; Mar. 30.
Atomizer. F. A. Vuillemenot. 135,365–6; Mar. 30.
Board, Bread slicing. C. E. Ulrich. 135,350; Mar. 30.
Boiler and sterilizer or the like, Combination. J. C. Cleaver and J. V. Resek. 135,379; Mar. 30.
Backstand for belt polishing machines. E. C. Krueger. 135,344; Mar. 30.
Badge or the like. J. D. Youther. 135,387; Mar. 30.
Badge or similar article. M. Behrman. 135,367; Mar. 30.
Brooch or similar article. B. Hansen. 135,370; Mar. 30.
Brooch or similar article. C. P. Lent. 135,391; Mar. 30.
Cap, Safety. Z. Harpignies. 135,354; Mar. 30.
Cap, Woman's. G. Goodwin. 135,369; Mar. 30.
Case and cosmetic holder, Combined traveling. A. R. Botham. 135,358; Mar. 30.
Case or similar article, Carrying. B. Boyar. 135,359; Mar. 30.
Casing for a lighter or similar article. A. S. Weston. 135,385; Mar. 30.
Case for safety razors and shaving accessories. M. Hollis. 135,381; Mar. 30.
Case, Traveling. A. R. Botham. 135,357; Mar. 30.
Chair, Telephone operator's. W. W. Brown. 135,333–4; Mar. 30.
Compact or similar article. A. A. Flaster. 135,335; Mar. 30.
Compass, Beam. H. C. Gile. 135,353; Mar. 30.
Corner member for a sleeping berth or the like. G. W. Latimer. 135,346; Mar. 30.
Dress. B. Cashin. 135,396–9; Mar. 30.
Dress. I. Leibowitz. 135,372–3; Mar. 30.
Dress. S. Zahn. 135,403; Mar. 30.
Display cabinet, Greeting card. M. Grossberg. 135,336; Mar. 30.
Fabric, Textile. H. W. Wilde. 135,374; Mar. 30.
Fabric, Textile. H. W. Wilde. 135,394–5; Mar. 30.
Feed box for lathes. R. K. Le Blond. 135,345; Mar. 30.
Flag or the like. P. T. O'Connell. 135,364; Mar. 30.
Game board. D. Van Horn. 135,351; Mar. 30.
Game board or similar article. T. K. Chay. 135,337; Mar. 30.
Game device. W. H. M. Cameron. 135,377; Mar. 30.
Glider, Ski. G. Hopkins. 135,343; Mar. 30.
Grenade, Hand. J. R. Montano. 135,361; Mar. 30.
Housing for a fluorescent lighting fixture. D. J. Biller. 135,375; Mar. 30.
Hull, Ship. H. J. Sullivan. 135,402; Mar. 30.
Jewelry finding or similar article. R. Hendrix. 135,371; Mar. 30.
Lens computer. S. Sterling. 135,349; Mar. 30.
Luminaire. F. C. Winkler and C. F. Haas. 135,386; Mar. 30.
Mitten. W. A. Clark. 135,368; Mar. 30.
Paperweight. N. A. Cannon. 135,388; Mar. 30.
Partition structure, Interior. R. J. Myers. 135,362; Mar. 30.
Pin, Emblem. B. Felsenthal. 135,380; Mar. 30.
Portfolio, Correspondence. I. Weinger and S. Widder. 135,393; Mar. 30.
Presser foot, Transparent sewing machine. V. Lains. 135,390; Mar. 30.
Reed for musical instruments. E. J. Fitchhorn. 135,338; Mar. 30.
Refrigerator. E. Arens. 135,332; Mar. 30.
Ring, Finger. H. J. Bihari. 135,352; Mar. 30.
Shrine. A. Ochs. 135,363; Mar. 30.
Skillet. K. Schneider. 135,348; Mar. 30.
Slipper. H. E. Hanson. 135,339; Mar. 30.
Sole and heel of a shoe, Combined. H. L. Pierson. 135,347; Apr. 30.
Stereoscope, Pocket. B. Chadkin. 135,378; Mar. 30.
Table, Over-bed. W. A. Hillenbrand. 135,340–1; Mar. 30.
Toy animal unit, Stuffed. B. F. Michtom. 135,355–6; Mar. 30.
Toy or the like, Figure. T. Lamb. 135,382; Mar. 30.
Telephone, Loud-speaking. G. M. Giannini. 135,389; Mar. 30.
Telephone, Loud-speaking. G. M. Giannini. 135,401; Mar. 30.
Truck, Industrial. T. B. Funk. 135,400; Mar. 30.
Vehicle. E. L. Schofield. 135,392; Mar. 30.
Welding electrode extruder covering machine. C. J. Holslag. 135,342; Mar. 30.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 30TH DAY OF MARCH, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasive cutoff machine. S. C. Dreher. 2,315,090; Mar. 30.
Acid compounds and preparing the same, Sulpho-tricarboxylic. P. Nawiasky and G. E. Sprenger. 2,315,375; Mar. 30.
Acid sludge, Handling. D. W. Bransky. 2,315,044; Mar. 30.
Acidic organic substances from hydrocarbon liquids, Removing weakly. G. W. Ayers, Jr., D. C. Bond, and L. M. Henderson. 2,315,384; Mar. 30.
Acidic substances from water-immiscible liquids, Removing weakly. D. C. Bond, G. W. Ayers, Jr., and L. M. Henderson. 2,314,919; Mar. 30.
Acids, Preparation of oxy-tetronic. F. Micheel and H. Haarhoff. 2,314,946; Mar. 30.
Adhesion of rubber to cotton, Improving the. I. Gazdik and E. T. Lessig. 2,314,976; Mar. 30.
Adjustable characteristic control valve. J. T. Voorheis. 2,315,171; Mar. 30.
Adjustable sprocket wheel. R. E. Briggs. 2,314,969; Mar. 30.
Aerial delivery unit, Quick release. P. F. Helmick. 2,314,881; Mar. 30.
Agent for lubricating oils, Addition. E. Lieber. 2,315,063; Mar. 30.
Air conditioning furnace. H. H. McNaughton. 2,315,070; Mar. 30.
Air filter. W. Shaw. 2,315,278; Mar. 30.
Airplane. R. W. Palmer. 2,314,949; Mar. 30.
Airplane construction. F. Freytag. 2,315,117; Mar. 30.
Air velocity meter. J. R. Boyle. 2,315,185; Mar. 30.
Alkyl aromatic sulphonates, Producing higher. L. H. Flett. 2,314,929; Mar. 30.
Alkylation process. A. A. O'Kelly and R. H. Work. 2,315,129; Mar. 30.
Ammonia from used cuprammonium artificial silk precipitation liquors, Recovering. A. Haltmeier. 2,315,201; Mar. 30.
Amplifier circuits, High frequency. M. J. O. Strutt and A. van der Ziel. 2,315,296; Mar. 30.
Anchor, Land. J. O. Klein. 2,315,339; Mar. 30.
Angle plate for machine tables. M. J. Kulla. 2,315,433; Mar. 30.
Apparatus for comminuting dry substances, pastes, and the like. G. H. Schieferstein. 2,315,229; Mar. 30.
Apparatus for dyeing, bleaching, and like treatment of textile materials. J. M. Wood. 2,314,962; Mar. 30.
Apparatus for forming glass with conducting means molded in place. H. K. Richardson and L. D. Morand. 2,315,292; Mar. 30.
Apparatus for forming sheets of plastic material. F. A. Parkhurst. 2,315,477; Mar. 30.
Apparatus for making geophysical explorations. H. M. Evjen. 2,314,873; Mar. 30.
Apparatus for manufacturing thin rubber articles. R. E. Thompson. 2,315,283; Mar. 30.
Apparatus for separating genuine from spurious coins. F. E. A. Wallin. 2,315,174; Mar. 30.
Apparatus for signalizing the decrease of pressure of pneumatic tires. E. Alava y Sautu. 2,314,965; Mar. 30.
Apparatus for treating foodstuffs. W. de Back. 2,314,871; Mar. 30.
Apparatus for treating materials. B. A. Smith. 2,315,022; Mar. 30.
Appliance for electrically heated apparatus, Safety. G. H. Brown and A. E. Lanigan. 2,314,863; Mar. 30.
Architectural model. C. N. Tingley and F. K. Harper. 2,315,463; Mar. 30.
Armature winding. H. Vaillant. 2,315,300; Mar. 30.
Arrangement for noise elimination at the receiver. M. Wald. 2,315,173; Mar. 30.
Artificial staple fibers, Manufacture of. L. E. Lovett. 2,315,265; Mar. 30.
Artificial teeth, Making. H. M. Thornton and C. Dietz. 2,314,957; Mar. 30.
Automatic air vent valve. E. P. Zelnis. 2,314,963; Mar. 30.
Back lash take-up. D. F. Linsley. 2,315,343; Mar. 30.
Bag: *See*—
Excreta bag.
Bag, composite material and making. E. D. Greene. 2,314,876; Mar. 30.
Ball-bearing annulus and making it. W. E. Smith. 2,315,357; Mar. 30.
Balls, Making playing. L. A. Young. 2,314,964; Mar. 30.
Bar: *See*—
Harvester cutter bar.
Barium carbonate, Manufacture of. I. E. Weber and W. S. Wood. 2,315,472; Mar. 30.
Basic lead sulphate, Treating. W. J. Clapson. 2,315,188; Mar. 30.
Basket manufacture. S. H. Hunt. 2,315,427; Mar. 30.
Battery terminal clamp. C. R. Cline. 2,315,399; Mar. 30.
Bead setter. J. T. Farrington. 2,314,927; Mar. 30.
Bearing: *See*—
Drive shaft center bearing.
Bed motion for printing presses. B. F. Upham. 2,315,142; Mar. 30.
Belt loop, Detachable. H. O. Noll. 2,315,161; Mar. 30.
Bevel gearing. A. H. R. Fedden, L. F. G. Butler, F. M. Thomas, and P. R. Price. 2,315,409; Mar. 30.
Billfold and the like. B. Stember. 2,315,293; Mar. 30.
Bit: *See*—
Core bit.
Block: *See*—
Building block.
Board: *See*—
Diagram board.
Game board.
Boiler. G. W. Parkton. 2,315,451; Mar. 30.
Boiler refilling system. F. W. Miller. 2,315,447; Mar. 30.
Bomb lug protector. A. W. Hinchcliff. 2,314,942; Mar. 30.
Book and method, Easel-type. E. M. Buckland, G. J. Juttner, and J. M. Marchok. 2,315,396; Mar. 30.
Bottle capping machine. G. H. J. Baule. 2,314,918; Mar. 30.
Bottle holder. H. K. Powell. 2,314,895–6; Mar. 30.
Box: *See*—
Radiosonde box.
Box trap for catching many animals at one setting. H. Mieth. 2,315,345; Mar. 30.
Brake. W. H. Baselt. 2,315,241; Mar. 30.
Brazing. N. H. Stewart and J. H. Ramage. 2,315,294; Mar. 30.
Bridge for goggles, Adjustable. S. Fischer. 2,315,115; Mar. 30.
Broaching machine. W. L. Groene. 2,315,476; Mar. 30
Brush mounting. O. Zadnik. 2,315,177; Mar. 30.
Building block. I. Foreman. 2,315,194; Mar. 30.
Building block and wall construction. H. W. Haaker. 2,315,418; Mar. 30.
Bulk compound into vulcanized sponge rubber, Converting. F. M. Daley and L. H. De Wyk. 2,315,366; Mar. 30.
Burner: *See*—
Hydrocarbon fuel burner.
Cable: *See*—
Electric cable.
Cable clamp. C. W. Roberts. 2,315,082; Mar. 30.
Calculating machine. J. A. V. Turck. 2,315,464; Mar. 30.
Calculator, Astrological. E. E. Cissna. 2,315,316; Mar. 30.
Call indicator. L. G. Schimpf. 2,315,456; Mar. 30.
Camera, Multiple film carrying. W. D. Thompson. 2,315,284; Mar. 30.
Camera, Television. W. C. Eddy. 2,315,406; Mar. 30
Can filling machine. A. O. Giles, E. S. Sheffield, Jr., F. T. Maruoka, and B. J. Butler. 2,315,255; Mar. 30.
Cap for journal boxes, Dust-guard. W. H. Sale. 2,315,455; Mar. 30.
Caps, Making bearing. A. F. Misch. 2,315,006; Mar. 30.
Car: *See*—
Rail car.
Car construction. E. R. Greener. 2,315,118; Mar. 30.
Car construction. S. Simonson. 2,314,954; Mar. 30.
Car lock. R. J. Glissendorf. 2,315,155; Mar. 30.
Cars, Making rail. F. M. Gunn. 2,314,978; Mar. 30.
Carbonating apparatus. J. L. Hudson. 2,314,983–4; Mar. 30.
Carburetor. G. R. Ericson. 2,315,052; Mar. 30.
Carburetor, Dual. G. M. Bicknell and V. C. Worden. 2,315,183; Mar. 30.
Carrier attachment for vehicles. J. B. Bambenek, W. F. Hein, and P. Worner. 2,315,387; Mar. 30
Carton. W. A. Ringler. 2,314,951; Mar. 30.
Case: *See*—
Playing card case.
Casing for chain belt and like transmissions. P. Copp and H. Whiteley. 2,315,317; Mar. 30.
Catalytic apparatus. W. R. Kinnaird. 2,315,208; Mar. 30.
Catalytic dehydrogenation. J. Chicknoff, R. M. Roberts, and J. Burgin. 2,315,107; Mar. 30.
Cathode-ray tube. D. W. Epstein. 2,315,367; Mar. 30.
Cavity resonator. H. Buchholz. 2,315,313; Mar. 30.

Cellulose ester manufacture. R. Hofmann and W. Simson. 2,315,203; Mar. 30.
Cellulose spinning process, Cuprammonium. A. Reichle and L. Mehler. 2,315,224; Mar. 30.
Cellulosic materials, Protecting. E. R. Littmann. 2,315,064; Mar. 30.
Centrifugal hydro-extractor. A. Bailly. 2,315,036; Mar. 30.
Centrifugal separator. C. M. Johnson. 2,314,986; Mar. 30.
Chain fastening device, Traction. J. F. Kane. 2,315,060; Mar. 30.
Chain-assembly, Multiple. E. G. White. 2,315,146; Mar. 30.
Characteristics of surfaces, Method of and apparatus for determining. H. A. Snow. 2,315,282; Mar. 30.
Chlorination of propylene polymers to give resins. L. A. Bannon. 2,315,037; Mar. 30.
Chuck handling device for lathes. R. Bowerman. 2,315,393; Mar. 30.
Circuit: *See*—
High frequency amplifier circuit. Regulated rectifier circuit.
Telephone line circuit.
Circuit-interrupting device, Automatic. R. H. Earle. 2,315,320; Mar. 30.
Circuit for the amplification and/or frequency-transformation of electrical oscillations of ultra high frequency. G. H. P. Alma, M. J. O. Strutt, and A. van der Ziel. 2,314,916; Mar. 30.
Clamp: *See*—
Battery terminal clamp. Screw clamp.
Cable clamp. Skin clamp.
Clamp holder for flexible elements and containers, Combination. J. Gavurin. 2,315,325; Mar. 30.
Cleaner: *See*—
Pipe line cleaner.
Clock attachment, Time-controlled. C. Lurtz. 2,315,266; Mar. 30.
Closer for gates. J. L. Brandt. 2,315,106; Mar. 30.
Clutch construction. L. Peterson. 2,315,130; Mar. 30.
Coat, Hunting. W. G. Grady. 2,315,416; Mar. 30.
Coating composition. W. K. Moffett. 2,315,347; Mar. 30.
Coiled spring piston ring. A. O. Olsen. 2,315,219; Mar. 30.
Coin bank. C. C. Coller. 2,315,086; Mar. 30.
Combination mixer. E. G. Eppenbach. 2,315,251; Mar. 30.
Compensator, Axle. R. F. Thornton. 2,315,299; Mar. 30.
Compound into vulcanized rubber, Converting bulk. F. M. Daley and L. H. De Wyk. 2,315,366; Mar. 30.
Condenser: *See*—
Electrode condenser.
Condenser device. H. Gönningen. 2,315,199; Mar. 30.
Conditioning apparatus, Stylus. F. L. O'Brien. 2,315,348; Mar. 30.
Connector. P. Klein. 2,314,884; Mar. 30.
Container: *See*—
Display container. Tubular container.
Parachute delivery container.
Container. E. W. Bonfield. 2,315,105; Mar. 30.
Container. H. Buttner. 2,315,186; Mar. 30.
Container. L. O. Hill and L. W. Short. 2,315,425; Mar. 30.
Container. W. A. Rehfield and M. K. Naylor. 2,315,094; Mar. 30.
Container. H. E. Rue. 2,315,014; Mar. 30.
Container holding mechanism. S. J. Gallione. 2,315,196; Mar. 30.
Control apparatus. C. G. Kronmiller and W. E. Edelman. 2,315,212; Mar. 30.
Control apparatus for aircraft. C. Dornier. 2,315,110; Mar. 30.
Control apparatus. H. S. Young. 2,315,032; Mar. 30.
Control device for oil coolers. A. L. Hannon. 2,314,937; Mar. 30.
Convex faced gear. J. L. Matthews. 2,315,068; Mar. 30.
Conveyer. J. L. Herold. 2,315,205; Mar. 30.
Cooking utensil, Hot cake and waffle. R. N. Dickey. 2,314,872; Mar. 30.
Core bit. W. B. Noble and J. E. Hoffoss. 2,314,947; Mar. 30.
Cornice for windows. J. E. Adair. 2,315,033; Mar. 30.
Couch structure, Convertible. V. J. Bergstrom. 2,314,864; Mar. 30.
Coupler. M. E. Dayton. 2,314,870; Mar. 30.
Coupling: *See*—
Directional coupling. Hose coupling.
Flexible hose coupling. Sucker rod coupling.
Covering convertible into a bag. F. Michalke, née Parnow. 2,315,126; Mar. 30.
Crawler tractor side frame construction. J. G. Heaslet. 2,315,421; Mar. 30.
Cream separator. A. Aroney. 2,315,178; Mar. 30.
Cribbing. W. L. McDaniel. 2,315,441; Mar. 30.
Crystals, Mounting piezoelectric. S. A. Bokovoy. 2,315,392; Mar. 30.
Cushion. G. W. Blair. 2,315,391; Mar. 30.
Cutter for and method of cutting gears. E. Wildhaber. 2,315,147; Mar. 30.
Cyanidation of ore pulps with limited agitation. T. G. Chapman and V. W. Winters. 2,315,187; Mar. 30.
Dampener, Torsional vibration. H. Nutt. 2,314,948; Mar. 30.
Delivery mechanism for conveyers, Selective. S. Olson. 2,315,075; Mar. 30.
Dental impression material. V. V. Vallandigham. 2,315,465; Mar. 30.
Dental instrument, Painless drilling. J. C. Shotton. 2,315,016; Mar. 30.
Desk, Typewriter. F. L. W. Link. 2,315,436; Mar. 30.
Diagram board. J. R. Harrington. 2,315,420; Mar. 30.
Diesel engine. W. Fels. 2,315,114; Mar. 30.
Dipping form. R. E. Bitter and D. W. MacLeod. 2,315,310; Mar. 30.
Directional coupling. G. S. Emery. 2,315,112; Mar. 30.
Discharge device with water cooled baffle. D. E. Marshall and W. J. Knoechel. 2,315,289; Mar. 30.
Dispenser: *See*—
Measuring dispenser. Tooth powder dispenser.
Powdered soap dispenser.
Dispenser. G. H. Packwood, Jr. 2,315,376; Mar. 30.
Display container. G. Jensen. 2,314,943; Mar. 30.
Display device. S. G. Ashenberg and L. R. J. Schwenkmeyer. 2,315,240; Mar. 30.
Display tray. W. J. Porter. 2,315,271; Mar. 30.
Distillation process. W. W. Kraft. 2,315,122; Mar. 30.
Documents, Detecting alterations of. J. Ehrlich. 2,315,111; Mar. 30.
Doll or the like, Paper. Q. Holden. 2,315,056; Mar. 30.
Door construction, Auxiliary. G. C. Christy. 2,315,365; Mar. 30.
Door securing mechanism. W. Young. 2,315,239; Mar. 30.
Double inlet blower wheel. A. W. Evans. 2,315,407; Mar. 30.
Dough mixer refrigerating means and water cooling device, Combination. M. A. Sticelber. 2,315,230; Mar. 30.
Drain for floating roof tanks, Water. H. M. Stevenson. 2,315,023; Mar. 30.
Draw works. A. R. Maier. 2,315,157; Mar. 30.
Drawer pull. W. H. Schuh. 2,315,457; Mar. 30.
Dress form and hanger. L. Kahn. 2,315,371; Mar. 30.
Drier: *See*—
Laundry drier.
Drip meter. R. K. Cutter. 2,315,109; Mar. 30.
Drive shaft center bearing. N. E. Wahlberg, W. S. Berry, and J. F. Siadky. 2,315,467; Mar. 30.
Drying machine. R. W. Luzius. 2,315,124; Mar. 30.
Duplicating apparatus. R. A. Williams. 2,315,175; Mar. 30.
Dyes, Water-insoluble disazo. A. Thurm, H. Krzikalla, and A. Kirsch. 2,315,232; Mar. 30.
Dyestuffs and making same, Indigoid. J. Froehlich, E. Stoecklin, and R. Tobler. 2,315,195; Mar. 30.
Dynamoelectric machine and mounting means therefor. J. W. Livingston. 2,315,065; Mar. 30.
Easel, Enlarging. F. M. Lund. 2,315,066; Mar. 30.
Electric amplifier system. H. Boucke. 2,315,043; Mar. 30.
Electric cable. H. L. Beede. 2,315,039; Mar. 30.
Electric circuits. F. R. Norton. 2,315,073; Mar. 30.
Electric controlling apparatus. F. G. Logan. 2,315,264; Mar. 30.
Electric furnace. G. Slayter, F. W. Atkinson, E. Fletcher, and H. V. Smith. 2,314,956; Mar. 30.
Electric hand lamp and the like. S. D. Sullam. 2,315,026; Mar. 30.
Electric metallic arc welding. W. E. Smith. 2,315,358; Mar. 30.
Electric pocket lamp. S. D. Sullam. 2,315,025; Mar. 30.
Electric switch. M. Andis. 2,315,035; Mar. 30.
Electric switch. E. A. Lefebre. 2,315,262; Mar. 30.
Electric switch. G. A. Lennholm. 2,314,995; Mar. 30.
Electric throttle control system. H. O. Putt. 2,315,273; Mar. 30.
Electric wave amplification. H. W. Bode. 2,315,040; Mar. 30.
Electric welding apparatus. A. W. Baird. 2,314,917; Mar. 30.
Electric welding machine, Resistance. J. E. J. Languepin. 2,315,093; Mar. 30.
Electrical apparatus. W. J. Poch. 2,315,377; Mar. 30.
Electrical contacting device. A. J. Kercher. 2,314,989; Mar. 30.
Electrical control apparatus. H. F. Elliott. 2,315,191; Mar. 30.
Electrical follow-up movement. E. Zachariä. 2,315,176; Mar. 30.
Electrical treater method. H. C. Eddy. 2,315,051; Mar. 30.
Electrode condenser, Adjustable slidable. A. Horowitz and H. Rinia. 2,315,330; Mar. 30.
Electrolytic cell for fused baths. R. J. McNitt. 2,315,443; Mar. 30.
Electromagnetic clutch. C. F. Thompson. 2,315,298; Mar. 30.
Electromechanical paint remover. C. E. King. 2,315,121; Mar. 30.
Electron discharge device circuits. W. J. Brown. 2,315,312; Mar. 30.
Electronic control system, Automatic. H. Boucke. 2,315,042; Mar. 30.
Electroplating apparatus. K. T. Potthoff. 2,315,272; Mar. 30.

Electrostatic ore concentration. G. W. Hewitt. 2,314,940; Mar. 30.
Electrostatic ore concentrator. G. W. Hewitt and G. W. Penney. 2,314,939; Mar. 30.
Engine: *See*—
Diesel engine.
Internal combustion engine.
Engine. G. Loiselle. 2,315,214; Mar. 30.
Engine and cooling system therefor, Combined. S. L. Till. 2,315,462; Mar. 30.
Esters, Producing lactic acid. G. G. Urquhart. 2,315,168; Mar. 30.
Excreta bag. C. K. Billeb. 2,315,390; Mar. 30.
Exercising anchorage, Animal. W. L. Hayden. 2,314,941; Mar. 30.
Exit roll for galvanizing pots. S. H. Bobrov. 2,315,150; Mar. 30.
Extracting and concentrating sulphur dioxide. L. J. B. Guyard. 2,314,936; Mar. 30.
Fabric: *See*—
Organic derivative of cellulose fabric.
Fabric and method of knitting. I. H. C. Green. 2,315,119; Mar. 30.
Fan blades for flywheels of sewing machines. R. Weidner and J. D. Yaro. 2,315,235; Mar. 30.
Fastener: *See*—
Fluted shank fastener. Refrigerator door fastener.
Fastener. H. W. Kost. 2,315,210; Mar. 13.
Fastener applying tool. H. W. Kost. 2,315,209; Mar. 30.
Fastener for moldings or the like. H. W. Kost. 2,315,211; Mar. 30.
Fastener for storm windows and the like. A. W. Bergesch. 2,314,967; Mar. 30.
Fastening device. D. S. Kane. 2,315,335; Mar. 30.
Fat containing materials, and product, Treatment of. W. R. Johnston, H. C. Gore, and C. N. Frey. 2,314,988; Mar. 30.
Feeding and straightening machine. E. R. Miller, F. M. Littell, and S. Budlong. 2,315,446; Mar. 30.
Fibers to rubber, Adhering. E. T. Lessig and H. P. Headley. 2,314,998; Mar. 30.
Filaments or the like of glass and structures thereof, Method of and apparatus for producing. A. Lamesch. 2,314,914; Mar. 30.
Filter: *See*—
Air filter.
Filter bed cleaner with connected wash water boxes. C. E. Fraser. 2,315,253; Mar. 30.
Filter bed cleaner with rotary agitator. C. E. Fraser. 2,315,254; Mar. 30.
Filter channel scraper. C. E. Fraser. 2,315,252; Mar. 30.
Filter powder. O. Fitz Simons and R. G. Capell. 2,315,410; Mar. 30.
Finishing machine, Grade. D. M. Manning. 2,314,888; Mar. 30.
Firearm. F. and F. K. Janeček. 2,315,207; Mar. 30.
Fishhook. T. K. Wilson. 2,315,307; Mar. 30.
Fish lure. S. F. Davenport. 2,315,247; Mar. 30.
Fish lure. W. K. Upperman. 2,315,304; Mar. 30.
Fish lure, Weed guarded. J. McArthur. 2,315,440; Mar. 30.
Fishing float. K. C. Croft. 2,315,048; Mar. 30.
Fishing lure. F. D. Sweeney. 2,314,907; Mar. 30.
Fishing tackle. F. Stogermayr. 2,315,295; Mar. 30.
Flashlight lamp. J. A. M. Van Liempt. 2,315,099; Mar. 30.
Flatiron stand. F. E. Wolcott. 2,315,474; Mar. 30.
Flexible hose coupling. W. A. Melsom. 2,314,890; Mar. 30.
Float, Fishing. M. M. Fenley. 2,315,322; Mar. 30.
Floor rack. S. B. Haseltine. 2,315,202; Mar. 30.
Flow device, Differential stage lift. A. Boynton. 2,314,869; Mar. 30.
Flowing device, tubing, and casing flow. A. Boynton. 2,314,868; Mar. 30.
Fluid delivery apparatus. J. Churchward. 2,315,085; Mar. 30.
Fluid pressure regulator. R. C. Hughes. 2,315,370; Mar. 30.
Fluted shank fastener. F. G. Purinton. 2,314,897–8; Mar. 30.
Flytrap. R. Floyd. 2,314,931; Mar. 30.
Focal plane shutter for cameras. A. Simmon. 2,315,279; Mar. 30.
Food treatment and/or storage apparatus. A. R. Dennington. 2,315,285; Mar. 30.
Fork, Roasting. W. R. Thompson. 2,315,143; Mar. 30.
Frame for Cellophane display boxes, Collapsible. N. D. Logan. 2,315,001; Mar. 30.
Frequency bands, Pseudo-extension of. L. A. de Rosa. 2,315,248–9; Mar. 30.
Fruit drying machine. T. G. Cunning. 2,315,246; Mar. 30.
Fruit or vegetable selecting machine. A. Wenz. 2,315,100; Mar. 30.
Fruit pitting chuck. G. W. Ashlock, Jr. 2,314,862; Mar. 30.
Fuel feeding device for internal combustion engines. R. Egli. 2,314,926; Mar. 30.
Fuel system having automatic safety switches, Automatic. D. Samiran. 2,314,900; Mar. 30.
Fuel system including time delayed select valves. D. Samiran. 2,314,899; Mar. 30.
Furfurylamines, Separation of. L. A. Stengel and W. K. O'Loughlin. 2,315,139; Mar. 30.
Furnace: *See*—
Air conditioning furnace. Electric furnace.
Fuse link. C. W. Brown. 2,315,311; Mar. 30.
Game. W. Schiller. 2,315,164; Mar. 30.
Game board. A. H. Di Pasquale. 2,315,088; Mar. 30.
Garment hanger. J. E. McEwen. 2,315,267; Mar. 30.
Garment of the pajamas type. B. M. Schuyler. 2,315,352; Mar. 30.
Gaseous discharge lamp. R. F. Hays, Jr., and A. L. Herman. 2,315,286; Mar. 30.
Gear: *See*—
Convex faced gear.
Generator: *See*—
Square wave generator.
Gin, Cotton. H. E. Thompson. 2,315,140; Mar. 30.
Glass article, High silica. H. P. Hood and M. E. Nordberg. 2,315,328; Mar. 30.
Glass article, Making composite. H. P. Hood and M. E. Nordberg. 2,315,329; Mar. 30.
Glass fibers, Treating. J. F. Hyde. 2,315,259; Mar. 30.
Glove construction. P. A. Chanut. 2,314,922; Mar. 30.
Glycerine from molasses, Manufacture of fermentation. F. M. Hildebrandt. 2,315,423; Mar. 30.
Graphite electrodes, Improving. J. A. M. Mitchell. 2,315,346; Mar. 30.
Guard for punch presses and the like, Safety. J. J. Booth. 2,315,151; Mar. 30.
Gyroscope. G. Z. von Manteuffel and F. Waack. 2,315,167; Mar. 30.
Gyroscopic apparatus. W. Möller and G. Z. von Manteuffel. 2,315,216; Mar. 30.
Gyroscopic apparatus. H. M. Samuelson. 2,315,019; Mar. 30.
Hair retainer for shavers. H. Landsiedel. 2,315,261; Mar. 30.
Hair shaper. A. W. Tischler. 2,315,297; Mar. 30.
Hair waving pad. E. A. Gossaux. 2,314,932; Mar. 30.
Handbag and similar portable enclosure. E. J. Van Iseghem. 2,315,169; Mar. 30.
Hand screed, Vibratory. C. Jackson. 2,314,985; Mar. 30.
Hanger: *See*—
Dress form and hanger. Plate hanger.
Garment hanger.
Harvester cutter bar. N. Sorenson. 2,314,905; Mar. 30.
Harvester-thresher. C. J. Scranton. 2,314,901; Mar. 30.
Hat fastening device. F. Nelkin. 2,315,449; Mar. 30.
Headlight dimmer switch. L. F. Furney. 2,314,930; Mar. 30.
Heat deflector for circulating heaters. H. E. Fenner. 2,315,154; Mar. 30.
Heat exchanger, Plate. W. Astle. 2,314,966; Mar. 30.
Heat power plant. W. Karrer and F. Perrenoud. 2,315,336; Mar. 30.
Heating and deaerating apparatus, Water. V. A. Rohlin and A. E. Kittredge. 2,315,227; Mar. 30.
Heating appliance. W. A. Jones. 2,314,987; Mar. 30.
Heating device. R. A. Bierwirth. 2,314,865; Mar. 30.
Heating device. H. C. Gillespie. 2,314,875; Mar. 30.
High frequency amplifier circuit. A. van der Ziel and K. S. Knol. 2,314,958; Mar. 30.
High speed drive. W. R. Huttinger. 2,315,429; Mar. 30.
High voltage switch. W. R. Huttinger. 2,315,428; Mar. 30.
Highway maintaining device. E. J. Guernsey. 2,314,934; Mar. 30.
Hinged connections, more particularly for binocular optical instruments. P. C. A. Whitechurch. 2,315,030; Mar. 30.
Holder: *See*—
Bottle holder.
Holder for balls and bobbins of strand material. F. O. Sanford. 2,315,275; Mar. 30.
Holder for brushes and the like, Multiposition. C. A. Morgillo. 2,315,269; Mar. 30.
Honing operation by expansion, Controlling. J. E. Kline. 2,315,062; Mar. 30.
Hose coupling. D. S. Rogers. 2,315,225; Mar. 30.
Hose supporter. J. Wratschko. 2,315,237; Mar. 30.
Hydraulic control system for aircraft. R. W. Palmer. 2,315,270; Mar. 30.
Hydrocar or vehicle with water wing wheels. H. S. Svenson. 2,315,027; Mar. 30.
Hydrocarbon fuel burner. O. Fortis. 2,315,482; Mar. 30.
Hydrocarbon liquids, Removing weakly acidic organic substances from. G. W. Ayers, Jr., D. C. Bond, and L. M. Henderson. 2,315,384; Mar. 30.
Hydrocarbons, Catalytic cracking of. G. Egloff. 2,315,192; Mar. 30.
Hydrocarbons, Conversion of. H. Pines and V. N. Ipatieff. 2,315,078; Mar. 30.
Hydrocarbons, Conversion of. J. F. Sturgeon. 2,315,024; Mar. 30.
Hydrocarbons, Treatment of. K. M. Watson. 2,315,144; Mar. 30.

Hydrogen purification. L. R. Hill, G. A. Vincent, and E. W. Howard. 2,315,424; Mar. 30.
Humidifying system. A. J. Papuiski. 2,314,892; Mar. 30.
Implement, Garden. C. A. Olsen. 2,315,074; Mar. 30.
Indicator: *See*—
Call indicator.
Indicator and system, Distance. J. Herson. 2,314,883; Mar. 30.
Indicator gauge construction. D. R. Yarnall. 2,315,238; Mar. 30.
Induction apparatus, Stationary. M. D. Troy. 2,314,912; Mar. 30.
Inductive reactance for welding circuits, Automatic. M. T. Moore. 2,315,159; Mar. 30.
Insulated rail joint and insulation therefor. J. N. Meade. 2,315,444; Mar. 30.
Internal combustion engine. K. Maybach. 2,315,215; Mar. 30.
Internal combustion engine. F. A. Quiroz. 2,315,011; Mar. 30.
Juice extracting machine. M. J. Thomas. 2,315,028; Mar. 30.
Juice extractor and mixer. B. E. Lawrence. 2,315,018; Mar. 30.
Kerf cutting machine. J. F. Joy. 2,315,430; Mar. 30.
Ketones, Production of. A. C. Byrns. 2,315,046; Mar. 30.
Knit goods and yarn therefor, Flat.. I. P. Davis and E. S. Kennedy. 2,314,924; Mar. 30.
Knitting. E. St. Pierre and D. H. Fregeolle. 2,315,165; Mar. 30.
Knitting. W. L. Smith, Jr. 2,315,138; Mar. 30.
Knitting, method and machine for. E. St. Pierre. 2,315,166; Mar. 30.
Label wiping mechanism. C. H. Oslund. 2,315,349; Mar. 30.
Lamp: *See*—
Electric pocket lamp. Gaseous discharge lamp.
Flashlight lamp.
Laundry drier. J. D. Shanman. 2,315,354; Mar. 30.
Lavatory lock. G. R. Adams. 2,315,102; Mar. 30.
Leak sealing composition. J. L. Evans and W. Hall. 2,315,321; Mar. 30.
Lehr conveyor. G. W. Batchell. 2,315,148; Mar. 30.
Light polarizing images, Forming. E. H. Land. 2,315,373; Mar. 30.
Link expansion. C. B. Greenberg. 2,315,417; Mar. 30.
Liquid discharge system. C. H. Lindsay. 2,315,263; Mar. 30.
Liquid purification. W. H. Green. 2,314,977; Mar. 30.
Liquids, Atomizing. J. T. Voorheis. 2,315,172; Mar. 30.
Liquids, Method and apparatus for degasifying. M. K Drewry and M. E. Fitze. 2,315,481; Mar. 30.
Loader. J. N. Fees. 2,315,091; Mar. 30.
Lock: *See*—
Car lock. Lavatory lock.
Locking arrangement in securing skid chains to wheels. J. F. Kane. 2,315,059; Mar. 30.
Loose leaf binder. P. O. Unger. 2,315,303; Mar. 30.
Lubricant stocks, Dewaxing. S. D. Lawson and R. W. Henry. 2,314,994; Mar. 30.
Machine for applying dry transfers of markings. E. E. Ziskind. 2,315,381; Mar. 30.
Machine for sharpening lawn mowers. J. P. Maynard and G. A. Mattson, Jr. 2,314,945; Mar. 30.
Machine for treating furs. S. Deutscher. 2,314,971; Mar. 30.
Machine for uniting layers of material. D. J. Ajoulo and J. L. Moore. 2,315,382; Mar. 30.
Machine providing facilities for batting baseballs and driving golfballs. J. H. Harlow. 2,315,257; Mar. 30.
Magnetic suspension. H. T. Faus. 2,315,408; Mar. 30.
Marker, Property. E. A. Markham. 2,315,158; Mar. 30.
Mat, Field. O. F. Arthur. 2,315,180; Mar. 30.
Matches and toothpicks, Combination of book. G. Maresca and G. Pannone. 2,315,438; Mar. 30.
Material, especially building material, and making same, Heat resistive. V. M. Goldschmidt and K. J. Stenvik. 2,315,198; Mar. 30.
Measuring and dispensing machine. H. L. Rasmussen. 2,315,162; Mar. 30.
Measuring device, Fluid velocity. W. D. Hall. 2,314,877; Mar. 30.
Measuring dispenser. F. E. Wolcott. 2,315,473; Mar. 30.
Metal and material, Coating. H. J. Lodeesen and H. K. Ward 2,314,887; Mar. 30.
Metal detection device. V. W. Breitenstein. 2,315,045; Mar. 30.
Metal structure, Composite. F. R. Hensel and E. I. Larsen. 2,314,882; Mar. 30.
Metal to adhere to metal surfaces, Causing sprayed. A. P. Shepard. 2,314,902; Mar. 30.
Metallurgical apparatus. J. Lohse. 2,315,123; Mar. 30.
Meter: *See*—
Air velocity meter. Drip meter.
Mill: *See*—
Ore mill.
Mill and method, Attrition. I. Chesler. 2,315,083–4; Mar. 30.
Mineral oils, Treating. S. Pilat and M. Godlewicz. 2,315,131; Mar. 30.
Mirror, Rear view. G. W. Lancaster. 2,315,260; Mar. 30.
Mixer: *See*—
Combination mixer. Juice extractor and mixer.
Modulation system, Frequency. M. G. Crosby. 2,315,050; Mar. 30.
Molasses fermentation solutions, Treatment of. F. M. Hildebrandt. 2,315,422; Mar. 30.
Mold construction. H. E. McWane. 2,315,071; Mar. 30.
Mold form, Inside. M. Brosius. 2,315,394; Mar. 30.
Motor. E. W. Logan and J. K. Kostko. 2,314,999; Mar. 30.
Mounting: *See*—
Brush mounting. Resilient mounting.
Mouthpiece, Nonfreezing. F. G. Manson and J. J. Maskey. 2,314,889; Mar. 30.
Moving toy and projector therefor. Q. L. Briggs and R A. Voyls. 2,315,242; Mar. 30.
Muffler. H. E. Van Voorhees. 2,315,305; Mar. 30.
Multicycle straightening, sizing, and polishing machine. W. Siegerist. 2,314,953; Mar. 30.
Multiple-ply structure and making the same. A. A. Gassner. 2,315,324; Mar. 30.
Negative, Dropout half-tone. L. Zukmann. 2,315,101; Mar. 30.
Negative feedback detector. J. W. McRae. 2,315,442; Mar. 30.
Neurological unit. J. R. Newstedt and J. B. Millet. 2,315,160; Mar. 30.
Neutral substances containing oxygen from oils containing such substances, Recovering. R. Bemmann. 2,315,182; Mar. 30.
Nicotine derivatives. A. Burger. 2,315,314; Mar. 30.
Nitriles, Preparing. R. H. Potts and C. W. Christensen. 2,314,894; Mar. 30.
Nonspill vent plug. C. H. King and G. C. Appel. 2,315,431; Mar. 30.
Numbering machine. A. G. Riesenberger. 2,315,081; Mar. 30.
Nut fastening device. G. A. Timmerman. 2,315,359; Mar. 30.
Oil burner and control system, Dual flame. B. L. Galumbeck. 2,315,412; Mar. 30.
Ore mill. C. O. Smith. 2,315,281; Mar. 30.
Organic derivative of cellulose fabric, Ornamental. A. Lyem. 2,315,002; Mar. 30.
Oval cutting machine. A. A. Schwartz. 2,315,479; Mar. 30.
Overspray recovery process. J. G. Meckler. 2,315,125; Mar. 30.
Oxidation and corrosion inhibitor for lubricating oils. J. F. Nelson and R. Rosen. 2,315,072; Mar. 30.
Package. W. H. Fairchild. 2,315,368; Mar. 30.
Package, Quick opening. J. S. Flizikowski. 2,315,116; Mar. 30.
Packet Safety match. D. C. Ford. 2,314,974; Mar. 30.
Pad: *See*—
Hair waving pad.
Paper and manufacture, and laminated products. F. F. Newkirk. 2,315,128; Mar. 30.
Parachute delivery container, Multipurpose. H. Wilson and W. P. Yarborough. 2,314,914; Mar. 30.
Pedal for bicycles, Safety. P. J. and D. R. Yeater. 2,315,380; Mar. 30.
Perforating machine provided with clutch control mechanisms. H. Boothroyd. 2,315,041; Mar. 30.
Perforator for well pipes. J. C. Luccous. 2,315,437; Mar. 30.
Perishables, Preserving. H. H. Robson. 2,315,379; Mar. 30.
Phenol-urea-formaldehyde resins. P. Cuvier. 2,315,087; Mar. 30.
Photographic sound records, Method and apparatus for producing. K. H. F. Schlegel. 2,315,097; Mar. 30.
Photographing apparatus. G. N. Pifer. 2,315,452; Mar. 30.
Pipe: *See*—
Tobacco pipe.
Pipe line cleaner. A. H. Riney and L. J. Weber. 2,315,133; Mar. 30.
Piston. T. S. Park. 2,315,012; Mar. 30.
Piston, Composite. H. H. Dillon. 2,315,403; Mar. 30.
Piston ring. A. O. Olsen. 2,315,218; Mar. 30.
Planter. O. E. Hoile. 2,315,204; Mar. 30.
Plants, Promoting restoration of transplanted. A. C. Fischer. 2,314,928; Mar. 30.
Plastic containers, Producing. F. A. Parkhurst. 2,315,478; Mar. 30.
Plastic substances and the products thereof, Making. H. S. Polin. 2,315,005; Mar. 30.
Plate hanger. B. D. Oliphant. 2,315,268; Mar. 30.
Playing card case. D. Platkin. 2,315,136; Mar. 30.
Plug: *See*—
Nonspill vent plug.
Plug cock for handling powdered materials. P. H. Holt, 2nd and H. G. Codet. 2,315,058; Mar. 30.
Plumbing fixture. E. A. Pope. 2,314,950; Mar. 30.
Polyazoic dyestuff, Manufacture of. P. Petitcolas and R. F. M. Sureau. 2,315,220; Mar. 30.
Polymeric compounds, Production of. H. Dreyfus. 2,314,972; Mar. 30.
Polymerization of unsaturated compounds having the cyclopentadiene nucleus. F. J. Soday. 2,314,903–4; Mar. 30.

Polymerization of unsaturated compounds having the cyclopentadiene nucleus. S. G. Trepp. 2,314,908–11; Mar. 30.
Polymers, Manufacture of viscous. J. A. Reid. 2,315,080; Mar. 30.
Pouncing machine. P. Schultze. 2,315,276; Mar. 30.
Powdered material, Conveying. E. D. Reeves. 2,315,079; Mar. 30.
Powdered soap dispenser. C. W. Wehe. 2,314,959; Mar. 30.
Power system, Protective. M. J. Baldwin. 2,315,386; Mar. 30.
Preparing alkylated hydrocarbons from normal paraffinic hydrocarbons. A. R. Goldsby and K. Korpi. 2,315,197; Mar. 30.
Press for cutting sheet metal. C. J. Rhodes. 2,315,454; Mar. 30.
Pressure apparatus. E. Orshansky, Jr. 2,315,076; Mar. 30.
Pressure element, Radiosonde. B. R. Shaw. 2,315,137; Mar. 30.
Pressure retaining device. F. H. Bunnell. 2,314,921; Mar. 30.
Projectile. W. T. Moore. 2,314,891; Mar. 30.
Projectiles, Vaned. J. Wauters. 2,315,145; Mar. 30.
Propeller, Variable pitch. E. Linehan. 2,315,213; Mar. 30.
Protective composition of matter for users of X-rays. E. O. King. 2,315,061; Mar. 30.
Protective device. T. W. Collier. 2,315,245; Mar. 30.
Protective system. A. R. van C. Warrington. 2,315,468–71; Mar. 30.
Protector: *See*—
Bomb lug protector.
Protein-modified aminotriazine-formaldehyde condensation products. G. F. D'Alelio. 2,315,402; Mar. 30.
Pumping of liquids. S. S. Allender. 2,315,179; Mar. 30.
Punch. A. W. Knudsen. 2,315,340; Mar. 30.
Punch press. F. H. Leslie. 2,314,886; Mar. 30.
Punching and cutting machine. O. P. Haegele and O. Wack. 2,315,256; Mar. 30.
Rack: *See*—
Floor rack.
Radial fastener setting machine. A. R. Havener. 2,315,258; Mar. 30.
Radio apparatus. W. E. Cairnes. 2,315,315; Mar. 30.
Radiosonde box. B. R. Shaw. 2,315,353; Mar. 30.
Radiosonde humidity element. B. R. Shaw. 2,315,277; Mar. 30.
Radio tuner, Push-button, multirange. A. Horowitz and J. Timmerman. 2,315,331; Mar. 30.
Rail car. F. M. Gunn. 2,314,979; Mar. 30.
Railway traffic controlling apparatus. E. M. Allen. 2,315,034; Mar. 30.
Railway traffic controlling apparatus. G. W. Baughman. 2,315,038; Mar. 30.
Rake and manufacture thereof, Lawn. E. L. Schmidt and J. L. Schwabe, Jr. 2,315,021; Mar. 30.
Razor, Mechanical. J. H. Rand, Jr. 2,315,274; Mar. 30.
Receptacle: *See*—
Sanitary milking receptacle.
Recording apparatus, Facsimile. R. J. Wise and G. H. Ridings. 2,315,362; Mar. 30.
Rectifying column. G. Eberhardt. 2,315,190; Mar. 30
Refining process, Coffee oil. H. S. Polin, A. I. Nerken, and H. Wettingfeld, Jr. 2,314,893; Mar. 30.
Reflecting surfaces, Process and composition for the preparation of. P. F. Tryon. 2,315,141; Mar. 30.
Refractory setter. L. Brown. 2,315,395; Mar. 30.
Refrigerating apparatus. L. A. Philipp. 2,315,221–2; Mar. 30.
Refrigerating machine. C. H. Steenstrup. 2,315,460; Mar. 30.
Refrigeration. C. C. Coons. 2,315,364; Mar. 30.
Refrigeration. A. D. Siedle. 2,315,356; Mar. 30.
Refrigerator door fastener. D. Katz. 2,315,337; Mar. 30.
Regulated rectifier circuit. L. E. Milarta. 2,315,445; Mar. 30.
Regulating apparatus. O. Scharpf. 2,314,952; Mar. 30.
Regulator: *See*—
Fluid pressure regulator.
Relay. E. A. Leach. 2,314,885; Mar. 30.
Relay, Gang. N. H. Saunders and N. A. Judsen. 2,315,020; Mar. 30.
Resilient mounting. J. Clark. 2,315,398; Mar. 30.
Resinous composition. G. F. D'Alello. 2,315,400; Mar. 30.
Resins, Casting of phenolic. E. L. Kropa. 2,315,432; Mar. 30.
Resistance thermometer. W. D. Mounce. 2,315,127; Mar. 30.
Respirator. R. L. Slater. 2,314,955; Mar. 30.
Retainer, Embankment. F. Schaefer. 2,315,351; Mar. 30.
Reticulated mat assembly. H. and L. Nagin. 2,315,448; Mar. 30.
Reversing switch. H. M. Evjen. 2,314,874; Mar. 30.
Ring: *See*—
Coiled spring piston ring. Piston ring.
Rod: *See*—
Welding rod.
Rod adjuster, Pump pull. S. Bullum. 2,315,152; Mar. 30.
Rolling attachment for motor vehicles. J. Butler. 2,315,397; Mar. 30.
Rotary excavator. L. G. Morse, A. R. Hill, and C. C. Morse. 2,315,007; Mar. 30.
Rubber to cotton, Improving the adhesion of. E. T. Lessig and I. Gazdik. 2,314,996; Mar. 30.
Rubber to cotton, Improving the adhesion of. E. T. Lessig and H. P. Headley. 2,314,997; Mar. 30.
Sanitary milking receptacle. G. Gilbert. 2,315,415; Mar. 30.
Scoop scraper, Plural. R. Q. and S. F. Armington. 2,315,363; Mar. 30.
Scraper. H. C. French. 2,315,092; Mar. 30.
Scraper. J. H. and E. K. McKean. 2,315,069; Mar. 30.
Screen. R. D. Heller 2,314,878–80; Mar. 30.
Screen cloth. R. D. Heller. 2,315,055; Mar. 30.
Screen printing, Silk. H. A. Weiller. 2,314,913; Mar. 30.
Screw clamp. G. B. Bosco. 2,314,866; Mar. 30.
Sealing apparatus. C. A. Flood. 2,315,411; Mar. 30.
Selective machine. J. Fostos. 2,315,323; Mar. 30.
Separator: *See*—
Centrifugal separator. Cream separator.
Separator for liquids having different specific gravities. H. A. Thompson. 2,315,017; Mar. 30.
Sewing machine presser foot. B. Antonelli. 2,314,861; Mar. 30.
Shaped bodies from iron powders, Manufacturing. R. U. Volterra. 2,315,302; Mar. 30.
Sheave or pulley, particularly adapted for looms. C. Van Deventer, III, and J. Deans. 2,315,301; Mar. 30.
Sheet sorting table. O. E. Martin, J. W. Pick, and E. Reed. 2,315,003; Mar. 30.
Shelf, especially for refrigerators. R. L. Hallock. 2,315,053; Mar. 30.
Shield for bench grinders, Safety. C. Powers. 2,315,132; Mar. 30.
Shoe. T. O. Johnsen. 2,315,334; Mar. 30.
Signal translating device. J. R. Haynes. 2,314,938; Mar. 30.
Signaling system. J. E. Ostline. 2,315,010; Mar. 30.
Signals, Method and means for transmitting frequency modulated. E. H. Armstrong. 2,315,308; Mar. 30.
Sink, Hair washing. F. H. Ellinger. 2,315,153; Mar. 30.
Skate stop. A. Lieberman. 2,315,342; Mar. 30.
Ski rigging for aircraft. H. A. Simpson and A. E. Larsen. 2,315,098; Mar. 30.
Skin clamp. H. Ives and P. W. Buerkle. 2,315,333; Mar. 30.
Solder pellet caster device. R. G. Humphrey. 2,315,426; Mar. 30.
Solutizer solutions, Reconditioning used. L. E. Border. 2,315,480; Mar. 30.
Solvent treating process. A. Holmes and H. J. Hibshman. 2,315,057; Mar. 30.
Sorting table. J. S. Pecker and H. A. Simpson. 2,315,013; Mar. 30.
Sound attachment device for motion picture machines. E. Bortnick. 2,315,309; Mar. 30.
Speed transmission, Variable. A. M. Madlé. 2,315,067; Mar. 30.
Spindle, Inclinable grinder. W. G. Baldenhofer. 2,315,104; Mar. 30.
Spout, Detachable. C. A. Ellers. 2,315,250; Mar. 30.
Spraying device. J. H. Homrighous. 2,315,120; Mar. 30.
Spraying, dusting, and frost preventing device. W. Sanderson, J. Amelung, and M. Walther. 2,315,096; Mar. 30.
Spring structure. W. A. Clark and V. Asaro. 2,314,923; Mar. 30.
Square. W. B. Painter. 2,315,004; Mar. 30.
Square wave generator. R. D. Hutchens. 2,315,374; Mar. 30.
Stand: *See*—
Flatiron stand.
Steam, Method of and apparatus for washing. V. A. Rohlin. 2,315,226; Mar. 30.
Steel, Low-alloy corrosion-resistant. C. P. Larrabee. 2,315,156; Mar. 30.
Strip, Step shimming. R. R. Ward. 2,315,360; Mar. 30.
Sucker rod coupling. A. Germany. 2,315,414; Mar. 30.
Support: *See*—
Tank support.
Support and corrosion inhibitor, Combined wire, V. Cronstedt. 2,315,049; Mar. 30.
Supporting hood for inlet and manhole covers. C. H. Weller. 2,315,236; Mar. 30.
Surgical instrument. J. Gmeiner. 2,315,326; Mar. 30.
Switch: *See*—
Electric switch. High voltage switch.
Headlight dimmer switch. Reversing switch.
Switch point protecting means, Safety. T. O. Bussler. 2,315,243; Mar. 30.
Switching device, Low voltage self-sustaining remote control. C. L. Stutsman and L. C. Vance. 2,315,231; Mar. 30.
Table: *See*—
Sheet sorting table. Tensioned top ironing table.
Sorting table.
Tank: *See*—
Wash tank.
Tank support. E. W. Pittman. 2,315,453; Mar. 30.
Tape, Measuring. E. J. Witchger. 2,314,915; Mar. 30.

Telegraph breaking system. F. H. Hanley. 2,315,419; Mar. 30.
Telegraph orienting device. P. A. Noxon. 2,315,009; Mar. 30.
Telegraphy, System and apparatus for facsimile. R. J. Wise, L. G. Stewart, and R. D. Parrott. 2,315,361; Mar. 30.
Telephone line circuit. M. E. Griffins. 2,314,933; Mar. 30.
Telephone system. F. Kessler. 2,314,990; Mar. 30.
Telephone system. M. A. Logan. 2,315,000; Mar. 30.
Telephone system. H. N. Newstedt. 2,315,008; Mar. 30.
Telephone system. S. B. Williams. 2,314,961; Mar. 30.
Telephone system, Automatic. W. T. Powell. 2,315,378; Mar. 30.
Teletypewriter selection system. E. O. Gammell. 2,315,413; Mar. 30.
Teletypewriter system. J. L. Maxwell and E. R. Shimmin. 2,315,439; Mar. 30.
Television and facsimile system, Multiplex. R. W. Bumstead. 2,314,920; Mar. 30.
Television images, Method of and apparatus for. G. W. Willard. 2,314,960; Mar. 30.
Television projection system. P. T. Farnsworth. 2,315,113; Mar. 30.
Television signals, Apparatus for and method of generating. W. A. Knoop. 2,315,288; Mar. 30.
Television signals, Apparatus for and method of generating. C. F. Mattke. 2,315,290–1; Mar. 30.
Television system. A. V. Bedford. 2,315,388; Mar. 30.
Television system. D. E. Foster. 2,315,369; Mar. 30.
Templet carrier for articulators. J. C. King. 2,315,338; Mar. 30.
Tensioned top ironing table. H. B. Fay. 2,315,193. Mar. 30.
Testing machine. G. C. Holloway, by J. G. Holloway, and F. T. May. 2,315,287; Mar. 30.
Textile materials and the material thus obtained, Process of impregnating. H. Bestian and G. von Finck. 2,314,968; Mar. 30.
Textile printing apparatus. S. B. Stafford. 2,315,459; Mar. 30.
Textile treating process. J. B. Rust. 2,315,135; Mar. 30.
Textiles, Treating. C. F. Dulken. 2,315,405; Mar. 30.
Thermal timer for automatic toasters. J. R. Gomersall. 2,315,327; Mar. 30.
Thermograph, Portable. M. B. de Bengoa. 2,314,925; Mar. 30.
Thermoplastic materials and resulting product, Treating. D. O. Ford. 2,314,975; Mar. 30.
Thermosetting aminotriazine-formaldehyde condensation product. G. F. D'Alelio. 2,315,401; Mar. 30.
Thread cutter for looms. C. R. Kronoff and A. Palmer. 2,315,341; Mar. 30.
Thread tensioning mechanism. E. W. Howe and K. E. Wilhelm. 2,315,332; Mar. 30.
Thread tensioning mechanism. K. E. Wilhelm. 2,315,306; Mar. 30.
Threshing machine. P. P. Baker. 2,315,385; Mar. 30.
Time control apparatus. G. D. Stahl. 2,314,906; Mar. 30.
Tobacco pipe. J. T. Howdle. 2,314,982; Mar. 30.
Tobacco, tea, or like leaf cutting machine. H. W. Langrish. 2,314,993; Mar. 30.
Toilet kit, Belt-supported. B. S. Rhodes. 2,315,095; Mar. 30.
Tool: *See*—
Fastener applying tool.
Tool holder for cartons. H. E. Rue. 2,315,015; Mar. 30.
Tooth powder dispenser. J. Campbell, Jr. 2,315,244; Mar. 30.
Toy submarine. F. E. Thomas. 2,315,461; Mar. 30.
Transmission faults, Method and apparatus for locating. J. F. Andrews. 2,315,383; Mar. 30.
Transmission faults, Method of and apparatus for locating. H. Nyquist. 2,315,450; Mar. 30.
Transmission system. F. A. Leibe. 2,315,434–5; Mar. 30.
Transmitter, Call. R. F. Mallina. 2,315,344; Mar. 30.
Transmitting or receiving device comprising a dipole antenna. A. Van Weel. 2,315,170; Mar. 30.
Tray, Serving. R. P. Gutterman. 2,314,935; Mar. 30.
Truck. R. B. Cottrell. 2,315,047; Mar. 30.
Tube: *See*—
Cathode-ray tube.
Tube and mount, Single use. M. K. Dresden. 2,315,319; Mar. 30.
Tubular bodies, Manufacture of. C. Obiglio. 2,315,217; Mar. 30.
Tubular container. E. Schulz. 2,315,228; Mar. 30.
Typographical slug casting machine. W. J. Turenne. 2,315,234; Mar. 30.
Unit, Adjusting. F. M. Salisbury and R. H. Dufort. 2,315,483; Mar. 30.
Utensil, Enameled cooking. R. S. Cobb and W. B. Moore. 2,315,475; Mar. 30.
Vacuum tube apparatus. J. W. Skehan and G. J. Agule. 2,315,280; Mar. 30.
Valve: *See*—
Adjustable characteristic Automatic air vent valve.
control valve.
Valve control. R. C. Benson and N. H. Mageoch. 2,315,389; Mar. 30.
Valve means. E. L. Wiegand. 2,315,031; Mar. 30.
Vibrator attachment for washing machines. E. C. Heard. 2,314,981; Mar. 30.
Viscosimeter. W. T. Knauth. 2,314,991; Mar. 30.
Vise, Universal drill. L. H. Deubler, Jr. 2,315,318; Mar. 30.
Washbasin. J. K. Tully and B. E. Jones. 2,315,233; Mar. 30.
Wash tank. H. A. Dohrmann. 2,315,089; Mar. 30.
Water of swimming pools at a substantially uniform temperature, Maintaining the. E. W. N. Boosey. 2,315,184; Mar. 30.
Water, oil, or other liquid cooler. G. E. Dono. 2,315,404; Mar. 30.
Water-repellent surfacing for cement. R. G. Wetton. 2,315,029; Mar. 30.
Water softener. A. L. Riche. 2,315,223; Mar. 30.
Wax, Treating slack. R. F. Pfennig and C. R. Davis. 2,315,077; Mar. 30.
Weather stripping. A. A. Guillaume. 2,315,200; Mar. 30.
Weighing machine with digit indication of weighing value. A. J. Baage. 2,315,181; Mar. 30.
Welding rod. J. J. Vetter. 2,315,466; Mar. 30.
Well control head. E. J. Roach and E. F. Cooke. 2,315,134; Mar. 30.
Well surveying method and apparatus. S. A. Scherbatskey. 2,315,355; Mar. 30.
Wheel: *See*—
Adjustable sprocket wheel. Double inlet blower wheel.
Wheel locking assembly, Automobile. H. S. Jandus. 2,315,206; Mar. 30.
Window and operating means therefor. H. Coleman. 2,314,970; Mar. 30.
Window pane, Antiglare. K. G. Anderson. 2,315,103; Mar. 30.
Window, Storm. H. H. Goldberg. 2,314,992; Mar. 30.
Wiper arm connection. A. Rappl. 2,315,350; Mar. 30.
Wiper for bowling balls, Finger grip. W. E. Heber. 2,315,054; Mar. 30.
Wire feeder for nail machines. C. R. Chism. 2,315,108; Mar. 30.
Wire producing mechanism. J. Cook. 2,315,189; Mar. 30.
Wood products, Preparing. F. W. Kressman. 2,315,372; Mar. 30.
Work guide for saw tables. G. J. Sellmeyer. 2,315,458; Mar. 30.
Wringer, Constant pressure. L. F. Hammand. 2,314,980; Mar. 30.
Wringer with upsweep reset handle. N. L. Etten. 2,314,973; Mar. 30.
X-ray machine. E. J. Bliss. 2,315,149; Mar. 30.

CLASSIFICATION OF PATENTS

ISSUED MARCH 30, 1943

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

1— 13.6: 2,315,427
29: 2,315,382
2— 70: 2,315,352
94: 2,315,416
159: 2,314,922
4— 142: 2,315,390
159: 2,315,153
169: 2,315,233
5— 47: 2,314,864
337: 2,315,391
8— 115: 2,315,002
116: 2,314,968
9— 26: 2,315,155
13— 6: 2,314,956
19: 2,315,346
15—104.06: 2,315,133
105: 2,315,325
210: 2,315,054
16— 80: 2,315,106
125: 2,315,457
18— 8: 2,315,265
12: 2,315,477
41: 2,315,283
2,315,310
42: 2,315,394
47: 2,315,465
53: 2,315,366
54: 2,315,224
55: 2,315,478
55.1: 2,314,957
19— 56: 2,315,140
155: 2,314,944
20— 27: 2,315,365
69: 2,315,200
22— 57: 2,315,426
136: 2,315,071
23— 66: 2,315,472
127: 2,315,188
178: 2,314,936
193: 2,315,201
230: 2,315,111
288: 2,315,208
24— 73: 2,315,161
101: 2,314,897
2,314,898
221: 2,315,335
245: 2,315,237
25— 131: 2,314,866
153: 2,315,395
29— 84: 2,314,921
148.4: 2,315,357
149.5: 2,315,006
164: 2,314,978
30— 41: 2,315,261
43: 2,315,274
53: 2,315,297
31— 51: 2,315,415
32— 27: 2,315,016
32: 2,315,338
33— 112: 2,315,004
137: 2,314,915
222: 2,315,176
34— 82: 2,315,354
95: 2,315,246
240: 2,315,124
35— 16: 2,315,463
44: 2,315,316
36— 1: 2,315,342
11: 2,315,334
37— 43: 2,315,007
126: 2,315,092
127: 2,315,363
180: 2,314,888
38— 137: 2,315,193
40— 126: 2,315,240
41— 1: 2,315,381
42— 76: 2,315,207
43— 27: 2,315,307
28: 2,315,295
43— 39: 2,315,440
42: 2,315,304
46: 2,314,907
2,315,247
49: 2,315,048
2,315,322
66: 2,315,345
118: 2,314,931
46— 37: 2,315,056
81: 2,315,242
94: 2,315,461
47— 2: 2,315,096
58: 2,314,928
49— 47: 2,315,148
66: 2,315,292
79: 2,315,329
50— 26: 2,315,370
51— 48: 2,314,945
98: 2,315,090
106: 2,315,104
184.3: 2,315,062
272: 2,315,132
53— 5: 2,315,143
8: 2,315,475
10: 2,314,872
56— 300: 2,314,905
400.17: 2,315,021
57— 140: 2,314,924
59— 79: 2,315,417
60— 44: 2,315,336
54.5: 2,315,270
97: 2,315,273
61— 35: 2,315,351
47: 2,315,441
62— 1: 2,315,230
2,315,425
2: 2,315,460
4: 2,315,212
5: 2,315,364
6: 2,315,379
89: 2,315,285
103: 2,315,221
2,315,222
119.5: 2,315,356
175.5: 2,315,424
65— 53: 2,314,935
66— 41: 2,315,138
2,315,165
2,315,166
172: 2,315,119
67— 31: 2,315,099
68— 189: 2,314,962
259: 2,314,980
263: 2,314,973
70— 172: 2,315,206
232: 2,315,245
432: 2,315,102
72— 38: 2,315,418
44: 2,315,194
128: 2,314,927
73— 151: 2,315,353
202: 2,315,185
204: 2,314,877
208: 2,315,238
362: 2,315,127
368: 2,314,925
74— 5: 2,315,167
2,315,216
27: 2,315,142
40: 2,315,114
44: 2,315,389
219: 2,315,317
230.1: 2,315,301
243: 2,314,969
281: 2,315,067
389.5: 2,315,299
410: 2,315,409
441: 2,315,343
462: 2,315,068
74— 586: 2,315,152
594.4: 2,315,380
75— 2: 2,315,187
22: 2,315,302
125: 2,315,156
77— 62: 2,315,318
78— 49: 2,315,258
81— 3: 2,315,209
82— 34: 2,315,393
83— 9: 2,315,229
2,315,281
46: 2,315,083
2,315,084
85— 5: 2,315,211
2,315,333
36: 2,315,210
2,315,359
88— 1: 2,315,103
14: 2,315,282
24: 2,315,066
2,315,452
29: 2,315,373
34: 2,315,030
43: 2,315,115
98: 2,315,260
90— 9: 2,315,147
15: 2,315,479
28.1: 2,315,476
60: 2,315,433
91— 59.2: 2,315,150
93— 94: 2,315,217
94— 13: 2,315,180
2,315,448
34: 2,315,236
44: 2,314,934
45: 2,314,985
50: 2,315,397
95— 2: 2,315,284
5: 2,315,101
57: 2,315,279
97— 65: 2,315,074
98— 40: 2,315,154
99— 163: 2,314,988
180: 2,315,164
101— 88: 2,315,081
128.4: 2,314,913
132: 2,315,175
232: 2,315,459
102— 1: 2,314,942
49: 2,315,145
76: 2,314,891
103— 173: 2,150,076
224: 2,315,179
105— 15: 2,315,118
96.1: 2,315,065
197: 2,315,047
375: 2,315,202
401: 2,314,979
106— 33: 2,315,321
60: 2,315,198
154: 2,315,005
243: 2,315,029
287: 2,315,125
111— 86: 2,315,204
112— 235: 2,314,861
113— 111: 2,314,950
112: 2,315,294
115— 19: 2,315,027
116— 129: 2,315,181
117— 7: 2,314,996
35: 2,315,141
37: 2,315,411
49: Re. 22,236
50: 2,314,902
118: 2,314,975
124: 2,315,328
126: 2,315,259
167: 2,315,135
119— 122: 2,314,941
121— 63: 2,315,214
122— 122: 2,315,451
396: 2,315,447
459: 2,315,226
123— 52: 2,315,215
68: 2,315,011
139: 2,314,900
171: 2,315,462
198: 2,315,049
126— 99: 2,314,987
110: 2,315,070
128— 2: 2,315,160
30: 2,314,955
63: 2,314,981
146: 2,314,889
340: 2,315,326
129— 13: 2,315,303
130— 24: 2,315,385
27: 2,314,901
131— 176: 2,314,982
132— 36.2: 2,314,932
61: 2,315,449
137— 21: 2,315,031
69: 2,314,905
2,314,983
78: 2,315,044
111: 2,314,868
2,314,869
122: 2,314,963
139: 2,315,431
144: 2,314,926
158: 2,315,019
303: 2,315,341
140— 130: 2,315,108
143— 169: 2,315,458
146— 3: 2,315,018
19: 2,314,862
76: 2,315,028
108: 2,314,993
184: 2,314,871
148— 6: 2,314,887
149— 24: 2,314,971
150— 36: 2,315,293
39: 2,315,136
152— 237: 2,315,059
2,315,060
153— 60: 2,314,953
154— 2: 2,314,976
2,314,997
2,314,998
19: 2,314,964
40: 2,314,876
50: 2,315,128
155— 179: 2,314,923
158— 36: 2,314,899
73: 2,315,482
76: 2,315,412
160— 39: 2,315,033
161— 1: 2,315,266
164— 0.4: 2,315,437
15: 2,315,256
87: 2,315,454
90: 2,315,340
91: 2,314,886
105: 2,315,041
166— 18: 2,315,069
167— 38.6: 2,315,064
169— 31: 2,315,263
170— 163: 2,315,213
171— 97: 2,314,930
119: 2,315,093
2,315,264
242: 2,315,159
324: 2,315,177
327: 2,315,392
172— 36: 2,314,999
179: 2,315,386
239: 2,314,906
2,314,937
172— 245: 2,315,377
173— 259: 2,315,399
174— 14: 2,315,039
43: 2,315,082
84: 2,314,884
175— 41: 2,315,199
41.5: 2,315,330
182: 2,314,873
183: 2,315,383
2,315,450
294: 2,315,468
2,315,469
2,315,470
2,315,471
320: 2,315,191
356: 2,314,912
363: 2,315,445
373: 2,315,374
375: 2,315,231
176— 122: 2,315,286
177— 311: 2,315,045
2,315,420
337: 2,315,456
178— 2: 2,315,413
2,315,419
2,315,439
6: 2,314,960
6.6: 2,315,348
2,315,361
182— 56: 2,315,305
183— 2.5: 2,315,227
2,315,481
2,315,482
60: 2,315,278
77: 2,314,986
188— 153: 2,315,241
189— 64: 2,314,992
72: 2,314,970
92: 2,315,339
190— 43: 2,315,126
192— 9: 2,315,298
58: 2,315,130
68: 2,314,948
134: 2,315,151
194— 100: 2,315,174
196— 10: 2,315,080
2,315,129
196— 10: 2,315,197
13: 2,315,057
2,315,131
18: 2,314,994
21: 2,315,077
24: 2,315,144
32: 2,314,919
2,315,384
48: 2,315,192
52: 2,315,024
94: 2,315,122
198— 9: 2,315,091
219: 2,315,205
199— 56: 2,315,234
200— 23: 2,314,874
48: 2,315,428
65: 2,315,202
67: 2,314,905
2,315,035
83: 2,315,137
98: 2,315,020
104: 2,314,885
106: 2,315,429
115: 2,315,320
135: 2,315,311
137: 2,314,989
142: 2,314,863
201— 48: 2,315,277
202— 42: 2,315,139
57: 2,315,423
74: 2,315,422
204— 190: 2,315,051
213: 2,315,272
247: 2,315,443
206— 29: 2,314,974
2,315,438
44: 2,315,001
46: 2,314,951
47: 2,315,015
75: 2,314,943
80: 2,315,319
209— 3: 2,315,372
111: 2,315,287
121: 2,315,100
122: 2,315,013
127: 2,314,939
2,314,940
400: 2,314,878
2,314,880
2,315,055
403: 2,314,879
210— 11: 2,315,184
16: 2,314,977
24: 2,315,223
51.5: 2,315,178
54: 2,315,017
69: 2,315,036
128: 2,315,252
2,315,253
129: 2,315,254
164: 2,315,109
211— 128: 2,315,271
153: 2,315,053
213— 8: 2,314,954
214— 11: 2,315,003
2,315,075
18: 2,315,022
216— 54: 2,315,349
219— 4: 2,314,882
8: 2,314,917
2,315,466
10: 2,315,358
13: 2,314,865
2,314,875
19: 2,315,327
21: 2,315,121
220— 18: 2,315,453
26: 2,315,023
35: 2,315,089

220— 67: 2,315,228
221— 23: 2,315,250
62: 2,315,376
67: 2,315,085
103: 2,315,162
107: 2,315,244
114: 2,314,959
116: 2,315,473
223— 20: 2,315,276
71: 2,315,371
95: 2,315,267
224— 5: 2,315,095
29: 2,315,387
226— 83: 2,314,918
97: 2,315,255
229— 5.7: 2,315,014
14: 2,315,094
27: 2,315,368
28: 2,314,896
31: 2,314,895
49: 2,315,105
51: 2,315,116
59: 2,315,186
230— 134: 2,315,407
248: 2,315,235
232— 4: 2,315,086
235— 130: 2,315,464
236— 44: 2,314,892
82: 2,314,952
238— 155: 2,315,444
240— 6.45: 2,315,169
10.66: 2,315,025
54: 2,315,026
242— 3: 2,315,306
2,315,332
13: 2,315,300
136: 2,315,275
244— 83: 2,315,110
87: 2,315,483
102: 2,315,068
118: 2,315,117
119: 2,314,949
123: 2,315,324
137: 2,314,914
138: 2,314,881
246— 22: 2,315,038
134: 2,315,034
219: 2,315,032
448: 2,315,243
248— 21: 2,315,398
30: 2,315,268
110: 2,315,269
248—117.2: 2,315,474
317: 2,315,146
361: 2,315,196
250— 1: 2,314,883
6: 2,315,050
14: 2,315,315
17: 2,315,308
20: 2,315,173
27: 2,315,073
2,315,367
2,315,442
27.5: 2,315,289
33: 2,315,170
40: 2,315,331
50: 2,315,149
108: 2,315,061
148: 2,315,280
251— 101: 2,315,058
132: 2,315,171
252— 8.7: 2,315,405
48: 2,315,072
52: 2,315,063
163: 2,315,410
192: 2,315,480
254— 187: 2,315,157
255— 1.4: 2,315,355
255— 72: 2,314,947
257— 130: 2,315,404
245: 2,314,966
259— 47: 2,315,163
105: 2,315,251
260— 6: 2,315,402
16: 2,315,347
42: 2,315,401
45: 2,315,087
2,315,400
58: 2,305,432
78: 2,314,972
92.6: 2,314,903
2,314,904
2,314,908
2,314,909
2,314,910
2,314,911
94: 2,315,037
124: Re.22,295
157: 2,315,220
178: 2,315,232
227: 2,315,203
291: 2,315,314
322: 2,315,195
344: 2,314,946
260— 407: 2,314,893
464: 2,314,894
481: 2,315,375
484: 2,315,168
505: 2,314,929
593: 2,315,046
2,315,182
666: 2,315,078
683.3: 2,315,107
261— 19: 2,314,984
26: 2,315,052
41: 2,315,183
114: 2,315,190
262— 28: 2,315,430
265— 11: 2,314,991
266— 3: 2,315,189
18: 2,315,123
271— 2.4: 2,315,446
273— 33: 2,315,257
135: 2,315,088
144: 2,315,323
280—33.17: 2,314,870
281— 33: 2,315,396
285— 22: 2,315,134
81: 2,315,225
84: 2,314,890
285— 146: 2,314,867
210: 2,315,112
286— 6 2,315,455
287—52.02: 2,315,350
104: 2,315,414
292— 47: 2,315,239
74: 2,315,337
251: 2,314,967
299— 88: 2,315,120
120: 2,315,172
302— 50: 2,315,079
305— 9: 2,315,421
308— 1: 2,315,408
121: 2,315,467
309— 4: 2,315,012
14: 2,315,403
30: 2,315,219
46: 2,315,218
311— 107: 2,315,360
312— 29: 2,315,436
100: 2,315,158

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

2,314,886: 164— 91
2,314,896: 229— 28
2,314,902: 117— 50
2,314,903: 260— 92.6
2,314,904: 260— 92.6
2,314,908: 260— 92.6
2,314,909: 260— 92.6
2,314,910: 260— 92.6
2,314,911: 260— 92.6
2,314,913: 101—128.4
2,314,931: 43— 118
2,314,944: 19— 155
2,314,951: 206— 46
2,314,965: 137— 69
2,314,968: 8— 116
2,314,975: 117— 118
2,315,016: 32— 27
2,315,019: 137— 158
2,315,036: 210— 69
2,315,031: 137— 21
2,315,052: 261— 26
2,315,056: 46— 37
2,315,070: 126— 110
2,315,089: 220— 35
2,315,146: 248— 317
2,315,158: 312— 100
2,315,164: 99— 180
2,315,180: 94— 13
2,315,198: 106— 60
2,315,228: 220— 67
2,315,254: 210— 129
2,315,261: 30— 41
2,315,278: 183— 60
2,315,328: 117— 124
2,315,342: 36— 1
2,315,355: 255— 1.4
2,315,359: 85— 36
2,315,364: 62— 5
2,315,365: 20— 27
2,315,366: 18— 53
2,315,382: 1— 29
2,315,410: 252— 163
2,315,411: 117— 37
2,315,448: 94— 13
2,315,459: 101— 232
2,315,460: 62— 2
2,315,467: 308— 121
2,315,480: 252— 192

U. S. GOVERNMENT PRINTING OFFICE: 1943

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE EFFERVESCENT PRODUCTS, INC.

No. 4,650. Decided December 1, 1942

[— F.(2d) —]

1. TRADE-MARKS—DESCRIPTIVENESS.
The word "Acetyl" in applicant's trade-mark "Acetyl-Vess" *Held* descriptive for the reason that when said word is applied to a product such as applicant's alkaline effervescent tablets having an analgesic-antipyretic action, it indicates that in the product there are properties which are characteristic of compounds containing the radical CH_3CO.

2. SAME—DISCLAIMER.
"The mark of appellant unquestionably contains a descriptive word coupled with a fanciful expression. It is a composite mark. It is well-settled law • • • that in composite marks such as involved herein the Patent Office may and should require disclaimer of that portion of the mark which is descriptive."

3. SAME—"ACETYL-VESS."
Trade-mark "Acetyl-Vess," applied to alkaline effervescent tablets having an analgesic-antipyretic action *Held* properly refused registration under the Trade-Mark Act of 1905 in the absence of a disclaimer of the descriptive word "Acetyl."

APPEAL from the Patent Office. Affirmed.

Mr. Edward S. Rogers, Mr. William T. Woodson, Mr. James H. Rogers and *Mr. Thomas L. Mead, Jr.*, for Effervescent Products, Inc.

Mr. W. W. Cochran for the Commissioner of Patents.

JACKSON, *J.*:

Appellant filed its application for registration of the mark "Acetyl-Vess" as applied to alkaline effervescent tablets having an analgesic-antipyretic action, in Class 6, Chemicals, Medicines, and Pharmaceutical Preparations.

The Examiner of Trade-Marks refused registration until the word "Acetyl" was disclaimed. The Examiner held that word to be descriptive and believed it to be common property. Upon appeal the Commissioner of Patents affirmed the decision of the Examiner of Trade-Marks.

The Examiner based his decision upon definitions in Webster's New International Dictionary as follows:

(1) "Acetyl, The radical, CH_3CO, of acetic acid."
(2) "Acetyl-, A combining form of *acetyl*."

and also instanced the use of the said word as a combining form in many other chemical expressions among which are acetyl-bromide, acetyl-chloride, acetyl-oxide, acetyl-salycilate, acetyl-cellulose, etc.

The issue before the tribunals of the Patent Office and the determination thereon is set out in the decision of the Commissioner as follows:

Applicant asserts that the term "acetyl" does not serve to identify any particular chemical compound unless suffixed by the name of another chemical element or radical, and therefore the term "acetyl" used alone has no descriptive meaning, and disclaimer thereof should not be required. However, it is noted that applicant in its brief states that the occurrence of the term "acetyl" in a chemical term indicates the presence of the radical CH_3CO in the substance defined by the chemical term. It seems to me that to apply the term "acetyl" to any substance or preparation indicates that the acetyl radical is present in the substance or preparation and that such substance or preparation is acetylic, and thus is descriptive of that characteristic or quality of the substance or preparation. Nor do I consider that the joining of the word "Vess" to the term "acetyl" by a hyphen destroys that descriptive meaning of the term "acetyl" with regard to the goods to which the trade-mark is applied. In my opinion the term "acetyl" in the mark "Acetyl-Vess" indicates the presence of the acetyl radical in applicant's tablets and is descriptive of that character and quality thereof.

From the decision of the Commissioner this appeal was taken.

Appellant contends that the Patent Office tribunals erred in not recognizing that the acetic acid radical CH_3CO has no existence except as a fundamental constituent of a definite chemical compound, and in holding that the union of the radical "acetyl" with the meaningless syllable "vess" does not destroy the mere descriptive significance of "acetyl."

Appellant admits that the word "acetyl" indicates the presence of what is termed by chemists to be the radical CH_3CO and that the radical may be said to be an element in the production of chemical compounds. Appellant argues, however, that there is no existence of the substance described by the radical except for an infinitesimal period of time before the radical immediately becomes associated with an element or elements whose presence determines the final product.

[1] It appears to be true that acetyl is not a chemical element capable of segregation, use and sale as such and that it has no existence except as stated by appellant. But there can be no question when it is applied to a product such as that involved here it indicates that in the product there are properties which are characteristic of compounds containing the said radical. Therefore, there can be no question but that the term "acetyl" is clearly descriptive.

Appellant further contends that the mark should be considered only as a whole and when so considered it should not be held to be descriptive of the goods but as a fanciful name, and as such is entitled to registration. Appellant also alleges error in that the Patent Office tribunals did not give proper significance to the word "merely" as modifying "descriptive" in section 5(b) of the Trade-Mark Act of February 20, 1905. All of appellant's contentions sum up in effect an argument as to why the decision of the Supreme Court in *Estate of P. D. Beckwith, Inc.*, v. *Commissioner of Patents*, 252 U. S. 538, 274 O. G. 613, and also our own decisions, especially *In re American Cyanamid & Chemical Corporation*, 26 C. C. P. A. (Patents) 712, 99 F.(2d) 964, 499 O. G. 785, should be overruled.

A great number of cases have been cited by appellant to sustain its various contentions, but since they cannot in our opinion justify us in reversing the decision of the Commissioner we shall not discuss them.

[2] The mark of appellant unquestionably contains a descriptive word coupled with a fanciful

expression. It is a composite mark. It is well-settled law, stemming from the leading case of Beckwith, supra, followed by this court in many cases, notably in the American Cyanamid Corporation case, supra, that in composite marks such as involved herein the Patent Office may and should require disclaimer of that portion of the mark which is descriptive.

The question presented to us is not new and has been meticulously considered and ruled upon in the earlier decisions and there is no necessity for prolonging this opinion by the repetition of the reasoning heretofore given by the courts.

[3] The decision of the Commissioner of Patents is affirmed.

Affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,481,788, J. P. Benbow, Dump car; 1,935,974, 2,143,934, 1,977,819, 1,977,621, 1,789,956, W. L. Burner, same; 1,977,836, 2,181,629, J. H. Slaker, same, filed Feb. 20, 1943, D. C., N. D. Ohio, W. Div., Doc. 4887, *Western-Austin Co.* v. *Differential Steel Car Co.*

1,534,929, H. V. Dunham, Manufacture of chewing gum; 1,534,930, same, Treatment of India rubber for use in chewing gum; 1,534,931, same, Process of making chewing gum base; 2,190,180, J. O. Barker, Chewing gum material; 2,076,112, same, Masticable material; 1,930,436, same, Manufacture of chewing gum base; 2,050,272, F. V. Canning, same; 1,975,447, same, Chewing gum material and method of making same, filed Feb. 25, 1943, D. C., S. D. N. Y., Doc. 17/314, *Sweets Laboratories, Inc.*, v. *I. & H. Kamber et al.*

1,534,930. (See 1,534,929.) 1,534,931. (See 1,534,929.)

1,536,044, J. W. Swan, Method and means to facilitate the distribution of fuel in internal combustion engines; 1,636,721, same, Manifold, C. C. A., 4th Cir., Doc. 5026, *The Swan Carburetor Co.* v. *The Nash Motors Co.* Decree modified and affirmed Feb. 5, 1943.

1,577,821, W. P. Campbell, Stabilizing device; 1,993,572, L. Stark, Steering stabilizer, filed Dec. 30, 1942, D. C., S. D. N. Y., Doc. 20/171, *Anti-Shimmie Mfg. Co.* v. *Kastar, Inc.*

1,636,721. (See 1,536,044.) 1,711,514. (See 1,888,442.)

1,721,608, Swart & Ehlig, Sheet-feeder; 1,898,535, A. Haupt et al., Method of and means for feeding paper sheets; 2,060,800, Ehrig & Keilhauer, Sheet feeder; 2,108,702, H. T. Backhouse, Automatic sheet feeding machinery; 2,144,057, H. Hallstream, Paper feeding machine, filed Feb. 5, 1943, D. C., S. D. N. Y., Doc. 20/333, *American Type Founders, Inc.*, v. *Dexter Folder Co.*

1,789,956. (See 1,481,788.)

1,819,923, C. Schlumberger, Electrical process and apparatus for the determination of the nature of the geological formations traversed by drill holes; 1,913,293, same, Electrical process for the geological investigation of the porous strata traversed by drill holes, D. C., S. D. Tex. (Houston), Doc. E792, *Schlumberger Well Surveying Corp.* v. *Halliburton Oil Well Cementing Co.* Patents held not infringed; bill dismissed Feb. 2, 1943.

1,888,442, A. I. Abrahams, Loud speaker unit; 1,711,514, Abrahams & Jonssens, Electromagnetic driving unit; D. C., S. D. N. Y., Doc. 9/74, *Racon Electric Co., Inc., et al.*, v. *University Laboratories.* Stipulation of dismissal of action (notice Feb 16, 1943).

1,898,535. (See 1,721,608.)

1,904,597, E. E. Allyne, Refrigerating apparatus; 2,043,723, same, Circulatory loop; 2,114,204, same, Brine tank; 2,177,796, same, Absorption refrigerator mechanism; 2,092,733, E. Gruber, Absorption refrigeration; 2,071,019, F. E. Beebe, Refrigerator control, D. C., N. D. Ohio, E. Div., Doc. 20174, *E. E. Allyne* v. *Sears, Roebuck & Co.* Dismissed with prejudice Jan. 30, 1943.

1,913,293. (See 1,819,923.) 1,930,436. (See 1,534,929.)
1,935,974. (See 1,481,788.) 1,975,447. (See 1,534,929.)
1,977,621. (See 1,481,788.) 1,977,819. (See 1,481,788.)
1,977,836. (See 1,481,788.) 1,993,572. (See 1,577,821.)

1,997,351, 2,047,911, O. N. Tevander, Bottle capping machine; 2,097,076, J. H. Nelson, Hood cap applying machine, filed Jan. 7, 1943, D. C. N. J., Doc. 2680, *Packaging Machinery Co.* v. *Standard Cap & Seal Corp.*

2,035,671, A. H. Sauer, Jr., Leather wrist watch strap; 2,035,672, same, Article of manufacture and method of making same; Des. 106,219, same, Wrist watch strap, D. C., S. D. Ohio, W. Div., Doc. 139, *A. H. Sauer, Jr.*, v. *The Pickering Hardware Co.* Patent 2,035,672 held not infringed, and design held invalid; bill dismissed (notice Feb 3, 1943).

2,035,672. (See 2,035,671.) 2,043,723. (See 1,904,597.)
2,047,911. (See 1,997,351.) 2,050,272. (See 1,534,929.)
2,060,800. (See 1,721,608.) 2,071,019. (See 1,904,597.)
2,076,112. (See 1,534,929.) 2,092,733. (See 1,904,597.)
2,097,076. (See 1,997,351.) 2,108,702. (See 1,721,608.)
2,114,204. (See 1,904,597.)

2,114,961, W. H. Gille, Electromagnetic valve; Re. 21,881, Ray & Ray Solenoid construction, D. C., N. D. Ohio, E. Div., Doc. 20567, *Minneapolis-Honeywell Regulator Co.* v. *General Controls Co.* Consent decree Feb. 17, 1943.

2,127,918, 2,227,934, G. P. Hofmann, Container for pharmaceutical purposes, D. C., S. D. N. Y., Doc. 17/160, *G. P. Hofman* v. *F. W. Woolworth Co.* Judgment Feb. 19, 1943.

2,143,934. (See 1,481,788.) 2,144,057. (See 1,721,608.)
2,177,796. (See 1,904,597.) 2,181,629. (See 1,481,788.)
2,190,180. (See 1,534,929.)

2,201,068, G. Wintritz, Manufacture of slide fasteners; 2,221,740, F. Ulrich, same, filed Feb. 2, 1943, D. C., S. D. N. Y., Doc. 20/314, *Conmar Products Corp.* v. *Universal Slide Fastener Co., Inc., et al.*

2,221,740. (See 2,201,068.) 2,227,934. (See 2,127,918.)

2,232,835, S. Balin, Luggage; Des. 116,510, same, Suitcase, D. C., S. D. N. Y., Doc. 16/103, *Orenstein Trunk Corp.* v. *United Luggage Co., Inc.* Judgment Feb. 2, 1943.

2,242,189, Zelov & Strauss, Automatic molding press; 2,250,342, same, Electric controller, D. C., N. D. Ohio, E. Div., Doc. 21518, *Molded Insulation Co., Inc., et al.* v. *International Molded Plastics, Inc.* Consent decree holding patents infringed; injunction granted Feb. 15, 1943.

2,250,342. (See 2,242,189.)

Re. 21,881. (See 2,114,961.)

Des. 106,219. (See 2,035,671.)

Des. 116,510. (See 2,232,835.)

Trade-Mark Registrations Canceled

160,874. Medicinal preparation. William H. Gross, Philadelphia, Pa. Registered October 31, 1922. Canceled March 8, 1943.

223,880. Face powders. Fong Kingman, Sacramento, Calif. Registered February 15, 1927. Canceled March 8, 1943.

249,866. Wheat flour. Ardmore Flour & Feed Co., Ardmore, Okla. Registered November 20, 1928. Canceled March 8, 1943.

294,582. Bean pickers. Crippen Manufacturing Company, Alma, Mich. Registered May 31, 1932. Canceled January 18, 1943.

305,130. Whisky. The Sherwood Distilling & Distributing Co., Baltimore, Md. Registered August 1, 1933. Canceled March 8, 1943.

308,046. Palliative. Stephen Bugyi and Eva Bugyi, Flemington, N. J. Registered November 21, 1933. Canceled March 8, 1943.

318,357. Whiskey. Empresas Ibericas, S. A., Basel, Switzerland. Registered October 23, 1934. Canceled March 8, 1943.

345,911. Women's hats. National Department Stores Management & Buying Corporation, New York, N. Y. Registered May 11, 1937. Canceled March 8, 1943.

371,184. Mineral oil. Purex Products, Incorporated, Baltimore, Md. Registered September 19, 1939. Canceled March 8, 1943.

383,204. Scotch whisky. Drambuie Liqueur Company Limited, Edinburgh, Scotland. Registered November 26, 1940. Canceled March 8, 1943.

387,502. Belt dressing. Albert Irving Wigler, Newark, N. J. Registered May 20, 1941. Canceled March 8, 1943.

395,370. Piece goods. Higginbotham-Bailey-Logan Company, Inc., Dallas, Tex. Registered May 19, 1942. Canceled March 8, 1943.

396,359. Men's hats. Capson Hat Company, Inc., Fall River, Mass Registered July 7, 1942. Canceled March 8, 1943.

397,623. Men's hats. John B. Stetson Company, Philadelphia, Pa. Registered September 8, 1942. Canceled March 8, 1943.

397,747. Women's underwear. Anne Undies, Inc., New York, N. Y. Registered September 22, 1942. Canceled March 8, 1943.

BULLETIN OF DECISIONS OF PATENT OFFICE ON TRADE-MARKS

RENDERED DURING FEBRUARY, 1943

BOOTH FISHERIES CORPORATION *v.* GENOA FISHERIES, INC., Opposition No. 21,080.

In a decision rendered February 1, 1943 (166 Ms. Dec. 103. 56 U. S. P. Q. 332), *First Assistant Commissioner Frazer* affirmed the decision of the Examiner of Trade-Mark Interferences sustaining the opposition by Booth Fisheries Corporation, of Chicago, Ill., to the application of Genoa Fisheries, Inc., of Boston, Mass., for registration of the word "Sealoin," in association with a pictorial feature, as a trade-mark for "fresh and frozen fish fillets." The opposition was sustained by the Examiner upon the ground that applicant's mark is confusingly similar to the notation "Tastyloins," registered by opposer for "fresh fish" under the act of March 19, 1920, and proved to have been used upon such goods since a time earlier than the date of first use claimed by applicant.

In his decision the First Assistant Commissioner said:

"It was the Examiner's opinion that the word 'loin' constitutes 'the most distinctive part of each of the marks, and the one upon which purchasers would be likely to rely primarily in identifying the source of the respective goods.' Applicant argues in effect that the word 'loin' is descriptive of the goods in question, and taken alone is thus incapable of indicating their origin. If that be true, then applicant's compound word 'Sealoin' should be refused registration as presented, because when applied to fish the word 'Sea' is unquestionably descriptive. But I am inclined to the view that 'loin' or 'loins,' while highly suggestive, is not merely descriptive of such goods; and I assume that it was the descriptive word 'Tasty' in opposer's mark that impelled its registration under the act of 1920 rather than under the act of 1905. And while I agree with applicant that it is improper to dissect composite trade-marks for the purpose of comparison, nevertheless it is sometimes both permissible and necessary to analyze such marks in order to determine the question of possible confusion.

"As a whole, applicant's mark differs considerably from the mark of opposer in appearance and in sound; but in significance I think the two marks are too nearly similar to be concurrently used upon substantially identical merchandise of the character here involved without a reasonable likelihood of confusion. The most that can be said in applicant's favor is that there may be some doubt in that regard. Such doubt, however, must be resolved in favor of opposer."

CARON CORPORATION *v.* AMERICAN FERMENT CO., INC., Cancellation No. 3765.

AMERICAN FERMENT CO., INC., *v.* ERNEST DALTROFF (CARON CORPORATION, ASSIGNEE, SUBSTITUTED), Cancellation No. 3788.

In a single decision rendered February 4, 1943 (166 Ms. Dec. 104, 56 U. S. P. Q. 389), *First Assistant Commissioner Frazer* disposed of appeals from the decisions of the Examiner of Trade-Mark Interferences in these two trade-mark cancellation proceedings.

In the first cancellation proceeding, No. 3765, Caron Corporation, of Paris, France, petitioned to cancel trade-mark registration No. 370,615, issued August 29, 1939, under the provisions of the act of February 20, 1905, to American Ferment Co., Inc., of New York, N. Y. The mark of this registration is the word "Caroid," and the goods are described as "a dentifrice." Damage was claimed by reason of the alleged similarity of this mark to Caron Corporation's trade-mark "Caron," registered under the same act for specified toilet preparations.

In the second cancellation proceeding, No. 3788, American Ferment Co., Inc., petitioned to cancel the said "Caron" registration, No. 164,476, issued February 20, 1923, to Ernest Daltroff and assigned to Caron Corporation. The goods described in this registration are "perfume, toilet water, rouges, face powder, talcum powder, brilliantine, dentifrices." It was stipulated that the mark has never been used on dentifrices in the United States. In its petition to cancel, American Ferment Co., Inc., asserted, in effect, that if the goods of the parties are of the same descriptive properties, and if the marks are confusingly similar, the registration owned by Caron Corporation should be canceled rather than its own.

The Examiner of Trade-Mark Interferences dismissed each of these petitions.

Facts were stipulated and the First Assistant Commissioner quoted from the stipulation as follows:

"Since 1905 Caron Corporation and its predecessors have continuously used in interstate and intrastate commerce and Caron Corporation is still using in interstate and intrastate commerce the notation 'Caron' as a trade-mark for perfumes, toilet waters, rouges, face powders, beauty creams and other toilet preparations, not including dentifrices.

"Caron Corporation has never sold in the United States any dentifrice under a trade-mark or corporate name consisting of or including the word 'Caron.' * * *

"Since 1895 American Ferment Co., Inc., and its predecessors have continuously used, and American Ferment Co., Inc., is still using, in interstate commerce the notation 'Caroid' as a trade-mark for a ferment.

"Such ferment has from time to time been incorporated in, and the use of the notation 'Caroid' has thereupon been extended to, medicinal and pharmaceutical preparations of American Ferment Co., Inc., and its predecessors, * * *.

"In 1922, one of the predecessors of American Ferment Co., Inc., began to manufacture a dental powder containing the said ferment, to be used for the cleansing of the teeth and mouth, for the care of dentures, and for treatment of various conditions in the oral cavity. Said predecessor immediately extended the use of the notation 'Caroid' as a trade-mark to this dental powder. The notation 'Caroid' has been so used in commerce continuously ever since in the business of American Ferment Co., Inc., and its predecessors and American Ferment Co., Inc., is now so using the same.

"American Ferment Co., Inc., and its predecessors have never used the notation 'Caroid' except upon and in connection with the above-described ferment and various preparations containing the same."

In discussing the stipulated facts, the First Assistant Commissioner referred to Caron Corporation as "Caron," and to American Ferment Co., Inc. as "American." He said:

"It thus appears that American has priority of use with respect to medicinal preparations, and that Caron has priority of use with respect to toilet preparations. American insists that its use of the trade-mark 'Caroid' on a dentifrice was merely a logical sequence in the normal expansion of its pharmaceutical business. Caron takes the position that dentifrices and medicines are of different descriptive properties, so that the normal expansion of business doctrine is inapplicable; and that when American appropriated its mark to a dentifrice, it encroached upon the field of toilet preparations already pre-empted by Caron.

"I am inclined to agree with American, and to hold that broadly speaking all the goods here involved possess the same descriptive properties within the meaning of the statute. Even so, the parties do not deal in identical merchandise; and as was pointed out by the Court of Customs and Patent Appeals in *Puerto Rico Distilling Co. v. The Coca-Cola Co.*, 28 C. C. P. A. 1143, 120 Fed. (2d) 370, 'it is, of course, well settled that specific differences in goods which are of the same general descriptive character should be considered in connection with differences in marks in fairly determining the question of liklihood of confusion.' The trade-marks 'Caron' and 'Caroid' are somewhat similar in appearance, but there is no similarity in significance, and very little in sound. Both marks have been in use for many years, yet neither party contends that such use has resulted in actual confusion. In other words, there is no proof that either party has suffered damage by reason of the other's registration; and to hold that either is likely to be damaged would involve an element of speculation which I think is unwarranted by the record."

For the reasons so stated, the First Assistant Commissioner affirmed both decisions of the Examiner of Trade-Mark Interferences.

AMERICAN CHEMICAL PAINT COMPANY *v.* THE SHERWIN-WILLIAMS CO., Opposition No. 20,998.

In a decision rendered February 5, 1943 (166 Ms. Dec. 106, 56 U. S. P. Q. 391), *First Assistant Commissioner Frazer* affirmed the decision of the Examiner of Trade-Mark Interferences sustaining the opposition of American Chemical Paint Company, of Ambler, Pa., to the application of The Sherwin-Williams Co., of Cleveland, Ohio, for registration of a trade-mark, and further adjudging applicant's mark to be non-registrable on the ex parte ground that it is merely descriptive of the goods to which it is appropriated.

Applicant's mark is the notation "Stop Drop," in association with the picture of a red apple. The goods to which it is appropriated are described in the application as "naphthalene acetic acid spray." The applicant stated in its brief that:

"One of the primary functions of this spray is to prevent the premature dropping of apples from the tree."

The opposition was predicated upon the assertion that applicant's mark is descriptive, and upon opposer's use of such expressions as "for stopping fruit drop," and "for stopping preharvest drop," in connection with substantially identical merchandise sold under its registered trade-mark "Fruitone."

The First Assistant Commissioner concluded that the notation "Stop Drop" aptly describes the character of a spray intended to prevent the premature dropping of apples. He said:

"'Stop' means 'to interrupt or prevent the continuance or occurrence of;' and one definition of 'drop' is 'any immature, usually unfertilized or diseased, fallen fruit; the fall of such fruit.' (See Webster's New International Dictionary.) The words of applicant's mark may thus be fairly defined as, 'to prevent the falling of immature apples.' And while that significance may not immediately suggest itself to one unfamiliar with the nature of applicant's goods, the association of the mark with such goods leaves no room for doubt as to its meaning.

"I have not lost sight of the fact that applicant's mark includes the representation of an apple. The goods, however, would doubtless be known and called for as 'Stop Drop' without reference to the picture; and in appearance the descriptive significance of the mark as a whole is probably emphasized thereby."

With particular reference to the opposition, the First Assistant Commissioner stated:

"Opposer has used descriptive expressions very similar to the descriptive expression of applicant's mark. But even had no such use occurred, opposer has the undoubted right to employ any word or words that truly describe its product, and in common with other manufacturers of similar goods would thus be damaged by the proposed registration. *Burmel Handkerchief Corporation v. Cluett, Peabody & Co., Inc.*, 29 C. C. P. A. 1024, 127 Fed. (2d) 318."

THREE SISTERS, INC., *v.* SOUTHERN LIQUOR DISTRIBUTORS, INC., Opposition No. 21,283.

In a decision rendered February 6, 1943 (166 Ms. Dec. 109, 56 U. S. P. Q. 392), *First Assistant Commissioner Frazer* denied a motion by Southern Liquor Distributors, Inc., of Jacksonville, Fla., to reopen and remand this opposition proceeding to the Examiner of Trade-Mark Interferences for the purpose of permitting the introduction in evidence of certain copies of registration. Said company is the applicant. Its application was opposed by Three Sisters, Inc., of New York, N. Y., and the Examiner of Interferences sustained the opposition.

In denying said motion, the First Assistant Commissioner said:

"On September 14, 1942, just four days prior to the date set for final hearing before the Examiner of Interferences, applicant filed a motion that these registrations 'be received in evidence with the same force and effect as if said registrations had been introduced in evidence during the testimony time of applicant,' and requested 'that this motion be considered at the final hearing.' In support of that motion was filed the affidavit of one of applicant's attorneys to the effect that his failure to introduce the registrations at the time of taking applicant's testimony was due to 'an oversight.' In his decision sustaining the opposition the Examiner of Interferences denied the motion on the ground that it was 'untimely.'

"The instant motion is supported by affidavits setting forth facts and circumstances which explain applicant's delay since the rendition of the Examiner's decision, but no sufficient excuse is offered for the delay prior to final hearing. If, as applicant's present counsel seem to believe, the registrations in question would have been pertinent to the issue, it is of course unfortunate that they are not in the record. But opposer should not be penalized for the unexplained neglect of applicant's former attorney. To grant the motion may necessitate the taking of additional testimony by opposer, and its appearance for a second hearing before the Examiner. Upon the showing made I do not feel warranted in subjecting opposer to the possible burden of such added effort and expense."

EX PARTE NATIONAL GRAPE CORPORATION, Serial No. 440,469.

In a decision rendered February 12, 1943 (166 Ms. Dec. 110, 56 U. S. P. Q. 415), *Assistant Commissioner Van Arsdale* granted a petition by National Grape Corporation, of New York, N. Y., for reconsideration of his decision of November 17, 1942 (545 O. G. 921, 55 U. S. P. Q. 354), but he still adhered to that decision. He again affirmed the decision of the Examiner of Trade-Marks refusing applicant registration of the mark "Peerage" for a bottled grape juice stock emulsified with pectin for making grape jellies and preserves. The Examiner had refused registration in view of a prior registration to another of the same mark "Peerage" for self-rising wheat-flour.

The applicant pointed out that the earlier decision failed to discuss or to pass on the question of confusing similarity of the marks when used on the goods to which the marks are applied or the

question of consequent harm to the public by such use of the marks.

The Assistant Commissioner stated that since the marks are identical and admittedly are applied to goods of the same descriptive properties, no discussion of these questions is necessary, citing and quoting from *Philadelphia Inquirer Company* v. *Coe*, 55 U. S. P. Q. 435.

In regard to another matter raised in the petition for reconsideration, the Assistant Commissioner had the following to say:

"Applicant further states that in any event applicant should be allowed the registration because the owner of the registration on which registration to applicant has been refused has consented to the granting of the registration, and consequently the owner of that registration would not be damaged. Notwithstanding such consent and possible doubt as to damage, the statutory restrictions must be applied. As stated by Judge Lenroot in *Skookum Packers Association* v. *Pacific Northwest Canning Co.*, 18 C. C. P. A. 792, 45 Fed. (2d) 912, 403 O. G. 515:

"'The mandate of the statute is plain, and parties can not, by their conduct or by any agreement, confer upon the Commissioner of Patents the power to do that which the law forbids.'"

MONROE SHIRT CO., v. ADAM HAT STORES, INC., Opposition No. 20,090.

In a decision rendered February 13, 1943 (166 Ms. Dec. 113, 56 U. S. P. Q. 416), *Assistant Commissioner Van Arsdale* reversed the decision of the Examiner of Trade-Mark Interferences and thereby sustained the opposition of Monroe Shirt Co., of New York, N. Y., to the application of Adam Hat Stores, Inc., also of New York, N. Y., for registration of the mark "Adam" for men's hats, outer shirts and various other named items of clothing. The Assistant Commissioner stated that the record establishes use by applicant of the mark for hats since 1924 and for shirts since 1939.

The notice of opposition, the Assistant Commissioner said, asserts use by opposer "and its predecessors, from whom title is derived" of the mark "John Adams" for shirts since prior to applicant's use of the mark of the application, and asserts opposer is the owner by assignment dated February 28, 1936, of a registration dated October 16, 1923, and issued to Sidney James Koblenzer of the mark "John Adams" for men's hats and shirts and various other named items of clothing.

The Assistant Commissioner held men's hats and men's shirts to be goods of the same descriptive properties and the marks "Adam" and "John Adams" to be confusingly similar. He said:

"As to the marks 'Adam' and 'John Adams' as applied to those goods I consider the words 'Adam' and 'Adams' so prominent in the marks and so nearly identical in appearance and in sound as to outweigh the fact that the mark 'Adam' may primarily signify the biblical first man and the mark 'John Adams' may signify a former President of the United States, and the differences in the appearance and sound of the marks when considered in their entireties; and I deem the marks to be confusingly similar."

Applicant contended that the notice of opposition fails to allege any use of the mark "John Adams" by opposer itself prior to the date of the assignment. The Assistant Commissioner concluded, however, that the Examiner of Trade-Mark Interferences had correctly held the allegations of the notice of opposition to be broad enough to permit opposer to show use by opposer itself of the mark prior to the assignment. He added that it was his opinion that opposer's record shows use by opposer itself of the mark "John Adams" on shirts beginning in the year 1933 and not earlier.

The Assistant Commissioner noted that the use of the mark "John Adams" by opposer for shirts beginning in 1933 is later than applicant's first use in 1924 of the mark "Adam" for men's hats but earlier than applicant's first use in 1939 of the mark "Adam" for men's shirts.

In then coming to the question of assignment to opposer of registration No. 174,498, obtained by Koblenzer on October 16, 1923, the Assistant Commissioner stated:

"As to the registration No. 174,498 of the mark 'John Adams' obtained by Koblenzer on October 16, 1923, and which opposer claims now to own under the assignment and sale from Koblenzer dated February 28, 1936, applicant contends that Koblenzer abandoned the mark in the year 1925, long prior to the assignment, and further contends that no business or good will of any business was transferred to opposer by the assignment and sale and therefore the assignment did not serve to convey any rights or title of the mark or registration to opposer.

"The Koblenzer registration itself is prima facie evidence of use of the mark by Koblenzer up to the time of the assignment. Koblenzer testified he had used the mark of the registration since 1921 and for about sixteen years thereafter and ceased the shirt-making business shortly after assigning and selling the mark and registration and business to opposer in 1936. It appears that Koblenzer's business encountered considerable difficulties, that the business was conducted at times by Koblenzer through corporate entities as well as in his personal name and that toward the time of the assignment, the business had become quite meager, and Koblenzer became engaged principally in the insurance business. However it does not appear that Koblenzer ever intended to abandon the trade-mark or the business associated therewith and it is not established that Koblenzer ceased entirely to do business under the mark. Further, although it was testified that opposer was not interested in Koblenzer's use of the mark and was only interested in buying the trade-mark 'to avoid any litigation,' nevertheless with the assignment opposer also received a bill of sale of the business and Koblenzer testified that he actually turned over to opposer box labels and hangers and 'anything I had connected with "John Adams,"' and discontinued his shirt business shortly thereafter.

"Opposer continued to sell shirts under the name 'John Adams' after the assignment, and, regardless of how little value opposer placed on the business conveyed by the assignment and bill of sale, nevertheless it seems to me that under the assignment and bill of sale opposer did acquire the good will of the business in connection with which Koblenzer was using the mark, and the good will of this business became added to opposer's business of selling shirts under the name 'John Adams'.

"Accordingly I consider that the assignment is valid and opposer is owner of registration 174,498 of October 16, 1923, and is successor to the rights of Koblenzer in and to the mark and to the registration, and therefore it is my opinion the notice of opposition should have been sustained on this registration and the ownership thereof by opposer."

EX PARTE PITTSBURGH PLATE GLASS COMPANY, Serial No. 431,825.

In a decision rendered February 13, 1943 (166 Ms. Dec. 111, 56 U. S. P. Q. 418), *Assistant Commissioner Van Arsdale* affirmed the action of the Examiner of Trade-Marks in refusing registration to Pittsburgh Plate Glass Company, of Pittsburgh, Pa., of the mark "Steelhide" for paints, lacquers and varnishes, in view of a prior registration to another of the mark "Steelskin" for corrosion-resistant paint. The Examiner held the marks to be confusingly similar. The Assistant Commissioner stated that since applicant's designation of goods is broad enough to include corrosion-resistant paint, the marks may be considered as applied to identical goods.

The Assistant Commissioner discussed the matter of confusing similarity between applicant's mark and said registered mark as follows:

"It appears that applicant has registered as trade-marks a series of single words ending in the suffix 'hide' for paints. Among these are 'Ironhide,' 'Metalhide' and 'Cementhide.' Applicant also contends that numerous words having the prefix 'steel' have been used by others as trade-marks for paints. However, neither 'hide' nor 'steel' is stated to be or appears to be descriptive of paints.

"It may be that the fact that applicant's mark 'Steelhide' ends in 'hide' would indicate to people familiar with applicant's other marks which end in 'hide' that 'Steelhide' is a mark of the applicant, and that persons familiar with the use by others of marks beginning with 'steel' would not give predominant trade-mark significance to the prefix 'Steel' of the marks here involved. Nevertheless this would not apply to purchasers who were not familiar with such other marks, and consideration must be given to the likelihood of confusion of this latter class of purchasers. Consideration may not properly be limited to any particular classes of purchasers but should embrace purchasers generally. *The Pepsodent Co.* v. *Comfort Manufacturing Co.*, 23 C. C. P. A. 1224, 83 F.(2d) 906, 472 O. G. 258.

"Each of the marks is a single word having the prefix 'Steel' followed by a final syllable of four letters, 'hide' and 'skin,' respectively; and each of the marks appears to be suggestive of the paints being suitable for painting steel or as resembling steel in one or more characteristics, such as durability."

The Assistant Commissioner then concluded that the marks are so similar in appearance, sound and in their suggestive meanings that their concurrent use on the goods to which they are applied would be likely to cause confusion and mistake in the mind of the public and to deceive purchasers.

EX PARTE HORACE W. HALL (DOING BUSINESS AS HALL MFG. CO.), Serial No. 448,758.

The Examiner of Trade-Marks refused registration to Horace W. Hall (doing business as Hall Mfg. Co.), of Newton Highlands, Mass., of a mark for tennis, squash and badminton playing rackets consisting of applicant's surname "Hall" in ordinary block letters surrounded by decorative matter including stars, lines and arrows arranged to suggest the configuration of an airplane as seen from above, and including the words "service," "honesty" and "quality," said latter words being disclaimed.

The applicant offered to disclaim the surname but it was the Examiner's opinion that the surname so dominated the mark that disclaimer thereof would be a mere evasion of the statutory bar to registration and the disclaimer would not be proper.

In a decision rendered February 15, 1943 (166 Ms. Dec. 115, 56 U. S. P. Q. 419), *Assistant Commissioner Van Arsdale* agreed with the Examiner that the surname "Hall" is the dominating feature of applicant's mark, but he concluded that if said surname were disclaimed the mark would be registrable. The Assistant Commissioner said:

"I agree with the Examiner that the surname 'Hall' is the dominating feature of the mark, but in my opinion the make-up and design of the mark as a whole is so ornate, distinctive, original and impressive that purchasers and the public will remember and recognize the entire fanciful composition of the mark and will attach considerable trade-mark significance to the fanciful composition as well as to the surname 'Hall' thereof.

"It is realized that since the surname 'Hall' is not itself written, printed, impressed or woven in some particular or distinctive manner, or associated with a portrait of the individual (act of February 20, 1905, sec. 5(b)) and is not disclaimed, the mark may not be registered. *In re Sears, Roebuck & Company*, 30 C. C. P. A. —, 56 U. S. P. Q. 166. But here, in my opinion, the fanciful and arbitrary design of the complete mark is so prominent and impressive and carries trade-mark significance to such an extent that, if disclaimer were made with respect to the surname 'Hall', the mark should not be held to be barred from registration by the name clause of section 5 of act of 1905. *Beckwith* v. *Commissioner of Patents*, 252 U. S. 538, 274 O. G. 613, 1920 C. D. 471, and my decision in *Ex parte Bates*, 55 U. S. P. Q. 154. Applicant should be allowed to enter such disclaimer."

The Assistant Commissioner therefore modified the decision of the Examiner of Trade-Marks to the extent indicated in the foregoing quotation and otherwise affirmed said decision.

The Assistant Commissioner remanded the application to the Examiner for disposition in accordance with his opinion.

EX PARTE TEXTILE WORKERS UNION OF AMERICA, Serial No. 423,681.

In a decision rendered February 15, 1943 (166 Ms. Dec. 116, 56 U. S. P. Q. 420), *Assistant Commissioner Van Arsdale* affirmed the action of the Examiner of Trade-Marks in refusing registration to Textile Workers Union of America, of New York, N. Y., of a mark for hosiery consisting of applicant's name "Textile Workers Union of America" appearing on the representation of a scroll above which are the words "Union Made," the latter words being disclaimed.

The Examiner refused registration on the ground that applicant's name in the mark is not distinctively displayed. Before the Assistant Commissioner the applicant contended that the arrangement of applicant's name in the mark in association with the representation of the scroll forms a distinct impression on the eye of the observer which is easily remembered and is relied upon, and that therefore the name is distinctively displayed. With respect to this contention the Assistant Commissioner stated:

"The statutory requirement as to distinctive display is that the name itself be written, printed, impressed or woven in some particular or distinctive manner, or be in association with a portrait of the individual. (Act of February 20, 1905, sec. 5(b).) *In re Sears, Roebuck & Company*, 30 C. C. P. A. —, 56 U. S. P. Q. 166. In that case a fanciful portrait or drawing constituting a feature of the mark was disregarded in connection with the question of distinctive display of a surname; and, likewise here, the scroll feature of the present mark constitutes no part of the statutory manner of display of the name itself.

"The scroll feature and the disclaimed words 'Union Made' are merely incidental features of minor, if any, trade-mark significance, and applicant's name may be said to constitute substantially the entire mark. Since this name is not itself written, printed, impressed or woven in some particular manner, its registration is barred under the name clause of act of February 20, 1905. Compare my decision of even date herewith in *Ex parte Horace W. Hall.*"

EX PARTE SYNCRO MACHINE COMPANY, Serial No. 452,382.

In a decision rendered February 17, 1943 (166 Ms. Dec. 118, 56 U. S. P. Q. 421), *Assistant Com-*

missioner Van Arsdale affirmed the action of the Examiner of Trade-Marks in refusing registration to Syncro Machine Company, of Rahway, N. J., of the mark "Rodblock" for "a heavy duty rod drawing machine and parts thereof." The Examiner refused registration on the ground that the mark is merely descriptive of the goods. As stated by the Assistant Commissioner, rod drawing machines are adapted to reduce the diameters of rods by drawing the rods through rod drawing dies mounted in the machines.

In discussing the question of descriptiveness of applicant's mark "Rodblock," the Assistant Commissioner said:

"The Examiner considered that since a die is a particular form of block, the word 'Rodblock' as applied to rod drawing machines would be considered by persons familiar with such machines to have the same meaning as the words 'rod die' which is the name of a part of the machine, namely, the rod drawing die.

"Applicant asserts 'that a block as such is not a die and that the truly descriptive phrase for this element of such a machine is "die block" '. I think the more accurate phrase is 'rod die block' since a rod drawing machine utilizes a rod die block. It seems to me the trade would consider the word 'Rodblock' to be merely an obvious abbreviation of the phrase 'rod die block' and therefore to be the name of that part or instrumentality of the machine and not to indicate the origin of the part. Similarly, I consider the word 'Rodblock' when applied to the entire machine to describe the machine as one utilizing a rod die block and thus to be merely descriptive of a rod drawing machine and not to indicate origin of the machine. Accordingly, I consider the Examiner to have been correct in holding the mark merely descriptive of the goods embraced in the application for registration and in refusing registration for that reason. *California Cyanide Company v. American Cyanamid Company*, 17 C. C. P. A. 1146, 40 Fed.(2d) 1003, 399, O. G. 212."

The applicant asserted that the machines sold by it do not include the drawing dies and the dies are supplied by others. The Assistant Commissioner said:

"Drawing dies are parts of rod drawing machines and a mark is regarded as descriptive when it describes the goods of others. *In re Hair Net Packers, Inc.*, 28 C. C. P. A. 715, 115 Fed. (2d) 254, 524 O. G. 265."

NATIONAL BISCUIT COMPANY v. MARYLAND BAKING COMPANY, INC., Trade-Mark Interference No. 3345.

This trade-mark interference involves the application of Maryland Baking Company, Inc., of Baltimore, Md., for registration of the notation "Hav-a-wrap" as a trade-mark for ice cream cones, and the application of National Biscuit Company, of New York, N. Y., for registration of the notation "Havacone" as a trade-mark for the same goods. The descriptive words "wrap" and "cone" are respectively disclaimed in the applications.

The Examiner of Trade-Mark Interferences adjudged National Biscuit Company to be entitled to the registration applied for, and Maryland Baking Company, Inc., not be be so entitled.

In a decision rendered February 23, 1943 (166 Ms. Dec. 121, 56 U. S. P. Q. 447), *First Assistant Commissioner Frazer* affirmed the decision of the Examiner of Interferences. The First Assistant Commissioner concluded that the only question to be determined was whether or not the two marks "Havacone" and "Hav-a-wrap" bear such near resemblance as to be likely to cause confusion. He noted that the dominant portion of the latter mark is "Hav-a," and that the dominant portion of the former mark is "Hava." The addition of disclaimed descriptive words, he stated, does not alter the substantial identity of the two marks in so far as trade-mark significance is concerned.

It was urged that the goods of the parties are not the same because the cones of the Maryland Baking Company, Inc.,

"are of an unusual kind, namely, cones having their stems protected by a jacket or individual wrapper salable to the last purchaser with the wrapper intact on the cone."

The First Assistant Commissioner observed, however, that the goods of such company are described in its application simply as "ice cream cones." The addition of a wrapper, he stated, does not change their descriptive properties.

NATIONAL BISCUIT COMPANY v. MARYLAND BAKING COMPANY, INC., Opposition No. 21,153.

In a decision rendered February 23, 1943 (166 Ms. Dec. 123, 56 U. S. P. Q. 448), *First Assistant Commissioner Frazer* affirmed the decision of the Examiner of Trade-Mark Interferences sustaining the opposition of National Biscuit Company, of New York, N. Y., to the application of Maryland Baking Company, Inc., of Baltimore, Md., for registration of the notation "Hav-a-wrap" as a trade-mark for ice cream cones. The First Assistant Commissioner stated that in the application the word "wrap" has been disclaimed in response to a ruling of the Examiner of Trade-Marks that such word is descriptive of the goods.

The opposition was based upon opposer's admittedly prior use upon the same goods of the trade-mark "Havacone." The First Assistant Commissioner stated that in said mark the word "cone" is descriptive, and he noted that in the copending application of National Biscuit Company for registration, involved in Trade-Mark Interference No. 3345, said word has been disclaimed.

For the reasons stated in his concurrently rendered decision in said interference, the First Assistant Commissioner was of the opinion that applicant's mark so nearly resembles the mark of opposer as to be likely to cause confusion.

NATIONAL BISCUIT COMPANY v. MARYLAND BAKING COMPANY, INC., Opposition No. 21,593.

In a decision rendered February 23, 1943 (166 Ms. Dec. 120, 56 U. S. P. Q. 449), *First Assistant Commissioner Frazer* affirmed the decision of the Examiner of Trade-Mark Interferences sustaining the opposition of National Biscuit Company, of New York, N. Y., to the application of Maryland Baking Company, Inc., of Baltimore, Md., for registration of the notation "Hav-a-wrap," the word "wrap" being disclaimed, as a trade-mark for paper wrappers. The First Assistant Commissioner also affirmed the action of the Examiner of Trade-Mark Interferences in refusing the registration applied for on the ex parte ground that applicant "has shown no trade-mark use of the notation" on the goods described.

Opposer relied upon its concededly prior use of the trade-mark "Havacone" for ice cream cones.

The First Assistant Commissioner concluded that applicant's goods and opposer's are goods of the same descriptive properties. He said:

"Generically speaking, ice cream cones and paper wrappers are merchandise of different descriptive properties. But applicant's paper wrappers are employed exclusively as a protective covering for the stems of ice cream cones, and reach the ultimate consumer only as a part of the complete cones as sold. So far as purchasers are concerned the cones and their wrappers are a single article of commerce, and would naturally be assumed to emanate from the same source. Under these circumstances I am of the opinion that applicant's paper wrappers and opposer's ice cream cones possess the same descriptive properties within the meaning of the Trade-Mark Act."

For the reasons stated in his concurrently rendered decision in Trade-Mark Interference No. 3345, the First Assistant Commissioner was further of the opinion that applicant's mark so nearly resembles opposer's mark as to be likely to cause confusion when applied to goods of the same descriptive properties. It followed, he said, that the opposition was properly sustained.

As to the refusal of registration, the First Assistant Commissioner stated:

"I agree with the Examiner of Interferences that applicant's mark does not function as a trade-mark for paper wrappers. Applicant does not deal in wrappers as such. It sells ice cream cones under the identical mark here sought to be registered, and affixes the mark to the goods by applying thereto the identical wrappers involved in the instant application. As so affixed the mark necessarily indicates origin of the cones rather than of the wrappers in which they are sold, and with respect to the wrappers per se would be unlikely to carry any trade-mark significance."

WILLIAM J. WARDALL, TRUSTEE OF THE ESTATE OF MCKESSON & ROBBINS, INCORPORATED, DEBTOR (MCKESSON & ROBBINS, INCORPORATED, SUBSTITUTED) v. COMEX WINE & SPIRITS, INC., Opposition No. 21,106.

In a decision rendered February 24, 1943 (166 Ms. Dec. 123, 556 U. S. P. Q. 450), *First Assistant Commissioner Frazer* affirmed the decision of the Examiner of Trade-Mark Interferences dismissing the opposition of William J. Wardall, Trustee of the Estate of McKesson & Robbins, Incorporated, Debtor (McKesson & Robbins, Incorporated, of Bridgeport, Conn., substituted) to the application of Comex Wine & Spirits, Inc., of New York, N. Y., for registration of the fanciful word "Delicia" as a trade-mark for wines.

Opposer pleaded its ownership and registration of the trade-mark "Santa Alicia" for the same goods.

The Examiner of Trade-Mark Interferences dismissed the opposition on the ground that the marks involved are not so similar as to be likely to cause confusion. The First Assistant Commissioner disagreed with this conclusion. He said:

"In view of the nature of the goods to which the marks are applied, and the fact that such goods are identical, I am unable to agree with the conclusion reached by the Examiner. Manifestly, the words 'Delicia' and 'Alicia' are very nearly alike both in appearance and in sound; and I doubt that the inclusion in opposer's mark of the word 'Santa' lends sufficient distinctiveness to insure against the possibility of confusion between the two marks as a whole."

The First Assistant Commissioner, however, was of the opinion that the opposition must be dismissed for another reason. He explained his position as follows:

"Opposer's registration was issued January 8, 1935, on an application filed September 13, 1934. Opposer took testimony, but made no attempt to prove actual use of its registered mark as of any time earlier than the date of the registration. Applicant claims use of the mark sought to be registered since December, 1933, and has established such use by testimony. Upon the record presented applicant thus appears to be the prior user and entitled to the registration of its mark, even though opposer's mark is registered and the two marks are confusingly similar. *The Jung Arch Brace Co. v. Scholl Manufacturing Co.*, 17 C. C. P. A. 772, 36 Fed. (2d) 1007."

THREE SISTERS, INC., v. SOUTHERN LIQUOR DISTRIBUTORS, INC., Opposition No. 21,283.

In a decision rendered February 26, 1943 (166 Ms. Dec. 126, — U. S. P. Q. —), *First Assistant Commissioner Frazer* granted a motion by Southern Liquor Distributors, Inc., of Jacksonville, Fla., for continuance of the hearing on its appeal from the decision of the Examiner of Trade-Mark Interferences sustaining the opposition of Three Sisters, Inc., of New York, N. Y., to its application for trade-mark registration.

In granting the motion, the First Assistant Commissioner stated:

"The Examiner of Interferences sustained the opposition of Three Sisters, Inc., to the application of Southern Liquor Distributors, Inc., for registration of its trade-mark. Unless and until his decision is reversed on appeal, the application stands rejected. Thus, while the showing presented in support of the motion is not very persuasive, it does not appear that opposer will be prejudiced by the proposed delay in disposing of the appeal."

JOHN WYETH & BROTHER, INCORPORATED, v. CAMPBELL PRODUCTS, INC., Opposition No. 21,376.

In a decision rendered February 26, 1943 (166 Ms. Dec. 125, — U. S. P. Q. —), *First Assistant Commissioner Frazer* reversed the decision of the Examiner of Trade-Mark Interferences and thereby sustained the opposition of John Wyeth & Brother, Incorporated, of Philadelphia, Pa., to the application of Campbell Products, Inc., of New York, N. Y., for registration of the word "Alutropin" as a trade-mark for

"colloidal aluminum hydroxide fortified with novatropine for the treatment of peptic ulcer and hyperchlorhydria."

The opposition was predicated upon opposer's ownership of the trade-mark "Alulotion" previously registered for

"a colloidal suspension of aluminum hydroxide in combination with other medicinal substances for treating infectious diseases of the skin."

It was the Examiner's opinion that, while the goods of the parties possess the same descriptive properties, they differ sufficiently in their specific characteristics to be sold without likelihood of

confusion under the respective marks in issue. However, it was the opinion of the First Assistant Commissioner that the goods of the parties are of the same descriptive properties and that the trade-marks are confusingly similar. The First Assistant Commissioner stated:

"Opposer's product is poisonous and is intended for external application, while applicant's product is intended for internal use and is nonpoisonous. The diseases for the treatment of which the two remedies are respectively designed are entirely unrelated. They are normally sold only on the prescription of a physician. On the other hand, both are stock medicines in liquid form, which reach the ultimate consumer in small bottles with labels bearing the trade-marks affixed. And while sales are made on prescription, there is no apparent reason why this practice may not be changed by either or both of the parties, nor why informed purchasers may not now buy without prescription.

"The trade-marks 'Alulotion' and 'Alutropin' are quite similar in appearance and in sound, and viewed in their entireties neither has any particular significance. It seems to me that they bear such resemblance that one may readily be mistaken for the other by the average layman, and I do not consider the improbability of confusion among physicians and druggists to be of controlling importance."

TRADE-MARKS

OFFICIAL GAZETTE, MARCH 30, 1943

[VOL. 548. No. 5]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 455,129. PLASTALLOY COMPANY, Burbank, Calif. Filed Aug. 26, 1942.

PLASTALLOY.

FOR THERMOPLASTIC SYNTHETIC RESINS.
Claims use since Apr. 1, 1941.

Ser. No. 457,420. THE PACIFIC LUMBER COMPANY, San Francisco, Calif. Filed Dec. 15, 1942.

Palconia

FOR SHREDDED BARK FIBER.
Claims use since Dec. 4, 1942.

Ser. No. 457,976. INTERNATIONAL MILLING COMPANY, Minneapolis, Minn. Filed Jan. 18, 1943.

ALCOMEAL

FOR WHEAT MEAL IN GRANULAR FORM FOR USE IN THE MANUFACTURE OF ALCOHOL.
Claims use since Dec. 2, 1942.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 454,049. ARKANSAS COMPANY, INC., Newark, N. J. Filed July 4, 1942.

LANITOL

FOR COMPOUND HAVING DETERGENT, PENETRATING AND EMULSIFYING PROPERTIES.
Claims use since January, 1938.

Ser. No. 457,118. ABRAHAM S. FREEMAN, doing business as Beacon Sales Company, Cleveland, Ohio. Filed Nov. 30, 1942.



Applicant makes no claim for the words "Fully Guaranteed High Speed Action" apart from the mark.
FOR SHAVING CREAM.
Claims use since July 1, 1942.

Ser. No. 457,988. OIL SPECIALTIES & REFINING CO., INC., Brooklyn, N. Y. Filed Jan. 18, 1943.



The word "Rouge" is disclaimed apart from the mark.
FOR METAL POLISH.
Claims use since June, 1937.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 454,586. UNITED CHEMICAL COMPANY, INC., Kansas City, Mo. Filed July 29, 1942.

PLIABA

FOR GLYCERINE SUBSTITUTE.
Claims use since December, 1918.

Ser. No. 456,150. LAMBERT VITAMINS COMPANY, INC., New York, N. Y. Filed Oct. 12, 1942.

nutri-mins

FOR VITAMIN TABLETS.
Claims use since Sept. 16, 1942.

Ser. No. 457,526. MEDICAL CHEMICALS, INC., Baltimore, Md. Filed Dec. 19, 1942.

ISO-PARINOL

FOR GERMICIDAL AND FUNGICIDAL PREPARATIONS.
Claims use since Mar. 15, 1942.

Ser. No. 457,659. THE SYDNEY ROSS CO., Newark, N. J. Filed Dec. 30, 1942.



The drawing is lined for red and blue. Applicant is the owner of trade-mark 187,391, effected under the 10-year proviso, comprising the name "Ross." No claim is made to the word "Tonico" per se.

FOR PREPARATION FOR USE IN THE TREATMENT OF INAPPETENCE, GENERAL DEBILITY, EXHAUSTION, ANEMIA, NEURASTHENIA, NERVOUS DEPRESSION, DURING CONVALESCENCE.
Claims use since Nov. 18, 1942.

Ser. No. 457,765. LIBERTY VITAMIN CORPORATION, New York, N. Y. Filed Jan. 5, 1943.

SCORBIN

FOR MEDICINAL PREPARATION IN TABLET FORM FOR PROPHYLAXIS AGAINST HEAT EXHAUSTION.
Claims use since Dec. 21, 1942.

Ser. No. 457,914. THE GROVE LABORATORIES, INC., doing business as Beaumont Company, Wilmington, Del., and St. Louis, Mo. Filed Jan. 14, 1943.

VEDS

FOR VITAMIN CAPSULES.
Claims use since Dec. 29, 1942.

Ser. No. 458,034. COTY, INC., New York, N. Y. Filed Jan. 20, 1943.

Sophisticate

FOR FACE POWDER, DUSTING POWDER, TOILET WATER, PERFUME, SUNTAN OIL, SKIN AND HAIR LOTIONS, BRILLIANTINE, ROUGE COMPACTS, POWDER COMPACTS, LIPSTICKS, SACHET POWDERS, FACE CREAMS, BATH SALTS, TALCUM POWDERS, ROUGES.
Claims use since Jan. 5, 1943.

Ser. No. 458,082. SEEMAN BROTHERS, INC., New York, N. Y. Filed Jan. 21, 1943.

MONIO

FOR AMMONIA SUBSTITUTE.
Claims use since Dec. 28, 1942.

Ser. No. 458,174. GAMBLE STORES INCORPORATED, Minneapolis, Minn. Filed Jan. 26, 1943.

Gold Crest

FOR VITAMIN B COMPLEX CAPSULES, BREWERS' YEAST TABLETS, MINERAL OIL FOR MEDICINAL PURPOSES, HALIBUT LIVER OIL CAPSULES, AND IMPROVED A, B_1, D, and G(B_2) VITAMIN CAPSULES.
Claims use since Jan. 10, 1943.

Ser. No. 458,190. THE GROVE LABORATORIES, INC., doing business as Beaumont Company, Wilmington, Del., and St. Louis, Mo. Filed Jan. 27, 1943.

4 WAY

FOR VITAMIN CAPSULES.
Claims use since Dec. 30, 1942.

Ser. No. 458,252. STANDARD BRANDS INCORPORATED, New York, N. Y. Filed Jan. 30, 1943.

STAMS

FOR MULTI-VITAMIN AND MINERAL TABLETS.
Claims use since Dec. 3, 1942.

Ser. No. 458,292. L. SONNEBORN SONS, INC., New York, N. Y. Filed Feb. 1, 1943.

DURAPEL

FOR CHEMICAL PRODUCT—NAMELY, A WATER REPELLENT COMPOSITION FOR TREATING TEXTILES.
Claims use since Sept. 18, 1942.

Ser. No. 458,350. WINTHROP CHEMICAL COMPANY, INC., New York, N. Y. Filed Feb. 4, 1943.

niphanoid

FOR ANESTHETIC PREPARATIONS, PREPARATIONS FOR DETERMINING BLOOD CLOTTING CAPACITY, AND PREPARATIONS FOR THE TREATMENT OF DEFICIENCIES OF VITAMIN B COMPLEX FACTORS, IN INSTANTLY SOLUBLE FORM.
Claims use to anesthetic preparations since June 9, 1938; to preparations for determining blood clotting capacity since Apr. 21, 1942; and to preparations for the treatment of deficiencies of vitamin B complex factors since Oct. 29, 1942.

Ser. No. 458,399. THE MEIERS COMPANY, Appleton, Wis. Filed Feb. 8, 1943.

Ad-a-Da

FOR VITAMINIC PREPARATION
Claims use since Dec. 1, 1942.

Ser. No. 458,458. THE FRYE COMPANY, Watertown, Mass. Filed Feb. 10, 1943.

PAN BISDA

FOR MEDICINAL PREPARATION USED FOR THE RELIEF OF FUNCTIONAL GASTRO-INTESTINAL DISORDERS CAUSED BY HYPERACIDITY.
Claims use since Jan. 1 1943.

Ser. No. 458,491. FLOWER FOODS, INC., Maywood, Ill. Filed Feb. 12, 1943.

ORCHIDLIFE

FOR SOLUTION CONTAINING CHEMICAL INGREDIENTS FOR STRENGTHENING, FEEDING, AND PROMOTING THE DEVELOPMENT OF CUT PLANTS.
Claims use since July 29, 1926.

CLASS 8

SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 457,938. MCDONALD PRODUCTS CORPORATION, Buffalo, N. Y. Filed Jan. 15, 1943.

bean-bag

FOR ASH TRAYS.
Claims use since Mar. 25, 1939.

CLASS 9

EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES

Ser. No. 457,603. JOHN S. CURTISS, El Paso, Tex. Filed Dec. 26, 1942.



FOR BLASTING CAP PROTECTORS AND DEVICES FOR CARRYING AND APPLYING THE SAME.
Claims use since Nov. 27, 1942.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 455,617. UNION ASBESTOS & RUBBER COMPANY, Chicago, Ill. Filed Sept. 18, 1942.

INSUTUBE

FOR THERMAL PIPE INSULATION.
Claims use since Sept. 1, 1942.

Ser. No. 455,729. HASKELITE MANUFACTURING CORPORATION, Chicago, Ill. Filed Sept. 24, 1942.

PLYMOLD

FOR UNFINISHED PLYWOOD SHAPED IN THE FORM OF SHELLS AND PANELS.
Claims use since July 22, 1942.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 451,127. VITA-VAR CORPORATION; Newark, N. J. Filed Feb. 20, 1942.

SILVER-LUX

The word "Silver" is disclaimed apart from the mark.
FOR READY MIXED PAINTS, VARNISHES, AND PAINT ENAMELS.
Claims use since Dec. 12, 1941.

Ser. No. 457,378. LEONARD BOGDANOFF, New York, N. Y. Filed Dec. 14, 1942.

Pocour

FOR ARTISTS' MATERIALS—NAMELY, ALL KINDS OF ARTISTS' COLORS.
Claims use since Feb. 14, 1933.

Ser. No. 458,226. PITTSBURGH PLATE GLASS COMPANY, Pittsburgh, Pa. Filed Jan. 29, 1943.

Techide

FOR LIQUID AND PASTE PAINTS, PAINT PRIMERS, PAINT ENAMELS AND LACQUERS, AND VARNISHES.
Claims use since Jan. 4, 1943.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 457,806. COSMETICS RESEARCH CORPORATION, doing business as Don Leslie, West Haven, Conn., and New York, N. Y. Filed Jan. 8, 1943.

COLLEGE Club

FOR SMOKING TOBACCO.
Claims use since Dec. 20, 1942.

Ser. No. 457,856. JOHN P. LIEBERMAN & CO., Detroit, Mich. Filed Jan. 11, 1943. Under 10-year proviso.



LIEBERMAN'S

FOR SMOKING AND CHEWING TOBACCO.
Claims use since 1880.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 456,447. BRELCO RADIO COMPANY, New York, N. Y. Filed Oct. 27, 1942.

BRELCO

FOR RADIO TRANSMITTERS AND RECEIVERS; RADIO BROADCASTING, GENERAL ANNOUNCING AND PUBLIC ADDRESS APPARATUS AND PARTS THEREFOR; AMPLIFYING APPARATUS, AUDIO AMPLIFIERS, AND AMPLIFIER CONTROLS, FOR GENERAL ANNOUNCING AND PUBLIC ADDRESS SYSTEMS.
Claims use since Apr. 7, 1942.

Ser. No. 456,560. S. C. JOHNSON & SON, INC., Racine, Wis. Filed Oct. 31, 1942.

JOHNSON'S *Streamliner* POLISHER

Applicant is owner of Reg. Nos. 51,991 and 224,358, covering the name "Johnson's" and effected under the 10-year proviso. No claim is made to the word "Polisher" apart from the mark.
FOR ELECTRIC FLOOR POLISHING MACHINES.
Claims use since Sept. 15, 1941; and since Dec. 17, 1924 for the name "Johnson's" alone.

Ser. No. 458,119. THE NATIONAL TILE COMPANY, Anderson, Ind. Filed Jan. 23, 1943.

Natico

FOR STEATITE INSULATORS USED AS COMPONENT PARTS OF RADIO SETS.
Claims use since Jan. 16, 1943.

Ser. No. 458,255. TITEFLEX METAL HOSE CO., Newark, N. J. Filed Jan. 30, 1943.

unimold

FOR UNITARY, DETACHABLE, FILLED, RADIO-SHIELDED SPARK PLUG LEADS FOR THE IGNITION OF INTERNAL COMBUSTION ENGINES.
Claims use since Nov. 10, 1942.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 421,597. CARTER CARBURETOR CORPORATION, St. Louis, Mo. Filed July 15, 1939.

CARTER CLIMATIC CONTROL

The words "Carter" and "Control" are disclaimed apart from the mark.
FOR INTERNAL COMBUSTION ENGINE CARBURETORS.
Claims use since November, 1933.

Ser. No. 450,047. CHICAGO PNEUMATIC TOOL COMPANY, New York, N. Y. Filed Jan. 7, 1942.

PNEUDRAULIC

FOR HYDRAULIC RIVETERS HAVING AIR-OPERATED MEANS FOR GENERATING THE HYDRAULIC PRESSURE.
Claims use since December, 1937.

Ser. No. 450,264. MINE SAFETY APPLIANCES COMPANY, Pittsburgh, Pa. Filed Jan. 16, 1942.

M S A

FOR MINE ROCK DUST DISTRIBUTORS, MINE FIRE TRUCKS, LIMESTONE PULVERIZERS, OXYGEN PUMPS, EXPLOSIVELY ACTUATED TOOLS FOR PUNCHING HOLES IN METAL, EXPLOSIVELY ACTUATED TOOLS FOR DRIVING STUDS INTO METAL, EXPLOSIVELY ACTUATED CABLE SPLICERS, RIVET EXPANDERS, RIVET REMOVERS, PIPE BONDING PRESSES AND CABLE CUTTERS.
Claims use since Oct. 6, 1924.

Ser. No. 453,633. CASTALOY CORPORATION, Detroit, Mich. Filed June 13, 1942.

CASTALOY FIXTURE
TRADE MARK
CASTALOY
CORPORATION

No claim is made to the words "Fixture" and "Trade-Mark" apart from the mark.
FOR FIXTURES OF ALL TYPES—NAMELY, FIXTURES FOR CHECKING THE SHAPE AND CONTOUR OF DIES, JIGS, TOOLS, FIXTURES, ETC., FORMING, ASSEMBLING, DRILLING, WELDING, AND SPOTTING FIXTURES.
Claims use since May 21, 1942.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 456,644. WELMAID PRODUCTS, Chicago, Ill. Filed Nov. 4, 1942.

WHITE FLYER

FOR IRONING TABLE PADS AND COVERS.
Claims use since Jan. 14, 1941.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 457,601. COMMUNICATION MEASUREMENTS LABORATORY, New York, N. Y. Filed Dec. 26, 1942.

ROTOBRIDGE

FOR AUTOMATIC TESTER FOR USE WITH ALL TYPES OF ELECTRONIC EQUIPMENT ENABLING UNSKILLED WORKERS TO MAKE HIGH SPEED TESTS FOR CIRCUIT WIRING ERRORS, PROPER RESISTANCE, CAPACITY, AND INDUCTANCE VALUES.
Claims use since Dec. 10, 1942.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 456,349. EMIL VON BURG, doing business as American Grana Watch Company, New York, N. Y. Filed Oct. 22, 1942.

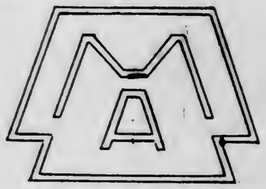
CERTINA

FOR WATCHES, PARTS THEREOF, WATCH MOVEMENTS, AND CLOCKS.
Claims use since 1880.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 457,868. ARTHUR ALBANESE, doing business as Marvel Jewelry Mfg. Company, Providence, R. I. Filed Jan. 12, 1943.



FOR JEWELRY—NAMELY, EXPANSION BRACELETS.
Claims use since Aug. 6, 1942.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 450,591. HOLOPHANE COMPANY, INC., New York, N. Y. Filed Jan. 30, 1942.



No claim is made to the words "Better Light for Greater Speed" apart from the mark.

FOR GLASS AND COMBINATION GLASS AND METAL GLOBES AND REFLECTORS.

Claims use since Jan. 15, 1942.

CLASS 37

PAPER AND STATIONERY

Ser. No. 450,142. PAPER PRODUCTS, Oconomowoc, Wis. Filed Jan. 10, 1942.

Quik-letters

The word "letters" is disclaimed apart from the mark.

FOR COMBINATION OF ENVELOPE AND LETTER-FOLDER SHEETS.

Claims use since Dec. 20, 1941.

Ser. No. 455,064. FREDERIC T. BURKHARDT, Holyoke, Mass. Filed Aug. 24, 1942.

SNOW BRITE BOND

Applicant disclaims the word "Bond" apart from the mark.

FOR WRITING AND PRINTING PAPER.

Claims use since July 27, 1942.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 455,576. TERRYTOONS, INC., New Rochelle, N. Y. Filed Sept. 16, 1942.

TERRY-TOONS

FOR MAGAZINE FOR COMIC STRIPS.

Claims use since July 29, 1942.

Ser. No. 457,950. FAMOUS FUNNIES, INC., Waterbury, Conn. Filed Jan. 16, 1943.

JINGLE JANGLE COMICS

The word "Comics" is disclaimed apart from the mark.

FOR COMIC MAGAZINES OF CARTOONS, COMIC AND CARTOON STRIPS, PUZZLES, GAMES, TRICKS OF MAGIC, STORIES, LESSONS, ADVERTISEMENTS, ETC., PUBLISHED IN A SERIES.

Claims use since Dec. 15, 1942.

Ser. No. 458,300. GEORGE WENDELL ADAMS, CHARLES E. HEITMAN, NELVIA E. RITCHIE, W. STUART BOOTH, FRANCIS LYSTER JANDRON, AND JOSIAH E. FERNALD, TRUSTEES UNDER THE WILL OF MARY BAKER G. EDDY, DECEASED, Boston, Mass. Filed Feb. 2, 1943.

Mary Baker Eddy

Trade-mark consists of a facsimile of the signature of said Mary Baker G. Eddy.

FOR PRINTED BOOKS AND PUBLICATIONS PUBLISHED PERIODICALLY.

Claims use since Dec. 28, 1942.

Ser. No. 458,304. HEY-RUBE, INC., Tulsa, Okla. Filed Feb. 2, 1943.



FOR SOUVENIR PROGRAM, ISSUED PERIODICALLY.

Claims use since Jan. 20, 1943.

CLASS 39

CLOTHING

Ser. No. 454,464. S. A. FABRICA ARGENTINA DE ALPARGATAS, Buenos Aires, Argentina. Filed July 23, 1942.

LUNA



FOR MEN'S AND WOMEN'S JUTE OR HEMP SOLED FABRIC SHOES.

Claims use since July, 1910.

Ser. No. 456,080. AARON NEWMAN, Brooklyn, N. Y. Filed Oct. 8, 1942.



FOR MEN'S AND BOYS' NECKTIES AND CRAVATS.

Claims use since June, 1940.

Ser. No. 456,953. ZINAIDA HARPIONIES, New York, N. Y. Filed Nov. 21, 1942.

Zinaïda

FOR WOMEN'S WEARING APPAREL—NAMELY, HATS, DRESSES, AND GLOVES MADE OF LEATHER OR FABRIC.

Claims use since October, 1941.

Ser. No. 457,371. M. J. SAKS SHOE CORP., New York, N. Y. Filed Dec. 12, 1942.

MODERNETTE

by SAKS new york

The words "By Saks New York" are disclaimed apart from the mark.

FOR BOOTS, SHOES, PUMPS, SLIPPERS, AND SANDALS MADE OF LEATHER, FABRIC AND/OR PLASTIC MATERIALS.

Claims use since Oct. 28, 1942.

Ser. No. 457,394. JOHN LUCURELL, Seattle, Wash. Filed Dec. 14, 1942.

Beth

FOR LADIES' TRIMMED HATS.

Claims use since Oct. 12, 1942.

Ser. No. 457,537. CHARLES A. BLOCK, doing business as H & L Block, San Francisco, Calif. Filed Dec. 21, 1942.

WINDBLOCK

FOR JACKETS FOR MEN, WOMEN, AND CHILDREN.

Claims use since Nov. 15, 1942.

Ser. No. 457,673. MILTON BRODKIN, New York, N. Y. Filed Dec. 31, 1942.

Makers of Milshap Hats

Applicant disclaims the wording "Makers of" and "Hats" and the picture of a hat and bandbox except as shown.

FOR WOMEN'S AND CHILDREN'S HATS, BERETS, AND TAM-O-SHANTERS.

Claims use since Nov. 13, 1942.

Ser. No. 457,801. ALPHA MILLS, Schuylkill Haven, Pa. Filed Jan. 8, 1943.

Bartonettes

FOR INFANTS' AND CHILDREN'S CREEPERS, SWEATERS, TWO-PIECE ROMPER SUITS, PANTS, NIGHTGOWNS, AND PAJAMAS.

Claims use since July 17, 1941.

Ser. No. 457,809. GENERAL SHOE CORPORATION, Nashville, Tenn. Filed Jan. 8, 1943.

BRAWNY BROGUES

No claim is made to the word "Brogues" apart from the mark.

FOR MEN'S, WOMEN'S, AND CHILDREN'S SHOES MADE OF LEATHER, FABRIC, AND COMBINATIONS THEREOF.

Claims use since August, 1940.

Ser. No. 458,191. HATCH FULL FASHIONED HOSIERY CO., Belmont, N. C. Filed Jan. 27, 1943.

LEGACY

FOR HOSIERY.
Claims use since Aug. 1, 1942.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 457,500. J. S. MASON & SONS, INC., Westboro, Mass. Filed Dec. 18, 1942.



Applicant disclaims the words "Narrow Fabrics" apart from the mark.
FOR NARROW FABRICS—NAMELY, COTTON AND LINEN TAPE, BRAIDS, AND WEBBING; WOOL BRAID; AND ELASTIC WEBBING.
Claims use since May 12, 1942.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 457,629. EMILE MEYER, doing business as Haslin Mills, New York, N. Y. Filed Dec. 28, 1942.

RAINBREAKER

FOR WATER REPELLENT FABRICS IN THE PIECE OF COTTON, RAYON, AND COMBINATIONS THEREOF.
Claims use since Dec. 1, 1941.

Ser. No. 457,778. PURITAN RUG CO., New York, N. Y. Filed Jan. 6, 1943.

"SKATTIES"

FOR SCATTER AND NOVELTY RUGS.
Claims use since Feb. 19, 1942.

CLASS 43

THREAD AND YARN

Ser. No. 455,019. JOHN C. HORSFALL & SONS LIMITED, Glusburn, near Keighley, England. Filed Aug. 21, 1942.



The words "Knitting Wools" are disclaimed apart from the mark.
FOR KNITTING WOOLS.
Claims use since Oct. 26, 1886.

Ser. No. 458,207. THE DUPLAN CORPORATION, New York, N. Y. Filed Jan. 28, 1943.

GLASBESTEX

FOR YARNS MADE OF SILK, RAYON, WOOL, AND COTTON AND MIXTURES.
Claims use since Jan. 18, 1943.

CLASS 45

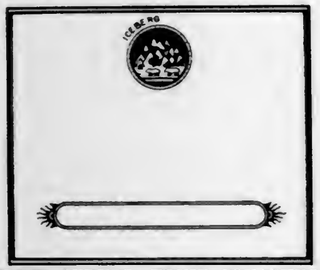
BEVERAGES, NONALCOHOLIC

Ser. No. 434,553. CHAPMAN & SMITH COMPANY, Chicago, Ill. Filed Aug. 1, 1940.

CASCO

FOR NONALCOHOLIC MALTLESS EXTRACTS FOR FLAVORING BEVERAGES.
Claims use since April, 1936.

Ser. No. 444,845. E. WYER & SONS, LIMITED, also doing business as Clayton Brothers, London, England. Filed June 25, 1941.



FOR FRUIT SYRUPS, FRUIT SQUASHES, FRUIT EXTRACTS, FRUIT FLAVOURS, KOLA NUT EXTRACTS, PEPPERMINT CORDIALS, LEMON AND BARLEY WATER, GRAPE FRUIT BARLEY AND GINGER WINE AND GINGER BEER, ALL BEING NON-ALCOHOLIC AND ALL BEING PREPARATIONS FOR MAKING BEVERAGES.
Claims use since Jan. 1, 1940. That portion of the said trade-mark which consists of the device has been continuously used by the applicant and its predecessors in their business since Apr. 27, 1869, in respect of "mineral and aerated waters, natural and artificial, including ginger beer"; that portion of the mark which consists of the word "Iceberg" has been continuously used in applicant's business in connection with "mineral and aerated waters, natural and artificial, including ginger beer" since May 21, 1914, and in connection with the applicant's business in non-alcoholic beverages and preparations for making non-alcoholic beverages, since Jan. 13, 1931.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 441,325. PACIFIC FRUIT & PRODUCE COMPANY, Seattle, Wash. Filed Mar. 7, 1941.

PACIFIC
BRAND



No claim is made to the word "Brand."
FOR FRESH DECIDUOUS FRUITS AND FRESH VEGETABLES.
Claims use since October, 1917; and since 1909 for the word "Pacific."

Ser. No. 451,451. C. F. SIMONIN'S SONS, INC., Philadelphia, Pa. Filed Mar. 6, 1942.

POPSIT

FOR EDIBLE VEGETABLE OIL FOR USE AS A COOKING OIL, SEASONING OIL, OR AS A SHORTENING.
Claims use since Feb. 9, 1942.

Ser. No. 452,614. KENTUCKY MACARONI COMPANY, Louisville, Ky. Filed Apr. 27, 1942.

KENROSE

FOR ALIMENTARY PASTE PRODUCTS—NAMELY, SPAGHETTI, MACARONI, ELBOW SPAGHETTI, AND NOODLES.
Claims use since Feb. 19, 1942.

Ser. No. 454,757. JERSEY CEREAL COMPANY, Chicago, Ill. Filed Aug. 6, 1942.

CHANGE-A-DAY

FOR BREAKFAST CEREALS.
Claims use since May, 1942.

Ser. No. 455,375. HILLSBOROUGH PACKING COMPANY, INC., Tampa, Fla. Filed Sept. 5, 1942.

RIVER KING

FOR FRESH CITRUS FRUITS.
Claims use since Jan. 5, 1938.

Ser. No. 455,517. PURO PRODUCTS COMPANY, Chicago, Ill. Filed Sept. 14, 1942.

A.-C.

FOR FOOD COMPOSITIONS CONTAINING CORN SYRUP SOLIDS, SUCROSE, CALCIUM SUCRATE, CALCIUM CARBONATE, MAGNESIUM OXIDE, OR LIKE INGREDIENTS FOR ADJUSTING THE SALTS BALANCE AND/OR SOLIDS CONTENT OF ICE CREAM, BUTTERMILK, COTTAGE CHEESE, AND RELATED FOODS.
Claims use since July 22, 1941.

Ser. No. 457,009. WILLIAM H. MACFARLAND, SR., Philadelphia, Pa. Filed Nov. 24, 1942.



The portrait is that of applicant.
FOR DEXTROSE WAFERS.
Claims use since May 12, 1939.

Ser. No. 457,425. SUNDOX PRODUCTS LIMITED, Gateshead, England. Filed Dec. 15, 1942.

SUNDOX

FOR MEAT AND VEGETABLE EXTRACT.
Claims use since Jan. 19, 1938.

Ser. No. 457,572. DELANE BROWN, INC., Towson, Md. Filed Dec. 23, 1942.



The applicant is the owner of Trade-Mark No. 242,102, registered May 15, 1928, and of Trade-Mark No. 242,103, registered May 15, 1928. No claim is made to the word "Purity" apart from the mark.

FOR SPECIAL PURPOSE FOOD, AUXILIARY OR DIETARY SUPPLEMENT FOOD FOR HUMAN CONSUMPTION, CONTAINING DRIED PEAS, CARROTS, CELERY, PARSLEY, MUSHROOMS, WHEAT CEREAL, STAR NOODLES, CORN DEXTROSE, CORN STARCH, COTTON SEED OIL, SPICES, SALT, AND ARTIFICIALLY FLAVORED WITH A WHEAT PROTEIN DERIVATIVE FOR MAKING EGG NOODLE SOUP.

Claims use since December, 1914.

Ser. No. 457,895. FISHER FLOURING MILLS COMPANY, Harbor Island, Seattle, Wash. Filed Jan. 13, 1943.

CARRYALL

FOR WHEAT FLOUR.

Claims use since Dec. 8, 1942.

Ser. No. 457,985. CHARLES T. MORRISSEY, doing business as Charles T. Morrissey & Company, Chicago, Ill. Filed Jan. 18, 1943.

EGGINE

FOR EGG SUBSTITUTE DERIVED FROM MILK, MAIZE, AND SODA AND USED IN BAKING AND COOKING.

Claims use since February, 1942.

Ser. No. 458,201. STANDARD BRANDS INCORPORATED, New York, N. Y. Filed Jan. 27, 1943.

Sted

FOR CEREAL BEVERAGE PREPARATION SUITABLE FOR USE WITH, OR AS A SUBSTITUTE FOR, COFFEE, FOR MAKING A TABLE BEVERAGE.

Claims use since Dec. 24, 1942.

Ser. No. 458,272. LA CHOY FOOD PRODUCTS, INC., Archbold, Ohio. Filed Feb. 1, 1943.

VEGAMATO

FOR MIXED FRUIT AND VEGETABLE JUICE.

Claims use since Nov. 18, 1942.

Ser. No. 458,334. JOE LOWE CORPORATION, New York, N. Y. Filed Feb. 4, 1943.

RIVET

FOR FROZEN CONFECTIONS.

Claims use since Jan. 25, 1943.

Ser. No. 458,373. THE QUAKER OATS COMPANY, Chicago, Ill. Filed Feb. 6, 1943.

AUNT JEMIMA



The picture is not the portrait of any individual.

FOR SOUPS.

Claims use since Jan. 6, 1943.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 449,985. ESTHER BERGERON, doing business under the fictitious name and style of Trader Vic, Oakland, Calif. Filed Jan. 5, 1942.



The words "Fine Rum" and "Rums" and the outline of a label are disclaimed apart from the mark.

FOR RUM.

Claims use since Mar. 1, 1938.

Ser. No. 450,660. OLD WESTON DISTILLING CO., Weston, Mo. Filed Feb. 2, 1942.



The signature "E. R. McCormick" is that of applicant's predecessor in business.

FOR WHISKEY.

Claims use since Aug. 8, 1933.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 457,610. METAL DECORATING & MFG. CO., Chicago, Ill. Filed Dec. 26, 1942.

METCO

FOR METAL, PLASTIC, AND COMPOSITION NAME, NUMBER AND LETTER PLATES, SEALS, AND TAGS.

Claims use since Dec. 3, 1942.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

MARCH 30, 1943

400,717. FOOD OR TONIC FOR PLANTS. William H. Rorer, Inc., Philadelphia, Pa.
Filed November 22, 1940. Serial No. 438,156. PUBLISHED JANUARY 21, 1941. Class 10.

400,718. BOXES AND CARTONS MADE OF PAPER MATERIAL. The Hinde & Dauch Paper Company, Sandusky, Ohio.
Filed March 14, 1941. Serial No. 441,538. PUBLISHED JANUARY 19, 1943. Class 2.

400,719. COFFEE, TEA, MUSTARD, GELATIN DESSERTS, BAKING POWDER, MAYONNAISE, AND SALAD DRESSING. Continental Coffee Company, Inc., Chicago, Ill.
Filed June 23, 1941. Serial No. 444,756. PUBLISHED JANUARY 19, 1943. Class 46.

400,720. JOINT SEALING MATERIAL OR THE LIKE COMPRISING A PREPARED CAULKING COMPOUND. Plastic Products Company, Detroit, Mich.
Filed June 27, 1941. Serial No. 444,912. PUBLISHED JANUARY 27, 1942. Class 12.

400,721. PUBLICATION PUBLISHED QUARTERLY CONTAINING SERIES OF CARTOONS, FICTION, ARTICLES, AND EDITORIAL MATTER. The Parents' Magazine Press, Inc., New York, N. Y., assignor to The Parents' Institute, Inc., New York, N. Y., a corporation of New York.
Filed August 6, 1941. Serial No. 446,029. PUBLISHED JANUARY 12, 1943. Class 38.

400,722. VEGETABLE SHORTENING. Wilson & Co., Inc., Chicago, Ill.
Filed September 16, 1941. Serial No. 447,086. PUBLISHED APRIL 28, 1942. Class 46.

400,723. FRESH TOMATOES. Charles Zuritsky, doing business as A. Zuritsky & Sons, Philadelphia, Pa.
Filed October 30, 1941. Serial No. 448,274. PUBLISHED JANUARY 19, 1943. Class 46.

400,724. SPONGES. Gulf & West Indies Co., Inc., New York, N. Y.
Filed November 5, 1941. Serial No. 448,413. PUBLISHED JANUARY 19, 1943. Class 1.

400,725. ADHESIVE CEMENT USED FOR CEMENTING RUBBER TO CLOTH, GLASS, METAL, RUBBER, AND WOOD. Morenci Allied Products, Morenci, Mich.
Filed November 12, 1941. Serial No. 448,573. PUBLISHED JANUARY 19, 1943. Class 5.

400,726. COIN RECEPTACLES COMPRISING VERTICALLY DISPOSED BORES AND MEANS DISPOSED ACROSS THE BOTTOM OF EACH BORE FOR DISCHARGING PREDETERMINED NUMBERS OF COINS FROM THE BORES. Daniel D. Kilcup, Portland, Oreg.
Filed December 9, 1941. Serial No. 449,324. PUBLISHED JANUARY 19, 1943. Class 2.

400,727. CANNED FRUITS, BERRIES, AND VEGETABLES. Western Oregon Packing Corporation, Corvallis, Oreg.
Filed January 24, 1942. Serial No. 450,464. PUBLISHED JANUARY 19, 1943. Class 46.

400,728. VERY THIN TREATED FABRIC SHEETING IN THE PIECE TO RENDER IT WATERPROOF, ETC. I. B. Kleinert Rubber Company, New York, N. Y.
Filed April 22, 1942. Serial No. 452,503. PUBLISHED JANUARY 19, 1943. Class 50.

400,729. MAYONNAISE, THOUSAND ISLAND DRESSING, ROQUEFORT CHEESE DRESSING, GOLDEN FRENCH DRESSING, VEGETABLE FRENCH DRESSING, RUSSIAN DRESSING, AND CHOCOLATE SAUCE. Hearthstone House, Winnetka, Ill.
Filed May 2, 1942. Serial No. 452,746. PUBLISHED JANUARY 19, 1943. Class 46.

400,730. WEEKLY MAGAZINE. Time, Incorporated, New York, N. Y.
Filed May 8, 1942. Serial No. 452,897. PUBLISHED JANUARY 19, 1943. Class 38.

400,731. COMBINATION SANITARY BELTS AND PANTIE BRIEFS. Weber Foundations, Inc., New York, N. Y.
Filed May 26, 1942. Serial No. 453,287. PUBLISHED JANUARY 19, 1943. Class 44.

400,732. COMBINATION SANITARY BELTS AND PANTIE BRIEFS. Weber Foundations, Inc., New York, N. Y.
Filed May 26, 1942. Serial No. 453,288. PUBLISHED JANUARY 19, 1943. Class 44.

400,733. VARNISH BRUSHES, WALL BRUSHES, SASH BRUSHES, AND LACQUER BRUSHES. Elephant Brush Company, Limited, London, England.
Filed May 28, 1942. Serial No. 453,325. PUBLISHED JANUARY 5, 1943. Class 29.

400,734. VARNISH BRUSHES, WALL BRUSHES, SASH BRUSHES, AND LACQUER BRUSHES. Elephant Brush Company, Limited, London, England.
Filed May 28, 1942. Serial No. 453,326. PUBLISHED JANUARY 5, 1943. Class 29.

400,735. LUBRICATING OILS FOR CUTTING AND DRILLING TOOLS. International Chemical Company, Inc., Philadelphia, Pa.
Filed June 17, 1942. Serial No. 453,721. PUBLISHED AUGUST 11, 1942. Class 15.

400,736. MOTION PICTURE SCREENS. Da-Lite Screen Company, Inc., Chicago, Ill.
Filed June 18, 1942. Serial No. 453,732. PUBLISHED JANUARY 19, 1943. Class 26.

400,737. WINES. Napa & Sonoma Wine Co., San Francisco, Calif.
Filed June 20, 1942. Serial No. 453,780. PUBLISHED DECEMBER 29, 1942. Class 47.

400,738. CLOCKS, RADIO STATION SELECTING CLOCKS, AND AUTOMATIC STARTING TIMERS. Philco Corporation, Philadelphia, Pa.
Filed July 21, 1942. Serial No. 454,376. PUBLISHED JANUARY 19, 1943. Class 27.

400,739. WEEKLY MAGAZINE. Parade Publication, Inc., New York, N. Y.
Filed August 1, 1942. Serial No. 454,669. PUBLISHED JANUARY 19, 1943. Class 38.

400,740. CANNED MEAT PRODUCTS—NAMELY, LUNCHEON MEAT AND HAM. Baker Food Products Company, Chicago, Ill.
Filed August 5, 1942. Serial No. 454,727. PUBLISHED JANUARY 19, 1943. Class 46.

400,741. GAUGES FOR MEASURING AND CHECKING DIMENSIONS—NAMELY, THREAD GAUGES, RING GAUGES, PLUG GAUGES, SNAP GAUGES, CALIPER GAUGES AND GAUGE BLOCKS. General Power Plant Corporation, New York, N. Y., assignor to Helix Gage Works, Inc., New York, N. Y.
Filed August 6, 1942. Serial No. 454,756. PUBLISHED JANUARY 19, 1943. Class 26.

400,742. READY MIXED PAINTS. Capitol Paint & Varnish Works, Inc., Chicago, Ill.
Filed August 10, 1942. Serial No. 454,823. PUBLISHED JANUARY 19, 1943. Class 16.

400,743. OILS, HAVING RUST, CORROSION AND GUM DISSOLVING PROPERTIES, CLEANING PROPERTIES, AND ALSO USED AS LUBRICANTS AND PENETRANTS. Richard E. Houser, Houston, Tex.
Filed September 17, 1942. Serial No. 455,593. PUBLISHED JANUARY 5, 1943. Class 15.

400,744. ELECTRIC LIGHT SOCKETS, FLUORESCENT LIGHT SOCKETS, SWIVEL ATTACHMENT FOR LIGHT SOCKETS, SWIVEL ATTACHMENT FOR ADJUSTABLE ELECTRICAL ADVERTISING DISPLAYS AND SWIVEL ATTACHMENT FOR ADJUSTABLE ELECTRICAL AUTOMOBILE FANS. Reliance Devices Company, Inc., New York, N. Y.
Filed October 3, 1942. Serial No. 455,954. PUBLISHED JANUARY 19, 1943. Class 21.

400,745. ELECTRIC LIGHT SOCKETS, FLUORESCENT LIGHT SOCKETS, SWIVEL ATTACHMENTS FOR ELECTRIC LIGHT SOCKETS, SWIVEL ATTACHMENT FOR FLUORESCENT LIGHT SOCKETS, SWIVEL ATTACHMENT FOR ADJUSTABLE ELECTRICAL ADVERTISING DISPLAYS, AND SWIVEL ATTACHMENTS FOR ADJUSTABLE ELECTRICAL AUTOMOBILE FANS. Reliance Devices Company, Inc., New York, N. Y.
Filed October 3, 1942. Serial No. 455,955. PUBLISHED JANUARY 19, 1943. Class 21.

400,746. CERAMIC INSULATING PARTS—NAMELY, COIL FORMS, SPACERS, MOUNTING BLOCKS, TERMINAL BASES, BUSHINGS, ETC. Lenox Incorporated, Trenton, N. J.
Filed October 5, 1942. Serial No. 455,981. PUBLISHED JANUARY 19, 1943. Class 21.

400,747. CERAMIC INSULATING PARTS—NAMELY, COIL FORMS, SPACERS, MOUNTING BLOCKS, TERMINAL BASES, BUSHINGS, ETC. Lenox Incorporated, Trenton, N. J.
Filed October 5, 1942. Serial No. 455,982. PUBLISHED JANUARY 19, 1943. Class 21.

400,748. PUBLICATION ISSUED PERIODICALLY. Addressograph-Multigraph Corporation, Cleveland, Ohio.
Filed October 16, 1942. Serial No. 456,229. PUBLISHED JANUARY 12, 1943. Class 38.

400,749. COLLECTION OF STAPLE FIBERS MADE WHOLLY OR PARTIALLY OF CELLULOSE DERIVATIVES. Celanese Corporation of America, New York, N. Y.
Filed October 16, 1942. Serial No. 456,233. PUBLISHED JANUARY 19, 1943. Class 1.

400,750. GRASS SEED. Sears, Roebuck and Co., Chicago, Ill.
Filed October 23, 1942. Serial No. 456,371. PUBLISHED JANUARY 19, 1943. Class 1.

400,751. VERMOUTH WINE. Vermouth Industries of America Inc., New York, N. Y.
Filed October 23, 1942. Serial No. 456,374. PUBLISHED JANUARY 19, 1943. Class 47.

400,752. KNIFE-COATED FABRICS, AS FOR INSTANCE, RUBBER COATED AND PYROXYLIN COATED FABRICS. Robutine Products Corp., New York, N. Y.
Filed October 26, 1942. Serial No. 456,433. PUBLISHED JANUARY 19, 1943. Class 50.

400,753. NEWSPAPER COLUMN THE SUBJECT MATTER OF WHICH IS OF A RELIGIOUS CHARACTER. Frank B. Robinson, Moscow, Idaho.
Filed October 27, 1942. Serial No. 456,471. PUBLISHED JANUARY 19, 1943. Class 38.

400,754. JEWELRY FOR PERSONAL WEAR AND ADORNMENT NOT INCLUDING WATCHES. Granat Bros., Inc., San Francisco, Calif.
Filed October 28, 1942. Serial No. 456,489. PUBLISHED JANUARY 19, 1943. Class 28.

400,755. JEWELRY FOR PERSONAL WEAR AND ADORNMENT, NOT INCLUDING WATCHES. Granat Bros., Inc., San Francisco, Calif.
Filed October 28, 1942. Serial No. 456,490. PUBLISHED JANUARY 19, 1943. Class 28.

400,756. METERS FOR MEASURING VITAMIN AND MINERAL DEFICIENCIES OF INDIVIDUALS AND FOR DETERMINING THE INDIVIDUAL'S DAILY INTAKE OF VARIOUS VITAMINS AND MINERALS FROM FOODS CONSUMED. Vit-O-Scope Company, Inc., New York, N. Y.
Filed October 29, 1942. Serial No. 456,517. PUBLISHED JANUARY 19, 1943. Class 26.

400,757. METERS FOR MEASURING VITAMIN AND MINERAL DEFICIENCIES OF INDIVIDUALS AND FOR DETERMINING THE INDIVIDUAL'S DAILY INTAKE OF VARIOUS VITAMINS AND MINERALS FROM FOODS CONSUMED. Vit-O-Scope Company, Inc., New York, N. Y.
Filed October 29, 1942. Serial No. 456,518. PUBLISHED JANUARY 19, 1943. Class 26.

400,758. PERIODICAL. Flying Stories, Inc., New York, N. Y.
Filed October 30, 1942. Serial No. 456,529. PUBLISHED JANUARY 19, 1943. Class 38.

400,759. FOUNTAIN PENS, MECHANICAL PENCILS, COMBINATION FOUNTAIN PENS AND MECHANICAL PENCILS, PEN POINTS, FOUNTAIN PEN AND MECHANICAL PENCIL CLIPS. David Kahn, Inc., North Bergen, N. J.
Filed October 31, 1942. Serial No. 456,561. PUBLISHED JANUARY 19, 1943. Class 37.

400,760. LAWN, PLANT, AND SHRUB FOODS. Victor C. Dewein, Emery and Forsyth, Ill.
Filed November 7, 1942. Serial No. 456,683. PUBLISHED JANUARY 5, 1943. Class 10.

400,761. SOAP. Prince Matchabelli, Inc., New York, N. Y.
Filed November 7, 1942. Serial No. 456,688. PUBLISHED JANUARY 19, 1943. Class 4.

400,762. RECLAIMED RUBBER COMPOSITIONS USED IN DEPOSITING MINUTE RUBBER PARTICLES IN FABRICS. United States Rubber Company, New York, N. Y.
Filed November 7, 1942. Serial No. 456,702. PUBLISHED JANUARY 19, 1943. Class 1.

400,763. LATEX COMPOSITIONS USED IN DEPOSITING INDIVIDUAL MINUTE RUBBER PARTICLES IN FABRICS. United States Rubber Company, New York, N. Y.
Filed November 7, 1942. Serial No. 456,703. PUBLISHED JANUARY 19, 1943. Class 1.

400,764. CARTOONS PUBLISHED IN A SERIES. Detective Comics, Inc., New York, N. Y.
Filed November 10, 1942. Serial No. 456,728. PUBLISHED JANUARY 12, 1943. Class 38.

400,765. WATCHES, CLOCKS, AND PARTS THEREOF. Harman Watch Co. Inc., New York, N. Y.
Filed November 10, 1942. Serial No. 456,732. PUBLISHED JANUARY 19, 1943. Class 27.

400,766. JEWELRY MADE OF PRECIOUS METAL OR PLATED WITH PRECIOUS METAL NOT INCLUDING WATCHES—NAMELY, FINGER RINGS, BRACELETS, ETC. Harman Watch Co. Inc., New York, N. Y.
Filed November 10, 1942. Serial No. 456,733. PUBLISHED JANUARY 19, 1943. Class 28.

400,767. MAGAZINE PUBLICATION. Detective Comics, Inc., New York, N. Y.
Filed November 16, 1942. Serial No. 456,847. PUBLISHED JANUARY 19, 1943. Class 38.

400,768. RIDING SADDLES, RIDING BRIDLES, FANCY CAVESONS, FRONTS AND NOSEBANDS, HALTERS, MARTINGALES, SADDLE BLANKETS, NUMDAHS, GIRTHS, BITS, AND SADDLE TREES. WHITMAN SADDLE & LEATHER GOODS MFG. CO., Cincinnati, Ohio.
Filed November 17, 1942. Serial No. 456,880. PUBLISHED JANUARY 19, 1943. Class 3.

400,769. BABY CHICKS. RALSTON PURINA COMPANY, St. Louis, Mo.
Filed November 18, 1942. Serial No. 456,900. PUBLISHED JANUARY 19, 1943. Class 46.

400,770. PRALINES. BONNIE EARL STEWART, doing business as Stewart's Orange & Nut Shop, Memphis, Tenn.
Filed November 19, 1942. Serial No. 456,931. PUBLISHED JANUARY 19, 1943. Class 46.

400,771. TIRES COMPOSED WHOLLY OR PRINCIPALLY OF RUBBER FOR USE ON AIRPLANES AND LIGHTER-THAN-AIR CRAFT. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio.
Filed November 25, 1942. Serial No. 457,036. PUBLISHED JANUARY 19, 1943. Class 35.

400,772. BOARD GAME PLAYED WITH MOVABLE PIECES. MILTON BRADLEY COMPANY, Springfield, Mass.
Filed November 30, 1942. Serial No. 457,112. PUBLISHED JANUARY 19, 1943. Class 22.

400,773. BOARD GAME PLAYED WITH MOVABLE PIECES. MILTON BRADLEY COMPANY, Springfield, Mass.
Filed November 30, 1942. Serial No. 457,113. PUBLISHED JANUARY 19, 1943. Class 22.

400,774. PNEUMATIC TIRES AND TUBES FOR VEHICLE WHEELS. THE PHARIS TIRE AND RUBBER COMPANY, Newark, Ohio.
Filed November 30, 1942. Serial No. 457,141. PUBLISHED JANUARY 19, 1943. Class 35.

400,775. BOARD GAME PLAYED WITH MOVABLE PIECES. MILTON BRADLEY COMPANY, Springfield, Mass.
Filed November 30, 1942. Serial No. 457,114. PUBLISHED JANUARY 19, 1943. Class 22.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

400,776. (CLASS 47. WINES.) TORINO VERMOUTH, INC., New York, N. Y. Filed Oct. 12, 1939. Serial No. 424,504.



FOR VERMOUTH.
Claims use since July 1, 1939.

400,777. (CLASS 42. KNITTED, NETTED AND TEXTILE FABRICS.) GENERAL RIBBON MILLS, INC., Dover, Del., and New York, N. Y. Filed Nov. 3, 1939. Serial No. 425,198.

SEALTYTE

FOR TEXTILE RIBBONS SOLD BY THE YARD, SPOOL, PIECE OR BOLT.
Claims use since Oct. 27, 1939.

400,778. (CLASS 38. PRINTS AND PUBLICATIONS.) NEWS MAP OF THE WEEK, INC., Chicago, Ill. Filed Mar. 8, 1940. Serial No. 429,369.

WORLD NEWS OF THE WEEK

FOR PERIODICAL PUBLICATION.
Claims use since Dec. 4, 1939.

400,779. (CLASS 39. CLOTHING.) N. B. COHEN COMPANY, Scranton, Pa. Filed Dec. 24, 1940. Serial No. 439,171.

Cherié

FOR HAIR NETS.
Claims use since Apr. 1, 1936.

400,780. (CLASS 47. WINES.) MONARCH WINE CO. OF GEORGIA, Atlanta, Ga. Filed Jan. 17, 1941. Serial No. 439,759.

PAUL DUPRE

FOR WINE.
Claims use since Jan. 11, 1941.

400,781. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE HAYS CORPORATION, Michigan City, Ind. Filed Apr. 21, 1941. Serial No. 442,788.

HAYS
VISIO RATIO
GAGE

FOR INSTRUMENTS OR GAGES FOR MEASURING VARIOUS CONDITIONS—NAMELY, THE FLOW OF AIR AND FUEL, AND THE RELATION THEREBETWEEN, IN A COMBUSTION SYSTEM.
Claims use since Dec. 15, 1940.

400,782. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GRIFFITH LABORATORIES, INC., doing business as The Griffith Laboratories, Chicago, Ill. Filed July 23, 1941. Serial No. 445,576.

MEE BOAN



The words "Mee Boan" are interpreted in the Chinese language as meaning the essence of good flavor.
FOR POWDERED PRODUCT FOR FLAVORING FOOD CONTAINING PRINCIPALLY AMINO-ACID DERIVED FROM PROTEIN AND SODIUM CHLORIDE.
Claims use since June 17, 1941.

400,783. (CLASS 42. KNITTED, NETTED AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Sept. 18, 1941. Serial No. 447,125.

BEAUTYNET

FOR LACE CURTAINS.
Claims use since February, 1941.

400,784. (CLASS 42. KNITTED, NETTED AND TEXTILE FABRICS.) J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y. Filed Oct. 30, 1941. Serial No. 448,261.



FOR COTTON, WOOL, AND RAYON PIECE GOODS.
Claims use since Oct. 15, 1941.

400,785. (CLASS 39. CLOTHING.) CHICAGO MAIL ORDER COMPANY, Chicago, Ill. Filed Nov. 10, 1941. Serial No. 448,495.

Conroy

FOR MEN'S SUITS.
Claims use since Aug. 20, 1941.

400,786. (CLASS 47. WINES.) RIVERBANK WINE CO., Boston, Mass. Filed Nov. 25, 1941. Serial No. 448,922.

DECIDE

OLD CAPRI

FOR WINES.
Claims use since October, 1941.

400,787. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) ANGEL P. JULIÁ, doing business as Cia Licorera Julia, Barrio Obrero, Santurce, Puerto Rico. Filed Dec. 3, 1941. Serial No. 449,144.



PORTO-BELLO

FOR RUM.
Claims use since September, 1941.

400,788. (CLASS 39. CLOTHING.) WARSHAUER & FRANCK, INC., Boston, Mass. Filed Dec. 11, 1941. Serial No. 449,399.

Eve Carver ORIGINAL

FOR WOMEN'S AND MISSES' DRESSES.
Claims use since Nov. 1, 1941.

400,789. (CLASS 4. ABRASIVE, DETERGENT AND POLISHING MATERIALS.) FIDELITY CHEMICAL PRODUCTS CORP., Newark, N. J. Filed Dec. 16, 1941. Serial No. 449,519.

DAIRY BUREAU OF STANDARDS AND SUPPLIES

FOR CLEANING PREPARATION USED IN THE DAIRY INDUSTRY.
Claims use since Dec. 1, 1941.

400,790. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) EDMUND DZIUK, doing business as Edmund D. Price, Detroit, Mich. Filed Dec. 26, 1941. Serial No. 449,770.

NEW SO-FAST

FOR SEWING NEEDLES FOR HAND USE.
Claims use since Dec. 8, 1941.

400,791. (CLASS 39. CLOTHING.) EDDY FORM, INC., New York, N. Y. Filed Jan. 3, 1942. Serial No. 449,976.

UP-RAYS BRAS

FOR BRASSIÈRES.
Claims use since Dec. 18, 1941.

400,792. (CLASS 39. CLOTHING.) MAYFAIR TOGS, INC., New York, N. Y. Filed Jan. 7, 1942. Serial No. 450,052.

Pasadena Playclothes

FOR SNOW SUITS, SKI SUITS, SKI PANTS, JACKETS, COATS, HATS, LEGGINGS, OVERALLS, SCARFS, WINDBREAKERS, LUMBER-JACKS, SLACKS, SLACK SUITS, BATHING SUITS, SKIRTS, MITTENS, AND PLAY SUITS.
Claims use since Nov. 22, 1941.

400,793. (CLASS 39. CLOTHING.) HELEN LOBEL & Co., New York, N. Y. Filed Jan. 9, 1942. Serial No. 450,107.

helen lobel

FOR WOMEN'S AND MISSES' NEGLIGEES, HOUSECOATS, ROBES, HOSTESS GOWNS, PAJAMAS, BEACH PAJAMAS, SLACKS AND JACKETS, CRUISE PAJAMAS, PLAY SUITS, AND BEACH COATS.
Claims use since 1926.

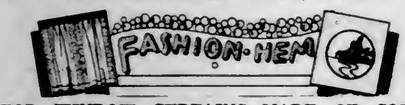
400,794. (CLASS 37. PAPER AND STATIONERY.) REX PAPER COMPANY, Kalamazoo, Mich. Filed Jan. 26, 1942. Serial No. 450,492.

BLAK-OUT

WHITE-IN

FOR COATED PAPER.
Claims use since Dec. 12, 1941.

400,795. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HOME CURTAIN CORP., New York, N. Y. Filed Jan. 29, 1942. Serial No. 450,568.



FOR WINDOW CURTAINS MADE OF COTTON, RAYON, AND SILK FABRICS.
Claims use since Dec. 1, 1941.

400,796. (CLASS 12. CONSTRUCTION MATERIALS.) JOHN A. BECKER, doing business as Gumputtie Laboratories, Chicago, Ill. Filed Feb. 3, 1942. Serial No. 450,674.

NU-PACK

FOR PACKING AND SEALING COMPOUND IN THE NATURE OF A HEAT INSULATOR.
Claims use since Dec. 9, 1941.

400,797. (CLASS 39. CLOTHING.) LIBERTY HOSIERY MILLS, INC., Liberty, N. C. Filed Feb. 5, 1942. Serial No. 450,769.

VEIL OF BEAUTY

FOR WOMEN'S STOCKINGS.
Claims use since Nov. 7, 1941.

400,798. (CLASS 39. CLOTHING.) U. S. NECKWEAR CORPORATION, New York, N. Y. Filed Feb. 14, 1942. Serial No. 450,982.

ALVARADO

FOR NECKTIES AND SCARFS.
Claims use since Jan. 14, 1942.

400,799. (CLASS 39. CLOTHING.) LONDON HANDKERCHIEF Co., INC., New York, N. Y. Filed Feb. 21, 1942. Serial No. 451,140.

"SEND A HANK TO A YANK"

FOR HANDKERCHIEFS.
Claims use since Jan. 5, 1942.

400,800. (CLASS 39. CLOTHING.) MIDLAND SHOE CORPORATION, New York, N. Y. Filed Mar. 6, 1942. Serial No. 451,448.

MODEL Mode

FOR SHOES MADE OF LEATHER, RUBBER, FABRIC, AND/OR COMBINATIONS THEREOF.
Claims use since Nov. 28, 1941.

400,801. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS.) LOUIS D. HOULIS, Dallas, Tex. Filed Apr. 17, 1942. Serial No. 452,396. Under the act of March 19, 1920, as amended June 10, 1938.

HUMIDAIRE

FOR AIR CONDITIONING EQUIPMENT FOR BAKERIES—NAMELY, FERMENTATION AND DOUGH ROOMS, PROOF BOXES, BREAD AND ROOM COOLERS, STEAM BOILERS, STEAM JET HUMIDIFIERS, AND AIR CONDITIONING UNITS.
Claims use since Oct. 1, 1927.

400,802. (CLASS 39. CLOTHING.) J. H. KIMBALL, INC., New York, N. Y. Filed Apr. 18, 1942. Serial No. 452,428.

a kimball masterpiece

FOR LADIES' HANDKERCHIEFS.
Claims use since Dec. 15, 1941.

400,803. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y. Filed May 1, 1942. Serial No. 452,708.

AUTOPOSITIVE

FOR PHOTOGRAPHIC FILM AND PHOTOGRAPHIC PAPER.
Claims use since Nov. 1, 1938 on photographic film; since Dec. 22, 1941 on photographic paper.

400,804. (CLASS 39. CLOTHING.) BROWNING KING & Co., OF NEW YORK, INC., New York, N. Y. Filed May 12, 1942. Serial No. 452,954.

CONTOUR-CUT

FOR MEN'S AND BOYS' SUITS, TOPCOATS, OVERCOATS, SPORT COATS, RAINCOATS, LEISURE COATS, AND JACKETS.
Claims use since January, 1942.

400,805. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) EUTECTIC WELDING ALLOYS, INC., New York, N. Y., assignor to Eutectic Welding Alloys Company, New York, N. Y. Filed June 6, 1942. Serial No. 453,508.

"EUTECTIC"

FOR METALLIC WELDING, BRAZING, AND SOLDERING ALLOYS IN THE FORM OF RODS AND ELECTRODES, AND RODS COATED WITH OR HAVING INCORPORATED THEREIN FLUX SUBSTANCE; AND CEMENTING MATERIAL (NON-TACKY), IN THE NATURE OF A SOLDER, SPELTER FOR WELDING, BRAZING, AND SOLDERING PURPOSES.
Claims use since November, 1940.

400,806. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) THE FOREGGER COMPANY, INC., New York, N. Y. Filed Aug. 1, 1942. Serial No. 454,655.

GUEDEL

FOREGGER

FOR PHARYNGEAL AIRWAYS—NAMELY, TUBULAR THROAT TUBES CAPABLE OF EXTENDING TO THE PHARYNX AND USED TO PREVENT THE TONGUE FROM FALLING BACK AND FOR THE PURPOSE OF MAINTAINING AN OPEN AIR PASSAGE DURING ANESTHESIA.
Claims use since Aug. 1, 1935.

400,807. (CLASS 39. CLOTHING.) NEW YORK MERCHANDISE Co., INC., New York, N. Y. Filed Oct. 7, 1942. Serial No. 456,027.

Lady English

FOR HAIR NETS.
Claims use since Oct. 23, 1941.

400,808. (CLASS 39. CLOTHING.) MCMULLEN-LEAVENS COMPANY, INC., New York, N. Y. Filed Oct. 29, 1942. Serial No. 456,509.

TROY SHIRTMAKERS GUILD

FOR MEN'S DRESS AND NEGLIGEE SHIRTS, MEN'S AND WOMEN'S PAJAMAS, SHORTS, AND UNDERWEAR; AND WOMEN'S WEARING APPAREL—NAMELY, BLOUSES, DRESSES, HATS, CAPS, BERETS, AND RIDING SHIRTS AND HABITS.
Claims use since June, 1932.

400,809. (CLASS 39. CLOTHING.) VOGUE HATS—GARFUNKEL MAKERS, New York, N. Y. Filed Oct. 31, 1942. Serial No. 456,576.

Vogue Hat by garfunkel

FOR LADIES' AND MISSES' HATS.
Claims use since June 15, 1927.

400,810. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) E. REED BURNS MANUFACTURING CORPORATION, Brooklyn, N. Y. Filed Nov. 24, 1942. Serial No. 456,999.

STEELSHINE

FOR POLISHING AND BUFFING COMPOUND FOR CHROMIUM PLATE, CARBON STEEL, STAINLESS STEEL, RUSTLESS STEEL, RUSTLESS IRON, AND SIMILAR ALLOYS.
Claims use since Dec. 1, 1935.

400,811. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SCHMIDT PACKING Co., Mission, Tex. Filed Dec. 8, 1942. Serial No. 457,287.

Texaselect

FOR FRESH CITRUS FRUITS.
Claims use since Oct. 30, 1938.

400,812. (CLASS 3. BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) SOL SHERMAN, doing business as Sherman Bows, New York, N. Y. Filed Dec. 18, 1942. Serial No. 457,515.

NECK

MONEYPACK

FOR SAFETY

FOR MONEY BAGS MADE OF CLOTH AND WORN AROUND THE NECK.

Claims use since Dec. 14, 1941.

400,813. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) KRAUS BROS. & CO., INC., New York, N. Y. Filed Jan. 4, 1943. Serial No. 457,744.

RENÉ CLÉMENT

FOR WHISKIES, GINS, AND ALCOHOLIC CORDIALS.

Claims use since December, 1941.

TRADE-MARK REGISTRATIONS RENEWED

23,448. **"LILY WHITE" AND DRAWING.** OIL STONES AND WHETSTONES. Registered August 1, 1893. THE PIKE MANUFACTURING COMPANY, Pike Station, Haverhill, N. H. Re-renewed August 1, 1943, to Norton Pike Company, Littleton, N. H., a corporation of Massachusetts, assignee.

23,463. **"CREAM OF THE PRAIRIE" AND DRAWING.** CANNED CORN. Registered August 8, 1893. ILLINOIS CANNING CO. Re-renewed August 8, 1943, to The Illinois Canning Company, Hoopeston, Ill., a corporation of Illinois, successor.

23,464. **"BABY BUNTING" AND DRAWING.** CANNED CORN. Registered August 8, 1893. ILLINOIS CANNING CO. Re-renewed August 8, 1943, to The Illinois Canning Company, Hoopeston, Ill., a corporation of Illinois, successor.

23,465. **"ONE OF THE FINEST" AND DRAWING.** CANNED VEGETABLES. Registered August 8, 1893. ILLINOIS CANNING CO. Re-renewed August 8, 1943, to The Illinois Canning Company, Hoopeston, Ill., a corporation of Illinois successor.

163,475. **LAURA SECORD.** CANDIES. Registered January 16, 1923. LAURA SECORD CONFECTIONS, LTD. Renewed January 16, 1943, to Laura Secord Candy Shops, Limited, Toronto, Ontario, Canada, a corporation of Province of Ontario, assignee.

163,563. **"DUBOW" AND DRAWING.** CERTAIN NAMED SPORTING GOODS. Registered January 23, 1923. J. A. DUBOW GLOVE CO., INC. Renewed January 23, 1943, to J. A. Dubow Manufacturing Co., Inc., Chicago, Ill., a corporation of Illinois, by change of name.

164,164. **ARVEL.** POWDER FOR THE SKIN, TOILET WATER, AND PERFUME. Registered February 13, 1923. MARINELLO COMPANY, La Crosse, Wis. Renewed February 13, 1943, to Sales Affiliates, Inc., New York, N. Y., a corporation of New York, assignee by mesne assignments.

164,442. **REPRESENTATION OF PORTRAIT OF FRANK O. MONVILLE.** A MEDICINAL PREPARATION FOR THE TREATMENT OF COLDS, ETC. Registered February 20, 1923. FRANK O. MONVILLE, Hubbell, Mich. Renewed February 20, 1943.

164,507. **"REGULAR AS CLOCKWORK" AND DRAWING.** MINERAL OIL. Registered February 20, 1923. STANDARD OIL COMPANY (INCORPORATED IN NEW JERSEY), Bayonne, N. J. Renewed February 20, 1943, to Stanco Incorporated, New York, N. Y., a corporation of Delaware, assignee.

164,850. **PERFECTION PASTE POWDER.** A PASTE POWDER. Registered February 27, 1923. NATIONAL GUM & MICA CO., New York, N. Y., Boston, Mass., Charlotte, N. C., Chicago, Ill., Dunellen, N. J., San Francisco, Calif., and Toronto, Ontario, Canada. Renewed February 27, 1943, to National Starch Products Inc., New York, N. Y., a corporation of Delaware, assignee.

164,880. **BRIAR EDGE.** AXES, SCYTHES, HATCHETS, ADZES, BUSH HOOKS, MATTOCKS, MACHETES, AND GRASS HOOKS. Registered February 27, 1923. THE AMERICAN AXE AND TOOL COMPANY, Pittsburgh, Pa., and Charleston, W. Va. Renewed February 27, 1943, to The American Fork & Hoe Company, Cleveland, Ohio, a corporation of Ohio, assignee by mesne assignments.

165,332. **ROYAL.** SAD IRONS HEATED FROM THE INTERIOR BY THE COMBUSTION OF GASOLINE OR OTHER LIQUID FUEL. Registered March 6, 1923. THE MONITOR SAD IRON COMPANY, sometimes trading under the name of Royal Self-Heating Iron Co., Big Prairie, Ohio, a corporation of Ohio. Renewed March 6, 1943.

165,697. **SMOKADOR.** ASH RECEIVERS MADE OF NONPRECIOUS METALS. Registered March 20, 1923. THE SMOKADORE CO., San Francisco, Calif. Renewed March 20, 1943, to Smokadore Manufacturing Co., Inc., Bloomfield, N. J., a corporation of Delaware, assignee.

165,710. **BENZYLETS.** BENZYL BENZOATE IN LIQUID AND CAPSULE FORM. Registered March 20, 1923. SHARP & DOHME, Baltimore, Md. Renewed March 20, 1943, to Sharp & Dohme, Incorporated, Philadelphia, Pa., a corporation of Maryland, assignee.

165,719. **"MUNNING" AND DRAWING.** CHEMICALS IN COMBINATION FOR ELECTROPLATING SOLUTIONS. Registered March 20, 1923. A. P. MUNNING & Co. Renewed March 20, 1943, to Hanson-Van Winkle-Munning Company, Matawan, N. J., a corporation of New Jersey, assignee.

165,720. **OPTIMUS.** CHEMICALS IN COMBINATION FOR ELECTROPLATING SOLUTIONS. Registered March 20, 1923. A. P. MUNNING & Co. Renewed March 20, 1943, to Hanson-Van Winkle-Munning Company, Matawan, N. J., a corporation of New Jersey, assignee.

165,830. **MOIS TITE.** CARTONS, CADDIES, AND PASTEBOARD PACKAGES. Registered March 20, 1923. MORRIS PAPER MILLS, Chicago, Ill., a corporation of Illinois. Renewed March 20, 1943.

166,033. **REAMRITE.** REAMERS. Registered March 27, 1923. MOBACK TOOL & MACHINE MANUFACTURING CORPORATION, Boston, Mass. Renewed March 27, 1943, to Greenfield Tap and Die Corporation, Greenfield, Mass., a corporation of Massachusetts, assignee.

166,116. **"ALL OVER" AND DRAWING.** HAIR CLIPPERS. Registered March 27, 1923. ANDIS O. M. MANUFACTURING CO. Renewed March 27, 1943, to All Over Manufacturing Co., Racine, Wis., a corporation of Wisconsin, by change of name.

166,698. **TEXCRAFT.** MEN'S, WOMEN'S, AND CHILDREN'S HOSIERY; KNIT AND CUT UNDERWEAR FOR MEN, WOMEN, AND CHILDREN; KNITTED SWEATERS, AND MEN'S WORK SHIRTS. Registered April 10, 1923. KLEIN, GORDON & COMPANY, Detroit, Mich. Renewed April 10, 1943, to The B. V. D. Corporation, Baltimore, Md., a corporation of Delaware, assignee by mesne assignments.

166,943. **TRANSIT.** WRITING PAPER. Registered April 17, 1923. FOX RIVER PAPER COMPANY. Renewed April 17, 1943, to Fox River Paper Corporation, Appleton, Wis., a corporation of Wisconsin, assignee.

167,043. **ACTINIC.** SHEET GLASS. Registered April 24, 1923. PENNSYLVANIA WIRE GLASS COMPANY. Renewed April 24, 1943, to Pennsylvania Wire Glass Company, Philadelphia, Pa., a corporation of Pennsylvania, by merger.

167,140. **"CREMO" AND DRAWING.** WHEAT FLOUR. Registered April 24, 1923. HOLLAND O'NEAL MILLING Co., Mount Vernon, Mo. Renewed April 24, 1943, to The Colorado Milling & Elevator Co., Denver, Colo., a corporation of Colorado, assignee.

167,152. **VALID.** WRITING PAPER. Registered April 24, 1923. FOX RIVER PAPER COMPANY. Renewed April 24, 1943, to Fox River Paper Corporation, Appleton, Wis., a corporation of Wisconsin, assignee.

167,178. **LA DEZ.** CIGARS. Registered April 24, 1923. LA DEZ CIGAR CO., Denver, Colo., a corporation of Colorado. Renewed April 24, 1943.

167,190. **QUISENBERRY QUALITY.** POULTRY FEED. Registered April 24, 1923. QUISENBERRY FEED MFG. CO. Renewed April 24, 1943, to May-Way Mills, Inc., Kansas City, Mo., a corporation of Missouri, assignee by mesne assignments.

167,191. **"QUISENBERRY QUALITY" AND DRAWING.** POULTRY FEED. Registered April 24, 1923. QUISENBERRY FEED MFG. CO. Renewed April 24, 1943, to May-Way Mills, Inc., Kansas City, Mo., a corporation of Missouri, assignee by mesne assignments.

167,267. **PRONTO.** WHEAT FLOUR. Registered April 24, 1923. THE COLORADO MILLING & ELEVATOR CO., doing business as The Monte Vista Flour Mills, Denver and Mount Vista, Colo. Renewed April 24, 1943, to The Colorado Milling & Elevator Co., Denver, Colo., a corporation of Colorado.

167,669. **BROWN'S WONDER.** SALVE FOR CERTAIN NAMED AILMENTS, AND FACE CREAM. Registered May 8, 1923. WESTERN WHOLESALE DRUG CO., Los Angeles, Calif. Renewed May 8, 1943, to McKesson & Robbins, Incorporated, New York, N. Y., a corporation of Maryland, successor.

167,686. **WATERBURY.** WATCHES AND CLOCKS. Registered May 8, 1923. ROBT. H. INGERSOLL & BRO., New York N. Y., assignor, by mesne assignments, to Waterbury Clock Company. Renewed May 8, 1943, to Waterbury Clock Company, Waterbury, Conn., a corporation of Connecticut, assignee by mesne assignments.

167,690. **DIAMOND.** CHARCOAL TO BE USED IN CONNECTION WITH STOCK AND POULTRY FEED. Registered May 8, 1923. WALNUT GROWERS SPRAY MANUFACTURING COMPANY, Vernon, Calif. Renewed May 8, 1943, to McKesson & Robbins, Incorporated, New York, N. Y., a corporation of Maryland, successor.

168,150. **PESCO.** PLIERS. Registered May 15, 1923. THE PECK, STOW & WILCOX COMPANY, Southington, Conn., a corporation of Connecticut. Renewed May 15, 1943.

168,564. **"GROWERS".** DRIED FRUITS. Registered May 29, 1923. CALIFORNIA PRUNE AND APRICOT GROWERS, INC., assignor to California Prune & Apricot Growers Association. Renewed May 29, 1943, to California Prune & Apricot Growers Association, San Jose, Calif., a corporation of California, assignee.

168,674. **CLYDELLA.** CLOTH IN THE PIECE MADE OF WOOL AND COTTON. Registered May 29, 1923. WILLIAM HOLLINS & COMPANY, LIMITED, Nottingham, England, a United Kingdom corporation. Renewed May 29, 1943.

169,045. **CATTARAUGUS.** LEATHER. Registered June 5, 1923. KISTLER LEATHER COMPANY, South Boston, Mass. Renewed June 5, 1943, to Kistler Leather Company, Boston, Mass., a corporation of Delaware.

169,247. **SANITEX.** WATERPROOF FABRICS. Registered June 12, 1923. ARCHER STRAUSS RUBBER COMPANY. Renewed June 12, 1943, to Hodgman Rubber Company, Framingham, Mass., a corporation of Massachusetts, by change of name.

169,306. **KELLY SPRINGFIELD AIRCORE.** RESILIENT VEHICLE TIRES COMPOSED IN WHOLE OR IN PART OF RUBBER. Registered June 12, 1923. KELLY-SPRINGFIELD TIRE COMPANY, New York, N. Y. Renewed June 12, 1943, to The Kelly-Springfield Tire Company, Cumberland, Md., a corporation of Maryland, assignee by mesne assignments.

169,341. **BANNER.** LIME. Registered June 12, 1923. NATIONAL MORTAR AND SUPPLY COMPANY OF PITTSBURG, Pittsburgh, Pa., a corporation of Pennsylvania. Renewed June 12, 1943.

169,358. **LOXIN.** EXPANSION SHIELDS. Registered June 12, 1923. STAR EXPANSION BOLT COMPANY. Renewed June 12, 1943, to Star Expansion Bolt Company, New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

169,381. **PARIS.** ARM BANDS. Registered June 12, 1923. A. STEIN & COMPANY, Chicago, Ill., a corporation of Illinois. Renewed June 12, 1943.

169,385. **HICKORY.** SUSPENDERS. Registered June 12, 1923. A. STEIN & COMPANY, Chicago, Ill., a corporation of Illinois. Renewed June 12, 1943.

169,520. **"HOOVER" AND DRAWING.** ELECTRIC SUCTION SWEEPERS. Registered June 19, 1923. THE HOOVER SUCTION SWEEPER COMPANY, assignor to The Hoover Company. Renewed June 19, 1943, to The Hoover Company, North Canton, Ohio, a corporation of Ohio, assignee.

169,613. **PULVIS ALKANTIS.** A CERTAIN NAMED MEDICINAL PREPARATION. Registered June 26, 1923. THE LAFAYETTE PHARMACAL COMPANY. Renewed June 26, 1943, to Lafayette Pharmacal Inc., La Fayette, Ind., a corporation of Indiana, by change of name.

169,659. **12 TEST.** PAINTS AND PAINTERS' MATERIALS. Registered June 26, 1923. CALIFORNIA PAINT COMPANY, Oakland, Calif. Renewed June 26, 1943, to General Paint Corporation, San Francisco, Calif., a corporation of Nevada, assignee.

170,243. **G C A.** APPARATUS FOR INSTALLING AND REMOVING ELECTRIC-LIGHT BULBS, LAMP SOCKETS, LAMP BASES, AND FUSE PLUGS. Registered July 10, 1923. THE G. C. A. MANUFACTURING Co., Pittsfield, Mass., a corporation of Massachusetts. Renewed July 10, 1943.

170,279. **"S" AND DRAWING.** CERTAIN NAMED CHEMICALS. Registered July 10, 1923. SEMET-SOLVAY COMPANY, Solvay, N. Y. Renewed July 10, 1943, to Semet-Solvay Company, New York, N. Y., a corporation of New York.

170,293. **GRAY-SEAL.** WAGON PAINT, FIBRE ROOF PAINT, VARNISH, PAINT ENAMEL, PORCH-FLOOR PAINT, FLAT WALL FINISH, PENETRATING STAIN, AND READY-MIXED PAINTS. Registered July 10, 1923. PROGRESS PAINT MFG. CO., Louisville, Ky., a corporation of Kentucky. Renewed July 10, 1943.

170,514. **METALSTEEL.** DRY, PASTE, AND READY-MIXED PAINTS AND VARNISHES. Registered July 17, 1923. ST. LOUIS SURFACER AND PAINT COMPANY, St. Louis, Mo., a corporation of Missouri. Renewed July 17, 1943.

170,598. **SAFEPACK.** WRAPPING, PACKING, AND LINING MATERIAL IN SHEET FORM. Registered July 17, 1923. SAFEPACK MILLS, Boston, Mass. Renewed July 17, 1943, to The Ruberoid Co., Bound Brook, N. J., a corporation of New Jersey, assignee by mesne assignments.

170,772. **BAKELITE.** PIPES AND PIPE PARTS, AND CIGAR AND CIGARETTE HOLDERS. Registered July 24, 1923. GENERAL BAKELITE COMPANY, Perth Amboy, N. J. Renewed July 24, 1943, to Bakelite Corporation, New York, N. Y., a corporation of New Jersey, assignee by mesne assignments.

170,844. **"SNOW CAP" AND DRAWING.** WHEAT FLOUR. Registered July 24, 1923. THE COLORADO MILLING & ELEVATOR CO., doing business as The Ft. Collins Flour Mills, Denver and Fort Collins, Colo. Renewed July 24, 1943, to The Colorado Milling & Elevator Co., Denver, Colo., a corporation of Colorado.

170,929. **REPRESENTATION OF A GIRL WITH A PAN OF BACON.** BACON. Registered July 24, 1923. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y., a corporation of New York. Renewed July 24, 1943.

171,031. **"BLUE COW" AND DRAWING.** FEED FOR HORSES, CATTLE, HOGS, AND CHICKENS. Registered July 31, 1923. MOUNTAIN CITY MILL COMPANY. Renewed July 31, 1943, to Mountain City Mill Company, Inc., Chattanooga, Tenn., a corporation of Tennessee, assignee.

171,115. **MAYER CHINA.** CHINAWARE. Registered July 31, 1923. THE MAYER CHINA COMPANY, Beaver Falls, Pa., a corporation of Pennsylvania. Renewed July 31, 1943.

171,225. **AUTOCRAT.** PLAYING CARDS. Registered July 31, 1923. RUSSELL PLAYING CARD CO., Milltown, N. J. Renewed July 31, 1943, to The United States Playing Card Company, East Norwood, Cincinnati, Ohio, a corporation of Ohio, assignee.

171,284. **44.** LUBRICANTS COMPRISING OILS AND GREASES. Registered August 7, 1923. KEYSTONE LUBRICATING COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed August 7, 1943.

171,285. **280.** LUBRICANTS COMPRISING OILS AND GREASES. Registered August 7, 1923. KEYSTONE LUBRICATING COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed August 7, 1943.

171,286. **280-A.** LUBRICANTS COMPRISING OILS AND GREASES. Registered August 7, 1923. KEYSTONE LUBRICATING COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed August 7, 1943.

171,287. **281.** LUBRICANTS COMPRISING OILS AND GREASES. Registered August 7, 1923. KEYSTONE LUBRICATING COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed August 7, 1943.

171,288. **284.** LUBRICANTS COMPRISING OILS AND GREASES. Registered August 7, 1923. KEYSTONE LUBRICATING COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed August 7, 1943.

171,290. **320.** LUBRICANTS COMPRISING OILS AND GREASES. Registered August 7, 1923. KEYSTONE LUBRICATING COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed August 7, 1943.

171,301. **WF.** CAST-IRON GAS AND WATER PIPES AND FITTINGS. Registered August 7, 1923. WARREN FOUNDRY AND MACHINE COMPANY. Renewed August 7, 1943, to Warren Foundry & Pipe Corp., Phillipsburg, N. J., a corporation of Delaware, assignee.

171,313. **"JANE JUSTICE" AND DRAWING.** CERTAIN NAMED FOOD AND INGREDIENTS OF FOODS. Registered August 7, 1923. CHARLES W. BAUERMEISTER CO., INC., Terre Haute, Ind., a corporation of Indiana. Renewed August 7, 1943.

171,329. **TUDOR PLATE.** SILVER-PLATED FLATWARE, SILVER-PLATED TABLEWARE, AND SILVER-PLATED CUTLERY. Registered August 7, 1923. ONEIDA COMMUNITY, LIMITED. Renewed August 7, 1943, to Oneida Ltd., Oneida, N. Y., a corporation of New York, by change of name.

171,335. **D'OR ELEGANTE.** CANDY. Registered August 7, 1923. FRANK G. SHATTUCK COMPANY, doing business as Schrafft's. Renewed August 7, 1943, to Frank G. Shattuck Company, New York, N. Y., a corporation of Massachusetts.

171,338. **MEADOW-GOLD.** CHEESE. Registered August 7, 1923. BEATRICE CREAMERY COMPANY. Renewed August 7, 1943, to Beatrice Creamery Company, Chicago, Ill., a corporation of Delaware, assignee.

171,412. **BLUE SEAL.** CANNED SALMON. Registered August 7, 1923. ARTHUR A. ANDERSON, doing business as Arthur Anderson Fish Co. Renewed August 7, 1943, to Columbia River Salmon Co. Inc., Astoria, Oreg., a corporation of Oregon, successor.

171,447. **"RUGG OCEAN BRAND" AND DRAWING.** CORDAGE. Registered August 7, 1923. E. T. RUGG & Co. Renewed August 7, 1943, to The E. T. Rugg Company, Newark, Ohio, a corporation of Ohio, assignee.

171,479. **"COUNTRY CLUB" AND DRAWING.** WOOL YARNS. Registered August 7, 1923. DANIEL J. HEALY, doing business as D. J. Healy Shops. Renewed August 7, 1943, to D. J. Healy Shops, Detroit, Mich., a corporation of Michigan, assignee.

171,536. **NAMCO.** CANNED FRUITS, CANNED VEGETABLES, DRIED FRUITS, CONDENSED MILK, CHOP-SUEY SAUCE, AND CANNED FISH. Registered August 7, 1923. NORTH AMERICAN MERCANTILE CO. INC., San Francisco, Calif., a corporation of California. Renewed August 7, 1943.

171,541. **K. B.** LUBRICANTS COMPRISING OILS AND GREASES. Registered August 7, 1923. KEYSTONE LUBRICATING COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed August 7, 1943.

171,542. **82.** LUBRICANTS COMPRISING OILS AND GREASES. Registered August 7, 1923. KEYSTONE LUBRICATING COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed August 7, 1943.

171,543. **283.** LUBRICANTS COMPRISING OILS AND GREASES. Registered August 7, 1923. KEYSTONE LUBRICATING COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed August 7, 1943.

171,544. **282.** LUBRICANTS COMPRISING OILS AND GREASES. Registered August 7, 1923. KEYSTONE LUBRICATING COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed August 7, 1943.

171,545. **40.** LUBRICANTS COMPRISING OILS AND GREASES. Registered August 7, 1923. KEYSTONE LUBRICATING COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed August 7, 1943.

171,548. **"CONESTOGA" AND DRAWING.** FERTILIZERS AND LIME FOR FERTILIZERS. Registered August 7, 1923. LANCASTER BONE FERTILIZER CO. INC., Lancaster, Pa. Renewed August 7, 1943, to Lancaster Bone Fertilizer Co. Inc., Quarryville, Pa., a corporation of Pennsylvania.

REISSUES

MARCH 30, 1943

22,295

PROCESS FOR MAKING LIGNIN

Edgar T. Olson, Pittsburgh, Pa., Raphael Katzen, Brooklyn, N. Y., and Richard H. Plow, Iron Mountain, Mich., assignors to Northwood Chemical Company, Phelps, Wis., a corporation of Wisconsin

No Drawing. Original No. 2,156,159, dated April 25, 1939, Serial No. 208,499, May 17, 1938. Application for reissue April 25, 1941, Serial No. 390,370

7 Claims. (Cl. 260—124)

1. The process of making lignin which comprises the steps of mixing finely divided lignin-cellulose containing material with a dilute solution of sulphuric acid, containing between about .4% and about 5% of sulphuric acid, in the ratio from about 7 parts to about 10 parts of such acid to about 1 part of the dry substance, heating such mixture to between about 165° C. and about 280° C. under pressure between about 90 and about 1000 pounds per square inch for between about two and about five minutes, and reducing the pressure to atmospheric.

22,296

PROCESS FOR TREATMENT OF METALS

Robert W. Shoemaker, Anderson, Ind., assignor to Agnes J. Reeves Greer, Morgantown, W. Va.

No Drawing. Original No. 2,257,133, dated September 30, 1941, Serial No. 279,053, June 14, 1939. Application for reissue September 19, 1942, Serial No. 459,037

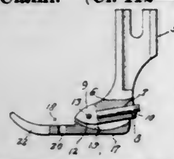
13 Claims. (Cl. 117—49)

13. The method of treating pickled metal directly after the pickling thereof to neutralize the adhering acid and inhibit rusting of the metal comprising rinsing it in a solution containing caustic alkali and then submerging the metal into a hot solution containing caustic alkali and a polyhydric alcohol taken from a group consisting of glycerine and glycol and then removing the hot metal from the hot solution and permitting the water to quickly evaporate from the surface thereof leaving an impervious film of the polyhydric alcohol thereon.

PATENTS

GRANTED MARCH 30, 1943

2,314,861
SEWING MACHINE PRESSER FOOT
Bruno Antonelli, Fall River, Mass.
Application May 8, 1941, Serial No. 392,539
1 Claim. (Cl. 112—235)



A sewing machine presser foot structure comprising a foot having a pair of laterally spaced shoulders, a transverse pivot pin extending between said shoulders, a joint element having a head pivoted on said pin, a shaft extending rearwardly from said head longitudinally of the foot, and a shank having a lower terminal positioned between said shoulders and pivoted on said shaft, said joint element and said foot having convex and concave faces, respectively, coacting to permit limited pivotal movement of the foot about the axis of the pin on which the head is pivoted.

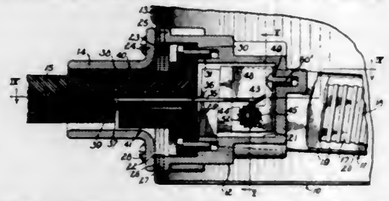
2,314,862
FRUIT PITTING CHUCK
George W. Ashlock, Jr., Oakland, Calif.
Application February 4, 1942, Serial No. 429,489
4 Claims. (Cl. 146—19)



1. In a fruit stoning device of the character described, a fruit holder comprising a flat rigid base plate having a plurality of spaced apertures therein of generally circular cross-section, a plurality of pins extending up from a face of said base plate and disposed on opposite sides of each aperture, and a rubber sheet apertured to receive and pass said pins which serve to position and to retain said sheet in position on said base plate, said sheet including a fruit receiving receptacle substantially in vertical alignment over each base plate aperture, each receptacle being apertured adjacent the bottom thereof to pass a fruit stone ejected from a fruit in said receptacle.

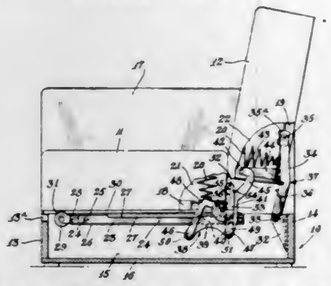
2,314,863
SAFETY APPLIANCE FOR ELECTRICALLY HEATED APPARATUS
Gordon H. Brown and Alfred E. Lanigan, Detroit, Mich., assignors to Electromaster, Inc., Detroit, Mich., a corporation of Michigan
Application February 27, 1939, Serial No. 258,758
2 Claims. (Cl. 200—142)

1. In a safety switch assembly for an electrically heated structure and having a retaining insulating block, switch prongs on the block extending from one face thereof to receive a connecting plug, conductors connected with said prongs, a projecting member extending through the block for reciprocable movements and a fuse control for retaining said projecting member in an inoperative position, the improvement which includes a spring disposed in said block and secured to said projecting member, said spring being constructed and arranged to have a load impressed thereon when said projecting member is retained in an inoperative position whereby the



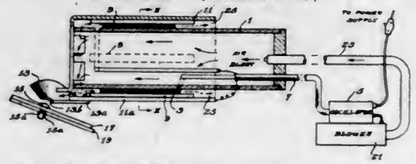
projecting member is moved outwardly of the face of the block from which the prongs extend when the fuse control is released and removable means on the projecting end of the projecting member for exposing the spring for removal and servicing when removed from the projecting member.

2,314,864
CONVERTIBLE COUCH STRUCTURE
Victor John Bergstrom, Chicago, Ill., assignor to Superior Felt & Bedding Co., Chicago, Ill., a corporation of Delaware
Application November 10, 1939, Serial No. 303,781
6 Claims. (Cl. 5—47)



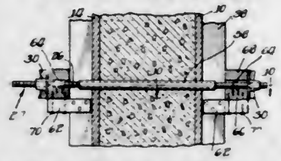
1. In a couch structure, the combination of a base; movable seat and back members normally occupying respectively horizontal and substantially vertical positions relative to said base; and means supporting said members for concurrent movement of said back member from its normal position to a substantially horizontal position in the plane of said seat member and of said seat member from its normal position to an advanced position relative to said base; said means including a carrier horizontally slidable on said base, an arm rigid with said carrier and extending for pivotal attachment with said back member at a point substantially below its top surface and slightly within its front edge adjacent said seat member, and a quadrilateral linkage interconnecting said carrier and said seat member, said linkage being shiftable forwardly to carry said seat member clear of said back member during movement of said seat member upwardly to expose the interior of said base.

2,314,865
HEATING DEVICE
Rudolph A. Bierwirth, Haddon Heights, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application May 31, 1941, Serial No. 395,943
6 Claims. (Cl. 219—13)



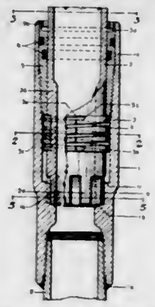
1. An electrical heating device comprising a transformer having primary and secondary windings arranged on a common axis, said primary winding being adapted to be connected to a source of electrical energy, and a frusto-conical coupling coil connected to the terminals of said secondary winding, the axis of said coupling coil being angularly related to the axis of said windings.

2,314,866
SCREW CLAMP
George B. Bosco, Chicago, Ill.
Application January 17, 1938, Serial No. 185,286
6 Claims. (Cl. 25—131)



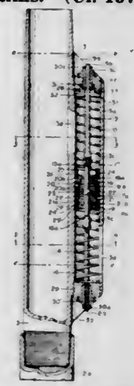
2. In a form for casting and shaping masonry and the like, a pair of spaced walls providing a molding space therebetween, a clamping member extending between said walls and comprising a bar, and a sleeve axially slidably mounted on said bar, said sleeve being formed of a continuous, integral, resilient, rubber-like material and extending a substantial distance beyond the sides of the molding space sufficient to facilitate grasping thereof for free removal of the resilient tube from the final cast unit by a moderate axial pull.

2,314,867
SEMITHREADLESS DRILL STEM
Alexander Boynton, San Antonio, Tex.
Application September 22, 1938, Serial No. 231,206
10 Claims. (Cl. 285—146)



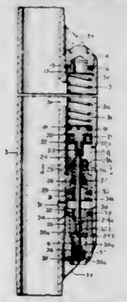
1. A pipe connection of the character described comprising a pair of non-rotatable interfitting pipe ends telescoped one within the other, a projection extending from the periphery of the inner pipe end, and a nipple member threaded into the other pipe end to engage said projection to hold said pipe ends against relative longitudinal movement, said projection comprising a split ring and a spring wire to hold said ring in place.

2,314,868
FLOWING DEVICE, TUBING, AND CASING FLOW
Alexander Boynton, San Antonio, Tex.
Application December 8, 1939, Serial No. 308,305
13 Claims. (Cl. 137—111)



1. A device of the class described comprising a valve body having a passageway between the exterior and the interior thereof, a pair of spaced aligned valve seats in said passageway, an orificed piston movable in the passageway and adapted to maintain sealed engagement with the walls thereof, the orifice in said piston including outwardly facing valve seating surfaces, and means resiliently urging said piston to a position intermediate said valve seats, there being spaced openings at opposite sides of said piston and leading respectively from the passageway to the exterior and interior of the valve body so that pressure fluid is metered in its flow through the openings, passageway and piston, and a movable packing at at least one end of said orificed piston engageable by said means and urged into sealing engagement with the walls of the passageway.

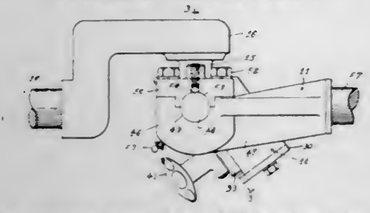
2,314,869
DIFFERENTIAL STAGE LIFT FLOW DEVICE
Alexander Boynton, San Antonio, Tex.
Application December 8, 1939, Serial No. 308,307
2 Claims. (Cl. 137—111)



1. A device of the class described comprising a valve body having a passageway between the interior and the exterior thereof, a wall in said passageway forming upper and lower chambers

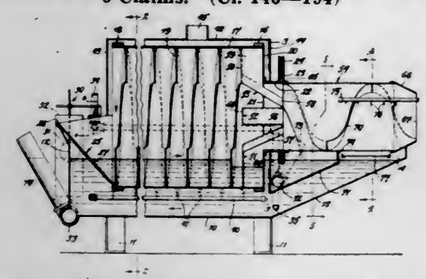
therein, spaced openings in the upper chamber leading to interior and exterior of the valve body, a piston movable in the upper chamber intermediate said openings, means resiliently urging the piston toward the lower end of said chamber, a valve member attached to said piston and passing through aligned openings in the walls of the lower chamber, an outwardly facing valve seat in the wall of the lower chamber, valve seating surfaces on the valve member adapted to close the passage to the lower chamber when the piston moves to terminal position, there being an opening in the wall of the lower chamber to cooperate with said passage to provide a passage between the interior and exterior of the valve body.

2,314,870
COUPLER
Max E. Dayton, Rockford, Ill.
Application October 7, 1939, Serial No. 298,344
21 Claims. (Cl. 280—33.17)



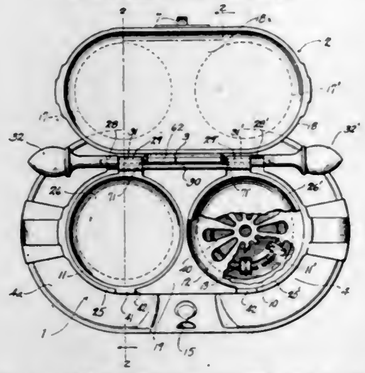
1. A coupler assembly of the class described comprising, in combination, a ball member having a ball head portion and a reduced neck portion, a socket member having a ball receiving socket with an opening communicating therewith for extension therethrough of the reduced neck portion of the ball member when the head portion thereof is received in the socket, means for detachably securing the ball head in the socket, a forked yoke for pivotally supporting the socket member between the arms thereof, trunnion bearings on the arms of said yoke on opposite sides of the socket member, and trunnions projecting from opposite sides of said socket member in a plane extending diametrically through the socket member and ball head received therein, said trunnions being pivotally received in said bearings.

2,314,871
APPARATUS FOR TREATING FOODSTUFFS
William de Back, Niagara Falls, N. Y., assignor to Chisholm-Ryder Company, Incorporated, Niagara Falls, N. Y., a corporation of New York
Application August 12, 1939, Serial No. 289,858
5 Claims. (Cl. 146—194)



5. An apparatus for treating foodstuffs, comprising means providing a treating chamber, a batch conveyer traversing said treating chamber, means at one end of said treating chamber for feeding liquid and the foodstuffs to be treated to said batch conveyer, a screen at the opposite end of said treating chamber onto which the batches of liquid and treated foodstuffs are deposited by said batch conveyer, a basin arranged under said screen and receiving the liquid separated from said treated materials, two adjustable overflows for said basin, the liquid from one of said overflows being discharged and the liquid from the other of said overflows being admitted to the liquid supplied to said batch conveyer, the relative adjustment of the said two overflows thereby permitting of adjustment of the amount of recirculated liquid used in the treating.

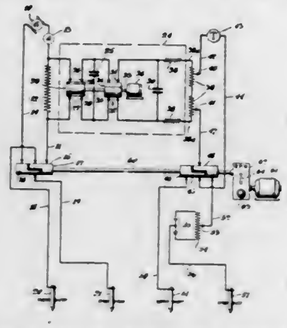
2,314,872
HOT CAKE AND WAFFLE COOKING UTENSIL
Roy N. Dickey, Seattle, Wash., assignor to Meets-A-Need Manufacturing Company, Seattle, Wash., a corporation of Washington
Application May 16, 1940, Serial No. 335,539
5 Claims. (Cl. 53—10)



1. In a cooking utensil of the character described, comprising a base section, a top section, a hinge connecting the two sections and having a horizontal hinge axis along one side of the utensil permitting the top section to be moved from closed to an open position at which latter position the top surfaces of the sections will be substantially in the same horizontal plane, heating elements in the sections, and a cake turning device comprising a base plate removably fitted in the top of the base section, to be heated by the elements therein, hinge lugs extending from the side of the base plate at opposite ends of the hinge whereby the sections are connected, a turning shaft mounted in said lugs in the axial line of the said hinge axis and having a part thereof between the said lugs offset to avoid interference with the hinge connecting the two sections, and a plurality of cake molds fixed to the turning shaft and movable therewith from a position resting upon the base plate, to an inverted position overlying the top surface of the other section.

2,314,873
APPARATUS FOR MAKING GEOPHYSICAL EXPLORATIONS
Haakon M. Evjen, Houston, Tex., assignor to Nordel Corporation, Houston, Tex., a corporation of Delaware
Application September 27, 1941, Serial No. 412,622
7 Claims. (Cl. 175—182)

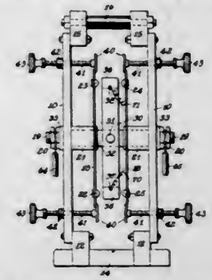
1. A system for electrical prospecting, comprising an earth current circuit including a source of direct current, a pair of spaced earth electrodes, and reversing means connected between said source and said electrodes for reversing the direct current at a predetermined controlled frequency whereby an earth current having a predetermined frequency is passed through the earth between said electrodes, a potential circuit including potential pick-up electrodes located at spaced points adjacent the earth's surface lying within the field of influence of said earth current, a direct current indicating device connected to indicate the potential of said potential circuit, and reversing means synchronized with said first reversing means and connected between said potential pick-up electrodes and said indicating device to convert the picked-up potential difference into a uni-directional potential suited to actuate said indicating device, and coupling means connected between said earth current circuit and said potential circuit to impress on said potential circuit



a balancing potential which is directly proportional to the current flowing in said earth current circuit at the instant of measurement, said coupling means comprising a resistance connected in series with said earth current circuit to develop a potential drop thereacross proportional to the current flowing in said earth current circuit, a potentiometer connected in said potential circuit to apply thereto a potential drop opposing the potential picked up from said potential pick-up electrodes, a condenser connected across said potentiometer, a second condenser, and synchronized switch means connected to alternately connect said second condenser across said resistance and across said first condenser, whereby said second condenser periodically receives a charge from the potential drop across said resistance and applies the same to said first condenser for thereby building up a charge in said first condenser which is proportional to the potential drop across said resistance.

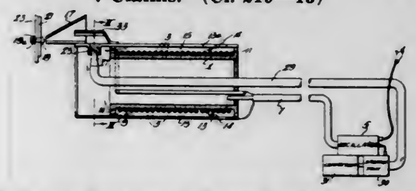
2,314,874
REVERSING SWITCH
Haakon M. Evjen, Houston, Tex., assignor to Nordel Corporation, Houston, Tex., a corporation of Delaware
Application February 25, 1942, Serial No. 432,176
4 Claims. (Cl. 200—23)

1. A switch comprising an arm having a contact member, a shaft carrying said arm, mechanism connected to rock said shaft at a controlled frequency, a pair of contacts positioned to be engaged respectively by said contact member when said arm rocks in opposite directions, spring means carrying said contacts and arranged to flex in response to the rocking movement of said arm after the respective contacts have been closed, and stop means limiting the return movement of said contacts to thereby cause said contacts to break contact with said contact member at predetermined positions of said arm, said stop



members being adjustable for controlling the extent of gap or overlap at reversal.

2,314,875
HEATING DEVICE
Henderson C. Gillespie, Moorestown, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application November 29, 1941, Serial No. 420,956
7 Claims. (Cl. 219—13)



7. In combination, a transformer including a primary winding adapted to be connected to a source of electrical energy and a secondary winding inductively coupled to and spaced from said primary winding whereby to provide a passageway therebetween for the passage of air, one of said windings extending beyond the other of said windings, a radially extending tubular member on the extension of said first named winding, means affording communication between said tubular member and said passageway, and a nozzle adapted to be connected to a source of compressed air extending into said tubular member and facing in a direction such that the compressed air passing therethrough and thence through said tubular member will produce a vacuum in said passageway whereby to draw atmospheric air therethrough to effect cooling of said windings.

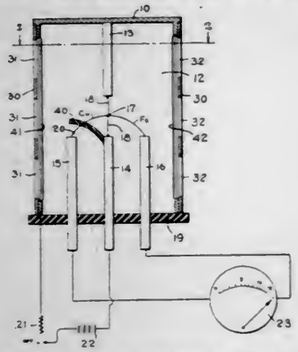
2,314,876
BAG, COMPOSITE MATERIAL, AND METHOD OF MAKING
Edwin D. Greene, New York, N. Y., assignor to Arkell Safety Bag Company, New York, N. Y., a corporation of New York
Application February 9, 1939, Serial No. 255,467
8 Claims. (Cl. 154—40)



1. A bag made of composite material of the class described comprising a plurality of sheets of crinkled paper arranged in superposed relation with the crests of the crinkles of adjacent sides of adjacent sheets arranged generally in juxtaposition and adhesively secured together sub-

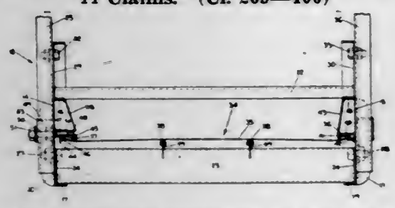
stantially throughout the areas of the sheets, the crinkles of adjacent sheets being generally in non-nested relation and the superposed valleys of the crinkles of said sheets opening into one another and forming air spaces between the sheets, the crinkles in all of the sheets extending transversely of the bag to provide elastic stretchability longitudinally of the bag.

2,314,877
FLUID VELOCITY MEASURING DEVICE
William D. Hall, Elkins, W. Va.
Application October 31, 1940, Serial No. 363,716
11 Claims. (Cl. 73—204)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



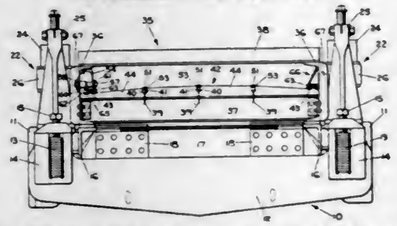
1. In an air-speed measuring device; a first circuit consisting of a heating wire no greater than 0.002 inch thick, means for forcing current through said heating wire, and a rheostat for adjusting such current; a second circuit comprising a thermocouple having a hot junction, said hot junction being composed of wires no greater than 0.002 inch in diameter one of which is welded to the heating wire at a single junction point of connection, and a meter for measuring the output of said thermocouple; said connection constituting the sole electrical connection between said first and second circuits; and means for selectively exposing to or isolating the connection from the heat-carrying away effects of the air to be measured.

2,314,878
SCREEN
Richard D. Heller, Boise, Idaho
Application May 12, 1939, Serial No. 273,328
11 Claims. (Cl. 209—400)



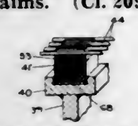
2. A screen deck comprising a side plate having an inwardly extending top flange, a support, mechanism comprising a rivet for rigidly securing said support to said side plate, a reinforcing plate on said support and having its upper edge rigidly secured to the inner edge of said flange, and screen cloth attaching means carried by said support.

2,314,879
SCREEN
Richard D. Heller, Columbus, Ohio
Original application October 8, 1938, Serial No. 234,014. Divided and this application May 23, 1941, Serial No. 394,847
10 Claims. (Cl. 209—403)



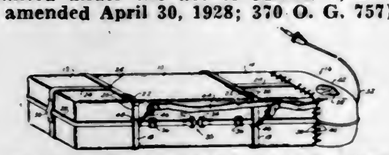
1. A screen deck comprising an upright support comprising a vertical plate and an inwardly extending flange, an inverted channel having one of its flanges secured to said vertical plate, a reinforcing plate having its lower edge secured to the inner edge of said inverted channel and having its upper edge rigidly secured to said vertical plate adjacent to said inwardly extending flange, and screen cloth attaching means on the under side of said inverted channel.

2,314,880
SCREEN
Richard D. Heller, Columbus, Ohio
Application May 23, 1941, Serial No. 394,848
6 Claims. (Cl. 209—400)



1. In apparatus of the class described, the combination with a vibratory deck, of a screen comprising a plurality of strands of wire, and means for supporting said screen on said deck comprising an elongated block of hard rubber carried by a support with a strip of relatively soft rubber vulcanized to the top of said elongated block of hard rubber and provided with spaced-apart parallel grooves for receiving said strands of wire, such vulcanization serving to hold said parallel grooves in their proper relationship.

2,314,881
QUICK RELEASE AERIAL DELIVERY UNIT
Paul F. Helmick, Dayton, Ohio
Application January 8, 1942, Serial No. 426,035
4 Claims. (Cl. 244—138)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



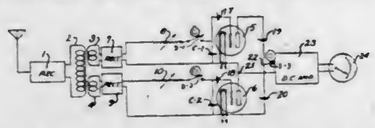
1. In an apparatus of the character described, a middle section adapted for holding articles to be dropped in padded spaced apart relation, a pair of end caps of fabric, each having one end open, said open ends being slidable over the ends of said middle section, a reinforcing band surrounding the open end of each cap, said band being stitched to the cap except for small portions near the ends which are unstitched, an adjusting buckle secured to the unstitched ends, a reinforcing strap stitched across the closed end of each cap, then lengthwise across opposite sides and to the band, a second reinforcing strap stitched across the closed end crosswise of the first, then lengthwise across opposite sides to and beyond the band, separable parts of a quick release fastener and buckles for adjusting the length of said second strap carried by the outer ends of the portions which extend beyond the band, and means on the bands for attaching parachute risers.

2,314,882
COMPOSITE METAL STRUCTURE
Franz R. Hensel and Earl I. Larsen, Indianapolis, Ind., assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware
Application October 15, 1940, Serial No. 361,236
2 Claims. (Cl. 219—4)



1. An electric current carrying arm consisting of a heat treatable austenitic steel insert and a heat treatable copper base alloy sheath cast around said insert, said steel containing age-hardening ingredients selected from the group consisting of nickel, chromium, manganese, titanium, molybdenum, tungsten and beryllium, said copper base alloy containing age-hardening ingredients selected from the group consisting of chromium, beryllium and silicides, beryllides, aluminides, phosphides of iron, cobalt, nickel, manganese and chromium, both said steel insert and said copper alloy sheath being improved in strength and said copper alloy being improved in electrical conductivity by the same heat treatment consisting of quenching from above 1650° F. and subsequently aging at below 1650° F.

2,314,883
DISTANCE INDICATOR AND SYSTEM
Jacob Herson, Dayton, Ohio
Application July 9, 1941, Serial No. 401,617
9 Claims. (Cl. 250—1)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



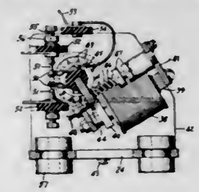
1. In a system for determining the distance of a moving object from a predetermined point when radio waves are emitted from said point and said object is moving at substantially constant speed on line with said point, a field strength comparing device moving with said object and comprising a receiver having an output proportional to the field strength of the waves received, a plurality of individual storage means connected with the output of said receiver, means controlling said storage means to render the latter successively effective to store the output of said receiver at different points along the path of movement of said object, said points being equally spaced in point of time, and means connected with said storage means for determining the ratios of the quantities of energy stored at said different points to thereby establish the distance of said object from said point.

2,314,884
CONNECTOR
Peter Klein, Brooklyn, N. Y.
Application May 1, 1940, Serial No. 332,716
9 Claims. (Cl. 174—84)



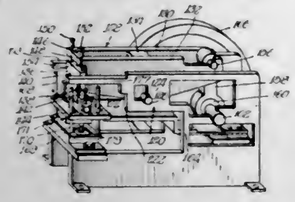
1. A connector for cut electrical conductors comprising a plurality of wires, said connector comprising in combination two cylindrical, concentric and substantially co-extensive tubes, the inner tube being unitary and being formed of electrically conducting metal sufficiently soft to be ductile under manually applied pressure and having conical indentations formed therein and projecting inwardly for engagement between separate wires of said conductors respectively, whereby said wires are deflected circumferentially and twisted partially around said indentations, and the outer tube being unitary and being formed of relatively hard metal and being provided with apertures for the insertion of a prong to produce said indentations of said inner tube.

2,314,885
RELAY
Edward A. Leach, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application May 22, 1941, Serial No. 394,737
13 Claims. (Cl. 200—104)



1. A relay comprising a plurality of contacts and means for actuating one of said contacts to cause it to engage either of two of the remaining contacts comprising an operating member fulcrumed at a point intermediate its ends and carrying at one end said one contact, biasing means adjacent the fulcrum of said operating member for turning the operating member in a direction to cause the contact thereon to engage one of said two contacts, resilient means positioned on the same side of the fulcrum as said biasing means and adjacent the other end of said member for sliding engagement therewith, and electromagnetic means effective through said resilient means to turn said operating member in a direction to cause the contact thereon to engage the other of said two contacts and to cause said resilient means to cumulate energy for frictionally damping said member during sliding engagement therewith whereby to prevent bouncing of the member under the turning action of said electromagnetic means and said biasing means.

2,314,886
PUNCH PRESS
Freeland H. Leslie, Chicago, Ill.
Application May 12, 1941, Serial No. 393,040
11 Claims. (Cl. 164—86)



1. A punch press comprising a base, a punching zone above one portion of said base, a flexible leaf having one end affixed to another portion of said base and having its free end extending into the punching zone, vertical support means mounted on the base adjacent to that portion to which the leaf is affixed, and means on said support means for moving the free end of the leaf, in the punching zone, whereby the distance from the punching zone to the vertical supports may define the depth to which a workpiece may be inserted through the punching zone.

2,314,887
METHOD OF COATING METAL AND MATERIAL
Herman J. Lodeesen, Royal Oak, and Herbert K. Ward, Detroit, Mich., assignors to Parker Rust Proof Company, Wayne County, Mich.
No Drawing. Application March 30, 1940, Serial No. 327,036
13 Claims. (Cl. 148—6)

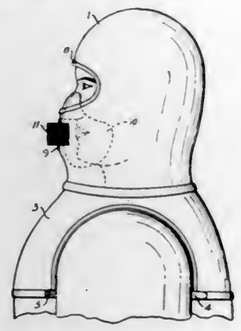
1. In the method of coating metal with a phosphate coating by subjecting the surface of the metal to a phosphate coating solution containing bromate, the step of preventing the escape of bromine by employing in the solution a material in which bromine is readily substituted to form a compound which is not dissociated in the coating solution.

2,314,888
GRADE FINISHING MACHINE
Dave M. Manning, Hysham, Mont.
Application January 13, 1942, Serial No. 426,625
10 Claims. (Cl. 37—180)



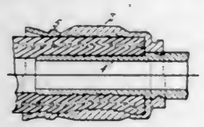
1. A machine of the class described comprising an elongated body, ground engaging supporting members carried by the opposite end portions of the body, a scraper blade carried by the body at the central part thereof and disposed transversely thereof, a boom pivotally connected at one end with the rear side of the blade for vertical swinging movement, said boom being disposed rearwardly of the transverse center of the body, an axle carried by the boom rearwardly of the pivotal support for the boom and disposed transversely of the body, ground engaging supporting wheels carried by said axle, and tensioned means operatively connecting the other end of the boom with the body and constantly urging swinging of the boom downwardly.

2,314,889
NONFREEZING MOUTHPIECE
Frank G. Manson and James J. Maskey, Dayton, Ohio
Application September 30, 1941, Serial No. 412,977
7 Claims. (Cl. 128—146)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



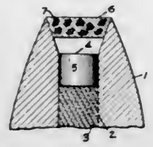
3. A non-freezing mouthpiece for use in cold weather equipment comprising a bunch of contiguously and parallelly disposed filiform elements characterized by their ability to prevent the formation of solid ice thereon, said mouthpiece being so disposed that the respiratory air from the wearer's mouth will pass through said bunch along the length of said elements.

2,314,890
FLEXIBLE HOSE COUPLING
Walter Arthur Melsom, London, England, assignor to Bowden (Engineers) Limited, London, England, a British company
Application February 7, 1941, Serial No. 377,814
In Great Britain April 11, 1940
6 Claims. (Cl. 285—84)



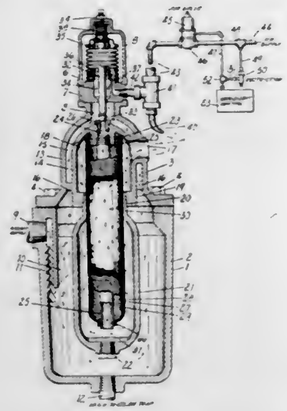
6. A hose coupling component suitable for use with medium or high pressure hoses comprising a flexible hose and a circumferentially continuous sleeve and an insert between which said hose is contracted and gripped, said sleeve being formed with an integral thickened band which has its maximum thickness situated medially of the ends of the sleeve and which produces a primary zone of intense constriction medially of such ends, said sleeve having an integral second thickened band separate from and of less thickness than said first band which produces a separate zone of secondary constriction whose maximum is less than that of the first zone, such second band being situate around the insert and approximately opposite to the end thereof, said sleeve having at least one further integral thickened band separate from said primary and secondary bands, the thickness of the separate successive bands and the magnitude of the separate successive rings of maximum constriction produced thereby being progressively less from the primary band to the secondary band.

2,314,891
PROJECTILE
Wiley T. Moore, United States Army, Laverne, Okla.
Application January 22, 1941, Serial No. 375,379
11 Claims. (Cl. 102—76)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A fuse for projectiles comprising a heat-resisting barrier member, with pores therein and heat destructible material in said pores.

2,314,892
HUMIDIFYING SYSTEM
Alexander J. Papulski, Three Rivers, Mich., assignor to Armstrong Machine Works, Three Rivers, Mich., a corporation of Michigan
Application October 20, 1941, Serial No. 415,788
22 Claims. (Cl. 236—44)

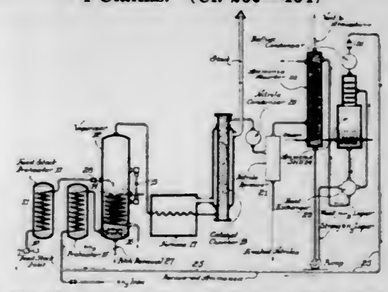


16. A humidifying system comprising a casing provided with a steam supply connection and a discharge opening, a valve controlling the delivery of steam from said casing to said delivery chamber, a pressure responsive member operably connected to said valve and subject to the pressure in advance of said valve, and means for actuating said pressure responsive member to control said valve, comprising an air supply pipe communicating with said pressure responsive member to actuate the same under certain conditions whereby to actuate said valve in opposition to said means, an air jet in communication with said last named pipe disposed adjacent said discharge opening to supply a blast of air for disseminating steam from said opening in the atmosphere to be humidified a source of air supply having an air controlled valve connecting the same with said air pipe and jet, and means between said supply and said last named air controlled valve for actuating the same under certain conditions of the atmosphere to be humidified to communicate said air supply pipe and jet with said air supply.

2,314,893
COFFEE OIL REFINING PROCESS
Herbert S. Polin, New York, Albert I. Nerken, Brooklyn, and Henry Wettingfeld, Jr., Bayside, Long Island, N. Y., assignors to Coffee X Corporation, a corporation of Delaware
No Drawing. Application November 12, 1940, Serial No. 365,327
6 Claims. (Cl. 260—407)

1. A process for obtaining resinous and volatile by-products from oil of the coffee bean, which comprises: heating the oil in the presence of water and a hydrolyzing agent to hydrolyze the fatty glycerides, separating the glycerine, subjecting the residue to increased temperature for a sufficient interval to effect polymerization, at least until a tough rubbery resinous compound is obtained, and separating the polymerized product from the volatile constituents.

2,314,894
PROCESS OF PREPARING NITRILES
Ralph H. Potts, La Grange, and Carl W. Christensen, Hinsdale, Ill.
Application October 5, 1940, Serial No. 359,885
4 Claims. (Cl. 260—464)

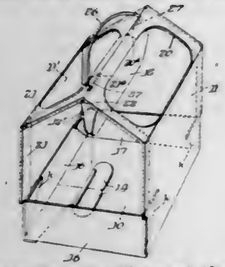


1. In the conversion of fatty acid substances chosen from the group consisting of fatty acids and esters thereof to the corresponding nitriles, the steps which comprise admixing ammonia with a body of the fatty acid substance in liquid phase in a heated liquid phase conversion zone, feeding fatty acid substance and ammonia to said zone, continuously withdrawing a vapor mixture from said zone, the vapor mixture containing nitriles formed in said liquid phase conversion zone, together with fatty acids, amides, and ammonia, passing said vapor mixture to a heated vapor phase conversion zone containing a dehydrating catalyst to convert fatty acids and amides in said vapors to nitriles while in the presence of said vaporized nitriles which have been vaporized from the liquid phase conversion zone, and condensing nitriles leaving said vapor phase conversion zone, all of the nitriles formed in said liquid phase conversion zone being vaporized therefrom and the vapors thereof subsequently condensed.

2,314,895
BOTTLE HOLDER
Henry K. Powell, Chicago, Ill., assignor to Morris Paper Mills, Chicago, Ill., a corporation of Illinois
Application May 5, 1938, Serial No. 206,126
3 Claims. (Cl. 229—31)

1. In a container of the class described, a sheet of paper board creased to provide a bottom panel having end strips along its ends and a side strip along one side and at its opposite side two side panels arranged end-to-end in series; said end strips being folded inwardly onto the bottom

panel and side strip and first side panel and being secured in that folded position by attachment to the side strip and said side panel and creased diagonally over the side strip and side panel to fold away from the bottom panel, whereby the end strips are adapted to be raised to upstanding positions relative to the bottom panel when the side strip and the first side panel are



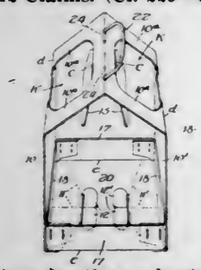
flexed to upstanding positions at the sides thereof; the second side panel having an extension foldable under the bottom panel and engageable therewith to secure said second side panel against the outer surface of the side strip and thereby support said side strip in upstanding position, a handle being provided at the upper ends of the side panels whereby the container may be carried with the bottom panel in horizontal position.

2,314,896

BOTTLE HOLDER

Henry K. Powell, Chicago, Ill., assignor to Morris Paper Mills, Chicago, Ill., a corporation of Illinois

Application September 21, 1938, Serial No. 230,903
12 Claims. (Cl. 229—52)



1. A container for the packaging of bottles or the like comprising a collapsible body member of sheet material formed with oppositely disposed side panels which are connected at their upper ends and constitute the side walls of the assembled container, and a separate bottom member disposed between the lower portions of the side panels, the side panels having lower portions folded inwardly below the bottom member to serve as supports therefor, said bottom member and the lower portions of said side panels being formed with interlocking parts whereby they are connected, and a handle being provided at the upper end of the body member whereby the device may be carried with the bottom in approximately horizontal position.

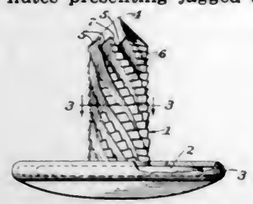
2,314,897

FLUTED SHANK FASTENER

Forrest G. Purinton, Waterbury, Conn., assignor to The Patent Button Company, Waterbury, Conn., a corporation of Connecticut

Application April 23, 1941, Serial No. 389,963
4 Claims. (Cl. 24—101)

1. A fastener for buttons and the like including a head, a pointed shank, the said shank provided with spiral flutes and the under surfaces of the said flutes presenting jagged surfaces to



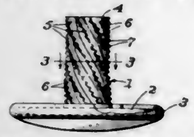
thereby add to the holding power of the said fastener after being driven into an opening of slightly less diameter than the diameter of the shank of the fastener.

2,314,898

FLUTED SHANK FASTENER

Forrest G. Purinton, Waterbury, Conn., assignor to The Patent Button Company, Waterbury, Conn., a corporation of Connecticut

Application June 25, 1941, Serial No. 399,693
2 Claims. (Cl. 24—101)



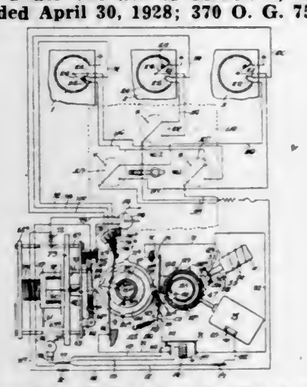
1. A metal headed fastener including a shank, the said shank being squared at its forward end, the said shank also provided with helical flutes, a plurality of spaced circumferential grooves cut into said flutes, resultant burrs on the under surface only of the said flutes to thereby add to the holding power of the fastener after being driven into an opening of slightly less diameter than the diameter of the shank of the fastener, and the side walls of the shank tapering slightly outwardly from its forward end to its head.

2,314,899

FUEL SYSTEM INCLUDING TIME DELAYED SELECTOR VALVES

David Samiran, Fairfield, Ohio

Original application March 13, 1939, Serial No. 261,542. Divided and this application August 13, 1940, Serial No. 352,427
20 Claims. (Cl. 158—36)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



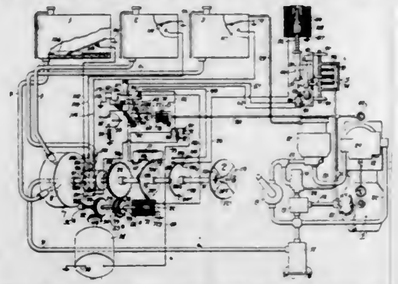
1. For use in a fuel system having a series of fuel tanks and a selector valve for selectively connecting the fuel tanks to a source of fuel consumption; a selector valve drive comprising a shaft, a driven gear on said shaft, a driving gear meshing therewith, a motor for rotating said driving gear, a clutch for operatively connecting said motor with said driving gear, a multi-circuit commutator driven synchronously with said selector valve shaft, a relay switch in series therewith, a fuel pressure responsive switch for energizing said motor and closing said relay upon failure of fuel pressure supplied to said source of fuel consumption, a tank switch for each of the series of fuel tanks and electrically connected, one in each circuit of each commutator, a tripping cam driven by said motor through a yielding connection, a clutch switch cam operated synchronously with said selector valve shaft, a clutch switch so constructed and arranged between said tripping cam and said clutch switch cam as to be closed by the clutch switch cam upon rotation thereof in response to an empty tank condition and of fuel pressure to said source of fuel consumption resulting therefrom until such time as the advancing cam lobe of the clutch switch cam causes an open circuit condition through said clutch switch whereupon said clutch switch moves into the path of the next advancing cam lobe of said tripping cam, joint clutch switch and tripping cam engagement continuing until predetermined driving tension build-up in said yielding connection causes said tripping cam to reestablish a second circuit condition of said clutch switch, resulting thereby in engagement of said clutch to cause rotation of said selector valve shaft to another position of port registration when fuel pressure fails to be built up in said pressure responsive switch due to continued failure of fuel for said source of fuel consumption and, due to presence of fuel in a tank with which the selector valve is then connected, the circuit through said commutator is opened.

2,314,900

AUTOMATIC FUEL SYSTEM HAVING AUTOMATIC SAFETY SWITCHES

David Samiran, Fairfield, Ohio

Application October 8, 1940, Serial No. 360,299
19 Claims. (Cl. 123—139)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



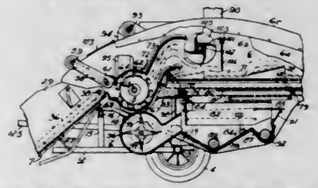
1. In an automatic fuel system having an automatic safety switch, a selector valve connected between a plurality of fuel tanks and an internal combustion engine having a pressure oiling system, a motor for operating said selector valve at high speed when changing from one selector valve position to the next, a fuel pressure and selector valve position responsive switch controlling energization of said motor, a shunt switch in circuit with said motor, a resistance shunting said shunt switch, said shunt switch being opened by said selector valve when adjacent port registering position whereby to slow down the rotation of said selector valve, and an oil pressure responsive switch in series with said fuel pressure and selector valve position responsive switch and operable to establish a circuit thereto only when said internal combustion engine is operating and delivering oil in excess of a predetermined pressure to said pressure oiling system.

2,314,901

HARVESTER-THRESHER

Charles J. Scranton, La Porte, Ind., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware

Application April 6, 1939, Serial No. 266,297
9 Claims. (Cl. 130—27)



1. In a harvester-thresher, threshing mechanism, said threshing mechanism comprising a rotatable cylinder and a cooperative substantially imperforate concave beneath said cylinder and extending rearwardly and upwardly to a point above the axis of said cylinder, said threshing mechanism being operative under normal operating conditions to forcibly discharge therefrom in a rearwardly and upwardly directed stream substantially all of the material passed through said threshing mechanism, a deflecting plate disposed above and to the rear of said threshing mechanism in a position to be impinged upon by threshed grain particles of the material forcibly discharged along with straw from the threshing mechanism and to deflect said threshed grain downwardly, and separating mechanism disposed rearwardly of said threshing mechanism and including a rotary fan disposed above the axis of said threshing mechanism and operable to direct a blast of air against said discharged material beneath said deflecting plate to substantially impede the rearward progress thereof and which loosens said straw and facilitates the dropping of threshed grain through the straw while the latter is suspended in air in advance of said fan.

2,314,902

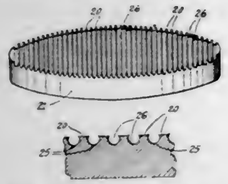
METHOD FOR CAUSING SPRAYED METAL TO ADHERE TO METAL SURFACES

Arthur P. Shepard, New York, N. Y., assignor to Metallizing Engineering Company, Inc., Long Island City, N. Y., a corporation of New Jersey

Continuation of application Serial No. 366,957, November 25, 1940, which is a division of application Serial No. 221,650, July 27, 1938. This application April 16, 1940, Serial No. 329,906
3 Claims. (Cl. 29—148)

2. In the process of forming, by metal spraying, an adherent coating of metal on a metal surface, the method of preparing such surface which comprises providing a rolling tool having a plurality of circular rows of metal splaying and peening teeth, the teeth of at least some of said rows being out of line with respect to the teeth of other rows, forming a multiple number of closely spaced grooves in such metal surface, repetitiously rolling the grooved metal surface with such tool to cut irregularly spaced teeth

marks, simulating grit-blasted marks, into said surface intermediate said grooves, continuing the rolling of the thusly cut surface with such tool and cause some of said teeth to mesh with pre-



viously cut teeth marks and other teeth to splay and peen out of mesh with previously cut teeth marks to thereby obtain a surface, intermediate said grooves, simulating a grit-blasted surface.

2,314,903

POLYMERIZATION OF UNSATURATED COMPOUNDS HAVING THE CYCLOPENTADIENE NUCLEUS

Frank J. Soday, Upper Darby, Pa., assignor to The United Gas Improvement Company, a corporation of Pennsylvania

No Drawing. Application April 25, 1938, Serial No. 204,229

10 Claims. (Cl. 260—80)

1. A process for producing benzene-soluble cyclic diene polymer by the catalytic polymerization of a cyclic diene compound selected from the class of cyclic dienes consisting of cyclopentadiene, alkyl substituted cyclopentadiene and aryl substituted cyclopentadiene in the substantial absence of polymerizable compounds not contained in said class, comprising mixing with said cyclic diene in the presence of a solvent to effect said polymerization in considerable proportion to said cyclic diene polymer a hydrolyzable zinc chloride-organic solvent complex previously formed by reacting zinc chloride with an organic solvent capable of reacting with zinc chloride to form said hydrolyzable complex; and preventing the polymerization of said cyclic diene from being effected entirely to benzene-insoluble cyclic diene polymer by thoroughly agitating the reaction mass while maintaining the reaction temperature below 100° C., the concentration of said cyclic diene below 50% by weight, and the proportion of catalyst to said cyclic diene below 25% by weight, and by stopping the reaction by inactivating said catalyst while benzene-soluble cyclic diene polymer is present in the reaction mass.

2,314,904

POLYMERIZATION OF UNSATURATED COMPOUNDS HAVING THE CYCLOPENTADIENE NUCLEUS

Frank J. Soday, Upper Darby, Pa., assignor to The United Gas Improvement Company, a corporation of Pennsylvania

No Drawing. Application April 28, 1938, Serial No. 204,786

10 Claims. (Cl. 260—80)

1. A process for producing benzene-soluble cyclic diene polymer by the catalytic polymerization of a cyclic diene compound selected from the class of cyclic dienes consisting of cyclopentadiene, alkyl substituted cyclopentadiene and aryl substituted cyclopentadiene in the substantial absence of polymerizable compounds not contained in said class, comprising mixing with said cyclic diene in the presence of a solvent to effect said polymerization in considerable proportion to said cyclic diene polymer a hydrolyzable aluminum chloride-organic solvent complex previously formed by reacting aluminum chloride with an organic solvent capable of reacting with aluminum chloride to form said hydrolyzable complex; and preventing the polymerization of said cyclic diene from being effected entirely to benzene-insoluble cyclic diene polymer by thoroughly agitating the reaction mass while maintaining the reaction temperature below 100° C., the concentration of said cyclic diene below 50% by weight, and the proportion of catalyst to said cyclic diene below 25% by weight, and by stopping the reaction by inactivating said catalyst while benzene-soluble cyclic diene polymer is present in the reaction mass.

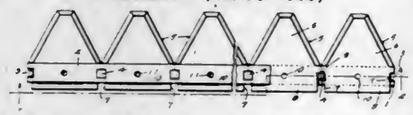
2,314,905

HARVESTER CUTTER BAR

Neil Sorenson, Salt Lake City, Utah

Application September 29, 1941, Serial No. 412,852

4 Claims. (Cl. 56—300)



4. A cutter bar for harvesters, comprising upper and lower bar sections, square cornered rivets disposed at regular intervals along the length of the sections for securing the latter together for disposal in spaced parallel relation to each other to provide seats between the same, blades including beveled substantially triangular shaped cutting portions, said blades having square cornered recesses extending from the sides and rear edges thereof to provide reduced rear portions and shoulders at the forward ends of the recesses, said reduced rear portions being mounted in the seats with the shoulders and side edges of the recesses abutting the rivets to prevent rearward and lateral displacement of the blades, and means for locking the blades to at least one of said sections against lateral movement.

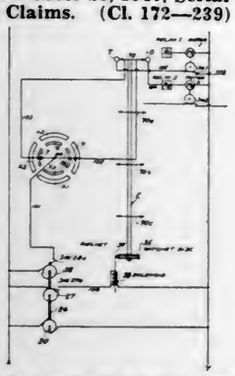
2,314,906

TIME CONTROL APPARATUS

Gustave D. Stahl, Melrose Highlands, Mass., assignor, by mesne assignments, to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware

Application November 23, 1940, Serial No. 366,831

12 Claims. (Cl. 172—239)



1. A timer for controlling the operation of a plurality of devices cyclically which comprises operating means for each device, a plurality of discs each having a set of contacts in circuit with said operating means, an energizing arm for each set of contacts, time-controlled operating means for moving each energizer step by step in engagement sequentially with the contacts of its set, an independent power selector in circuit with each energizer, an electrical power source, means for supplying power from said source to each selector, and means for transferring power from one selector to another selector when an energizing arm has engaged all the contacts of a set.

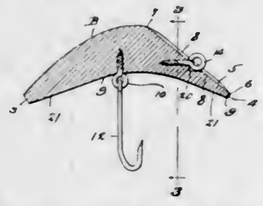
2,314,907

FISHING LURE

Floyd D. Sweeney, Fresno, Calif.

Application July 26, 1941, Serial No. 404,227

1 Claim. (Cl. 43—46)



A fishing lure comprising a body of approximately circular cross section, and tapered rearwardly from a place approximately midway between its ends, the body having a flat rear end surface, and a lower, forward surface, which converge downwardly, the body being provided with an upper, forward surface extended from the upper edge of the lower forward end surface to a place a little less than half the length of the body, measured from front to rear, the upper, forward surface having a downward and forward slant throughout its length, and being transversely concaved throughout its length on a radius so long that the concavity extends through materially less than 180 degrees of arc, the lower edge of the body comprising an intermediate upward curve and straight, obtusely disposed portions extended, respectively, from the ends of the intermediate curve to the lower ends of the rear end surface and the lower, forward surface, a single fish hook support on the lower surface of the body and disposed slightly to the rear of the rear edge of the upper, forward surface and midway between the sides of the body, a hook mounted to swing on the hook support, and a casting line connection located on the upper, forward surface, midway between the sides of the body and nearer to the lower end of that surface than to the upper end thereof, the hook support being disposed slightly to the rear of a point midway between the ends of the body, to offset the weight of the casting line connection.

2,314,908

POLYMERIZATION OF UNSATURATED COMPOUNDS HAVING THE CYCLOPENTADIENE NUCLEUS

Samuel G. Trepp, Swarthmore, Pa., assignor to The United Gas Improvement Company, a corporation of Pennsylvania

No Drawing. Application April 14, 1938, Serial No. 201,878

10 Claims. (Cl. 260—80)

1. A process for producing benzene-soluble cyclic diene polymer by the catalytic polymerization of a cyclic diene compound selected from the class of cyclic dienes consisting of cyclopentadiene, alkyl substituted cyclopentadiene and aryl substituted cyclopentadiene in the subtantial absence of polymerizable compounds not contained in said class, comprising mixing with said cyclic diene in the presence of a solvent to effect said polymerization in considerable proportion to said cyclic diene polymer a hydrolyzable ferric chloride-organic solvent complex previously formed by reacting ferric chloride with an organic solvent capable of reacting with ferric chloride to form said hydrolyzable complex; and preventing the polymerization of said cyclic diene from being effected entirely to benzene-insoluble cyclic diene polymer by thoroughly agitating the reaction mass while maintaining the reaction temperature below 100° C., the concentration of said cyclic diene below 50% by weight, and the proportion of catalyst to said cyclic diene below 25% by weight, and by stopping the reaction by inactivating said catalyst while benzene-soluble cyclic diene polymer is present in the reaction mass.

2,314,909

POLYMERIZATION OF UNSATURATED COMPOUNDS HAVING THE CYCLOPENTADIENE NUCLEUS

Samuel G. Trepp, Swarthmore, Pa., assignor to The United Gas Improvement Company, a corporation of Pennsylvania

No Drawing. Application June 17, 1938, Serial No. 214,385

10 Claims. (Cl. 260—80)

1. A process for producing benzene-soluble cyclic diene polymer by the catalytic polymerization of a cyclic diene compound selected from the class of cyclic dienes consisting of cyclopentadiene, alkyl substituted cyclopentadiene and aryl substituted cyclopentadiene in the substantial absence of polymerizable compounds not contained in said class, comprising mixing with said cyclic diene in the presence of a solvent to effect said polymerization in considerable proportion to said cyclic diene polymer a hydrolyzable aluminum bromide-organic solvent complex previously formed by reacting aluminum bromide with an organic solvent capable of reacting with aluminum bromide to form said hydrolyzable complex; and preventing the polymerization of said cyclic diene from being effected entirely to benzene-insoluble cyclic diene polymer by thoroughly agitating the reaction mass while maintaining the reaction temperature below 100° C., the concentration of said cyclic diene below 50% by weight, and the proportion of catalyst to said cyclic diene below 25% by weight, and by stopping the reaction by inactivating said catalyst while benzene-soluble cyclic diene polymer is present in the reaction mass.

2,314,910

POLYMERIZATION OF UNSATURATED COMPOUNDS HAVING THE CYCLOPENTADIENE NUCLEUS

Samuel G. Trepp, Swarthmore, Pa., assignor to The United Gas Improvement Company, a corporation of Pennsylvania

No Drawing. Application July 30, 1938, Serial No. 222,197

10 Claims. (Cl. 260—80)

1. A process for producing benzene-soluble cyclic diene polymer by the catalytic polymerization of a cyclic diene compound selected from the class of cyclic dienes consisting of cyclopentadiene, alkyl substituted cyclopentadiene and aryl substituted cyclopentadiene in the substantial absence of polymerizable compounds not contained

in said class, comprising mixing with said cyclic diene in the presence of a solvent to effect said polymerization in considerable proportion to said cyclic diene polymer a hydrolyzable titanium tetrachloride-organic solvent complex previously formed by reacting titanium tetrachloride with an organic solvent capable of reacting with titanium tetrachloride to form said hydrolyzable complex; and preventing the polymerization of said cyclic diene from being effected entirely to benzene-insoluble cyclic diene polymer by thoroughly agitating the reaction mass while maintaining the reaction temperature below 100° C., the concentration of said cyclic diene below 50% by weight, and the proportion of catalyst to said cyclic diene below 25% by weight, and by stopping the reaction by inactivating said catalyst while benzene-soluble cyclic diene polymer is present in the reaction mass.

2,314,911

POLYMERIZATION OF UNSATURATED COMPOUNDS HAVING THE CYCLOPENTADIENE NUCLEUS

Samuel G. Trepp, Swarthmore, Pa., assignor to The United Gas Improvement Company, a corporation of Pennsylvania

No Drawing. Application August 9, 1938, Serial No. 223,849
10 Claims. (Cl. 260—80)

1. A process for producing benzene-soluble cyclic diene polymer by the catalytic polymerization of a cyclic diene compound selected from the class of cyclic dienes consisting of cyclopentadiene, alkyl substituted cyclopentadiene and aryl substituted cyclopentadiene in the substantial absence of polymerizable compounds not contained in said class, comprising mixing with said cyclic diene in the presence of a solvent to effect said polymerization in considerable proportion to said cyclic diene polymer a hydrolyzable stannic chloride-organic solvent complex previously formed by reacting stannic chloride with an organic solvent capable of reacting with stannic chloride to form said hydrolyzable complex; and preventing the polymerization of said cyclic diene from being effected entirely to benzene-insoluble cyclic diene polymer by thoroughly agitating the reaction mass while maintaining the reaction temperature below 100° C., the concentration of said cyclic diene below 50% by weight, and the proportion of catalyst to said cyclic diene below 25% by weight, and by stopping the reaction by inactivating said catalyst while benzene-soluble cyclic diene polymer is present in the reaction mass.

2,314,912

STATIONARY INDUCTION APPARATUS

Matthew O. Troy, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application May 25, 1939, Serial No. 275,625
2 Claims. (Cl. 175—356)



1. Stationary induction apparatus comprising a conductive winding structure having a substantially straight leg and a core composed of magnetic strip material wound spirally flatwise around the leg, the strip being tapered or having a plurality of parts of successively smaller widths, the widest part of the strip being at the inside of the core adjacent the winding leg whereby the cross-section of successive layers of core progressively decreases toward the outer periphery thereof so as to tend to equalise the magnetic flux density in the layers of the core.

2,314,913

SILK SCREEN PRINTING

Herbert A. Weiller, Los Angeles, Calif., assignor to Weiller Processes, Inc., a corporation of New Jersey

No Drawing. Application April 17, 1940, Serial No. 330,066
5 Claims. (Cl. 101—211)

1. The process of multi-color printing with silk screens which comprises providing a plurality of foraminous screens each one for each color and each having a selected portion of a desired design sketched thereon that is to appear in the corresponding color and so arranged that at least a portion of the design in one color will overlap at least a portion of the design in another color when the screens are used in printing the desired design, spraying a coating material in finely divided form on said selected portions of said foraminous screens to form numerous dots thereon in a varying arrangement characteristic of sprayed material, controlling the denseness of the varying sized and shaped dots during the said spraying operation for a given screen in accordance with the wish of the operator to achieve the color effect desired to be produced by each screen, and thereafter printing a multi-color design upon a surface to be printed by successively forcing a corresponding color through the openings of each different screen upon said surface.

2,314,914

MULTIPURPOSE PARACHUTE DELIVERY CONTAINER

Harry Wilson and William P. Yarborough, Fort Benning, Ga.

Application April 8, 1942, Serial No. 438,100
1 Claim. (Cl. 244—137)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



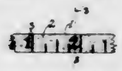
Parachute delivery apparatus comprising a rectangular piece of fabric having rows of eyelets near two opposite edges, said edges being overlapped and provided with a lacing to form the sides of a container, a bottom of similar fabric stitched in one end of the container, a top of similar fabric, ties for holding said top on said container, spaced-apart load straps extending parallelly across the bottom of the container and upwardly along opposite sides, converging at the top and provided at the convergence of the ends with rings, said straps being stitched to said container, bands extending horizontally around the container and provided near the lacing with buckles, said bands being stitched to the container except for a space near the ends, a parachute pack on said lid, ties for holding said pack to said container, the parachute risers being joined to said rings by snap fasteners, and a shock absorber in the bottom of the container, said shock absorber comprising an inflated pneumatic tire between two disks of plywood enclosed in a fabric casing.

2,314,915

MEASURING TAPE

Eugene J. Witchger, Saginaw, Mich., assignor to The Lufkin Rule Company, Saginaw, Mich., a corporation of Michigan

Application November 24, 1939, Serial No. 305,965
7 Claims. (Cl. 33—137)



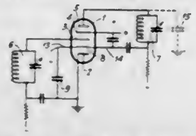
1. A tape measure comprising a flexible strip of ribbon metal having at least one face thereof provided with a mat-like minutely punctulated area, portions of said area having a coating penetrating into the punctules thereof and a contrasting coating of rust resistant metal abutting said first mentioned coating and covering the entire remaining portions of said area, said metal coating providing a substantially glare free, light diffusing surface, one of said coatings constituting markings including graduation markings and the other coating constituting a background area for said markings.

2,314,916

CIRCUIT FOR THE AMPLIFICATION AND/OR FREQUENCY-TRANSFORMATION OF ELECTRICAL OSCILLATIONS OF ULTRA HIGH FREQUENCY

Gerrit Hendrik Petrus Alma, Maximiliaan Julius Otto Strutt, and Aldert van der Ziel, Eindhoven, Netherlands; vested in the Alien Property Custodian

Application May 9, 1941, Serial No. 392,633
In the Netherlands June 12, 1940
18 Claims. (Cl. 179—171)



1. A circuit for the transmission of electrical oscillations of ultra-high frequency, which comprises a discharge tube provided with at least a cathode, a control grid and an output electrode, a suction grid having a positive bias being provided intermediate the control grid and the cathode, in which circuit the suction grid is provided with two separate supply conductors, the suction grid being connected for high-frequency via one of these supply conductors to the control grid and via the other supply conductor to the output electrode.

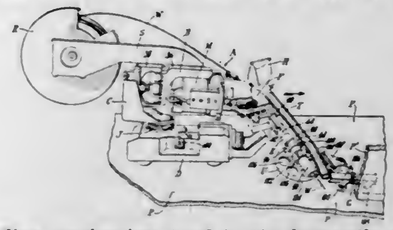
2,314,917

ELECTRIC WELDING APPARATUS

Albert W. Baird, Elizabeth, N. J., assignor to The Linde Air Products Company, a corporation of Ohio

Application May 22, 1941, Serial No. 394,594
8 Claims. (Cl. 219—8)

1. Electric fillet welding apparatus comprising, in combination, a motive device for traversing said apparatus along a seam to be welded; a welding rod reel; a feeding mechanism for feeding welding rod from said reel toward the line to be welded; means for conducting electric welding current to said welding rod; means pivotally supporting said reel and said feeding mechanism on said device for oscillation as a unit in a vertical plane, the weight of said reel and feeding mechanism being so distributed that said reel and



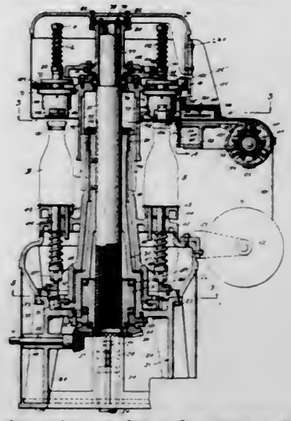
feeding mechanism tend to tip forwardly about such pivotal supporting means; and means for guiding said apparatus along the intersection of a pair of angularly disposed plates to be weld united by a fillet weld, said guiding means including a member secured to said feeding mechanism and rotatably engaging one of the members to be welded to support a portion of the weight of said reel and feeding mechanism.

2,314,918

BOTTLE CAPPING MACHINE

Gerhard H. J. Baule, Syracuse, N. Y., assignor to Oswego Falls Corporation, Fulton, N. Y., a corporation of New York

Application January 21, 1941, Serial No. 375,169
13 Claims. (Cl. 226—83)



1. A machine for applying hood caps to bottles, the skirt portion of said caps being provided with a substance rendered adhesive by the application of heat to make the caps self-securing on the bottles, comprising a frame, means for advancing a procession of bottles to a capping station, means for supporting a plurality of caps joined together in strip formation, a cap heating oven mounted on the frame in juxtaposition to the cap applying station, cap strip advancing and retracting means, a bottle actuatable member arranged remote from the capping station and being actuated by each bottle of said procession, said strip feeding means being operable upon actuation of said member by successive bottles presented thereto in predetermined timed relation to advance the strip as each bottle approaches the capping station to successively move heated caps

out of the oven to the capping station, cutter means operable to sever the heated cap positioned at the cap applying station, and cap contracting and securing means operable to secure the cap on the top of the bottle, and said strip feeding and retracting means being operable, upon failure of a bottle being presented to said bottle actuatable member in such predetermined timed relation, to retract said strip and move the cap then positioned in the oven out of the oven.

2,314,919

METHOD FOR REMOVING WEAKLY ACIDIC SUBSTANCES FROM WATER-IMMISCIBLE LIQUIDS

Donald C. Bond, Northbrook, George W. Ayers, Jr., Chicago, and Lawrence M. Henderson, Winnetka, Ill., assignors to The Pure Oil Company, Chicago, Ill., a corporation of Ohio

No Drawing. Application March 13, 1941, Serial No. 383,160
8 Claims. (Cl. 196—32)

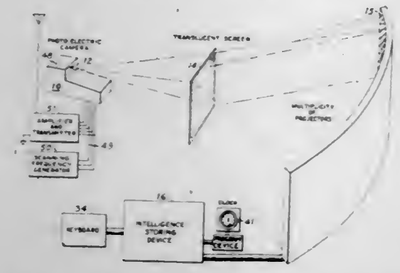
1. The method of removing weakly acidic substances from otherwise neutral water-immiscible organic liquid which comprises contacting said liquid with an aqueous solution containing alkali metal hydroxide and the reaction product of alkali and a material selected from the group consisting of natural and synthetic shellac.

2,314,920

MULTIPLEX TELEVISION AND FACSIMILE SYSTEM

Ralph W. Bumstead, Westfield, N. J.

Application April 13, 1940, Serial No. 329,427
19 Claims. (Cl. 178—7.2)



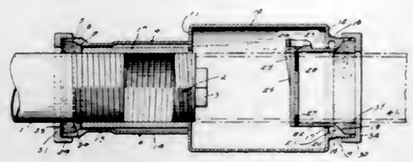
1. In a multiplex system, a plurality of independently operable devices, each for storing a distinct piece of intelligence to be transmitted, means operable by the storage means for graphically spreading a plurality of said pieces of intelligence on a field to be scanned, said field comprising a mosaic of elemental areas divisible into separate groups, each group being appropriate to one of said pieces of intelligence and each group being composed of discrete elemental areas interwoven with elemental areas of other groups, a transmitter having scanning means for transmitting multiplexed signals in accordance with the operation of said scanning means, receiving apparatus comprising a scanner operable in synchronism with the scanning means of said transmitter, means for selecting a portion of the multiplexed signals corresponding with a desired group of said elemental areas, and reproducing means at the receiver under joint control of said scanner and of said selecting means, said reproducing means being operable to graphically display the intelligence conveyed by said selected signals.

2,314,921

PRESSURE RETAINING DEVICE

Fred H. Bunnell, Lansing, Mich.

Application January 31, 1941, Serial No. 376,915
1 Claim. (Cl. 29—84)



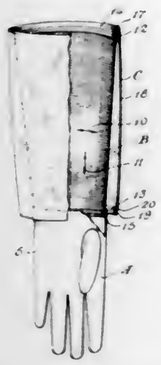
A pressure retaining and coupling device for connecting an extension pipe onto an end of a service line having a cylindrical coupling mounted thereon and a plug threaded into the coupling; said device comprising a hollow body having front and rear walls each formed with an axial opening, the opening in said rear wall being less than the outer diameter of said coupling and greater than the outer diameter of said plug whereby said rear wall is adapted to abut against the outer end of said coupling, a sleeve fixed to said rear wall and loosely engageable about said coupling, an enlarged rear end carried by said sleeve and provided with outer threads, a flanged clamping member threaded onto said rear end of said sleeve, a compressible sealing member engageable within said rear end and compressible by said clamping member about said service line rearwardly of said coupling, a tubular member extending inwardly of said front wall coaxial with said sleeve, and an outwardly closing check valve carried by the inner end of said tubular member.

2,314,922

GLOVE CONSTRUCTION

Paul A. Chanut, New York, N. Y., assignor to Aris Gloves, Inc., New York, N. Y., a corporation of New York

Application December 19, 1941, Serial No. 423,591
4 Claims. (Cl. 2—159)



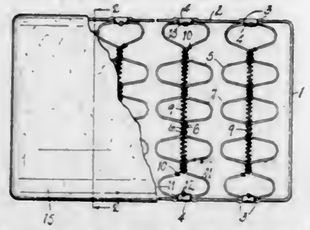
1. A glove construction comprising a hand portion and a double sleeve extending upward therefrom, said sleeve elements being attached together adjacent to the upper ends thereof and being devoid of; attachment adjacent to the lower ends thereof the inner sleeve being elastic and being attached to the hand portion.

2,314,923

SPRING STRUCTURE

William A. Clark and Vito Asaro, Detroit, Mich., assignors to L. A. Young Spring and Wire Corporation, Detroit, Mich., a corporation of Michigan

Application July 26, 1940, Serial No. 347,619
7 Claims. (Cl. 155—179)



3. In a spring structure, the combination with opposed supporting members, of a plurality of bowed spring units extending between and secured at their ends to the supporting members, said spring units each comprising strands of spring wire having longitudinally spaced oppositely disposed loops therein of substantial length extending transverse the length of the unit, and having the reaches between the loops disposed lengthwise of the unit in side by side contacting relation, and a helical tie member threaded upon said reaches with a plurality of coils thereof embracing each corresponding pair of reaches to maintain the same in said relation and prevent lateral springing of the strands under compression, said reaches being longitudinally compressed as a unit under load, the ends of the tie members being secured to the end loops of the unit and the end loops terminating in arms which are secured to the supporting members under stress transverse the length of the unit.

2,314,924

FLAT KNIT GOODS AND YARN THEREFOR

Isaac P. Davis, Swarthmore, and Edgar S. Kennedy, Wayne, Pa., assignors to American Viscose Corporation, Wilmington, Del., a corporation of Delaware

No Drawing. Application October 18, 1940, Serial No. 361,728
5 Claims. (Cl. 57—140)

1. A low denier, high strength regenerated cellulose yarn comprising a multifilament single of from approximately 10 to 75 denier having a twist in inverse proportion to the denier of from approximately 60 to 25 turns per inch respectively, said filaments having a tensile strength when wet of at least from 1.5 to 4.5 grams per denier and an extensibility when dry of from 16% to 23%.

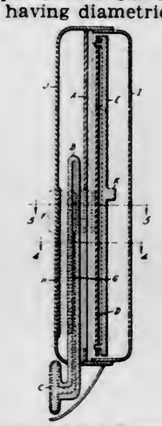
2,314,925

PORTABLE THERMOGRAPH

Miguel Becerro de Bengoa, Montevideo, Uruguay

Application October 24, 1939, Serial No. 301,001
2 Claims. (Cl. 73—368)

1. A portable thermograph comprising a protective casing consisting of a plurality of removably interconnected supporting parts, a light sensitive disc dial within said casing, means carried by one of said supporting parts and connected with said disc dial for rotating the same in clockwise fashion, a source of light rays directed toward said disc dial and carried within said casing by another one of said supporting parts, a diaphragm situated within said casing and having a slot located in the path of said light rays, and a thermometer having an opaque column situated within the path of said light rays, an opaque sheath surrounding the thermometer and having diametrically disposed slits



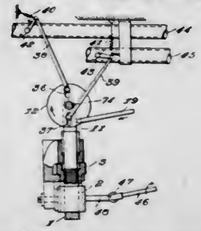
alined in the path of the light rays, whereby the opaque column will obstruct said light below the meniscus thereof from reaching the disc dial while the light rays above the meniscus reach the disc dial to indicate the position of the opaque column.

2,314,926

FUEL FEEDING DEVICE FOR INTERNAL COMBUSTION ENGINES

Rudolf Egli, Zurich, Switzerland

Application February 12, 1940, Serial No. 318,653
2 Claims. (Cl. 137—144)



1. A fuel feeding device for internal combustion engines comprising a plurality of fuel feeding pipes each having a valve for controlling the flow of fuel therethrough, means for simultaneously actuating said valves, said means comprising a rotatable member and rods each eccentrically connected at one end thereof to said member, each rod being connected to a valve at its other end, means for rotating said member, a slidable rod mounting said member, and means for moving said slidable rod to adjust the distance of the axis of rotation of said member from said valves.

2,314,927

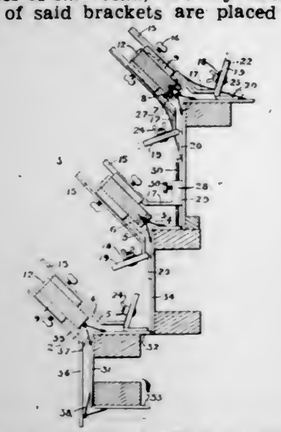
BEAD SETTER

James T. Farrington, Tampa, Fla.

Application January 4, 1940, Serial No. 312,359
8 Claims. (Cl. 72—128)

1. A device for setting corner beads comprising a body having a plane face, means to grip a bead against said face in a straight line, brackets on said body each having a portion projecting beyond said face, the outer surfaces of the projecting portions lying in planes tangent to the

outer sides of said bead, whereby when the outer surfaces of said brackets are placed in contact



with grounds, the bead will be positioned with its outer surfaces in line with the surfaces of the grounds.

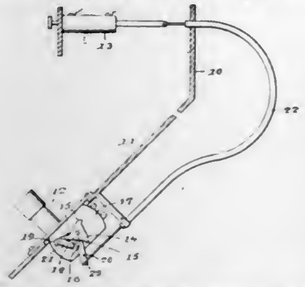
2,314,928
PROMOTING RESTORATION OF TRANSPLANTED PLANTS
Albert C. Fischer, Chicago, Ill.
No Drawing. Application June 19, 1940, Serial No. 341,381
2 Claims. (Cl. 47—58)

1. In the art of protecting a plant during transplantation, the improvement which comprises coating at least the root system of the plant with a solution of a hygroscopic material, the consistency of which is sufficiently light to insure envelopment and intimate contact with the rootlets of said system and thereby establishing a moisture bearing coating upon said rootlets and increasing the thickness and moisture bearing capacity of said coating by an additional application thereto of a second coating of moisture carrying material in solution, the first coating of moisture bearing material being applied as a thin watery solution and the second coating being applied in the form of a solution of greater viscosity.

2,314,929
METHOD OF PRODUCING HIGHER ALKYL AROMATIC SULPHONATES
Lawrence H. Flett, Hamburg, N. Y., assignor to Allied Chemical & Dye Corporation, a corporation of New York
No Drawing. Application November 20, 1940, Serial No. 366,384
11 Claims. (Cl. 260—505)

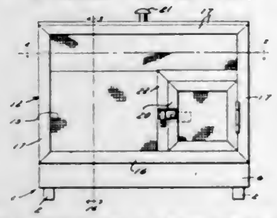
1. In the method of producing higher alkyl aromatic sulphonates from non-aromatic hydrocarbons and aromatic compounds of the class consisting of hydrocarbons, monochlor hydrocarbons, and alkoxy-substituted hydrocarbons of the benzene and naphthalene series, by halogenation of the non-aromatic hydrocarbons, condensation of the alkyl halides with the aromatic compound with the aid of aluminum chloride as a condensation catalyst, followed by sulphonation, the improvement which comprises halogenating the non-aromatic hydrocarbons to an extent such that the resulting halogenation reaction mixture contains an amount of organically combined halogen substantially corresponding with 75 per cent to 175 per cent complete monohalogenation of the non-aromatic hydrocarbons, condensing the resulting alkyl halide mixture with the aromatic compound and an amount of aluminum chloride equal to less than 5 per cent of the alkyl halide mixture at a temperature not exceeding 130° C., subjecting the resulting alkyl aromatic compounds to further treatment at a temperature not exceeding 130° C. with an additional amount of aluminum chloride, the total amount of aluminum chloride being 5 to 20 per cent of the alkyl halide mixture, and separating the resulting alkyl aromatic compounds from the reaction product.

2,314,930
HEADLIGHT DIMMER SWITCH
Le Roy F. Furney, Pueblo, Colo.
Application February 10, 1942, Serial No. 430,271
3 Claims. (Cl. 171—97)



3. The combination with a main and an auxiliary circuit, a main switch for opening and closing either one of the said circuits, a second switch in the main and auxiliary circuits between the main switch and the point of consumption, said second switch comprising a three point contact member, means for operating said member, a ratchet for operating said second switch, a lever carrying a pawl for engaging the ratchet and operating the same to connect the circuit to one or the other of the contacts, and a "Bowden" wire connecting the lever to the main switch for actuating the lever when the switch is opened or closed, whereby the second switch closes the auxiliary circuit regardless of the position of the main circuit.

2,314,931
FLYTRAP
Richard Floyd, Mount Vernon, Ind.
Application October 13, 1942, Serial No. 461,867
1 Claim. (Cl. 43—107)



A fly trap comprising a base structure including a pair of inverted V-shaped side frames, braces extending between the lower portions of the legs of said frames, substantially triangular screens mounted on the inner sides of the frames and the braces, flat bars extending between the lower portions of the frames, bars of substantially triangular cross-section extending between the

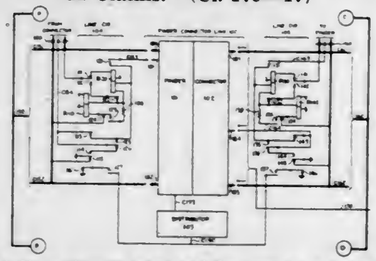
frames immediately above the first-named bars, a screen of inverted V-shaped cross-section mounted on the frames and having certain of its marginal portions secured to the inner sides of the first and second-named bars, the second-named screen having spaced entrance openings in its peak portion, and a foraminous cage mounted on the base structure, said cage including corner posts rising from the side frames, top members mounted horizontally on said posts, side screens secured to the posts, to the outer sides of the side frames and to certain of the top members, and a screen secured to the top members, the posts and to the outer sides of the second-named bars, the last-named screen constituting the front, back and top of the cage.

2,314,932
HAIR WAVING PAD
Eugene A. Gossaux, Edwardsville, Ill., assignor of one-half to Otto G. Klein, St. Louis, Mo.
Application May 1, 1942, Serial No. 441,265
8 Claims. (Cl. 132—36.2)



1. A hair waving pad comprising a sheet of absorbent, bendable wood.

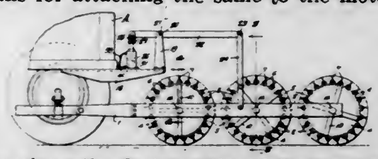
2,314,933
TELEPHONE LINE CIRCUIT
Morris E. Griffins, Riverside, Ill., assignor to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application October 5, 1940, Serial No. 359,827
11 Claims. (Cl. 179—17)



1. A line circuit adapted for use in a telephone system including a line accessible to automatic switching apparatus; said line circuit comprising a line relay, a cutoff relay, means responsive to the presence of a call on said line for causing operation of said line relay, means responsive to the seizure of said line when a call is thereon by said switching apparatus for retaining operated said line relay and for causing operation of said cutoff relay, means responsive to the release of said line by said switching apparatus for causing restoration of said line relay, means for retaining operated said cutoff relay subsequent to the release of said switching apparatus in the event a call remains on said line, and control circuits for said switching apparatus governed by said line relay and said cutoff relay.

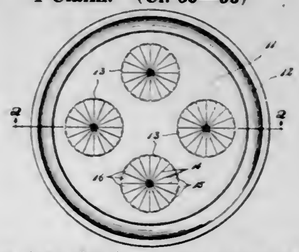
2,314,934
HIGHWAY MAINTAINING DEVICE
Earle J. Guernsey, Parker, S. Dak.
Application September 19, 1941, Serial No. 411,585
2 Claims. (Cl. 94—44)

1. A device of the character described, comprising an elongated rectangular frame, cylindrical drums mounted for rotation in said frame, blades carried by the outer periphery of the drums, a U-shaped frame secured to the rear end of the elongated frame and provided with openings for pivotally connecting the same to the chassis of a motor vehicle, a rectangular frame having rearwardly extending arms provided with means for attaching the same to the motor ve-



hicle above the first mentioned frame, upwardly extending brackets carried by the forward end of the frame, a lever intermediately pivoted between said brackets, means carried by the second mentioned frame and connected to the inner end of the lever for raising and lowering the same, and a link pivotally connected to the outer end of the intermediately pivoted lever and comprising arms adapted to be pivotally connected to the side bars of the first mentioned frame.

2,314,935
SERVING TRAY
Robert P. Gutterman, Brookline, Mass.
Application August 6, 1940, Serial No. 351,574
1 Claim. (Cl. 65—53)



A serving tray for ice cream cones and other foods or beverages, comprising a paperboard plate having an upstanding peripheral rim and a plurality of deformable, circular areas each including a plurality of radial slits extending from the center thereof and partially slit chords between the outer ends of said slits at the circumference of the circular area, said chords constituting resistant hinges and said slits and chords defining triangular fingers normally disposed in the plane of the plate bottom and completely filling the circular area to support articles placed thereon and prevent leakage therethrough, the fingers bending downwardly on said hinges when the tip of an ice cream cone is inserted at the center of said area, and the hinges and fingers closely hugging the exterior of the inserted cone, thereby holding it in upright position and preventing melted ice cream from dripping through the plate bottom at said area.

2,314,936
PROCESS FOR EXTRACTING AND CONCENTRATING SULPHUR DIOXIDE
Léon Jean Baptiste Guyard, Paris, France; vested in the Alien Property Custodian
No Drawing. Application December 4, 1940, Serial No. 368,537. In France October 16, 1939
6 Claims. (Cl. 23—178)

3. The process for extracting and concentrating sulphur dioxide from a gas containing the

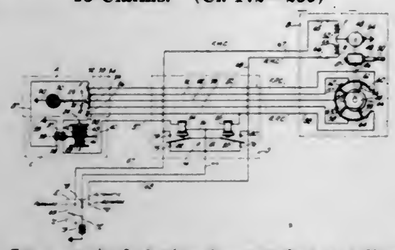
same which comprises contacting said gas with an aqueous solution of basic glucinum sulphate at substantially normal atmospheric temperature, wherein the basicity of the solution, determined by the excess of glucinum oxide present, over that occurring in the normal sulphate, to the total glucinum oxide content, is substantially in excess of approximately 50%, heating said solution to regenerate sulphur dioxide therefrom, cooling the resulting liquor and recycling the same.

2,314,937

CONTROL DEVICE FOR OIL COOLERS

Andrew L. Hannon, Los Angeles, Calif., assignor to The Garrett Corporation, Airesearch Manufacturing Company Division, Inglewood, Calif., a corporation of California

Application February 14, 1942, Serial No. 430,949
13 Claims. (Cl. 172—239)



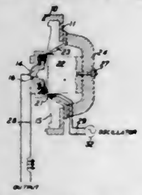
1. In a control device for causing a following member to move in accordance with the movement of a leading member: motor means connected to said following member so as to drive the same; a series switch device having a plurality of switch elements normally connected in series and a switch actuator moving in accordance with the movement of said following member, said switch actuator having means operating to progressively disconnect each of said switch elements from the one adjacent thereto as said actuator is moved from one end of its range of movement to the other; a source of electric current; a leading switch having a plurality of contacts, each separately connected to one of said switch elements, and a movable switch member moving in accordance with the movement of said leading member so as to progressively connect said contacts to one pole of said source of electric current as said leading member moves from one extremity of its range of movement to the other; and means for controlling the operation of said motor means comprising an electro-responsive member connected to one of said switch elements of said series switch device and to the other pole of said source of electric current.

2,314,938

SIGNAL TRANSLATING DEVICE

James R. Haynes, Nyack, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application February 15, 1941, Serial No. 379,104
4 Claims. (Cl. 179—122)



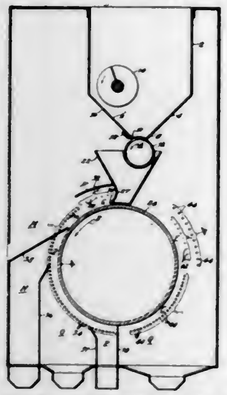
3. A telephone transmitter comprising a diaphragm, means including a pair of electrodes defining a chamber, comminuted resistance varying material in said chamber, one of said electrodes being coupled to said diaphragm and vibratile therewith, and means for varying the resistance of said material at a frequency higher than the highest sound frequency said transmitter is intended to translate and at a constant amplitude greater than the maximum amplitude of vibration of said diaphragm in response to sound waves to be translated impinging thereon.

2,314,939

ELECTROSTATIC ORE-CONCENTRATOR

George W. Hewitt, Pittsburgh, and Gaylord W. Penney, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application October 30, 1940, Serial No. 363,443
12 Claims. (Cl. 209—127)



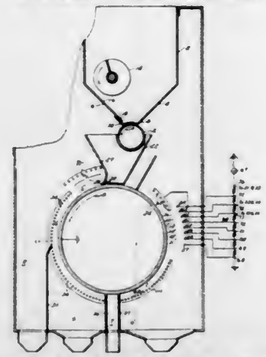
1. The method of selectively separating a mixture of particles of different electrical properties, which comprises feeding a thin layer of the mixture of particles on the upper part of a conducting endless surface moving in an extended, substantially curved, path about a substantially horizontal axis, substantially immediately thereafter subjecting the particles moving on and with said surface to a generally unidirectional ionized electrostatic field, which has a considerable circumferential extent along said upper part of said surface, and which is substantially uniformly stressed and substantially uniformly ionized throughout its circumferential extent, said ionized electrostatic field terminating on said upper part of said surface a considerable distance before said curved path becomes vertical, and substantially immediately thereafter subjecting the particles moving on and with said surface to a generally unidirectional, substantially non-ionized, electrostatic field, which also has a considerable circumferential extent along said upper part of said surface, and which is substantially uniformly stressed throughout its circumferential extent, said substantially non-ionized electrostatic field continuing on the under side of the curved path to a point materially beyond the point where said curved path becomes substantially vertical, whereby gravity may act on said particles for causing the particles having charges which leak off rapidly by conduction to said surface to fall away from said surface, and then removing particles still remaining on said surface before they return to the feeding point.

2,314,940

ELECTROSTATIC ORE-CONCENTRATION

George W. Hewitt, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application October 30, 1940, Serial No. 363,444
12 Claims. (Cl. 209—127)



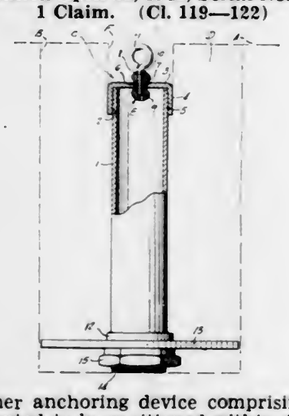
1. The method of beneficiating a finely-divided ore having a mixture of metal-bearing particles and gangue particles of relatively high resistivity, which comprises feeding a thin layer of the mixture of particles on the upper part of a conducting endless surface moving in a curved path about a substantially horizontal axis, substantially immediately thereafter subjecting the particles moving with said surface to a generally unidirectional electrostatic field having an initial extended ionized portion of an extent sufficent to charge the particles, and a subsequent non-ionized portion of an extent greater than that sufficient to permit metal-bearing particles to appreciably decrease their charge by conduction to said surface, and then subjecting the particles still moving with said surface to an ionized field tending to reduce the charge on these particles.

2,314,941

ANIMAL EXERCISING ANCHORAGE

William L. Hayden, Bryn Mawr, Pa.

Application April 21, 1941, Serial No. 389,546
1 Claim. (Cl. 119—122)



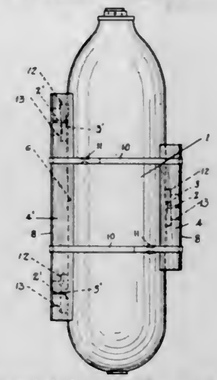
A tether anchoring device comprising an anchor adapted to be positioned within an opening of a corresponding shape to the anchor so that the top of the anchor is below the outer edge of the opening, an aperture in the top of the anchor having a convex wall, a plug positioned in the aperture, said plug having a concave groove at substantially the mid-portion thereof corresponding in curvature to and loosely receiving the wall of the aperture, and an eye secured in the plug, said eye being within and substantially entirely below the outer edge of the opening and adapted to be secured to a tether, the plug and aperture being so constructed and arranged whereby pull on a tether in any direction above the surface of the top edge of the opening will cause tilting of the plug and eye to prevent entangling of the tether with any part of the eye or anchor structure.

2,314,942

BOMB LUG PROTECTOR

Alfred W. Hinchcliff, Strongsville, Ohio, assignor of one-half to Albert R. Kumer, Pittsburgh, Pa.

Application March 7, 1942, Serial No. 433,797
2 Claims. (Cl. 102—1)



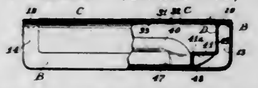
1. In an aerial bomb, the combination of a cylindrical bomb body, a suspension lug projecting from said body, a wooden protecting block for said bomb body and said lug, said block having a concave longitudinal groove on one side adapted to fit against the cylindrical surface of said bomb body, having a flat surface on its opposite side, and an opening extending through said block of greater cross sectional area than that of said lug and adapted to overlie and surround the latter, said block being of greater thickness than the projecting extent of said lug, and retaining straps surrounding said block and said bomb body for clamping said block to said bomb body.

2,314,943

DISPLAY CONTAINER

Gustav Jensen, New York, N. Y., assignor to Bulova Watch Company, Incorporated, New York, N. Y., a corporation of New York

Application October 8, 1941, Serial No. 414,048
6 Claims. (Cl. 206—75)



1. In a display container: a frame to define the base member, said frame comprising two longitudinally extending members of a length and spaced apart a distance to define the length and width of the container, and U-shaped portions extending upwardly from and connecting the corresponding ends of said members, the connecting webs of the U-shaped portions being positioned at an elevation to define the thickness of the container, and a cover member of U-

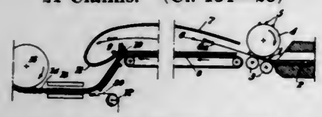
shape conforming in shape to that of the said U-shaped portions and of a length corresponding to the distance therebetween, said cover being hinged along one of its longitudinal edges adjacent to the upper edge of one of the frame members, whereby the cover will be received between the vertical legs and the connecting webs of the U-shaped portions of the frame to complete the assembly of the base frame and the cover.

2,314,944

METHOD OF AND APPARATUS FOR PRODUCING FILAMENTS OR THE LIKE OF GLASS AND STRUCTURES THEREOF

Armand Lamesch, Herzogenrath, near Aachen, Germany; vested in the Alien Property Custodian

Application September 23, 1937, Serial No. 165,371
In Germany October 1, 1936
21 Claims. (Cl. 154—28)



6. A method of producing a mat of threads from material having the consistency of molten glass, which consists in extracting individual drops or particles from a mass of the material, throwing the particles away from the mass, in substantially parallel directions, while still connected by threads to the mass and thereby drawing a plurality of substantially parallel threads, and cutting off the particles and dropping the threads in substantially parallel relation upon a support.

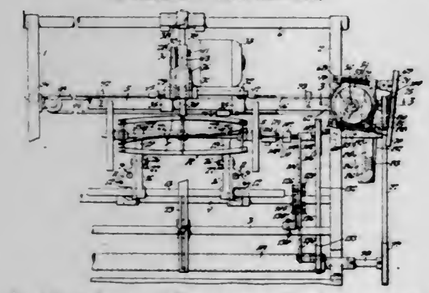
10. Apparatus for forming threads comprising means affording a supply of molten glass, a plurality of prongs, means to move the prongs into and away from the molten glass in parallel lines and to change the direction of motion of the prongs after leaving the glass, the shape of the prongs and their driving means being coordinated so that each prong separates a particle of glass from the supply and throws it away while the particle is still connected to the supply by a thread.

2,314,945

MACHINE FOR SHARPENING LAWN MOWERS

Joel P. Maynard, Pawtucket, and George A. Matteson, Jr., Saunderstown, R. I., assignors to The Graham Mfg. Co., Inc., a corporation of Rhode Island

Application June 1, 1940, Serial No. 338,348
1 Claim. (Cl. 51—48)



In a machine of the type indicated, means for mounting a lawn-mower reel having a shaft, a drive shaft for rotating the lawn-mower reel, a dog having complementary jaws adapted to be clamped at one end to one of the shafts, a clamping bolt extending through the jaws, a threaded shank extending longitudinally of the jaws, a plug screwed onto the threaded shank and having pairs of stepped shoulders for engagement between the jaws at their ends, said plug being movable axially of the jaws by turning it on the threaded shank of the adjusting bolt to position one pair of shoulders between the jaws to adjust them to a diameter corresponding to the diameter of the shaft to which the dog is clamped, said dog having arms extending radially from the jaws, and a yoke-shaped driving head detachably mounted on the opposite shaft having arms extending parallel to the axis of the shaft and interengaging with the radial arms on the dog for operatively connecting the two shafts.

2,314,946

PREPARATION OF OXY-TETRONIC ACIDS

Fritz Micheel and Hans Haarhoff, Munster, Germany, assignors to Boehringer Corporation, New York, N. Y., a corporation of New York

No Drawing. Application July 31, 1940, Serial No. 348,830. In Germany August 2, 1939
5 Claims. (Cl. 260—344)

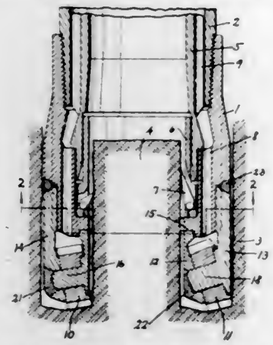
1. Process of preparing homologues of oxy-tetronic acid consisting in condensing alcohol esters of acylated glycolic acid, said alcohols containing more than two carbon atoms in the molecule, and being taken from the group consisting of the aliphatic, aliphatic-aromatic and aromatic series, with esters of aliphatic oxy-acids other than glycolic acid and which contain at least one hydroxy group in α-position and the hydroxy groups of which are acylated to prevent ester condensation thereof during the reaction, said oxy-acids containing no interfering other reactive groups, or radicals, the condensation being carried out by employing alkali metal and absolute alcohol, the reaction mixture being then acidified and the solution containing the desired compound worked up by evaporation of the liquid.

2,314,947

CORE BIT

Wiley B. Noble and John E. Hoffoss, Houston, Tex., assignors to Reed Roller Bit Company, Houston, Tex., a corporation of Texas

Application November 23, 1940, Serial No. 366,821
5 Claims. (Cl. 255—72)



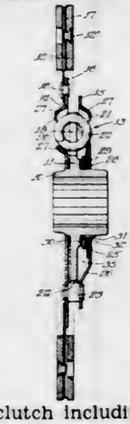
1. A core bit comprising a core barrel, a tubular bit head threadedly mounted on the lower end of said barrel, said bit head having portions on the inner and outer surfaces thereof at its lower end cut away to provide annular shoulders on said surfaces, a plurality of axially extending slush passageways in the bit head intermediate said inner and outer surfaces having discharge openings at the lower end of the bit head, an annular cutter assembly having spaced upwardly extending inner and outer annular members seated on said inner and outer shoulders respectively with said outer annular member detachably connected to said bit head by a weld, and roller cutters mounted between said inner and outer annular members and adapted to be positioned beneath the slush passageway discharge openings at the lower end of the bit head.

2,314,948

TORSIONAL VIBRATION DAMPENER

Harold Nutt, Chicago, Ill., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois

Application April 10, 1941, Serial No. 387,801
10 Claims. (Cl. 192—68)



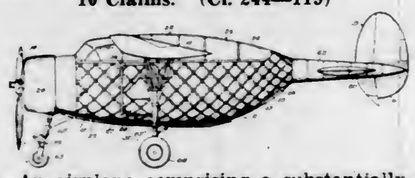
1. A friction clutch including a hub having a radial flange, a facing supporting disc associated with one side of said flange, a spring housing plate on the other side of said flange, said disc, plate and flange being provided with registering openings, springs seated in said openings and forming collectively a sectional cushion between the hub and said disc, a braking ring interposed between said plate and flange, and a washer spring serving to develop braking action between said braking ring and flange, said braking ring and washer spring being coaxial with and accommodated in the space radially inwardly of said springs.

2,314,949

AIRPLANE

Richard W. Palmer, Whittier, Calif., assignor to Vultee Aircraft, Inc., Downey, Calif., a corporation of Delaware

Application July 12, 1940, Serial No. 345,107
10 Claims. (Cl. 244—119)



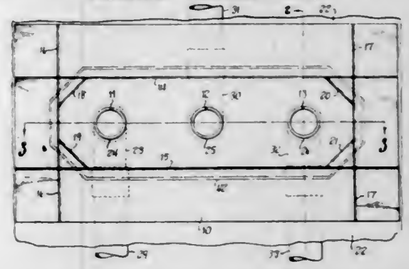
1. An airplane comprising a substantially ellipsoidal fuselage extending fore and aft and having the rear end thereof of pronouncedly dome-shaped contour, and a rigid extremely thin empennage supporting tailboom fixed to, and extending rearwardly from, the apex portion of said rear end of the fuselage.

2,314,950

PLUMBING FIXTURE

Elton A. Pope, Waterbury, Conn., assignor to Chase Brass & Copper Co. Incorporated, Waterbury, Conn., a corporation

Application January 9, 1941, Serial No. 373,771
1 Claim. (Cl. 113—111)



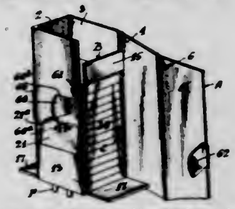
A one-piece combined plumbing template and flame-guard of plate-like form designed and adapted to be mounted against a wall structure of a building to hold a plurality of solderable pipe-terminals in definite predetermined spaced relationship, the said combined template and flame-guard being provided with a plurality of apertures to each receive and hold a solderable pipe-terminal, the said plate-like combined template and flame-guard being formed of friable non-metallic material sufficiently inelastic to definitely space the said pipe-terminals and combining flame-resisting and heat-insulating properties, the said template and flame-guard being provided with a plurality of lines of relative weakness spaced inwardly from the edge of the template to divide parts thereof from other parts and extending around the plurality of apertures therein to permit parts of the template to be broken off without damage to the remainder of the template; whereby the said combined template and flame-guard may be reduced in size to fit within an escutcheon after having discharged its function of acting as a flame-guard during the soldering of the pipe-terminals to a plumbing fixture.

2,314,951

CARTON

William A. Ringler, Wayne, Pa., assignor to National Folding Box Company, New Haven, Conn., a corporation of New Jersey

Original application June 24, 1936, Serial No. 86,917. Divided and this application July 1, 1939, Serial No. 282,479
11 Claims. (Cl. 229—6)



11. A container for radio tubes including, an outer tubular sleeve formed from a single blank of paperboard material comprising four enclosing side wall panels hingedly connected to-

gether along parallel extending corner fold lines presenting a sleeve of generally square cross-section, said side wall panels having free ends and presenting square inside corner faces, an inner tube-supporting and enclosing member formed from a single blank of paperboard material shaped to snugly telescope within said outer sleeve, said inner member including two spaced tube-supporting platforms having a generally square contour, one of said platforms having a centrally disposed aperture therein through which the prong portions of the tube may extend and the other of said platforms having a centrally disposed aperture therein for centering the adjacent end of the tube within said inner member, a rectangular side wall section hingedly connected to said spaced platforms along one side of said inner member and presenting substantially parallel side edges arranged to snugly and frictionally seat against the inside corner faces of said side wall panels, a side wall flap hingedly connected to each of said platforms opposite said side wall section first named, said side wall flaps having hook portions whereby said flaps may be separately connected to form a side wall section presenting substantially parallel extending side edges corresponding in length and width to the side wall section first named, said second side wall section formed by said connected flaps having the side edges thereof arranged to snugly and frictionally seat against the adjacent inside corner faces of said side wall panels, and a pair of outturned guide flaps having square cut vertical edges hingedly connected to the other opposite side edges of each of said platforms providing end supports for said inner sleeve, the square cut edges of said guide flaps forming a substantially straightline continuation of the adjacent side edges of said side wall sections when said inner member is positioned within said outer member, the combined length of each side wall section and the outturned guide flaps at each end thereof being approximately the length of the adjacent free end side wall panel of the outer sleeve, said inner member being so dimensioned that when positioned within the outer sleeve the outside faces of said outturned flaps will snugly seat against the inside faces of the adjacent side wall panel and the side edges of said side wall sections and guide flaps will frictionally engage the adjacent corner faces formed by said side wall panels so that the inner member is frictionally retained in said outer sleeve.

2,314,952

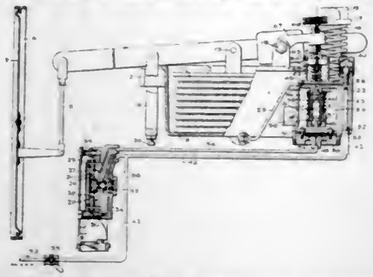
REGULATING APPARATUS

Otto Scharpf, Milwaukee, Wis., assignor to Johnson Service Company, Milwaukee, Wis., a corporation of Wisconsin

Original application August 30, 1939, Serial No. 292,739. Divided and this application October 6, 1941, Serial No. 413,890

4 Claims. (Cl. 236—82)

1. In combination a damper for controlling the flow of air; a pressure motor for operating said damper; a source of fluid pressure for actuating said motor to operate said damper; means responsive to variations in an atmospheric condition for establishing a secondary fluid pressure which varies as said condition varies; means forming a pressure fluid supply port and a pressure fluid discharge port, one of said ports having a fixed flow capacity; a leak valve movable toward and away from the other of said ports for controlling the pressure in said motor; movable abutment means for controlling said leak valve in response to variations of said secondary fluid pressure; means for biasing said leak valve in a direction to cause opening of said damper irrespective of the value of said secondary pressure; and lost motion spring means associated



with said motor and operated by movement thereof to load said leak valve through a portion only of the range of motion of said motor, such loading being in a direction to cause closing of said damper.

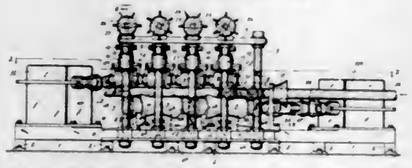
2,314,953

MULTICYCLE STRAIGHTENING, SIZING, AND POLISHING MACHINE

Walter Siegerist, St. Louis, Mo.

Application June 28, 1940, Serial No. 342,905

2 Claims. (Cl. 153—60)



1. A multiroll, multicycle rotary straightening machine comprising an input pair and an output pair of opposed rotary feed rolls having concave, hyperboloidal surfaces having substantially straight line contact with the workpiece, the axes of the rolls forming each of the opposed pairs lying on opposite sides of the work path and being transverse to one another, said output pair of feed rolls having their axes substantially parallel with those of said input feed rolls, respectively, a freely rotatable bending roll disposed between said pairs of feed rolls, a second or outboard bending roll on the leaving side of said output pair of feed rolls, said bending rolls being concave and substantially parallel to the feed rolls on the corresponding side and being arranged with their contact with the work closer to the center line of work travel than the corresponding contact of the corresponding roll of each pair of feed rolls, the input pair of feed rolls, the first bending roll, the output pair of feed rolls and the second bending roll being consecutive in the order named, and means for driving each of said feed rolls in synchronism in the direction to advance the workpiece along the line of work travel and to rotate the workpiece in one direction.

2,314,954

CAR CONSTRUCTON

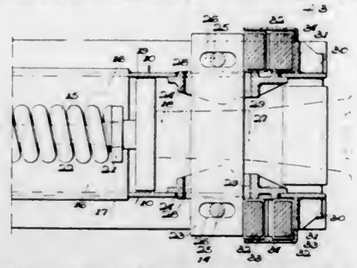
Sigvard Simonson, Butler, Pa., assignor to O. C. Duryea Corporation, Wilmington, Del., a corporation of Delaware

Application September 22, 1941, Serial No. 411,925

12 Claims. (Cl. 213—8)

1. In a railway car, a draft and buffing column

movable longitudinally relative to the car body and comprising spaced parallel members, a coupler extending inwardly between said members, means connecting said coupler with said column for inward and outward movement of limited extent relative thereto and including a key ex-



tending through said members, means for cushioning said relative inward movement of said coupler, and resilient means disposed on the outer side of each member and interposed between it and the adjacent end of said key for cushioning said relative outward movement of said coupler.

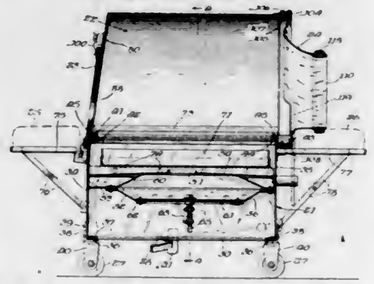
2,314,955

RESPIRATOR

Robert L. Slater, Chicago, Ill.

Application July 2, 1941, Serial No. 400,727

13 Claims. (Cl. 128—30)



10. In a respirator, in combination, a base structure including spaced side walls, a front wall and a rear wall, a cover having a hinged connection with said base structure to form a respirator chamber with the open upper end thereof, a container located within the base structure and supported by the walls thereof, said container positioning within the base structure supporting means for the patient and which is located so that the upper surface thereof is on a plane approximately coinciding with the separation between the cover and base structure, a bellows assembly within the base structure below the container and in supported relation with the walls thereof, said assembly including a stationary top wall and a movable bottom wall, and said stationary top wall having an opening therein communicating with the respirator chamber.

2,314,956

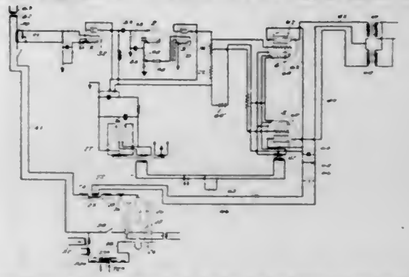
ELECTRIC FURNACE

Games Slayter, Flavius W. Atkinson, Ed Fletcher, and Harry V. Smith, Newark, Ohio, assignors to Owens-Corning Fiberglas Corporation, Toledo, Ohio, a corporation of Delaware

Application April 5, 1941, Serial No. 387,052

3 Claims. (Cl. 13—6)

1. A glass heating and melting electric circuit including a body of molten glass therein, means for impressing on the circuit a periodic electromotive force and causing an electric current to pass through said glass, stabilizing means for maintaining the current flow in said circuit at substantially constant amperage, said stabilizing means including an iron core reactor in said circuit, an electrical control system including a current transformer arranged to be energized by the current in said circuit, a direct current winding on the core of said reactor, a vacuum tube amplifier connected to receive its input from the



transformer, a vacuum tube rectifier connected to receive the current output from the said amplifier, means for amplifying the current output from said rectifier, means for increasing and decreasing said amplified output in response to increases and decreases in the current flow of the load circuit, and means for supplying current through said direct current winding variable directly with and in response to variations in said amplified output, and thereby varying the reactance in said reactor in response to variations in the amperage of said load circuit.

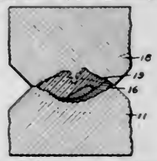
2,314,957

METHOD OF MAKING ARTIFICIAL TEETH

Henry M. Thornton and Charles Dietz, York, Pa., assignors to The Dentists' Supply Company of New York, New York, N. Y., a corporation of New York

Application April 15, 1941, Serial No. 388,664

8 Claims. (Cl. 18—55.1)



1. The method of forming artificial teeth having markings simulating the markings of natural teeth, which comprises moulding a facing of material adapted to become relatively translucent, and concurrently moulding a design in relief at the lingual side of the facing to thicken an area of the facing, biscuiting the moulded facing and design, moulding the body portion of a material adapted to become relatively opaque to the facing, and then hardening same whereby the thickened area of the facing will be visible labially as a design of contrasting color.

2,314,958

HIGH FREQUENCY AMPLIFIER CIRCUIT

Aldert van der Ziel and Kornelis Swier Knol, Eindhoven, Netherlands; vested in the Alien Property Custodian

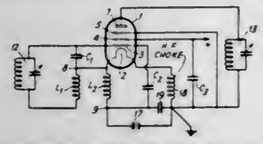
Application January 18, 1941, Serial No. 374,960

In the Netherlands March 21, 1940

7 Claims. (Cl. 179—171)

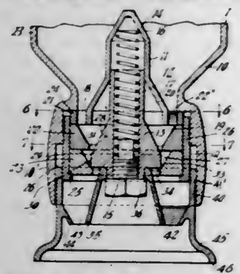
5. A circuit for the amplification of high fre-

quencies, comprising an electron discharge tube provided with at least a directly heated filamentary cathode, a signal input grid, a screen grid and an anode, the cathode having two terminals with a pair of leads connected to one and a third lead connected to the other of said terminals, an impedance connected to each of said pair of cathode leads, input and output circuits connected respectively to the input grid and to the anode, the grid return of the input circuit being connected to the low potential end of the impedance connected to one of the pair of cathode leads, the plate return of the output circuit being connected



to the low potential end of the impedance connected to the other of the pair of cathode leads, a condenser connected between the signal input grid and the cathode end of the impedance included in the input circuit, capacitive means connected between the signal input grid and the low potential end of the cathode impedance included in the output circuit, a high frequency choke coil connected to the third lead, a source of heating current having one terminal grounded connected between said choke coil and one of the cathode lead impedances, and means for short-circuiting said heating current source with respect to high frequencies.

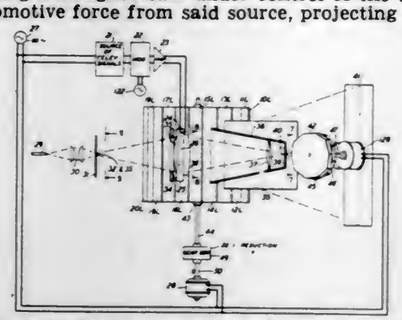
2,314,959
POWDERED SOAP DISPENSER
Clifford W. Wehe, Chicago, Ill.
Application March 19, 1941, Serial No. 384,073
10 Claims. (Cl. 221—114)



1. In a powdered soap dispenser, the combination of a container for the material, a concentrically disposed cylinder in said container having a flared skirt member having its margin spaced from the wall of the container to form an annular outlet, concentrically disposed fixed and vertically movable walls converging downwardly to form between them a receiving chamber in communication with said outlet when said movable wall is in lower position, said movable wall being disposed beneath said skirt so as not to impart raising or lowering movement to the body of material in the container, and having a plunger portion guided in said cylinder.

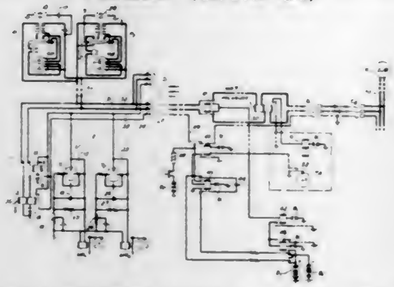
2,314,960
METHOD OF AND APPARATUS FOR PRODUCING TELEVISION IMAGES
Gerald W. Willard, Fanwood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application March 11, 1941, Serial No. 382,697
26 Claims. (Cl. 178—6)

1. The method of television image production in which an image is built up on an image screen along successive substantially parallel lines under control of an image electromotive force produced as the result of scanning elemental areas in succession along parallel lines successively of a field of view an image of which is to be produced which comprises producing a light beam, modulating said light beam under control of the electromotive force from said source, projecting said



modulated light beam upon the image screen to illuminate simultaneously all the elemental areas of a line, and deflecting said modulated light beam to interrupt the illumination of said elemental areas one at a time in succession and to simultaneously illuminate the elemental areas one at a time in succession of a succeeding scanning line in synchronism with the interruption of the illumination of the elemental areas of said first line.

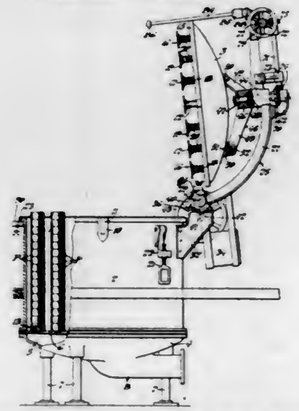
2,314,961
TELEPHONE SYSTEM
Samuel B. Williams, Brooklyn, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 28, 1940, Serial No. 358,800
7 Claims. (Cl. 179—8.5)



2. In a telephone system, a line circuit comprising a control conductor, two message registers, two three-element gas-filled tubes, one tube connecting one of the registers to said conductor and the other tube connecting the other of the registers to said conductor, and two rectifiers, one rectifier connected across the control elements of one of the tubes and poled to shunt these elements and prevent breakdown of the tube in response to the application of a breakdown potential of one polarity to said conductor, the other rectifier connected across the control elements of the other of the tubes and poled to shunt these elements and prevent breakdown of the tube in response to the application of a breakdown potential of the opposite polarity to said conductor, means for momentarily connecting a breakdown potential of either polarity to said conductor to selectively energize the one or the other of said tubes and for connecting a register

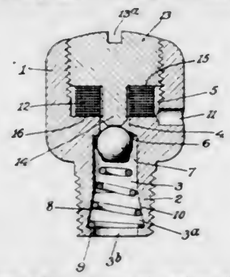
operating potential to said conductor to maintain the energization of the tube and operate the associated message register.

2,314,962
APPARATUS FOR DYEING, BLEACHING, AND LIKE TREATMENT OF TEXTILE MATERIALS
John M. Wood, Cranston, R. I., assignor to Franklin Process Company, Providence, R. I., a corporation of Rhode Island
Application August 5, 1941, Serial No. 405,510
7 Claims. (Cl. 68—189)



1. In an apparatus of the type indicated, a kier having an open top, said kier being adapted to support columns of compressible textile packages in vertical arrangement therein, a cover for compressing the textile packages in the columns and closing the open top of the kier, a support for the cover pivotally mounted for swinging movement, means comprising reduction gearing for swinging the cover-support on its pivot to move the cover bodily toward or away from the open top of the kier, and means on the cover-support for lowering the cover relative to its support to compress the textile packages in the columns in the kier.

2,314,963
AUTOMATIC AIR VENT VALVE
Edward P. Zelnis, Chicago, Ill., assignor to The Dole Valve Company, Chicago, Ill., a corporation of Illinois
Application May 28, 1940, Serial No. 337,643
2 Claims. (Cl. 137—122)



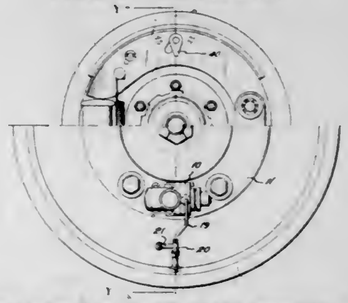
1. An automatic air vent valve for hot water radiators comprising a casing having a chamber therein, an air vent connecting said chamber with the outside atmosphere, a passageway leading from the chamber to the exterior of the casing and having an enlarged outer portion with an outwardly diverging wall, a shoulder at the end of the enlarged portion of the passageway, a valve member in said passageway, a seat for said valve member, a spring in said passageway which presses said valve member toward said seat, said spring engaging said shoulder, hygroscopic material in said chamber so arranged as to control flow through said casing, a removable closing plug in said chamber, and a valve engaging member on said closing plug which projects past the hygroscopic material and which engages said valve member to hold it from its seat during normal operation of the device so that air may escape through said casing and water be prevented from escaping therethrough.

2,314,964
METHOD OF MAKING PLAYING BALLS
Leonard A. Young, Detroit, Mich., assignor to The L. A. Young Company, Grand Rapids, Mich.
Application July 31, 1941, Serial No. 404,784
8 Claims. (Cl. 154—19)



7. In the manufacture of playing balls, the method which comprises filling a collapsible container with a fluid capable of being solidified by freezing, freezing the filled container providing a solid winding pellet, winding rubber strands under substantial tension upon the pellet to rupture the container and to provide a layer of wound strands of substantial thickness, fluidifying the frozen fluid and permitting it to escape through and from the winding and the winding to contract and collapse the container within the contracted winding.

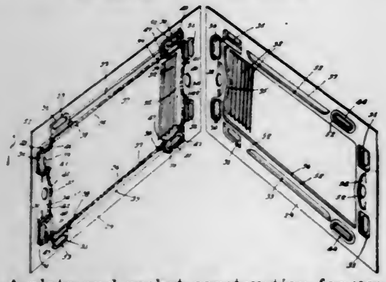
2,314,965
APPARATUS FOR SIGNALIZING THE DECREASE OF PRESSURE OF PNEUMATIC TIRES
Emilio Alava y Sautu, Vitoria, Spain
Application August 9, 1939, Serial No. 289,324
In Spain August 17, 1938
5 Claims. (Cl. 200—58)



1. Apparatus for signalling the reduction of the pressure of pneumatic tires, comprising in combination, a device controlled by the pressure of the tire, said device including a sliding stem slidable longitudinally when the pressure in the tire falls; and a maximum pressure valve, including a chamber in communication with the interior of the tire and having an aperture communicating with the exterior, means for closing the said

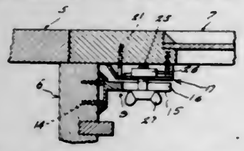
chamber and the said aperture and for opening the said aperture when the pressure in the interior of the tire exceeds a determined limit.

2,314,966
PLATE HEAT EXCHANGER
William Astle, Chicago, Ill.
Original application March 29, 1937, Serial No. 133,621. Divided and this application August 23, 1940, Serial No. 353,967
9 Claims. (Cl. 257—245)



9. A plate and gasket construction for use in a heat exchange apparatus of the juxtaposed plate type comprising a sheet metal heat exchange plate embossed to provide portions lying in offset parallel planes, a plate gasket for bounding the film flow space along a face of said plate, and a transfer port gasket bounding the liquid flow passage between a pair of film flow spaces, one face of said plate gasket lying against the obverse face of one of said offset portions, one face of said port gasket lying against the reverse face of the other offset portion, at least a portion of each gasket lying between the parallel planes bounding said offset portions, said plate being formed to provide a shoulder lying against the inner edge of said plate gasket throughout the major portion of the length of the gasket, and having its film flow space embossed to provide corrugations extending transversely of the film flow, said corrugations having their major portions lying between said planes.

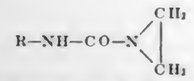
2,314,967
FASTENER FOR STORM WINDOWS AND THE LIKE
August W. Bergesch, St. Louis, Mo.
Application June 11, 1940, Serial No. 339,935
2 Claims. (Cl. 292—251)



1. In a sash fastener, a first element for attachment to the sash, a second element for attachment to the window frame side member alongside the sash, said first element comprising a base lying along the sash, said base having a major plate-like portion thereof within its side and end edges spaced parallelly outwardly from the surface of the sash, said plate-like portion being formed with a slot opening through the end of said plate-like portion remote from the window frame side member, a pair of guide rails paralleling said slot on the inner surface of said plate-like portion; said second element comprising a base lying along the said window frame side member at right angles to the first mentioned base, an arm projecting away from said window frame side member to lie spacedly along the outer surface of said plate-like portion of the first element, said arm being formed with a slot substantially coextensive with the first mentioned slot and opening through the outer end of the arm, and a clamping bolt comprising a shank passing through the slots, first and second retaining means on the opposite ends of said shank and bearing respectively on the inner surface of said plate-like portion and on the outer surface of said arm, said first retaining means comprising a body slidably and non-rotatably confined between said guide rails.

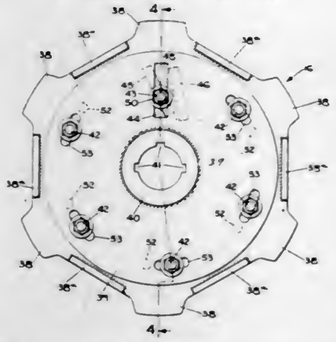
2,314,968
PROCESS OF IMPREGNATING TEXTILE MATERIALS AND THE MATERIAL THUS OBTAINED
Herbert Bestian and Georg von Finck, Frankfort-on-the-Main, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application April 27, 1940, Serial No. 332,014. In Germany May 27, 1939
8 Claims. (Cl. 117—145)

1. The process which comprises impregnating textile materials with a member of the group consisting of monomeric compounds of the general formula



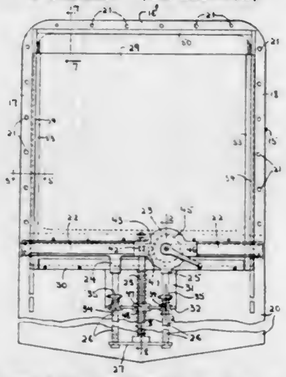
and the homologues and derivatives thereof, wherein R means a member of the group consisting of aliphatic and isocyclic radicals of at least 10 carbon atoms, and then polymerizing the monomeric compound.

2,314,969
ADJUSTABLE SPROCKET WHEEL
Robert E. Briggs, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio
Application March 12, 1941, Serial No. 382,968
6 Claims. (Cl. 74—243)



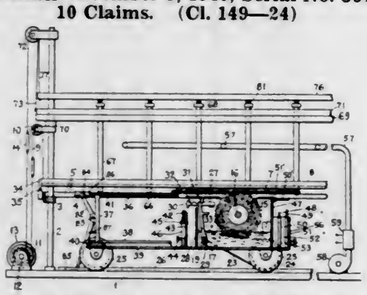
1. The combination with two rotary members, of a sprocket on one of said members, means adapting the other member to be connected to a shaft to rotate therewith, means comprising elongated slots angularly related and overlapping with clamping mechanism extending therethrough, and additional clamping mechanism between said members for securing the same together in relative adjusted positions in co-operation with said first-named clamping mechanism.

2,314,970
WINDOW AND OPERATING MEANS THEREFOR
Harold Coleman, Chicago, Ill.
Application July 5, 1941, Serial No. 401,206
6 Claims. (Cl. 189—72)



1. In a window construction, the combination of a frame defining the window opening, a closure member, a guide with which said closure member has sliding engagement for directing said closure member into position opposite to said opening when moved to the limit of its motion in one direction, link means having a pivotal bearing on said closure member at their rear end portions and a sliding pivotal bearing on said guide at their front end portions, yielding means normally holding the forward end portions of said link means at a higher level than that of the rear end portions, and means adapted by engagement therewith to limit the movement of the forward end portions of said link means so as to give the link means a swinging movement while the closure member continues to advance at about the end of the movement of the closure member into closure position to press the closure member firmly against said frame for effecting a tight closure of said opening.

2,314,971
MACHINE FOR TREATING FURS
Samuel Deutscher, Brooklyn, N. Y.
Application November 5, 1940, Serial No. 364,374
10 Claims. (Cl. 149—24)

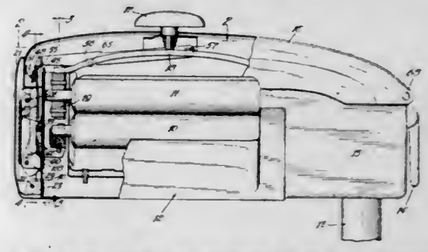


1. A fur wetting and combing machine comprising a base, means to support a piece of fur at an elevation above the base, an open tank movably supported on the base, a brush rotatively supported in the tank and adapted to press against the fur, the tank being adapted to contain a liquid for moistening the brush, means on the tank to rotate the brush, means to move the tank with the brush under the fur supporting means, means on the base to guide the tank, and a plurality of wipers adjustably supported at the brush for wiping the brush.

2,314,972
PRODUCTION OF POLYMERIC COMPOUNDS
Henry Dreyfus, London, England, assignor to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application January 30, 1940, Serial No. 316,368. In Great Britain January 25, 1939
3 Claims. (Cl. 260—78)

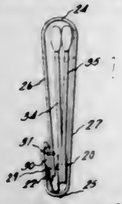
1. Process for the production of synthetic linear polymers of high molecular weight containing ether linkages in the main chain and nitrogen-containing radicles attached to the main chain, which comprises heating an organic compound which is a partially esterified amino derivative of a polyhydroxy compound and which contains two free hydroxy groups linked by a chain containing carbon atoms and a basic nitrogen-containing radicle attached to said chain, heating being effected in an oxygen-free atmosphere until a product having filament-forming properties is obtained.

2,314,973
WRINGER WITH UPSWEEP RESET HANDLE
Nicholas L. Etten, Waterloo, Iowa
Application November 27, 1939, Serial No. 306,308
10 Claims. (Cl. 68—263)



1. In a wringer comprising a pair of pressure rolls, a pressure spring, and a pair of relatively movable frame structures comprising a stationary frame and a relatively movable frame normally urged apart into spaced relationship by the pressure spring and adapted to be secured together in operating position to compress the pressure spring and apply operating pressure between the pressure rolls, the combination of cooperating latch mechanisms associated with each of said frames adjacent one end of said frames, positioning means comprising a pivotal connection between said frames at the end remote from said latch mechanisms to position said frames and latch mechanisms in predetermined spaced-apart relationship, a reset lever pivotally mounted on a fixed pivot on said stationary frame, means comprising a link and shiftable latch support interconnecting said reset lever and one of said latch mechanisms to shift said latch mechanism with respect to its associated frame, means responsive to said shifting movement to guide said latch mechanism into interlocking engagement with the cooperating latch mechanism, and spring means to cause said latch mechanisms to interlock.

2,314,974
SAFETY MATCH PACKET
David Otis Ford, Petersburg, Va.
Application June 16, 1939, Serial No. 279,477
7 Claims. (Cl. 206—29)



1. In a safety match packet, a paper strip folded transversely at two places intermediate its ends to form an upper and a lower bend, one free end of the strip overlapping the other and permanently connected to form a flat, tubular, open-end shield, the end of the outer of the overlapping ends being bent back upon itself to form a guide channel, a paper match comb fitting in the shield and having its opposite edges in close juxtaposition to its upper and lower bends, and slidable into and out of the shield in the direction parallel to said bends, said comb comprising a plurality of detachable match ends connected to a transverse strip at the base of the match ends and a strip of paper folded longitudinally to form a guide piece of V-shape in transverse section with one side secured to the transverse strip and the other side intruded into the channel and slidable therein as the comb is moved unilaterally in either direction out of or partly out of either open end of the shield and said guide piece and channel piece and channel coacting to prevent tilting of the match comb out of its permissible line of unilateral sliding movement and providing a slight degree of frictional resistance to an otherwise freedom of sliding movement between the comb and shield.

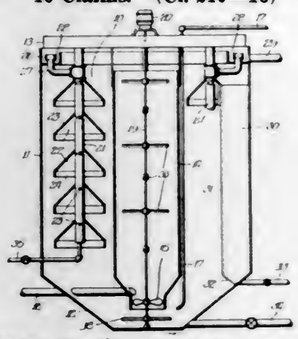
2,314,975
METHOD OF TREATING THERMOPLASTIC MATERIALS AND RESULTING PRODUCT
David Otis Ford, Petersburg, Va., assignor of one-tenth to Oliver E. Crocker, Petersburg, Va.
No Drawing. Application December 20, 1940, Serial No. 370,969
12 Claims. (Cl. 41—21)

1. In the art of treating a surface of a body of material composed primarily of plastic crylic resins, the method which consists in immersing a previously grease-cleaned portion of said surface into a hot liquid bath containing a dilute solution of isopropyl alcohol, permitting the surface to be immersed for a period of the order of eight to fifteen seconds, removing the body from the hot alcohol bath, immediately subjecting the surface while still wet with the alcohol bath, to an air blast at room temperature and continuing such air blast treatment until the surface has dried and has turned a milky or frost-like white.

2,314,976
METHOD OF IMPROVING THE ADHESION OF RUBBER TO COTTON
Ivan Gazdik and Edward T. Lessig, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application February 11, 1939, Serial No. 255,891
5 Claims. (Cl. 154—2)

1. In a process of treating cotton with a heat-hardening polyhydricphenol-aldehyde-latex adhesive, the step which comprises subjecting the cotton to the action of a mild alkaline solution prior to treatment with the adhesive.

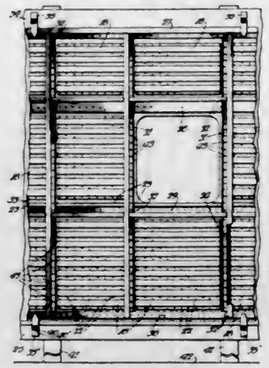
2,314,977
LIQUID PURIFICATION
Walter H. Green, Chicago, Ill., assignor to Infilco Incorporated, a corporation of Delaware
Application August 8, 1940, Serial No. 351,849
16 Claims. (Cl. 210—16)



1. A water treating apparatus comprising in combination, a basin, a reaction chamber associated with said basin, said reaction chamber having an inlet positioned to receive water from one portion of said basin and an outlet positioned to deliver water to another and relatively remote portion of said basin, means within said reaction chamber and including a mechanically driven rotatable stream projecting impeller to cause a circulation of liquid through the reaction chamber from its inlet to its outlet and through the basin from said outlet to said inlet of a volume and velocity sufficient to prevent sedimentation of solids out of the liquid in said circulation, means for delivering raw water and treating reagent within the basin and adjacent to the inlet of the reaction chamber, a plurality of treated water outlet bells located within said basin below the normal operating liquid level therein and in the path of said circulation, inlet mouths into said bells at the lower ends thereof, liquid outlet openings from the upper part of said bells, conduits leading from said outlet openings to an outlet from said basin, and a waste discharge from said basin.

2,314,978
METHOD OF MAKING RAIL CARS
Francis M. Gunn, Chicago, Ill., assignor to Pullman-Standard Car Manufacturing Company, Chicago, Ill., a corporation of Delaware
Application February 26, 1941, Serial No. 380,694
5 Claims. (Cl. 29—164)

1. The method of fabricating a vehicle wall having a frame covered by sheathing, the frame engaging substantially the entire perimeter of the sheathing, comprising forming a plurality of flat, metal sheets, then making integral with each sheet stiffeners reinforcing the major area thereof for resisting deformation of the sheets arising from the subsequent welding operations, leaving portions of the sheets free of stiffeners to accommodate framing members, then welding together the adjacent edges of the stiffened sheets while maintaining said sheets in substantially the same plane and making the welds substantially continuous throughout the lengths of the edges to form the sheathing for the wall, then removing ripples by tensioning the sheathing from the opposite ends thereof substantially uniformly throughout the extent of the sheathing and while so tensioning the sheathing welding



thereto throughout substantially the entire perimeter of the sheathing the frame applied with the framing members against the said stiffener-free areas of the sheathing.

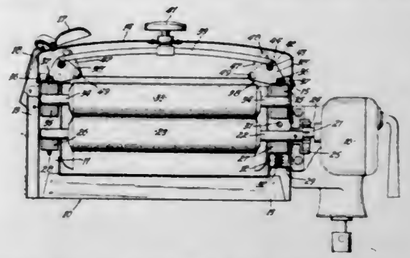
2,314,979
RAIL CAR
Francis M. Gunn, Chicago, Ill., assignor to Pullman-Standard Car Manufacturing Company, Chicago, Ill., a corporation of Delaware
Application May 9, 1941, Serial No. 392,621
23 Claims. (Cl. 105—401)



1. In a vehicle having a side frame comprising intersecting load carrying members, flat side sheathing for attachment to the frame comprising a flat integral sheet of relatively thin material extending the full length and height of the vehicle, and stiffeners secured to the inner face of the sheet in the areas between the framing members, the stiffeners stopping short of the framing members and being connected to said members only by the sheathing.

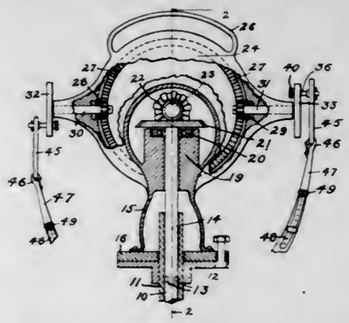
2,314,980
CONSTANT PRESSURE WRINGER
Lowell F. Hammand, Chicago, Ill., assignor to Nicholas L. Etten, Waterloo, Iowa
Application March 25, 1940, Serial No. 325,767
11 Claims. (Cl. 68—259)

5. In a wringer including a main frame, a top frame, a latch interconnecting said main and top frames, a manually operable latch release, and a reset lever, the combination of a plurality of pressure rolls including a movable roll mounted in bearings for movement in a direction lateral to the roll axis, spring means associated with said movable roll, and pressure control mechanisms operatively interconnecting said spring means and said roll; said pressure control mechanisms being characterized by means to maintain predetermined initial operating pressure between said pressure rolls when said rolls are in contact, means responsive to normal lateral displacement of said movable roll to exert undiminished pressure between said rolls, and means responsive to abnormal lateral displacement of said



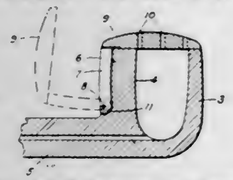
movable roll to gradually and progressively diminish the effective pressure between said rolls.

2,314,981
VIBRATOR ATTACHMENT FOR WASHING MACHINES
Edward C. Heard, Los Angeles, Calif.
Application February 14, 1940, Serial No. 318,857
2 Claims. (Cl. 128—63)



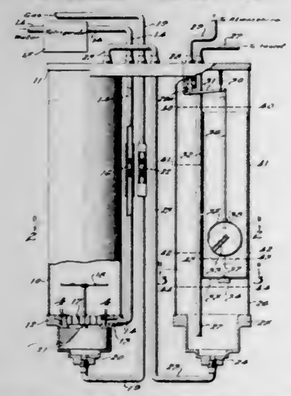
1. In a vibrator attachment for a washing machine of that type which has a removable roller wringer and a shaft with gears connecting the shaft and rollers, the shaft being divided intermediate its ends and having a lower part which remains with the machine proper when the wringer is removed and an upper part which is removable with the wringer, said shaft parts having mating clutch members at their adjacent ends, the combination of a vibrator shaft, a clutch member on the end of said shaft adapted to engage with the clutch member on the end of the lower part of the machine shaft, a frame member within which the vibrator shaft is journaled, a bevel gear attached to the upper end of the vibrator shaft, a short shaft mounted in said frame member and extended at a right angle to the vibrator shaft, a bevel pinion on the short shaft meshed with the said bevel gear, a large gear on said short shaft and rigidly connected with the bevel pinion, a pair of shafts diametrically arranged on opposite sides of said large gear, each shaft of the pair having a pinion attached thereto and meshed with the said large gear, the ratios of said gears and pinions being such that the shafts of said pair are rotated at high speed as compared with the speed of rotation of the vibrator shaft, a crank disk for and attached to each of the shafts of the pair, a vibrator belt extended loosely from one crank disk to the other and means for attaching the ends of the belt to the respective crank disks.

2,314,982
TOBACCO PIPE
James Thomas Howdle, Birmingham, England, assignor to The Parker Pipe Company Limited, Notting Hill Gate, London, England
Application January 13, 1942, Serial No. 426,616
In Great Britain December 26, 1940
3 Claims. (Cl. 131—176)



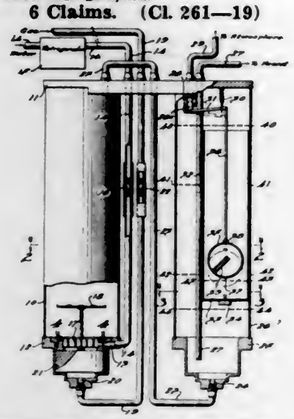
2. A tobacco bowl having in combination a movable cover, a rib rigidly connected at one end to the cover, a recess in the bowl to accommodate the rib, a pivot pin passing transversely through the recess and a slotted end on the rib engaging the pivot pin, the lower end of said recess and the slotted end of said rib each having a semi-circular curvature, the arrangement being such that when the cover is swung to a position covering the bowl it will be retained in that position and when swung into a position at substantially right angles it can be removed by a bias movement of the rib relative to the recess.

2,314,983
CARBONATING APPARATUS
James L. Hudson, Detroit, Mich., assignor to Central Discount Company, Detroit, Mich., a corporation of Michigan
Application August 22, 1940, Serial No. 353,636
3 Claims. (Cl. 137—69)



1. In apparatus of the character described, the combination with a container having a unitary interior chamber space and constructed to hold liquid and gas under superatmospheric pressure; valve-controlled conduit means for conducting liquid and gas into said space; and a valve-controlled outlet conduit for liquid leading from the lower part of said space; of a vent conduit for gas leading from the upper part of said container space to the atmosphere; a vent valve for controlling said conduit; and means for actuating the vent valve comprising a well disposed within the container in open communication at its top with the interior space of the container and having an outlet aperture at its bottom, a valve device for the outlet aperture having a part buoyant in liquid and sensitive to change of the liquid level in the container to maintain said aperture closed while the liquid in the container is above a predetermined level adjacent the lower part of the well and to open said passage when the liquid in the container falls below that level, and a body disposed in the well and operatively connected to the vent valve and having an effective weight variable with change of the liquid level in the well to open the vent valve when the liquid level in the container falls below a predetermined level.

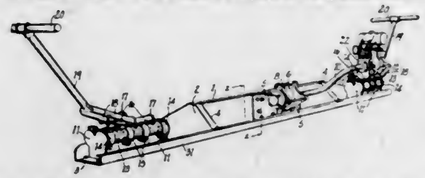
2,314,984
CARBONATING APPARATUS
James L. Hudson, Detroit, Mich., assignor to Central Discount Company, Detroit, Mich., a corporation of Michigan
Original application August 22, 1940, Serial No. 353,636. Divided and this application July 20, 1942, Serial No. 451,580
6 Claims. (Cl. 261—19)



1. In liquid-carbonating apparatus, the combination of closed container means having a continuous chamber within which CO_2 gas can be mixed with liquid under pressure and from which the carbonated liquid can be dispensed; a liquid supply conduit opening into the container means; means associated with said conduit for preventing outflow therethrough from the container means; an inlet conduit for CO_2 gas opening into the lower part of the enclosed space of the container means, said conduit having a fixed metering passage and being constructed and arranged to afford constant access of gas to the container means; a discharge conduit for carbonated liquid leading from the container means with its inlet opening below the top of the chamber space of the container means; a gas vent conduit for conducting gas from the upper part of the chamber space of the container means to the atmosphere, the effective gas-conducting capacity of said vent conduit being substantially greater than that of the said inlet conduit for gas; a vent valve for controlling flow through the vent conduit; and means for actuating the vent valve controlled by the rise and fall of the level of liquid within the container means to open the vent conduit when said liquid falls below a predetermined level and to close said conduit when said liquid has risen again above said level.

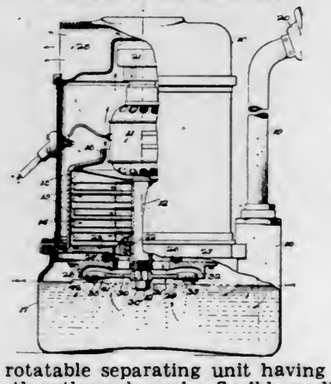
2,314,985
VIBRATORY HAND SCREED
Corwill Jackson Ludington, Mich.
Application July 21, 1941, Serial No. 403,312
7 Claims. (Cl. 94—45)

7. In a hand screed, the combination of an elongated screed member having vibrating means mounted thereon, flexible tubular supports each supported from its opposite ends on said screed adjacent the ends thereof and in parallel relation thereto, handle secured to said supports intermediate the ends thereof, and a prime mover



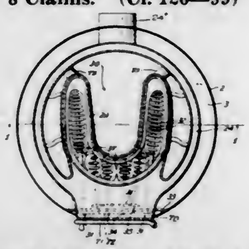
for said vibrating element mounted on and supported substantially in its entirety by one of said supports and having flexible drive shaft connections to said vibrating element, said flexible supports acting to dampen the vibratory impulses of said screed in relation to said handles and prime mover.

2,314,986
CENTRIFUGAL SEPARATOR
Charles M. Johnson, Washington, D. C.
Application January 14, 1939, Serial No. 251,020
9 Claims. (Cl. 183—77)



1. A rotatable separating unit having a fluid passage therethrough, and a flexible sealing element carried by said unit and normally closing said passage when said unit is stationary, but adapted to be moved by centrifugal force to uncover said passage when said unit is rotated.

2,314,987
HEATING APPLIANCE
William Anson Jones, Ottawa, Ontario, Canada
Application December 8, 1939, Serial No. 308,212
8 Claims. (Cl. 126—99)



1. A heating appliance having a fire-box, a smoke flue therefor, means forming a combustion chamber superimposed on said fire-box, each said fire-box and combustion chamber being in cross-section substantially long, narrow and non-continuous and doubled upon itself to provide spaced opposed rearwardly extending portions and a forward portion connecting said rearwardly extending portions, means forming indirect flue passages each leading from a point in the forward portion of said combustion chamber to a point lying to the rear of the rearwardly extending portions thereof and communicating with the flue at the latter point, and means forming direct flue passages leading from the rearwardly extending portions of the combustion chamber to the flue.

2,314,988
TREATMENT OF FAT CONTAINING MATERIALS, AND PRODUCT
William Redmond Johnston, Bronx, and Herbert C. Gore and Charles N. Frey, Scarsdale, N. Y., assignors to Standard Brands Incorporated, New York, N. Y., a corporation of Delaware
No Drawing. Application January 30, 1940, Serial No. 316,316
9 Claims. (Cl. 99—163)

1. A method for inhibiting deleterious changes in fatty materials which comprises incorporating the unsaponifiable portion of coffee oil with a fatty substance.

2,314,989
ELECTRICAL CONTACTING DEVICE
Arthur J. Kercher, Berkeley, Calif.
Application July 29, 1940, Serial No. 348,110
9 Claims. (Cl. 200—137)

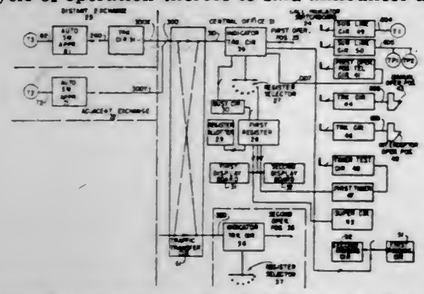


1. In electrical contacting apparatus of the type described, a flat strip of spring metal, the strip being provided with an integral looped portion near one end of the same, means serving to anchor said one end of the strip to a fixed support, whereby the other end of the strip is free for movement in opposite directions, a part of the strip intermediate the ends of the same being cut away to form a spring tongue with the free end of the tongue extending toward said one end, a fixed abutment serving to engage the free end of the tongue, whereby said loop is stressed to afford snap action for the strip past dead center position.

2,314,990
TELEPHONE SYSTEM
Frank Kessler, Villa Park, Ill., assignor to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application October 24, 1941, Serial No. 416,364
57 Claims. (Cl. 179—27)

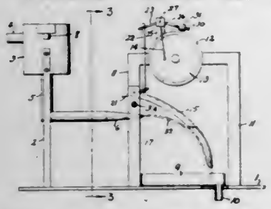
1. In a telephone system, a plurality of register

sets accessible to calling automatic stations for registering calls, an announcer for announcing the call registered in any one of said register sets allotted thereto, an allotter operative through a given cycle to allot successively the ones of said register sets which were prepared during a prior cycle of operation thereof to said announcer as it



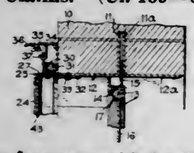
becomes idle intermittently, means for preparing the other of said register sets in which calls are registered during said given cycle of operation of said allotter to be allotted during a subsequent cycle of operation thereof to said announcer, and means controlled by the presence of a prepared register set to be allotted to said announcer for operating said allotter.

2,314,991
VISCOSIMETER
Walter T. Knauth, Houston, Tex., assignor to The Milwhite Company Inc., a corporation
Application January 13, 1942, Serial No. 426,578
7 Claims. (Cl. 265—11)



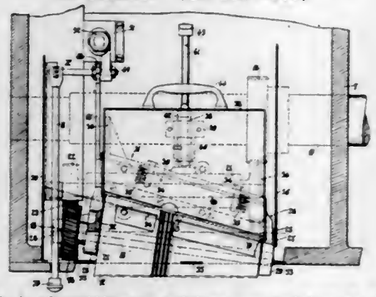
1. A continuous recording viscosimeter comprising a horizontally fixed viscosimeter tube, means for supplying a liquid to the tube under constant, gravitational, linear head pressure, a baffle pivoted to move with variations of the parabolic curves of the liquid stream from the viscosimeter tube projected thereon and effective to actuate a stylus to make a record of the viscosity.

2,314,992
STORM WINDOW
Harry H. Goldberg, Denver, Colo.
Application March 6, 1942, Serial No. 433,644
3 Claims. (Cl. 189—64)



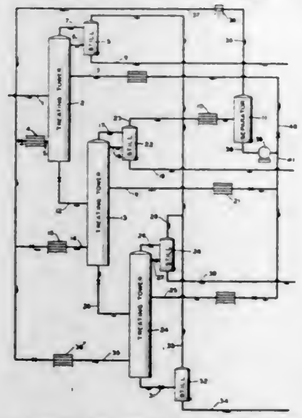
1. A window frame provided with a storm sash, an angle iron lintel having one flange extending upwardly adjacent the middle of the wall, the other flange extending outwardly in a substantially horizontal plane, and a Z bar having one flange bolted to the under side of the lintel angle and its web projecting upwardly along the front surface of the wall, the upper flange projecting forwardly from the wall.

2,314,993
TOBACCO, TEA, OR LIKE LEAF CUTTING MACHINE
Henry William Langrish, Deptford, London, England, assignor to Molins Machine Company, Limited, Deptford, London, England
Application November 9, 1940, Serial No. 365,087
In Great Britain November 16, 1939
10 Claims. (Cl. 146—108)



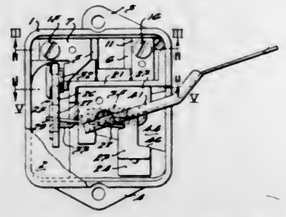
1. A leaf cutting machine comprising a moving knife and a cleaning device comprising a rotatable member grooved transversely of its axis of rotation to provide scraping edges, and means supporting the rotatable member and knife in such relative positions that between consecutive knife cuts the member and the knife are engaged and the engaged portions thereof are moved relatively in a direction having a component transverse to the direction in which the knife edge is moving so as to provide a scraping action across the knife.

2,314,994
PROCESS FOR DEWAXING LUBRICANT STOCKS
Shelby D. Lawson, Borger, Tex., and Robert W. Henry, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware
Application June 1, 1940, Serial No. 338,400
2 Claims. (Cl. 196—18)



1. The continuous process of dewaxing mineral oils including the steps of mixing the waxy oil with a dewaxing solvent at such a temperature as to have complete solution between the waxy oil and solvent, adding cooled, finely divided bubbles of inert gas to the waxy oil-solvent mixture in a first dewaxing zone to cool the mixture and to precipitate at least a portion of the wax thereon, removing these first wax-gas agglomerates; passing the partially dewaxed oil-solvent mixture of the first dewaxing zone into a second dewaxing zone, adding chilled, finely divided bubbles of inert gas to chill the mixture of partially dewaxed oil and solvent and to precipitate an additional portion of the wax thereon and removing these second wax-gas agglomerates; and passing the partially dewaxed oil-solvent mixture of the second dewaxing zone into a third dewaxing zone, adding chilled finely divided bubbles of inert gas to chill to a still lower temperature the mixture of partially dewaxed oil and solvent and to precipitate a third fraction of the wax thereon and removing these third wax-gas agglomerates and the dewaxed oil-solvent mixture from the third dewaxing zone; separating the gas from the first, second and third wax-gas agglomerates, and separating the solvent from the dewaxed oil, and recycling the inert gas and the separated solvent.

2,314,995
ELECTRIC SWITCH
Gustav A. Lennholm, Des Moines, Iowa, assignor to Square D Company, Detroit, Mich., a corporation of Michigan
Application October 23, 1940, Serial No. 362,389
10 Claims. (Cl. 200—67)



1. In an electric switch, a stationary contact, a movable contact, a switching member movable to move said movable contact into and out of engagement with said stationary contact, a fixed supporting member, an element pivotally supporting said switching member and itself pivotally mounted on said fixed supporting member, an overcenter spring means secured to said switching member, means operative to displace the point of attachment of said overcenter spring to the switching member from one side to the other of the pivotal supporting element to urge a rotative movement of said switching member relative to said pivotal supporting element before said switching member and said pivotal supporting element are snapped to a second position.

2,314,996
METHOD OF IMPROVING THE ADHESION OF RUBBER TO COTTON
Edward T. Lessig and Ivan Gazdik, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application February 11, 1939, Serial No. 255,890
1 Claim. (Cl. 117—7)

In a process of treating cotton cord with a heat-hardening resorcinol-formaldehyde-latex adhesive, the steps which comprise subjecting the cotton cord in a relaxed state to the action of a penetrant and drying the cord under tension prior to treatment with the adhesive.

2,314,997
METHOD OF IMPROVING THE ADHESION OF RUBBER TO COTTON
Edward T. Lessig and Hal P. Headley, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application February 11, 1939, Serial No. 256,010
6 Claims. (Cl. 154—2)

5. A process of improving the adhesion of cotton to rubber which comprises coating the cotton with an aqueous polyhydricphenol-aldehyde-latex dispersion at a temperature of at least 70° C. and containing a small amount of a penetrant, drying the coated cotton, associating the treated cotton with a vulcanizable rubber composition, and vulcanizing the composite product.

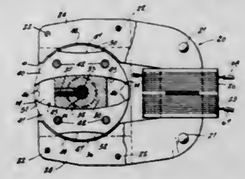
6. A product containing vulcanized rubber strongly adhered to cotton by the method of claim 5.

2,314,998
METHOD OF ADHERING FIBERS TO RUBBER
Edward T. Lessig and Hal P. Headley, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application February 11, 1939, Serial No. 256,011
6 Claims. (Cl. 154—2)

4. A process of improving the adhesion of a member of the class consisting of natural and synthetic organic fibers to rubber which comprises wetting the fibers with an aqueous heat-hardening polyhydricphenol-aldehyde-latex dispersion which is at a temperature of at least 70° C., drying the coated fibers, associating the coated fibers with a vulcanizable rubber composition and vulcanizing the composite product.

5. A product containing vulcanized rubber strongly adhered to a member of the class consisting of natural and synthetic organic fibers, which product has been prepared by the process of claim 4.

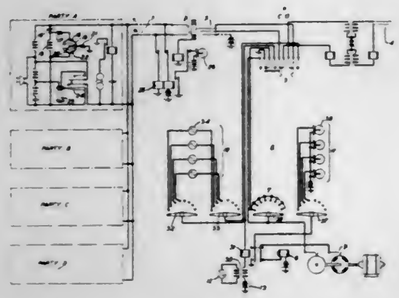
2,314,999
MOTOR
Edwin W. Logan, Belleville, Ill., and Jaroslaw K. Kostko, University City, Mo., assignors to The Emerson Electric Mfg. Co., St. Louis, Mo., a corporation of Missouri
Application October 9, 1939, Serial No. 298,598
10 Claims. (Cl. 172—36)



1. In an impulse electric motor, a field member carrying a field winding adapted to be connected to a supply, a rotor member adapted to rotate relatively to the field member and located so as to be traversed in any of its positions by at least a part of the magnetic flux set up by the field winding, this rotor member comprising a plurality of parts of high permeability held mechanically together but magnetically substan-

tially insulated from one another, substances of low permeability located between the parts of high permeability of the rotor in such a way that in one position of the rotor with respect to the field member the parts of high permeability are substantially in parallel with the substances of low permeability with respect to the magnetic flux in the rotor set up by the field winding, while in another position of the rotor, which is ninety electrical degrees from the first position, the parts of high permeability are substantially in series with the substances of low permeability with respect to the magnetic flux in the rotor set up by the field winding, and means for making and breaking connections between the field winding and the supply, these means being arranged so as to operate at predetermined positions of the rotor member with respect to the field member.

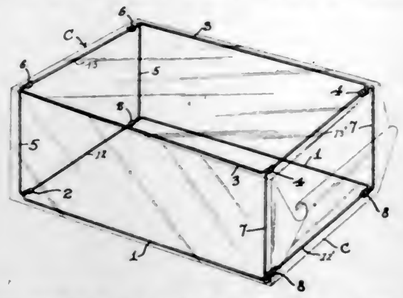
2,315,000
TELEPHONE SYSTEM
Mason A. Logan, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 2, 1940, Serial No. 316,902
9 Claims. (Cl. 179—8.5)



1. In a telephone system, a two-conductor line having a plurality of subscribers' stations, a network tuned to a different frequency at each station, a cold cathode tube at each station, a plurality of sources of voltage, each of a frequency corresponding to one of said networks, means for applying in succession voltages from each of said sources across the conductors of said line for causing the tube at a calling station to ionize when the frequency to which the associated network is responsive is applied across the line conductors, and means operative in a circuit including one of the line conductors only in response to the ionization of the tube for identifying the calling station.

2,315,001
COLLAPSIBLE FRAME FOR CELLOPHANE DISPLAY BOXES
Nicholas D. Logan, Port Washington, N. Y.
Application April 12, 1941, Serial No. 388,314
2 Claims. (Cl. 206—44)

1. In a container of the type described, the combination of a collapsible rectangular wire frame comprising 4 wires bent to form two similar pairs of U-shaped portions, said similar pairs being oppositely and reversely positioned in the frame and having the free ends of each U-shaped portion pivotally connected to the base of an adjacent portion positioned at right angles thereto, thereby forming a wire frame having longitudinal, transverse, and upright wires, and a Cellophane bag in which the aforesaid frame is insertible

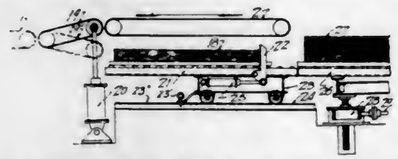


when expanded to form a light weight box-like container, for the purpose described.

2,315,002
ORNAMENTAL ORGANIC DERIVATIVE OF CELLULOSE FABRIC
Arthur Lyem, Cumberland, Md., assignor to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application May 15, 1941, Serial No. 393,675
7 Claims. (Cl. 8—115)

1. Process for the production of fabrics presenting ornamental effects, which comprises locally applying a water-soluble polyvinyl alcohol resin resist coating to a fabric containing yarns of an organic derivative of cellulose and then subjecting said fabric to the action of a volatile non-aqueous medium having a shrinking action on the uncoated portion of the organic derivative of cellulose yarns.

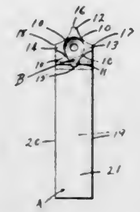
2,315,003
SHEET SORTING TABLE
Otto E. Martin and Joseph W. Pick, Middletown, and Eo Reed, Zanesville, Ohio, assignors to The American Rolling Mill Company, Middletown, Ohio, a corporation of Ohio
Application May 21, 1940, Serial No. 336,420
5 Claims. (Cl. 214—11)



1. In combination with a conveyor system for metal sheets, a sorting means comprising an intermediate conveyor spaced from an approach conveyor, a deflector disposed in said space and movable from a position in which it passes sheets onto said intermediate conveyor to a position in which it passes sheets to a point beneath said intermediate conveyor, a second intermediate conveyor disposed beneath said first intermediate conveyor, and a run-off conveyor disposed to receive sheets from said intermediate conveyors, said run-off conveyor being adjustable vertically from a position in which it may receive sheets passing off said first intermediate conveyor to a position in which it may receive sheets passing off said second intermediate conveyor, all of said conveyors extending and moving in the same direction, and stop means in

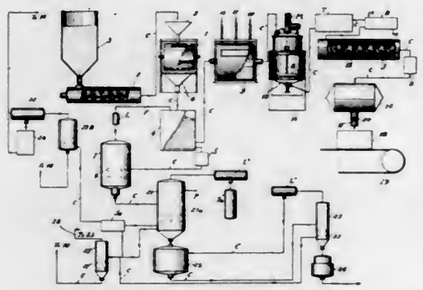
connection with said second intermediate conveyor to arrest sheets deflected thereto and form a stack of said sheets.

2,315,004
SQUARE
William B. Painter, Dearborn, Mich.
Application January 19, 1942, Serial No. 427,371
5 Claims. (Cl. 33—112)



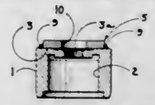
1. A square of the class described having a base and an arm disposed at right angles to each other, the base being substantially square-shape in cross section, the arm being provided throughout its length with four longitudinally extending flutes separated one from another by narrow fillets, two of said fillets having flat edges flush with opposite faces or sides of said base, the other two fillets being between and disposed at 90° to the first mentioned fillets, the edges of the last mentioned fillets being spaced apart a distance greater than the distance between the flat edges of the first mentioned fillets so that the said last mentioned fillets may be reground on a radius without the grinder touching or marring the flat edges of the first mentioned fillets.

2,315,005
PROCESS FOR MAKING PLASTIC SUBSTANCES AND THE PRODUCTS THEREOF
Herbert S. Polin, New York, N. Y.
Application January 12, 1940, Serial No. 313,524
9 Claims. (Cl. 106—154)



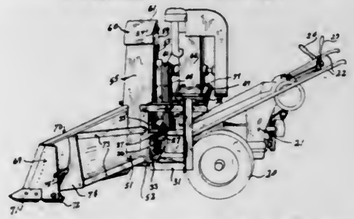
1. The method of preparing a plastic and recovering caffeine from coffee, which consists in treating the green coffee bean to render the fiber thereof suitable to serve as a filling material, removing some of the ingredients of the substance of said bean comprising oils, caffeine and tannins, separating said oils and the caffeine to recover the latter, restoring said tannins and part of said oils and remixing them with the other ingredients retained in said substance to form a binder, and subjecting the mass to pressure and heat till a moldable product is obtained.

2,315,006
METHOD OF MAKING BEARING CAPS
Albert F. Misch, Cleveland, Ohio, assignor to The Almetal Universal Joint Company, Cleveland, Ohio, a corporation of Ohio
Application November 10, 1941, Serial No. 418,496
1 Claim. (Cl. 29—149.5)



The method of making an end cap bearing comprising the following steps: cutting, in a bar stock shell blank, a cylindrical bore extending from one end thereof toward but not through the opposite end whereby said opposite end will constitute an integral cap for the shell; milling opposite sides of the shell thus produced thereby to provide each side with an angular slot having a wall extending from the closed end of said shell parallel with the bore thereof and with a wall extending at right angles outwardly from the former wall through the exterior surface of the shell, thereby to provide opposite sides of the closed end of the said shell with angular seating portions having parallel walls; forming a base-flange blank of greater length but less width than the outside diameter of said shell; forming in one of the two extended surfaces of said base flange blank a slot extending entirely thereacross, the said slot being defined between parallel walls extending from the bottom of the slot at right angles with respect to the body of the base flange blank, the distance between the walls of the slot being substantially equal to the distance between the parallel walls formed in the seating portions of the base of the shell and being of the same depth as the latter parallel walls; pressing the shell and the base flange thus produced into engagement with each other with the parallel walls of the seating portions of the shell engaging and forming seats with the parallel walls of the slot and with the portions of the closed end of the shell intermediate of the slotted portions thereof projecting beyond the ends of the slot; and uniting by a welding operation the portions of the shell member which overhang the ends of the slot of the base flange and the portions of the base flange overhung thereby.

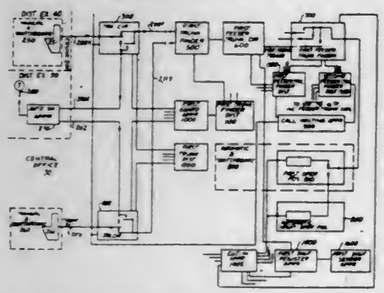
2,315,007
ROTARY EXCAVATOR
Leslie G. Morse, Randolph, Arthur R. Hill, Brookfield, and Charles C. Morse, Randolph, Vt.
Application April 2, 1940, Serial No. 327,534
5 Claims. (Cl. 37—43)



1. In a machine of the character described wherein there is a two-wheel tractor unit having rearwardly located single axis wheels and a plow unit mounted in front thereof: the structure wherein the plow unit includes a rigid truck frame extended to an intermediate position on the tractor unit, a pivotal connection between the two thereat, said tractor unit having a rigid

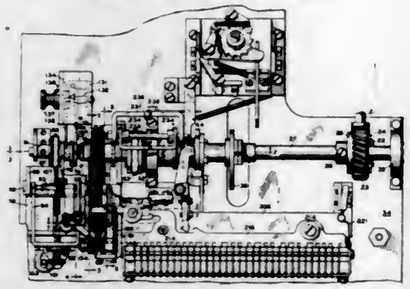
member projected forwardly a considerable distance from said pivotal connection and vertically movable within the plow unit frame, and resilient means engaged between said rigid member and the truck frame in opposing relation to restrict relative vertical movement of the rigid member and truck frame in each direction, said plow unit being extended a substantial distance in front of the said resilient means and having longitudinally spaced ground engaging members.

2,315,008
TELEPHONE SYSTEM
Harry N. Newstedt, Chicago, Ill., assignor to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application November 2, 1940, Serial No. 363,960
65 Claims. (Cl. 179—27)



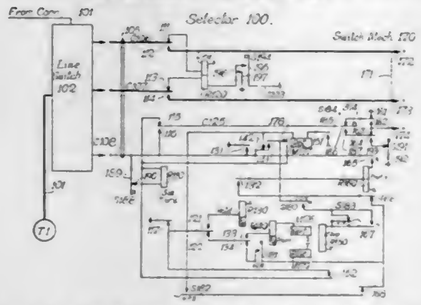
1. In a telephone system, an A switchboard, a B switchboard including a plurality of operator positions, a plurality of trunks accessible to said A switchboard, a plurality of primary switches of the fully directive type having access to said trunks, each of said primary switches including a plurality of connect relays operative in different combinations to seize said trunks, a plurality of feeder trunks individually associated with said primary switches, a plurality of secondary switches of the fully directive type having access to said feeder trunks and individually associated with said operator positions, each of said secondary switches including a plurality of connect relays operative in different combinations to seize said feeder trunks, means at said A switchboard for initiating a call on any one of said trunks, a primary marking network including a plurality of primary marking paths individually corresponding to said trunks and responsive to the presence of a call on any one of said trunks for completing the corresponding one of said primary marking paths, means responsive to the completion of said one primary marking path for operating in an idle one of said primary switches the connect relays corresponding to said one trunk, thereby to cause said one primary switch to seize said one trunk in order to extend the call to the associated one of said feeder trunks, a secondary marking network including a plurality of secondary marking paths individually corresponding to said feeder trunks and responsive to the presence of a call on any one of said feeder trunks for completing the corresponding one of said secondary marking paths, and means responsive to the completion of said one secondary marking path for operating in an idle one of said secondary switches the connect relays corresponding to said one feeder trunk, thereby to cause said one secondary switch to seize said one feeder trunk in order to extend the call to the associated one of said operator positions to be answered.

2,315,009
TELEGRAPH ORIENTING DEVICE
Paul A. Noxon, Tenafly, N. J., assignor to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Original application October 10, 1936, Serial No. 105,102, now Patent No. 2,209,998, dated August 6, 1940. Divided and this application August 6, 1938, Serial No. 223,384
7 Claims. (Cl. 178—53.1)



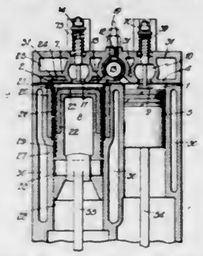
1. In a receiving selector mechanism responsive to received code combinations of electrical impulses comprising an electro-magnet, a first rotary means initiated in rotation by the actuation of said electro-magnet immediately preceding the reception of each of said code combinations and arrested in rotation immediately following the reception of each of said code combinations, a set of selecting fingers and a second rotatable member, adjustable means interposed between said first and second rotatable members for releasing said second rotatable member a variable length of time after the release of said first rotatable member and means employing said second rotatable member and said electro-magnet for selectively positioning said selecting fingers in accordance with the received code combinations.

2,315,010
SIGNALING SYSTEM
John Ellis Ostline, Chicago, Ill., assignor to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application August 2, 1941, Serial No. 405,155
18 Claims. (Cl. 179—18)



1. In a signaling system, an automatic switch comprising a wiper set including two line wipers and a single test wiper, a terminal bank comprising terminal sets arranged in levels accessible to said wiper set, two groups of trunks terminated by the terminal sets in a given level of said bank, each of said trunks including two line conductors and a single test conductor, mechanism selectively operable to determine either one of said groups of trunks in said given level, means for initiating movement of said wiper set over the terminal sets in said given level, means governed by said mechanism for testing over said test wiper the test conductors of the trunks in the previously determined one of said groups, and means governed by said last-mentioned means for arresting movement of said wiper set, whereby said wiper set is controlled to select an idle trunk in said previously determined one of said groups.

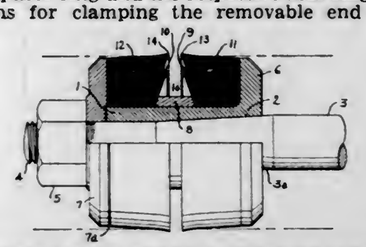
2,315,011
INTERNAL COMBUSTION ENGINE
Francisco Angel Quiroz, Newark, N. J.
Application November 12, 1940, Serial No. 365,189
4 Claims. (Cl. 123—68)



1. In an internal combustion engine, a cylinder and piston forming a compression chamber, a cylinder and piston forming an expansion chamber having a greater maximum capacity than said compression chamber, a channel interconnecting said chambers comprising an ignition chamber, an intake valve in said compression chamber, an exhaust valve in said expansion chamber, valve means controlling said channel so as to close said ignition chamber from said expansion chamber while admitting a charge to said ignition chamber from said compression chamber during a compression stroke of the compressor piston thereof, and to close said ignition chamber from said compression chamber while releasing a charge from said ignition chamber into said expansion chamber during an expansion stroke of the piston thereof, means mechanically connecting said pistons so that an expansion stroke of said expansion chamber piston follows directly after a compression stroke of said compression chamber piston, means forming water jacket cavities around the walls of said compression chamber cylinder, said compression chamber piston being designed to provide good heat conduction from the entire surface of the head of said piston to the walls of said compression chamber cylinder, and the piston and cylinder walls of said expansion chamber comprising metallic surface parts constituting the boundaries of the expansion chamber, backed by insulation over a major part of their area.

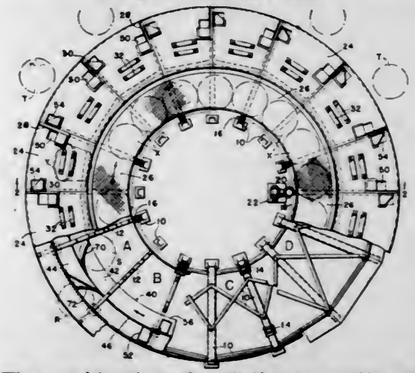
2,315,012
PISTON
Tracy S. Park, Houston, Tex.
Application May 15, 1941, Serial No. 393,592
6 Claims. (Cl. 309—4)

4. A pump piston comprising a piston body having a fixed end plate at one end and a removable end plate at the other end, seal rings around the body abutting the respective end plates and formed of resilient material and whose facing ends terminate in forwardly diverging annular lips shaped to form seals with the pump liner, a removable spacer ring on the body between the seal rings, removable, outwardly converging, reinforcing plates on the body between the spacer ring and the respective seal rings and means for clamping the removable end plate



against the ring assembly whereby said assembly will be securely clamped on the body with said annular lips spaced apart.

2,315,013
SORTING TABLE
Joseph S. Pecker and Henry A. Simpson, Philadelphia, Pa., assignors to Machine and Tool Designing Co., Philadelphia, Pa., a corporation of Pennsylvania
Application August 3, 1940, Serial No. 350,688
1 Claim. (Cl. 209—122)



The combination of a stationary sorting table and a movable conveyor table, said tables having adjacent margins, partitions dividing the top of the table into a series of stalls one for each operator, the table within each stall provided with at least two discharge ports, each port provided with a hood for facilitating the feeding of material to said port, said hood being in part at least, integral with its adjacent partition.

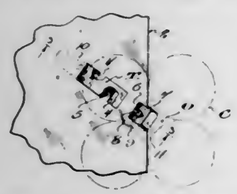
2,315,014
CONTAINER
Harold E. Rue, Wauwatosa, Wis., assignor to Pabst Brewing Company, Chicago, Ill.
Application May 8, 1941, Serial No. 392,413
1 Claim. (Cl. 229—5.7)



In a container comprising an adhesively coated fibrous strip having a plurality of windings upon itself forming a tubular base with a strip section extending therefrom for final winding upon the base, the same being of equal length to at least

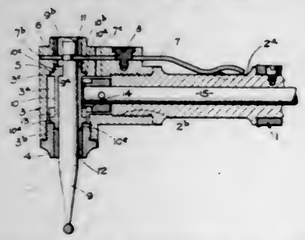
two laps of the circumference of the tubular base, a metallic ribbon equal in length to the base circumference, tightly wound upon the last layer of the tubular base, prongs projecting outwardly from the ribbon, the first lap of the strip section extension being simultaneously tightly wound upon said tubular base and metallic ribbon, the ribbon prongs piercing said first base lap, said prongs being flatly folded against the pierced strip lap toward the tube edge, the container being completed by a finishing winding of the strip section, to encase the metal ribbon and firmly bind the upwardly flattened prongs thereof, whereby the ribbon strip is confined and is securely bound and anchored for the reception of a container closure to thereby effectively resist high pressure strain developed in the aforesaid container.

2,315,015
TOOL HOLDER FOR CARTONS
Harold E. Rue, Wauwatosa, Wis., assignor to Pabst Brewing Company, Chicago, Ill.
Application May 19, 1941, Serial No. 394,159
2 Claims. (Cl. 206—47)



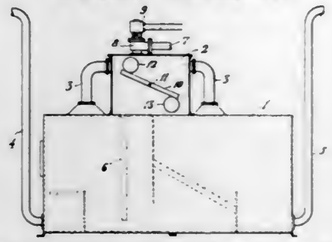
1. In a fiber container for receiving rows of closely packed round containers having spaces between the same, inner closure flaps for engaging over the containers and outer closure flaps adapted to extend over and hide the inner flaps, one of said inner flaps being provided with means for receiving and detachably holding a tool for opening the containers, the tool being of the type having a flat shank and an arcuate penetrating prong on one end of the shank, said tool holding means consisting of spaced openings in the last mentioned inner flap for receiving the shank and a connecting web for supporting the shank and a notch in the outer edge of said inner flap in alignment with the openings for receiving the penetrating prong, whereby the prong can be positioned in a space between adjacent containers, said outer flaps when positioned over the inner flaps completely hiding and covering the tool during shipping of the carton.

2,315,016
PAINLESS DRILLING DENTAL INSTRUMENT
John C. Shotton, Lakewood, Ohio
Application February 11, 1941, Serial No. 378,391
1 Claim. (Cl. 32—26)



A dental drilling instrument of the contra-angle type comprising a head having a bore extending therethrough from top to bottom thereof, a bushing fitted within the upper portion only of said bore and providing an upper bearing for a drill, a nut secured to the lower end of said head and providing a lower bearing for a drill, and a drill having its upper and lower end portions mounted respectively within the bearings provided therefor by the bushing in the upper portion of the bore and by the nut, the said drill being provided with a drill tube intermediate of said bearings, the said drill tube having a driving pinion thereon.

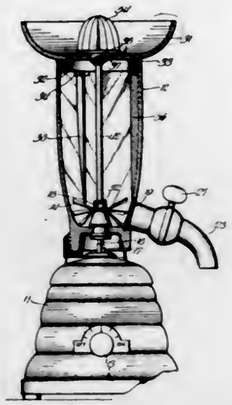
2,315,017
SEPARATOR FOR LIQUIDS HAVING DIFFERENT SPECIFIC GRAVITIES
Herbert Alexander Thompson, Benton, England
Application October 11, 1938, Serial No. 234,452
In Great Britain February 24, 1938
5 Claims. (Cl. 210—54)



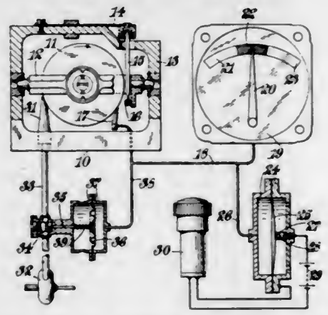
1. Apparatus for the separation of liquids of different specific gravities from a mixture of such liquids comprising a closed receptacle, in which the mixture separates into a lighter upper liquid and a lower heavier liquid, said receptacle having an inlet for the mixture of liquids, a lower outlet for the heavier liquid, an upper outlet for the lighter liquid, means including a valve controlling the flow of the lighter liquid through said upper outlet, power means operated by fluid under pressure for actuating said valve, means to supply a fluid under pressure to said power means, a second valve normally closed controlling said last mentioned means, a valve operating means comprising a pilot float, a main float, at least one lever connecting the floats, a fulcrum for said lever, said floats being of exactly equal volumes, said main float being above and said pilot float below the lever, and means connecting said valve operating means and said lever, said lever and floats being so constructed and arranged that the pilot float rises above its normal level when the main float is immersed in the lighter liquid, thereby actuating said second valve to admit a fluid under pressure to said power means to open said upper outlet valve.

2,315,018
JUICE EXTRACTOR AND MIXER
Benjamin E. Lawrence, Chicago, Ill.
Application December 28, 1939, Serial No. 311,385
10 Claims. (Cl. 146—3)

1. In equipment of the character described, a bowl, a propeller supported near the bottom of the bowl and shaped to cut and comminute pulpy and like material when rotating at high speed, means for driving said propeller, and a screen disposed in an opening near the bottom of said bowl substantially flush with the inside side wall surface thereof, the construction and arrangement being such that liquid may be separated from pulpy material of fruits and vegetables and be discharged through said screen while said propeller is being driven at high speed, the movement of material within the bowl serving to prevent clogging of the screen.



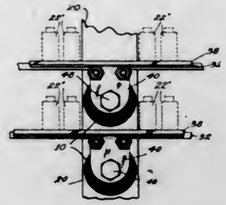
2,315,019
GYROSCOPIC APPARATUS
Hugh Melvin Samuelson, London, England, assignor to S. Smith & Sons (Motor Accessories) Limited, London, England, a British company
Application June 7, 1940, Serial No. 339,376
In Great Britain June 13, 1939
2 Claims. (Cl. 264—14)



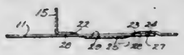
1. A gyroscopic apparatus comprising a high speed rotor mounted for free rotation, a Pitot tube adjacent the gyroscopic rotor, in which Pitot tube a pneumatic pressure of a value depending on the speed of the rotor is produced by air entrained by the rotor, an air jet directed on the rotor for driving it, means supplying air to said jet, a valve controlling the air supply and pressure responsive means connected to said Pitot tube for moving the valve in a direction to reduce the flow of air to the jet and a resilient loading member for said pressure responsive means.

2,315,020
GANG RELAY
Norman H. Saunders, Chicago, and Nils A. Judsen, Oak Park, Ill., assignors to Kellogg Switchboard and Supply Company, Chicago, Ill., a corporation of Illinois
Application January 15, 1941, Serial No. 374,428
4 Claims. (Cl. 200—98)

1. A telephone relay bank comprising a plurality of relays arranged in a row, each relay including a bar extending transversely of the row of relays, a plurality of sets of contact springs mounted transversely of the row of relays in substantial alignment on said bar and an electromagnet and associated means for actuating said sets of contact springs, the sets of contact springs of each relay being arranged in two groups separated to provide a space therebetween and means for mounting said relays with the electromagnet of each preceding relay positioned in the space between the groups of contact springs of the next succeeding relay.



2,315,021
LAWN RAKE AND METHOD OF MANUFACTURE THEREOF
Erwin L. Schmidt and Joseph L. Schwabe, Jr., Milwaukee, Wis., assignors to G-H Specialty Company, Milwaukee, Wis., a corporation of Wisconsin
Application July 26, 1940, Serial No. 347,604
16 Claims. (Cl. 56—400.17)

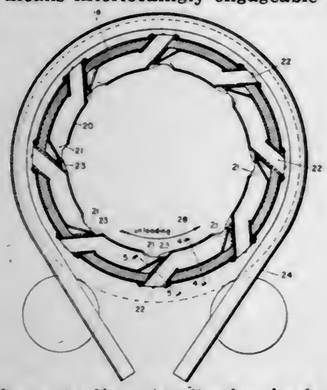


1. The method of manufacturing a rake of the character described which comprises aperturing a piece of mounting head stock at spaced points along predetermined rows, deforming such stock adjacent the apertures of one row to provide bosses, deforming said stock to provide a channel so located that the sides of the channel include the portions of the stock wherein said rows of apertures are formed, leaving the bosses laterally adjacent the channel, providing holes adjacent the ends of metal teeth, inserting said teeth into the apertures of the channeled portion of the stock with the holes of the teeth in registry with said bosses, and flattening the channeled portion of the stock to engage the bosses in the holes of the teeth and to clamp the teeth in the apertures of the stock.

2,315,022
APPARATUS FOR TREATING MATERIALS
Benjamin A. Smith, Rocky River, Ohio, assignor to The C. O. Bartlett & Snow Company
Application May 8, 1941, Serial No. 392,479
5 Claims. (Cl. 214—18)

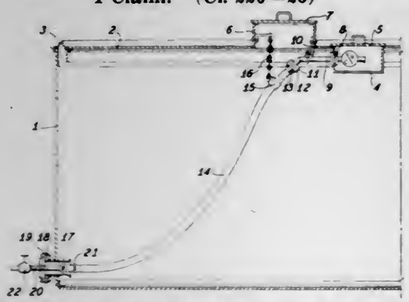
3. In apparatus of the character described, a rotatably supported cylindrical kiln, and means operable upon rotation of said kiln in one direction to discharge material therefrom, and operable upon rotation of said kiln in an opposite direction to retain material therein, comprising, a plurality of like members arranged circumferentially of said kiln, each of said members providing a segmental annular passage and having an inlet opening at one end thereof and an outlet opening at the other end thereof, and means for securing one end of each of said units in position

with respect to said kiln, said last named end having means interlockingly engageable with an



end of the next adjacent unit, whereby, both ends of each unit are held in position.

2,315,023
WATER DRAIN FOR FLOATING ROOF TANKS
Hugh M. Stevenson, Houston, Tex., assignor to Standard Oil Development Company, a corporation of Delaware
Application June 10, 1939, Serial No. 278,442
1 Claim. (Cl. 220—26)

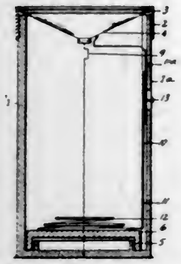


In a floating roof tank a sump for collection of water on said roof, a hatch in said roof adjacent said sump, an outlet nipple on said sump having its end projecting into the interior of said tank at a point beneath said hatch and adjacent thereto, a short pipe arranged in the wall of the tank adjacent the bottom end to project into the interior of the tank and provided with a flange at its outer end, a mating flange detachably secured to said first mentioned flange, a nipple having a smaller area than said pipe secured to said mating flange and extending through said pipe into the tank whereby said pipe loosely houses said nipple, a flexible hose arranged in said tank with its ends connected to said nipples and a flexible member attaching the upper end of said hose to said hatch.

2,315,024
CONVERSION OF HYDROCARBONS
John F. Sturgeon, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Original application September 8, 1939, Serial No. 293,922. Divided and this application April 29, 1940, Serial No. 332,281
10 Claims. (Cl. 196—52)

2. A process for cracking a hydrocarbon oil heavier than gasoline to produce a substantial yield of gasoline therefrom which comprises subjecting said hydrocarbon oil at a temperature in the approximate range of 850–1200° F. to contact with a catalytic material prepared by compositing a major proportion of precipitated silica hydrogel with a relatively smaller proportion of another precipitated hydrogel selected from those of alumina, zirconia, and a mixture of alumina and zirconia to form a hydrogel composite, freezing and thawing said hydrogel composite to convert it into a powder and an aqueous solution, filtering to separate a major proportion of said aqueous solution from said powder, washing the powder to remove water soluble impurities, drying and calcining the washed material.

2,315,025
ELECTRIC POCKET LAMP
Samuel Daniel Sullam, London, England
Application July 7, 1941, Serial No. 401,313
In Great Britain August 19, 1940
1 Claim. (Cl. 240—10.66)

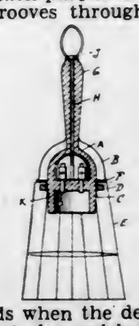


Pocket electric torch casing moulded complete in two equal longitudinal half sections, interengaging tongues and grooves for the longitudinal edges of said casings, the two sections being firmly held together by a single screw cap, a half base portion integral with each section, an inwardly facing upstanding rim on each half base, a recessed plate within said casing supporting a battery contact spring and having a rearwardly facing flange portion extending rearwardly of said plate and engaging the outer periphery of said upstanding rims which by the pressure exerted when a battery is inserted, is caused to cooperate with the said rims to hold the base portions together, a lens, reflector and bulb being housed in the single screw cap, a longitudinal groove in one half section and switch mechanism located within said latter groove to make and break the electrical circuit between battery and bulb.

2,315,026
ELECTRIC HAND LAMP AND THE LIKE
Samuel Daniel Sullam, London, England
Application August 4, 1941, Serial No. 405,348
In Great Britain July 3, 1941
1 Claim. (Cl. 240—54)
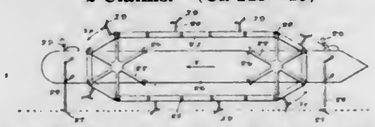
An inspection hand lamp for electric lamps comprising a casing moulded in two longitudinal sections, a flange with flared end on each section, a screw thread on each section below the flange and a screw-threaded ring abutting against said flange to engage the screw threads on the casing and secure the two parts thereof firmly together, a terminal on the internal surface of each casing part to receive the electric leads, an upper extension of each casing part to form a handle, a screw-threaded outer end for said handle, a fastening ring engaging said screw-thread and

forming suspension means for the lamp, a lateral bridge piece for each part of the casing to house the terminals, grooves through the handle for



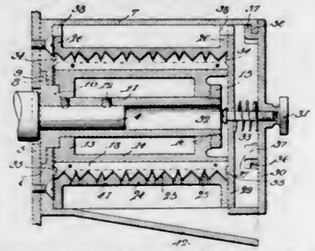
gripping the leads when the device is assembled and a lamp guard clamped between the screw-threaded ring and the flared ends of the flange on each section.

2,315,027
HYDROCAR OR VEHICLE WITH WATER WING WHEELS
Helge S. Svenson, Villavicencio, Colombia
Application August 18, 1941, Serial No. 407,365
In Sweden October 12, 1938
2 Claims. (Cl. 115—19)



1. In a vehicle, for travelling or rolling on water including a body and normally in support by buoyant forces, propulsion and supporting means comprising thin streamlined immersed water wings moved relatively to the water with a small angle of incidence, said wings being freely exposed on all sides to the reactive forces from the water in immersed position and having a relation between span and width larger than one, motion transmission means connected to the water wings, and other water wings disconnected from the transmission means, and movable supports connecting said other water wings to said body, said supports permitting said other water wings to be immersed below the water surface or lifted above the water surface, said wings when immersed increasing the stability and carrying capacity of said body when starting, stopping, or running at low speed.

2,315,028
JUICE EXTRACTING MACHINE
Matthew J. Thomas, Los Angeles, Calif.
Application October 27, 1941, Serial No. 416,710
5 Claims. (Cl. 146—76)

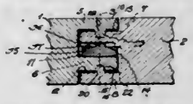


1. A grinding machine for food products, comprising a cylindrical casing, a rotary cutter including a drum mounted in the casing, toothed blades secured to and extending longitudinally of the drum, means for rotating the drum, removable means fixed in the casing in surrounding relation to the drum and provided with circumferentially arranged grooves for the teeth to travel therein, said grooves being shaped to fit the teeth and disposed in close proximity thereto, a hopper for receiving and directing the products to the rotary cutter, said fixed means having perforations in the lower portion thereof, an outlet trough for juice and secured to and extending longtiudinally of the bottom of the casing to underlie the perforations, said trough increasing in depth toward its outlet end, and outlet means for pulp.

2,315,029
WATER-REPELLENT SURFACING FOR CEMENT
Robert G. Wetton, Haddonfield, N. J., assignor to Keasbey & Mattison Company, Ambler, Pa., a corporation of Pennsylvania
No Drawing. Application July 27, 1940, Serial No. 348,017
8 Claims. (Cl. 106—243)

4. The combination with a body of porous cement of an adherent surface film thereon formed of a plurality of ingredients blended to give a homogeneous coating of plastic waxy consistency maintaining its continuity so as to protect the entire surface coated and comprising a mixture of a larger proportion of a water-repellent metallic soap of a higher fatty acid and a lesser proportion, 10 to 40%, of an organic ester of a higher fatty acid, said ester being derived from a monohydric or polyhydric alcohol with from two to approximately fifteen carbon atoms and said ingredients being substantially insoluble in water.

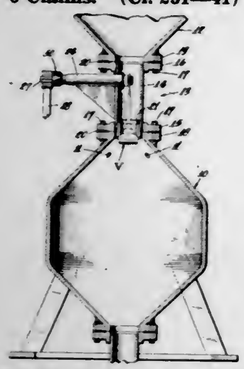
2,315,030
HINGED CONNECTION, MORE PARTICULARLY FOR BINOCULAR OPTICAL INSTRUMENTS
Philip Charles Antoine Whitechurch, Neuilly-sur-Seine, France; vested in the Alien Property Custodian
Application January 16, 1941, Serial No. 374,742
In France January 23, 1940
3 Claims. (Cl. 88—34)



1. A hinged connection between two pieces and more particularly between the two casings of a binocular telescope including two pairs of arms, one of said pairs being carried by one of said pieces and the other pair by the other piece, the two arms of each pair being arranged opposite each other and spaced in a direction parallel with the pivotal axis of the connection, a projection part rigid with one arm of each pair and projecting inside the space formed between the arms of the pair from the surface of said last named arm facing the other arm of the pair, a recess provided in the other arm of each pair in the surface of the arm opposite the surface of the same arm limiting the space between the two arms of the pair, the said projections and recesses being laterally limited by similar surfaces of revolution about the pivotal axis of the connection, the projection and recess of one

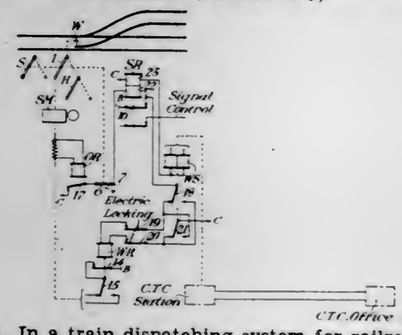
pair of arms being shaped like the recess and projection of the other pair of arms and being removably engaged in each other and means for axially maintaining the pairs in the engaged position.

2,315,031
VALVE MEANS
Edwin L. Wiegand, Pittsburgh, Pa.
Original application December 7, 1939, Serial No. 308,002. Divided and this application November 2, 1940, Serial No. 364,073
6 Claims. (Cl. 251—41)



1. In combination: housing means; valve operating means disposed in said housing means; elongated support means carried by said housing means and extending through a wall of said housing means; an operating shaft, for said valve operating means, extending through said support means into said housing means and having a free inner end spaced from the inside wall of said housing; said support means having a counterbore, larger than said shaft, extending from the outer end of said support means to near its inner end and leaving an internal shoulder near said inner end; an elongated tubular member disposed within said counterbore and surrounding said shaft to serve as a bearing surface therefor; packing between the inner end of said tubular member and said shoulder; and means for forcing said tubular member against said packing.

2,315,032
CONTROL APPARATUS
Henry S. Young, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application November 26, 1941, Serial No. 420,487
8 Claims. (Cl. 246—219)



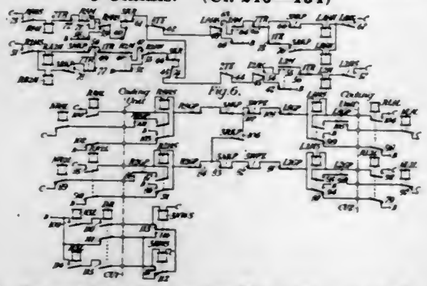
1. In a train dispatching system for railroads, the combination with, a dispatcher's office, a track switch located at a remote point, and a switch machine provided with a dual selector operable to one position for conditioning said switch for manual operation and to another position for conditioning said switch for operation by said machine, of a stick relay normally energized over a stick circuit including its own front contact and governed by a contact operated by said dual selector and closed only when said selector is in its said other position, a control relay of the polar stick type capable when deenergized of maintaining its polar contact in its last operated position, a communication system extending from said dispatcher's office to said remote point and capable of positioning the armature of said control relay by energy momentarily applied in response to a control transmitted by said system, a pick-up circuit for said stick relay including a winding of said relay connected in series circuit with a winding of said control relay, and circuit means for causing said switch machine to operate said switch to a position in agreement with the polar armature of said control relay provided that said stick relay is picked up.

2,315,033
CORNICE FOR WINDOWS
James E. Adair, Chicago, Ill., assignor to Colorgraphic Incorporated, a corporation of Illinois
Application December 16, 1942, Serial No. 469,271
2 Claims. (Cl. 160—39)



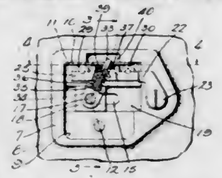
1. A device of the character described composed of cardboard, comprising a flat sleeve-like center section, two long board-like end sections adapted to be entered into opposite ends of the center section and be frictionally held therein, a tongue on the rear side of the center section for attachment to a supporting surface, said tongue being slit part way through the same from the outer side on parallel transverse lines toward the free end.

2,315,034
RAILWAY TRAFFIC CONTROLLING APPARATUS
Earl M. Allen, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application July 31, 1941, Serial No. 404,763
5 Claims. (Cl. 246—134)



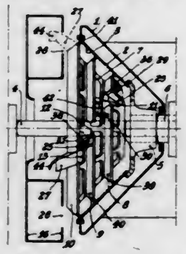
1. In combination, a traffic route over which traffic may move in either direction, a signal at each end of the route to govern traffic over the route, a route relay for each end of the route effective when picked up to control the signal associated with the same end of the route to a proceed position, a signal repeater relay for each signal and picked up when the associated signal is at stop and released when the signal is at proceed, a manually controlled means for each end of the route and each of which means is operable to a normal condition and to an operated condition; a pick-up circuit for each route relay and each of which pick-up circuits includes a contact closed at the operated condition of the manually controlled means for the same end of the route as the route relay, a front contact of each of the signal repeater relays and a contact closed at the normal condition of the manually controlled means for the other end of the route; and a stick circuit for each route relay and each of which stick circuits includes a back contact of the signal repeater relay for the signal associated with the same end of the route as the route relay and a contact closed at the normal condition of the manually controlled means for the same end of the route.

2,315,035
ELECTRIC SWITCH
Mathew Andis, Racine, Wis., assignor to Andis Clipper Company, Racine, Wis., a corporation of Wisconsin
Application July 19, 1941, Serial No. 403,179
12 Claims. (Cl. 200—67)



1. In a switch, the combination with a fixed contact, of a carriage guideway, a wheeled carriage substantially rectilinearly reciprocable on the guideway to and from the contact, an actuator guideway approximately parallel to the carriage guideway, an actuator reciprocable upon the actuator guideway, supporting means carrying said guideways and providing an insulated mounting for said contact, and a thrust link mechanism between the actuator and the carriage reversible as to its angle of thrust upon the carriage according to the position of the actuator for impelling the carriage to and from the contact with snap motion.

2,315,036
CENTRIFUGAL HYDRO-EXTRACTOR
Armand Bailly, Brussels, Belgium; vested in the Alien Property Custodian
Application February 8, 1940, Serial No. 317,942
In Belgium February 8, 1939
8 Claims. (Cl. 210—169)

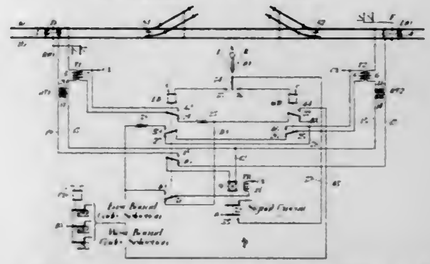


1. In a centrifugal extractor, the combination with a conical basket having a screen, of a conical drum within and axially alined with said basket and having circumferential webs projecting in direction towards the basket, means for rotating the drum and basket at relatively different speeds, the annular webs on the drum being provided with gaps which are circumferentially offset from each other, circumferential ribs on the screen of the basket projecting in direction towards the webs and in close opposition thereto whereby annular compartments are provided between said webs, ribs, drum and basket respectively, means for supplying the material to be treated between the drum and the basket, and means for directing jets of liquid against the gaps only of the drum, whereby the material in the annular compartments is flowed through said gaps.

2,315,037
CHLORINATION OF PROPYLENE POLYMERS TO GIVE RESINS
Lewis A. Bannon, Roselle, N. J., assignor, by mesne assignments, to Jasco, Incorporated, a corporation of Louisiana
No Drawing. Application October 7, 1939, Serial No. 298,404
7 Claims. (Cl. 260—94)

1. In a method of preparing a solid thermoplastic resin from a resin prepared by polymerizing propylene at a temperature from 0° C. to —110° C. by the application thereto of a Friedel-Crafts type catalyst to yield an oily polymer of propylene, the step of chlorinating the oily polymer to produce a solid thermoplastic resin containing a substantial percentage of chlorine.

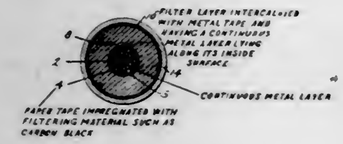
2,315,038
RAILWAY TRAFFIC CONTROLLING APPARATUS
George W. Baughman, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application August 16, 1941, Serial No. 407,186
8 Claims. (Cl. 246—22)



1. In combination, a section of railway track, a first and a second track transformer having their secondary windings connected across the rails at a first and a second end of said section respectively, a track relay, a source of coded alternating current, a first and a second directional relay, circuit means including contacts of said first and second directional relays to connect said coded alternating current source to the primary winding of said first transformer and the track relay across the rails at said second end of the section when said first directional relay is released and said second directional relay is picked up and to connect said coded alternating current source to the primary winding of said second transformer and said track relay across the rails at said first end of the section when the first directional relay is picked up and the second direc-

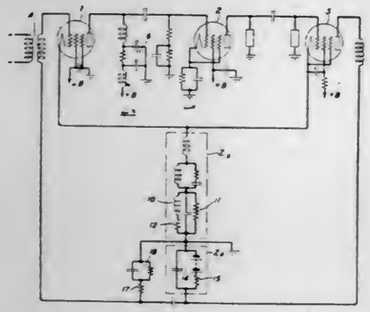
tional relay is released, and means including a back contact of said track relay and contacts of a multiple position circuit controller to energize either the first or the second directional relay.

2,315,039
ELECTRIC CABLE
Harry L. Beede, Fort Lee, N. J., assignor to The Okonite-Callender Cable Company, Incorporated, Paterson, N. J., a corporation of New Jersey
Application October 3, 1941, Serial No. 413,445
4 Claims. (Cl. 174—14)



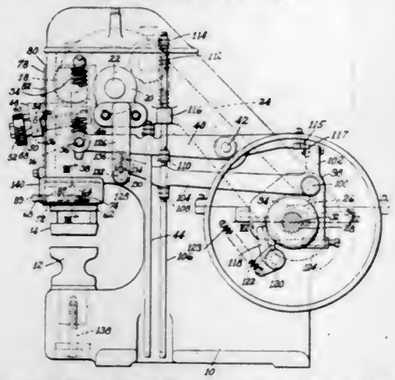
1. An electric cable impregnated with an insulating fluid, said cable comprising in combination a conductor which is of such nature as to contaminate insulating fluid contacting the same, a composite tape, comprising a layer of filtering medium and a continuous layer of metal which is inert with respect to the said insulating fluid, wrapped helically about the conductor with the metal layer facing outwardly of the cable, insulating material, which is pervious to and impregnated with the insulating fluid, applied about the said composite tape, and an enclosing outer metal sheath, whereby in order that the insulating fluid of the cable which has contacted the cable conductor may move into the said fluid impregnated insulating material it must move lengthwise of the cable through the said filtering layer and about the edges of adjacent wraps of the said composite tape.

2,315,040
ELECTRIC WAVE AMPLIFICATION
Hendrik W. Bode, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 28, 1940, Serial No. 372,073
14 Claims. (Cl. 179—171)



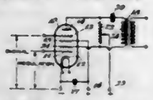
1. An electric wave amplifier comprising a plurality of amplifying stages and a plurality of feedback circuits embracing a plurality of said stages, said feedback circuits providing stabilizing feedback of respectively different types and each being so proportioned as to be principally effective in a respective portion of the frequency spectrum.

2,315,041
PERFORATING MACHINE PROVIDED WITH CLUTCH CONTROL MECHANISMS
Hubert Boothroyd, Leicester, England, assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Original application January 25, 1940, Serial No. 315,505, now Patent No. 2,257,087, dated September 30, 1941. Divided and this application March 28, 1941, Serial No. 385,604. In Great Britain February 17, 1939
1 Claim. (Cl. 164—105)



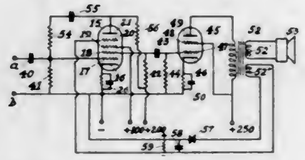
A perforating machine comprising a work support, a die mounted for movement heightwise of the support, a pulley, a drive shaft, a clutch for connecting the drive shaft to the pulley, connections between the shaft and die for moving the die toward the work support, a clutch control lever, a treadle rod operatively connected to the control lever for initiating operation of the clutch, means operable upon release of the treadle rod after initiating a clutch operation to move the control lever into position to disengage the clutch after a single revolution of the shaft, a clutch release lever normally operative to disengage the clutch after power-operation of the die upon the work, and means carried by the control lever to render the clutch release lever inoperative to disengage the clutch after release of the treadle rod.

2,315,042
AUTOMATIC ELECTRONIC CONTROL SYSTEM
Heinz Boucke, Berlin-Charlottenburg, Germany, assignor, by mesne assignments, to Patents Research Corporation, New York, N. Y., a corporation of New York
Application January 11, 1939, Serial No. 250,315
In Germany January 6, 1938
9 Claims. (Cl. 179—171)



6. In an amplifier including an electron discharge tube provided with a cathode, a main anode, a compensation anode, a signal control grid and an amplification control grid, an input circuit connected between said signal control grid and said cathode, a common output circuit for said main and compensation anodes, means for applying control potential to said amplification control, further means including circuit connections from said main and compensation anodes to said output circuit for balancing the output currents due to potential variations on said amplification control grid, and means for substantially preventing said signal control grid from affecting the current to said compensation anode.

2,315,043
ELECTRIC AMPLIFIER SYSTEM
Heinz Boucke, Berlin-Charlottenburg, Germany, assignor, by mesne assignments, to Patents Research Corporation, New York, N. Y., a corporation of New York
Application March 29, 1940, Serial No. 326,639
In Germany March 27, 1939
12 Claims. (Cl. 179—171)



1. In an amplifier, an amplifying valve comprising cathode, signal control, main anode, auxiliary anode, and regulation electrodes, space current supply means for said anodes, said electrodes being relatively arranged so that said signal control electrode is effective in controlling the space current to both said anodes and said regulation electrode is effective in controlling the space current to said auxiliary anode only, signal input and output circuits operatively connected to said signal control electrode and said main anode, respectively, and feedback circuit means between the auxiliary anode and said input circuit.

2,315,044
HANDLING ACID SLUDGE
David W. Bransky, Chicago, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
No Drawing. Application June 26, 1940, Serial No. 342,421
7 Claims. (Cl. 137—78)

1. The method of conditioning heavy viscous substantially unpumpable sulfuric acid sludge to facilitate the pumping thereof, said sulfuric acid sludge being obtained from the sulfuric acid treatment of a petroleum oil, comprising mixing said sulfuric acid sludge with a carrier sulfuric acid in sufficient quantity to render the sulfuric acid sludge pumpable, the carrier sulfuric acid having a strength weaker than the sulfuric acid used in the process from which the sulfuric acid sludge is obtained and stronger than that which would cause hydrolysis of the sulfuric acid sludge, and then pumping the mixture of sludge and acid to the desired location.

2,315,045
METAL DETECTION DEVICE
Victor W. Breitenstein, Chicago, Ill., assignor to Illinois Testing Laboratories, Inc., Chicago, Ill., a corporation of Illinois
Application October 9, 1939, Serial No. 298,728
4 Claims. (Cl. 177—311)

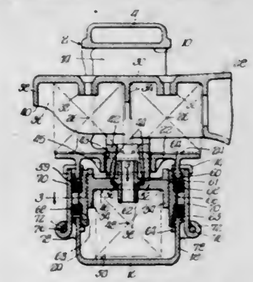


3. In a metal detector unit, the combination of a tubular permanent magnet with a non-magnetic tubular member, and pole pieces of magnetic material carried by said non-magnetic tubular member for engaging said permanent magnet to form a housing, a plurality of insulated turns of wire about said non-magnetic tubular member in said housing, said non-magnetic tubular member having an obliquely extending partition for causing a lateral displacement of particles of magnetic metal passing through said latter metal member, to give a better indication of the presence of magnetic metal.

2,315,046
PRODUCTION OF KETONES
Alva C. Byrns, Palos Verdes Estates, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California
No Drawing. Application March 5, 1940, Serial No. 322,341
7 Claims. (Cl. 260—593)

1. A method for the production of ketones which comprises reacting an olefin with an organic acid anhydride in the presence of anhydrous zinc chloride.

2,315,047
TRUCK
Robert B. Cottrell, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application January 15, 1941, Serial No. 374,419
16 Claims. (Cl. 105—197)



9. In a railway car truck, a side frame having tension and compression members and a central bolster opening, spring seats on spaced webs of said tension member, springs thereon, spring caps on certain of said springs, a bolster projecting into said bolster opening with means engaging said spring caps, each of said spring caps having cooperative engagement with friction means at opposite sides of each cap, each of said friction means comprising a panel mounted on a wall of said tension member, a friction shoe in engagement therewith, and resilient means between said shoe and the adjacent cap, each of said friction shoes being operable by the adjacent spring cap and having guiding engagement with the adjacent panel.

2,315,048
FISHING FLOAT
Kenneth C. Croft, Dayton, Ohio
Application January 10, 1941, Serial No. 373,893
3 Claims. (Cl. 43—49)

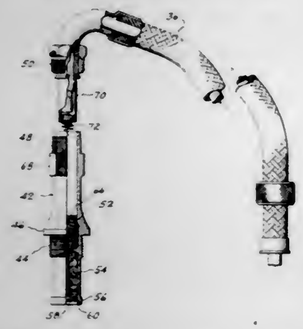
1. A float of the character described, including a body of buoyant material, a central longitudinally extending bore in said body, a slot extending radially from said bore to the periphery of said body, a tubular insert secured in said bore, a longitudinally extending slot in said insert in registry with the slot in said body, a pin rotatably

mounted in said insert, and a longitudinally extending groove in said pin adapted to selectively



register with the slots in said insert and said body.

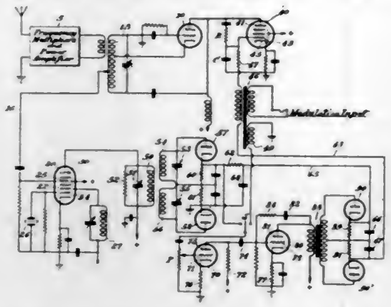
2,315,049
COMBINED WIRE SUPPORT AND CORROSION INHIBITOR
Val Cronstedt, East Hartford, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application August 22, 1940, Serial No. 353,614
14 Claims. (Cl. 123—198)



1. A device for maintaining the air in an engine cylinder in a substantially moisture free condition and for protecting an ignition cable terminal comprising, an elongated tubular member having a chamber for desiccating material in one end thereof and a receptacle for an ignition cable terminal in the opposite end thereof.

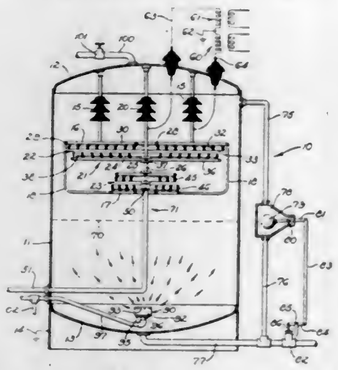
2,315,050
FREQUENCY MODULATION SYSTEM
Murray G. Crosby, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application September 26, 1940, Serial No. 358,385
9 Claims. (Cl. 250—6)

1. In a wave length modulation system in combination, means for generating wave energy to be modulated comprising, an electron discharge device including electrodes connected in oscillation generating circuits, a reactance tube coupled to said generating circuits to control the frequency of the wave energy generated, a source of signal voltages having unlike alterations with respect to a base voltage, connections between said last-named source and said reactance tube for controlling the gain of said reactance tube by said signal voltages to thereby modulate the length of the waves generated, a frequency stabilizing circuit including said reactance tube for opposing slow variations in the mean frequency of said generated waves, and a wave peak rectifier having an input coupled to said last-named source and an output coupled to said reactance tube for controlling the gain of said reactance tube in accord-



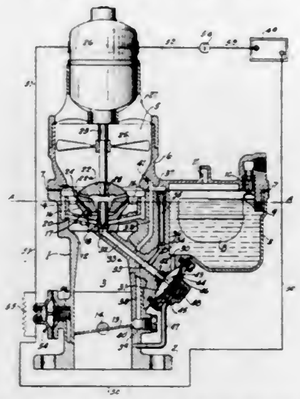
ance with non-symmetrical alterations of the said signal voltage with respect to said base voltage to thereby confine said wave length variations of said generated waves within an assigned spectrum without reducing the degree of modulation.

2,315,051
ELECTRICAL TREATER METHOD
Harold C. Eddy, Los Angeles, Calif., assignor, by mesne assignments, to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware
Application February 28, 1938, Serial No. 192,957
10 Claims. (Cl. 204—190)



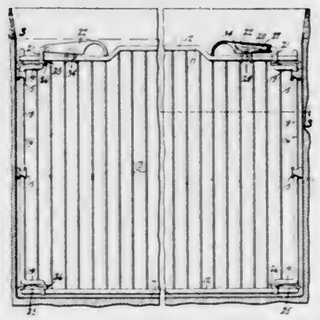
1. A process for treating water-in-oil dispersions comprising: subjecting the dispersion to the action of a coalescing electric field and to a gravitational separating action, thereby causing the dispersed water particles to settle from the treated dispersion; subjecting the settling water particles to the action of a second coalescing electric field to further coalesce said settling water particles prior to their complete coalescence; maintaining a body of separated water in which the further coalesced water particles completely coalesce adjacent the second electric field, said further coalesced particles tending to carry oil droplets into said body of separated water; and introducing a substantially oil-free aqueous medium in an upward direction into said body of separated water to sweep entrained oil droplets back toward the second electric field to bring the oil of said droplets into a zone of influence of this field.

2,315,052
CARBURETOR
George R. Ericson, Kirkwood, Mo., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware
Application June 11, 1940, Serial No. 339,906
8 Claims. (Cl. 261—83)



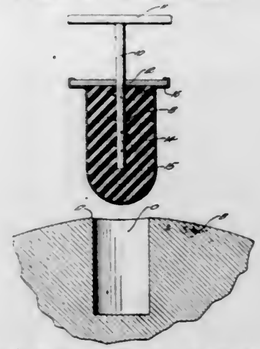
1. In a carburetor having a mixture passageway, a throttle valve for controlling the outlet of said passageway, a constant level fuel chamber, an electrically driven centrifuge device in said mixture passageway receiving fuel from said fuel chamber and discharging into said mixture passageway transversely to the direction of flow therethrough, a control circuit for said centrifuge comprising a switch device responsive to vacuum in said mixture passageway posterior to said throttle for varying the speed of said centrifuge.

2,315,053
SHELF, ESPECIALLY FOR REFRIGERATORS
Robert Lay Hallock, Larchmont, N. Y.
Application June 13, 1940, Serial No. 340,271
9 Claims. (Cl. 211—153)



1. A shelf organization including a shelf slab having a horizontal part and vertical side members, means for supporting the shelf slab at different elevations including a side wall and an element pivotally mounted on said side wall so as to be turnable from a vertical position to a horizontal position, and a latch pivoted on said element and adapted to hook over said horizontal part when such turnable element is in its horizontal position, and to hook over one of said side members when said turnable element is in its vertical position.

2,315,054
FINGER GRIP WIPER FOR BOWLING BALLS
William E. Heber, Wilmington, Calif.
Application October 27, 1941, Serial No. 416,660
1 Claim. (Cl. 15—210)



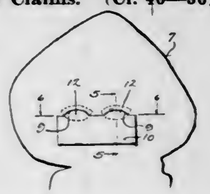
A fingergrip wiper for bowling balls comprising a stem, means for rotating said stem, a disc on said stem intermediate the ends thereof, a cylindrically shaped mass of compressible sponge rubber surrounding the stem adjacent said disc, said sponge rubber being slightly greater in diameter than the diameter of the finger-receiving recess of a bowling ball, and a cover for said sponge rubber extending around both the sponge rubber and the edge of the disc, the bottom of the stem terminating above the bottom of the sponge rubber and the bottom of the sponge rubber being hemispherically shaped.

2,315,055
SCREEN CLOTH
Richard D. Heller, Columbus, Ohio
Original application July 19, 1940, Serial No. 346,342. Divided and this application May 23, 1941, Serial No. 394,846
12 Claims. (Cl. 209—400)



11. A screen cloth comprising the combination with a plurality of parallel strands of wire, of attached end bars, and a cross-strip on one side only of the screen cloth and formed of a plurality of parallel strands of wire each having a cylindrical surface and soldered to each other and to said first-named parallel strands to extend transversely of the latter on said one side of the screen cloth.

2,315,056
PAPER DOLL OR THE LIKE
Queen Holden, Forest Hills, N. Y., assignor to Western Printing & Lithographing Company, Racine, Wis., a corporation of Wisconsin
Application October 9, 1942, Serial No. 461,430
17 Claims. (Cl. 46—36)



1. A paper doll or the like comprising a mount-

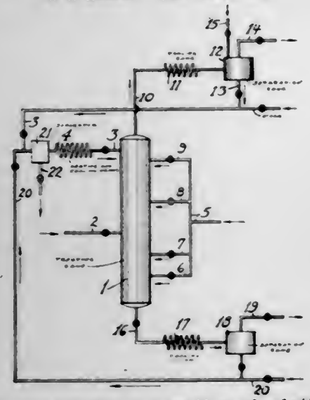
ing member and a tab pivoted upon the mounting member for movement with respect thereto between extreme positions in which opposite faces of the tab are exposed to view, the mounting member and the tab together providing an image wherein the opposite faces of the tab illustrate image portions in different positions.

2,315,057

SOLVENT TREATING PROCESS

August Holmes, Cranford, and Henry J. Hibshman, Plainfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application April 12, 1941, Serial No. 388,198
6 Claims. (Cl. 196—13)



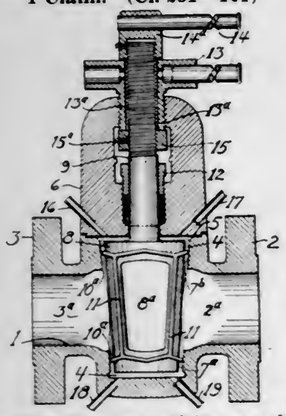
1. Process for the segregation of relatively more aromatic type constituents from relatively more paraffinic type constituents, which comprises contacting a feed oil with a solvent comprising liquid sulfur under conditions to dissolve the relatively more aromatic type constituents in the solvent and under conditions to form two phases, separating the respective phases and removing the sulfur therefrom.

2,315,058

PLUG COCK FOR HANDLING POWDERED MATERIALS

Philetus H. Holt, 2nd, Summit, and Howard G. Codet, Scotch Plains, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application April 12, 1940, Serial No. 329,208
1 Claim. (Cl. 251—101)



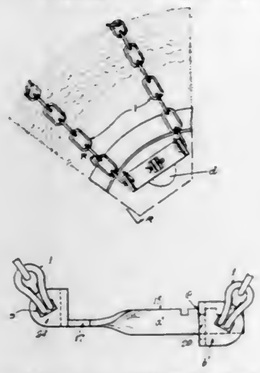
A valve structure, comprising a valve body, a valve chamber in said body, a valve plug in said chamber disposed in annularly spaced relation to the chamber walls, upper and lower sinuous annular rib portions at the upper and lower ends respectively of said plug, and longitudinal rib portions disposed in spaced relation peripherally of the plug connecting said upper and lower annular ribs, said rib portions engaging the chamber walls in fluid-tight relation when the plug is seated.

2,315,059

LOCKING ARRANGEMENT IN SECURING SKID CHAINS TO WHEELS

John F. Kane, Fall River, Mass., assignor to James T. Kane and himself, Fall River, and James H. Kane, Boston, Mass., copartners doing business under the firm name of Kane Chain Company, Fall River, Mass.

Application April 12, 1940, Serial No. 329,336
7 Claims. (Cl. 152—237)



1. In combination with a skid chain assembly for a disc wheel with spaced circumferential openings, a locking member comprising a flange extension having opposite parallel sides shaped to snugly fit said disc opening upon insertion therein, with a projecting vertical leg fastened to the inner end of said chain assembly and an elongated tongue with spaced openings, a receiving member comprising a vertical leg extending outwardly at its ends for fastening to the outer end of said chain assembly, oppositely spaced outstanding ears bounding a central aperture for receiving said elongated tongue and a fastening means inserted through said ears and tongue for adjustably engaging and holding said tongue in adjusted position.

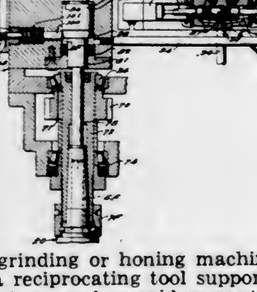
2,315,060

TRACTION CHAIN FASTENING DEVICE

John F. Kane, Fall River, Mass., assignor to James T. Kane and himself, Fall River, and James H. Kane, Boston, Mass., copartners doing business under the firm name of Kane Chain Company, Fall River, Mass.

Application July 21, 1941, Serial No. 403,279
13 Claims. (Cl. 152—237)

1. In combination with a traction chain assembly for a disc wheel with spaced circumferential openings, a locking means comprising a flange extension having opposite rectilinear sides engageable with the side walls of one of said openings upon insertion therein having, an element engaging the inner faces of the disc and rim and connecting to said chain assembly and an indented tongue with attached spring, a receiving means comprising an angular member fastened to said chain assembly, with an aperture for receiving said tongue and spring and means for adjustably engaging said tongue with



said receiving member and for retaining said members in engagement when the assembly is in adjusted position.

2,315,061

PROTECTIVE COMPOSITION OF MATTER FOR USERS OF X-RAYS

Emory O. King, Kansas City, Kans., assignor of one-third to Jack C. Booher and one-third to Willa W. Daywalt, both of Kansas City, Mo.

No Drawing. Application May 26, 1941, Serial No. 395,242
2 Claims. (Cl. 250—108)

1. A protective composition impervious to X-rays comprising a body of flexible material; and a mixture composed of ten (10) parts lead monoxide, two (2) parts barium sulphate, and one (1) part bismuth oxychloride, evenly dispersed throughout said body.

2,315,062

METHOD AND MEANS FOR CONTROLLING HONING OPERATION BY EXPANSION

John E. Kline, Grosse Pointe Farms, Mich., assignor to Micromatic Hone Corporation, Detroit, Mich., a corporation of Michigan

Application February 18, 1939, Serial No. 257,088
10 Claims. (Cl. 51—184.3)

1. In a grinding or honing machine, in combination, a reciprocating tool support, a spindle journaled at one end on said support and adapted to carry on its other end an expansible and contractable abrading tool, tool adjusting means on said support including expansible and contractable fluid pressure responsive means for expanding and contracting the abrading tool, a source of pressure fluid for said fluid pressure responsive means, valve means for directing pressure fluid from said source selectively into either end of said fluid pressure responsive means selectively to expand or contract the abrading tool, and means operable in response to a predetermined expansive movement of said fluid pressure responsive means for operating said valve means.

2,315,063

ADDITION AGENT FOR LUBRICATING OILS

Eugene Lieber, Staten Island, N. Y., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application June 21, 1939, Serial No. 280,263
10 Claims. (Cl. 252—52)

10. A lubricant comprising a major proportion of a lubricating oil and a small amount of a high molecular weight polyketone having the general formula:

$$R'\left(-\overset{O}{\overset{\|}{C}}-R-\right)_m\left(-\overset{O}{\overset{\|}{C}}-(R'')_n-\overset{O}{\overset{\|}{C}}-\right)_{m'}-R-\overset{O}{\overset{\|}{C}}-R'$$

in which R is an aromatic group, R' is an alkyl group, R'' is either an alkylene or arylene group, m and m' are either 0 or 1 and n is a small integer of at least 1.

2,315,064

METHOD OF PROTECTING CELLULOSIC MATERIALS

Edwin R. Littmann, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application June 13, 1941, Serial No. 397,937
17 Claims. (Cl. 167—38.6)

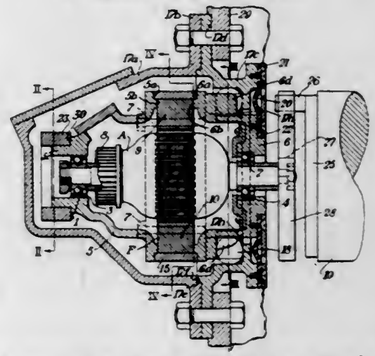
1. The method of protecting a cellulosic material from deterioration which comprises treating the same with a composition comprising a hydrocarbon oil base, a protective agent soluble therein and a small amount of a penetration assistant comprising zinc naphthenate.

2,315,065

DYNAMOELECTRIC MACHINE AND MOUNTING MEANS THEREFOR

John W. Livingston, Forest Hills, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania

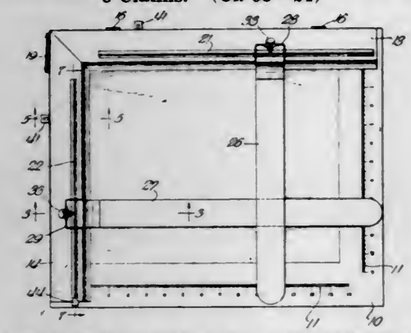
Application June 19, 1941, Serial No. 398,784
3 Claims. (Cl. 105—96.1)



1. A mounting for resiliently securing a generator to the axle housing of a railway vehicle in axial alignment with one end of the vehicle axle, comprising a housing secured to the axle housing in concentric relation to the axle in the normal position of the latter and enclosing the generator with clearance, a casting secured to the outer end of the generator and provided with projections which cooperate with projections on said housing to form pockets substantially cubical in form, other projections formed on the generator at its inner end and cooperating with still other projections on said housing to form other

pockets which are roughly cubical in form, and rubber balls disposed in said pockets under some initial compression which is insufficient to distort the balls to the point where they completely fill the pockets, said balls and pockets being arranged to resist movement of the generator in all directions from the position in which the generator shaft aligns axially with the axle.

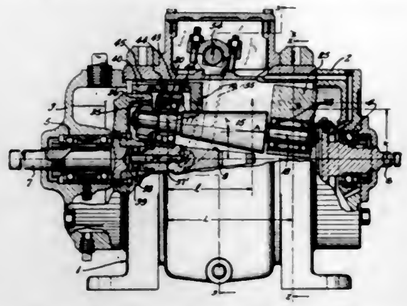
2,315,066
ENLARGING EASEL
Frank M. Lund, Chicago, Ill., assignor of fifty per cent to Harvey M. Pushker, Chicago, Ill.
Application August 4, 1940, Serial No. 351,407
8 Claims. (Cl. 88—24)



1. In a photographic easel, a generally rectangular base member, a marginal frame lying against the base member and pivoted along one edge thereof, non-circular guide rails at right angles to each other carried by and above the marginal frame, straight edge masking panels lying flat against the said base, each being unsupported at one end and having at another end a bracket with a pair of side members provided with openings through which one of said guide rails passes, and screw fastening means threaded in each bracket and engageable against the associated guide rail, whereby to wedge those portions of said side members contiguous to the said openings against the guide rail for securing the associated masking panel in set position, the parts being so constructed and arranged that said guide rails are relatively loose in said openings in the side members of said bracket, but when said fastening means are tightened the masking panels will be held rigidly at right angles to each other and at right angles to the guide rails to which they are secured.

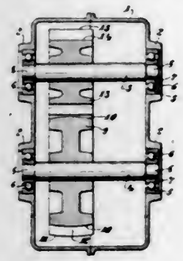
2,315,067
VARIABLE SPEED TRANSMISSION
Alain M. Madlé, Milwaukee, Wis., assignor to Graham Transmissions Inc., Milwaukee, Wis., a corporation of Delaware
Application September 22, 1941, Serial No. 411,844
6 Claims. (Cl. 74—281)

1. A variable speed transmission of the character described comprising a rotary carrier, an axially movable control ring, a plurality of inclined conical planetary rollers, a bearing supporting the small end of each roller on the carrier for rotation therewith and with respect thereto and for rocking movement into pressure contact with said ring, said carrier having a radial guideway adjacent the large ends of the rollers, a bearing for the large end of each roller, a bearing block carrying each of said last-named bearings and fitted for radial sliding movement in the adjacent radial guideway, and means utilizing centrifugal force to develop pressure contact between said rollers and said ring, and including a non-planetary weight fixed to each of



said bearing blocks, and constituted to provide a centrifugal effect greater than that of the planetary rollers.

2,315,068
CONVEX FACED GEAR
Joseph L. Matthews, Highland Park, N. J., assignor to Mack Manufacturing Corporation, Long Island City, N. Y., a corporation of Delaware
Application August 28, 1939, Serial No. 292,181
6 Claims. (Cl. 74—462)



1. A gear adapted to be supported on a shaft in substantial alignment with a mating gear supported on a second shaft which is in substantially fixed space relationship with respect to the first shaft, said first named gear being formed with teeth decreasing in thickness from base to tip and of uniform thickness on a curved generating path line and of non-uniform thickness on a running pitch line such that the tooth thickness on said running pitch line decreases from the center outwardly to form a crown for providing a greater amount of tooth contact when said gears are deflected from true alignment than would be provided by a straight cut gear under similar conditions of operation.

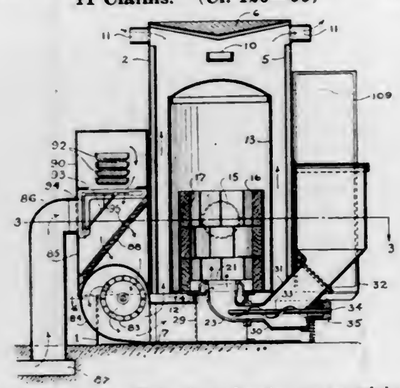
2,315,069
SCRAPER
John H. McKean and Everett K. McKean, Alvin, Tex., assignors to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware
Application April 17, 1940, Serial No. 330,057
4 Claims. (Cl. 166—18)

1. A scraper for removing paraffin deposits and the like from the interior of a conduit, comprising a body portion having a plurality of keyways, an outline cutter mounted in each of said keyways, each of said outline cutters comprising a wire outline cutting head having a cutting edge



formed as a loop and a portion adapted to hold said head yieldingly in cutting position.

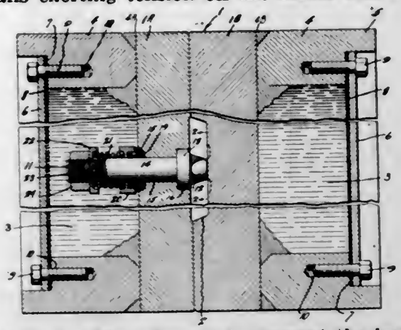
2,315,070
AIR CONDITIONING FURNACE
Hart H. McNaughton, Maryville, Tenn.
Application April 24, 1939, Serial No. 269,802
11 Claims. (Cl. 126—99)



2. An air conditioning heater comprising a chassis having means forming a chamber therein and a top supporting frame, heating means mounted in the chassis chamber, a heating chamber separate from the chassis and mounted on the top supporting frame, a combustion chamber separate from the chassis and mounted on the top supporting frame thereof in enclosing relation around the heating means, and means for securing said chambers to the top supporting frame of the chassis.

2,315,071
MOLD CONSTRUCTION
Henry E. McWane, Lynchburg, Va.
Application April 25, 1941, Serial No. 390,410
8 Claims. (Cl. 22—136)

7. A mold construction comprising a mold body of high heat conductivity having a casting cavity therein, a water jacket for the mold body, a core extending into the casting cavity and provided with a shank which extends through an aperture in the mold body into the water jacket, a compressible packing element surrounding the shank where it enters the water jacket, and spring means exerting tension on the shank and com-

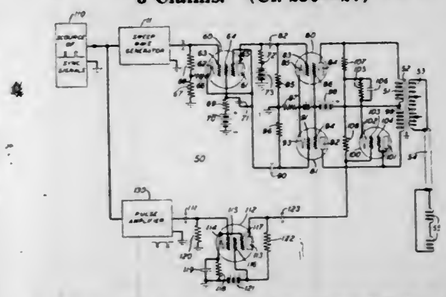


pressible packing element to prevent the leakage of water from the water jacket into the casting cavity.

2,315,072
OXIDATION AND CORROSION INHIBITOR FOR LUBRICATING OILS
Joseph F. Nelson and Raphael Rosen, Elizabeth, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application July 26, 1939, Serial No. 286,566
20 Claims. (Cl. 252—48)

1. Process of improving a high-temperature oxidation inhibitor containing a sulfur family element in a state corrosive to copper and similar metals, which consists in reacting said oxidation inhibitor with modifying reactants comprising a phosphite and an unsaturated aliphatic type compound containing at least 16 carbon atoms per molecule with a ratio of about 15 to 16.7 parts by weight of hydrogen to each 100 parts by weight of carbon, and heating the mixture to an elevated temperature for a sufficient period of time to form a lubricating oil blending agent which avoids corrosion of copper.

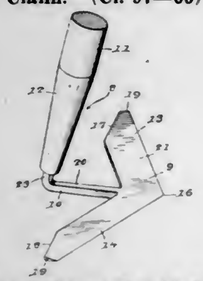
2,315,073
ELECTRIC CIRCUITS
Frank R. Norton, Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 1, 1941, Serial No. 391,377
3 Claims. (Cl. 250—27)



1. In combination, means for generating a succession of electrical pulses spaced in time by a period which is much longer than the period of one of said pulses, means for utilizing said pulses to control the generation of a sweep wave each cycle of which comprises a slowly changing portion and a quickly changing portion, a circuit including an inductance member, means including

a push-pull amplifier having a balanced output circuit for applying said wave to said inductance member, and means for substantially reducing or preventing undesired oscillations through said inductance member due to distributed capacity in the circuit including said inductance member, said last-mentioned means comprising a single high vacuum electron discharge device having electron discharge control means and input and output circuits, means for connecting said inductance member and a current limiting resistance element in the output circuit of said device, means, including a resistance member which is included in both the input and the output circuits of said device and a condenser shunted across said resistance member, for biasing said control means to make said discharge device nonconducting during the time said slowly changing portion of said wave is applied to said inductance member, and means for impressing pulses from said pulse generator upon said control means to make said electron discharge device conducting during the quickly changing portion of each cycle of said sweep wave.

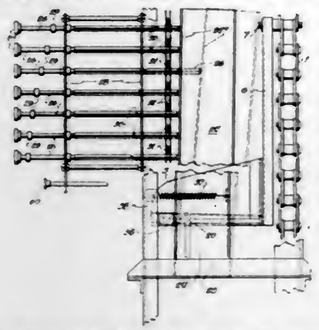
2,315,074
GARDEN IMPLEMENT
Charles A. Olsen, Sioux Falls, S. Dak.
Application October 21, 1940, Serial No. 362,140
1 Claim. (Cl. 97—65)



In a weeding device, a flat blade of approximately V-shaped configuration forming a forwardly protruding center point and rearwardly diverging complementary wing portions, the rear ends of the said wing portions being tapered to form longitudinally directed edges at the outer ends, the front edges of the blade being bevelled at the under side to provide relatively sharp leading edges, an elongated shank extended rearward from the center of the blade having its top edge flush with the flat top face of the blade and having a thickness exceeding that of the blade with the forward portion bevelled to form a blade guiding inclination under the center portion of the blade, an upwardly directed extension at the rear end of the shank, a socket formed on the said extension, and a handle having its lower end secured in the said socket and extending upwardly and at a slight forward inclination with relation to the horizontal plane of the blade.

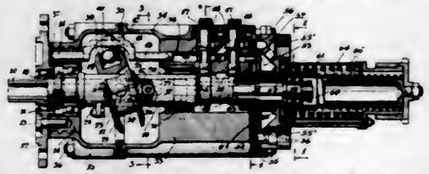
2,315,075
SELECTIVE DELIVERY MECHANISM FOR CONVEYERS
Samuel Olson, Chicago, Ill.
Application February 18, 1941, Serial No. 379,460
15 Claims. (Cl. 214—11)

1. In combination with a conveyer chain, carriers at intervals thereon equipped with trip lugs slidably adjustable transversely of the direction of travel of the chain, a pivotally mounted inclinable cam bar engageable with said lugs and a control panel with a plurality of push rods each operative directly to set the cam bar at a



different angle to effect a desired adjustment of a trip lug as it traverses the cam bar.

2,315,076
PRESSURE APPARATUS
Elias Orshansky, Jr., University Heights, and Benham Sackett Pond, Cleveland, Ohio, assignors to The Acrotorque Company, Cleveland, Ohio, a corporation of Connecticut
Application March 25, 1941, Serial No. 385,056
6 Claims. (Cl. 103—173)

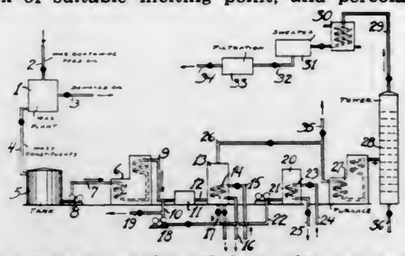


1. A pressure apparatus including in combination, a body provided with a plurality of cylinders, a shaft rotatable with respect to said body, pistons coupled to said shaft and operating within said cylinders, said body being formed with two series of radially extending valve bores communicating with said cylinders, valve assemblies within said bores and comprising bodies and seat members, means forming a part of the same whereby a line seal is provided, an eccentric secured to said shaft and cooperating with said valves to shift the same as said shaft rotates with respect to said body, means responsive to the fluid pressures within said cylinders for varying the amount of travel of said pistons and means tending normally to cause said pistons to have a maximum path of travel whereby a maximum amount of fluid will traverse said cylinders.

2,315,077
METHOD OF TREATING SLACK WAX
Reuben F. Pfennig and Claude R. Davis, Baytown, Tex., assignors to Standard Oil Development Company, a corporation of Delaware
Application August 24, 1940, Serial No. 354,066
10 Claims. (Cl. 196—21)

1. A continuous process for the production of color stable waxes from crude slack wax comprising the steps of subjecting the liquid slack wax to intimate mixing with a liquid anhydrous molten caustic alkali at a temperature above the fusion point of said alkali, separating and removing the liquid treated wax from the alkali, recycling the molten alkali to the wax-alkali mixer, reheating and distilling the liquid slack wax into a suitable fraction under mild thermal conditions,

sweating the resultant distillate to yield a scale wax of suitable melting point, and percolating

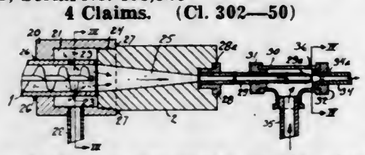


the sweated wax through bone charcoal for the production of the required color.

2,315,078
CONVERSION OF HYDROCARBONS
Herman Pines and Vladimir N. Ipatieff, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application February 20, 1942, Serial No. 431,664
18 Claims. (Cl. 260—666)

1. A process for producing substantial yields of alkyl cyclohexane hydrocarbons from alkyl cyclopentane hydrocarbons which comprises reacting an alkyl cyclopentane hydrocarbon with an olefinic hydrocarbon in the presence of a catalyst consisting essentially of hydrogen fluoride as its active ingredient.

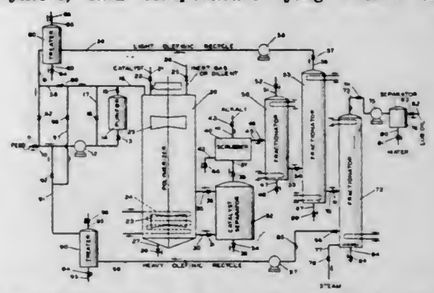
2,315,079
CONVEYING POWDERED MATERIAL
Edward D. Reeves, Cranford, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Original application July 17, 1939, Serial No. 284,892. Divided and this application July 24, 1941, Serial No. 403,826
4 Claims. (Cl. 302—50)



1. In a feeding mechanism of the character described, the combination with an injection means for introducing reactants of a block having a bore extending through said block, said bore being of greatly reduced internal diameter at one end thereof, closure means for closing the end of the bore opposite the end of reduced diameter forming a chamber, a screw conveyor having a casing communicating with said chamber and forming an annular space with said closure means, ports in said casing disposed in close proximity to the discharge end of said conveyor and effecting communication between said annular space and the interior of said casing, a conduit for supplying a gas in communication with said annular space, and a conduit of relatively small internal diameter connecting the chamber with the said injection means.

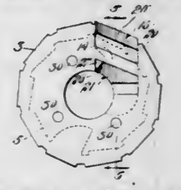
2,315,080
PROCESS FOR MANUFACTURE OF VISCOUS POLYMERS
James A. Reid, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application March 3, 1941, Serial No. 381,565
11 Claims. (Cl. 196—10)

1. A process for the polymerization of olefins to form viscous hydrocarbons within a preselected range of viscosity and adapted for use in the preparation of lubricating oils, comprising reacting an olefin hydrocarbon comprising monomeric olefins in the presence of a metal halide polymerization catalyst under suitable conditions of pressure, temperature and contact time to yield a product containing relatively viscous polymers, said temperature lying within the



range of 30 to 215° F., separating from the catalyst effluent hydrocarbons in said preselected viscosity range, separating also polymers having lower and higher viscosities, and returning said polymers of lower and higher viscosities for reaction with additional amounts of said olefin charge under the original conditions of reaction to form additional material within the selected range of viscosity.

2,315,081
NUMBERING MACHINE
Austin G. Riesenberger, Rockville Centre, N. Y., assignor to Wetter Numbering Machine Co., Brooklyn, N. Y., a corporation of New York
Application May 12, 1942, Serial No. 442,587
4 Claims. (Cl. 101—88)

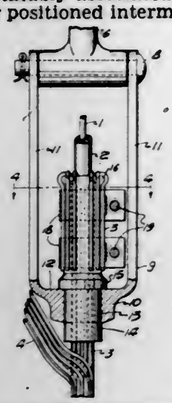


1. In a numbering machine, the combination of a slotted supporting shaft, a numbers-wheel mounted to be rotatable on the shaft and formed with an outwardly directed guideway slot formed at one side with a bar spanning the slot, a movable type block slidably fitted within said guideway slot and having an enlarged groove formed in one side thereof to receive said bar and formed with bearing portions engaging the guideway and the supporting shaft for the full thickness of the wheel and a ratchet secured to the wheel and effective to retain the movable type block in assembled position.

2,315,082
CABLE CLAMP
Charles W. Roberts, East Milton, Mass., assignor to Locke Insulator Corporation, Baltimore, Md., a corporation of Maryland
Application March 16, 1940, Serial No. 324,428
8 Claims. (Cl. 174—43)

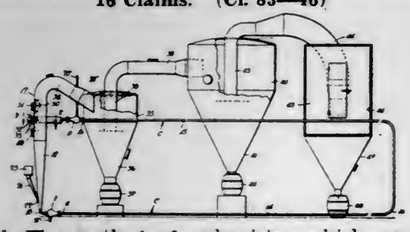
1. A clamp for attaching to a support a cable having an insulated center conductor and an outer armor of interlocking alternate hard wires of high tensile strength and relatively soft wires

of good electrical conductivity, comprising a yoke pivotally connected to said support and having an apertured base portion, a ferrule extending through and rotatably associated with said base portion, a collar positioned intermediate the ends



of said ferrule for limiting its longitudinal movement relative to said yoke in one direction, said ferrule being adapted to receive said armored cable, and means for clamping some of said wires to the exterior of said ferrule intermediate its ends.

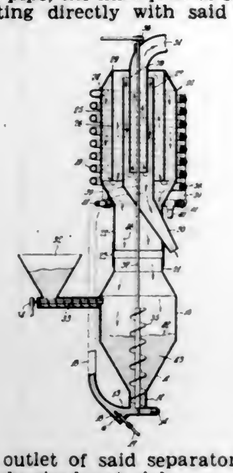
2,315,083
ATTRITION MILL AND METHOD
Isidor Chesler, Oceanport, N. J., assignor to Eagle Pencil Company, New York, N. Y., a corporation of Delaware
Application January 15, 1940, Serial No. 313,876
16 Claims. (Cl. 83—46)



1. The method of pulverizing which consists in propelling stock to be comminuted through an elongated confined course of length hundreds of times its transverse periphery at slow rate, by feeding the material thereinto and simultaneously sucking the material therefrom while maintaining the relative effectiveness of feed and suction such as to maintain the elongated course substantially filled with stock at all times.

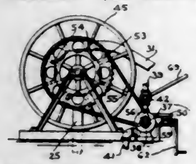
2,315,084
ATTRITION MILL
Isidor Chesler, Oceanport, N. J., assignor to Eagle Pencil Company, New York, N. Y., a corporation of Delaware
Application September 13, 1940, Serial No. 356,611
6 Claims. (Cl. 83—46)

1. An attrition mill unit comprising a supply container for granular material, a separator thereabove, an attrition pipe connected at its lower end to the bottom of said supply container and coiled near its upper end in a plurality of convolutions about said separator and delivering thereinto, means for injecting gas under high pressure both through the lower end of said pipe and through one or more points along the coiled part of said pipe, the inlet part of said separator communicating directly with said supply con-



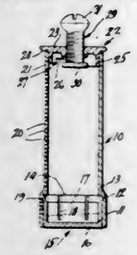
tainer, the outlet of said separator discharging the finely pulverized material.

2,315,085
FLUID DELIVERY APPARATUS
Jack Churchward, New Haven, Conn.
Application April 13, 1940, Serial No. 329,470
11 Claims. (Cl. 221—67)



1. In fluid delivery mechanism a hose having an openable and closable nozzle at one of its ends, a rotatable reel upon which the hose may be wound, a fluid supply, a pump connected to said fluid supply and to said hose, and being operable to force fluid from the supply to and through said hose, a fluid motor connected to said reel to rotate it, said motor being connected as a by-pass about said pump to be operated by the fluid pumped thereby when said hose nozzle is closed.

2,315,086
COIN BANK
Claude C. Coller, New York, N. Y., assignor to Behrend & Rothschild, New York, N. Y., a firm composed of Claude C. Coller and Jerome B. Behrend
Application December 3, 1941, Serial No. 421,407
1 Claim. (Cl. 232—4)

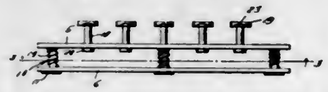


A coin bank comprising a cylindrical body, a closure for the upper end of said body, said body being formed across its front with a transversely extending coin slot near its upper end, said closure having a depending annular wall fitting snugly within said body, said wall being resilient and formed with circumferentially spaced recesses of less depth than the wall, portions of the wall between the recesses defining depending transversely arcuate front and rear wall portions spaced from each other, said front wall portion being disposed in overlapping relation to said coin slot and having its lower portion curved away from the slot inwardly of the body, the front wall portion being slit vertically upward from its lower edge to form a plurality of tongues constituting guards for the coin slot yieldable inwardly of the body to permit insertion of coins through said coin slot into the body.

2,315,087
PREPARATION OF PHENOL-UREA-FORMALDEHYDE RESINS
Pierre Cuvier, Paris, France; vested in the Alien Property Custodian
No Drawing. Application March 12, 1941, Serial No. 383,014. In France March 7, 1940
8 Claims. (Cl. 260—45)

1. The method of producing transparent, water-resistant resins which comprises partially condensing phenol and formaldehyde in the presence of an alkaline catalyst, adding thereto a neutralized mixture of urea and formaldehyde, and continuing the condensation of the mixture in the presence of a metallic catalyst of the group consisting of zinc, magnesium, lead, vanadium and manganese.

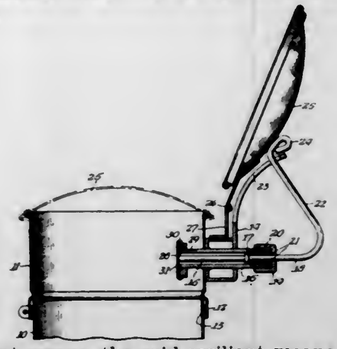
2,315,088
GAME BOARD
Angelo Henry Di Pasquale, Ballston Spa, N. Y.
Application October 10, 1941, Serial No. 414,532
1 Claim. (Cl. 273—135)



A game board comprising a pair of opposed top and bottom plates, respectively, push buttons including shanks slidably mounted in said top plate for movement toward said bottom plate and adapted to be thrust outwardly to projected position, and means connecting said bottom plate to said top plate for movement toward the same to engage said shanks and thrust the same outwardly, said means including posts extending through said bottom plate, springs on said posts urging said bottom plate away from said top plate, and devices on said bottom plate frictionally gripping said posts.

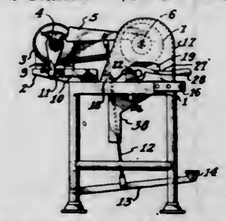
2,315,089
WASH TANK
Henry A. Dohrmann, Chicago, Ill.
Application March 31, 1941, Serial No. 386,011
7 Claims. (Cl. 220—89)

1. A tank of the character described having a cover adapted to be freely opened and closed, mechanical means independent of the cover for closing the latter, said means embodying a tubular member open at one end, a plunger in said member, means connected with the plunger for engaging and operating said cover, means tending normally to move the plunger in one direction, and a fusible element attached to said tubular member to extend over the said open end thereof, to be engaged by the said plunger to hold the plunger against movement under the stress of said



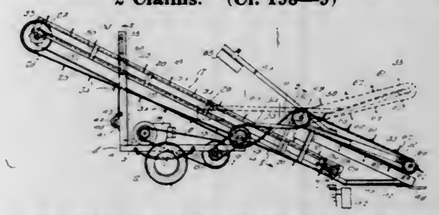
resilient means, the said resilient means operating, when said fusible element is fused, to move the plunger in a direction to close said cover.

2,315,090
ABRASIVE CUTOFF MACHINE
Stanley C. Dreher, Cincinnati, Ohio
Application January 29, 1941, Serial No. 376,516
2 Claims. (Cl. 51—98)



2. In an abrasive cut-off machine, the combination of an arbor associated with a motor and carrying an abrasive wheel rotated thereby, said arbor being mounted on and pivoted for movement of the abrasive wheel in a vertical plane around an axis coextensive with said motor axis and a guard substantially inclosing the abrasive wheel and pivoted at one end thereof to a work table for removing the guard and a clamp comprising a backing plate and a bifurcated lever pivoted thereto by one of the forks so that movement of the lever will vary the distance between the other fork and the backing plate, and a removable platform for raising material to be cut above the table of the machine.

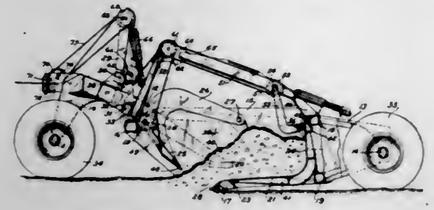
2,315,091
LOADER
John N. Fees, Spokane, Wash.
Application November 3, 1941, Serial No. 417,695
2 Claims. (Cl. 198—9)



1. A loader comprising a carriage, a main conveyor having a frame pivoted to said carriage for

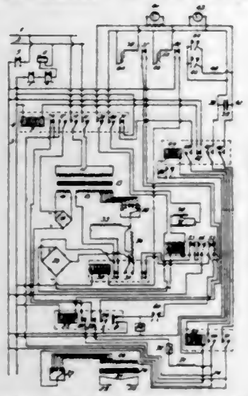
vertical tilting from a reclined position to a raised position in which it extends rearwardly at an upward incline, an endless conveyor belt in said frame having its upper flight moving toward the rear end of the frame when in motion, arms extending forwardly from opposite sides of the front end of said frame, a shoe of greater width than the conveyor carried by and projecting forwardly from said arms and extending transversely of the conveyor, and an auxiliary conveyor having a pan mounted over the forward portion of the main conveyor and projecting forwardly therefrom with its front end secured to the shoe, supports for the rear end of said pan extending upwardly from opposite sides of the frame of the main conveyor, struts rising from opposite sides of the frame of the main conveyor adjacent the rear end of said pan, bearings carried by said struts, a rear shaft rotatably mounted through said bearings, side bars having bearings at their rear ends receiving the shaft, troughs carried by and extending laterally from front ends of the side bars and open at their inner ends, bearings at front ends of the side bars, a front shaft rotatably mounted through the front bearings, conveyor screws at ends of the front shaft operating in the troughs, sprockets carried by said shafts, endless chains trained about the sprockets, and cross blades carried by said chains and having movement with the lower flights of the chains upwardly through the pan for carrying material through the tray and over the rear end thereof for deposit upon the conveyor belt of the main conveyor.

2,315,092
SCRAPER
Henry C. French, Elm Grove, Wis., assignor to The Heil Co., Milwaukee, Wis., a corporation of Wisconsin
Original application September 9, 1939, Serial No. 294,047. Divided and this application December 9, 1940, Serial No. 369,234
7 Claims. (Cl. 37—126)



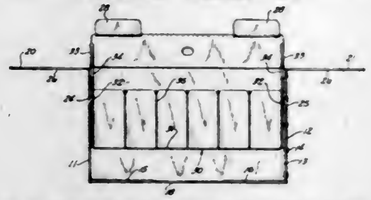
1. In combination, articulably interconnected frames, a bowl and scraper blade carried by one of said frames, cable actuated means for controlling the discharge of dirt from said bowl, a lever pivoted intermediate its length to the other frame, the inner end of said lever being articulably connected to said bowl frame, an equalizer sheave means carried by said lever adjacent the pivotal connection thereof, sheaves carried by the outer end of said lever, sheaves carried by said lever-carrying frame below the sheaves carried by the outer end of said lever, a bowl actuating cable extending beneath said equalizer sheave means, over one of the sheaves on the outer end of said lever and beneath one of the sheaves on the lever-carrying frame, and a second cable coacting with another one of the last mentioned sheaves and with one of the sheaves on the forward portion of the lever to raise and lower said lever and thereby raise and lower the scraper blade.

2,315,093
RESISTANCE ELECTRIC WELDING MACHINE
Jacques Emile Jules Languepin, Paris, France; vested in the Alien Property Custodian
Application August 9, 1939, Serial No. 289,301
In France September 28, 1938
17 Claims. (Cl. 171—119)



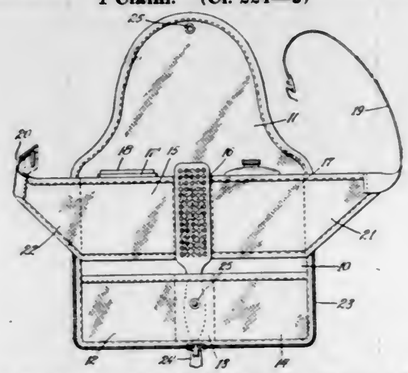
1. A resistance electric apparatus comprising an iron core transformer, a condenser, means for supplying current to the condenser to charge said condenser, means to discharge the said condenser in the said transformer, direct current supply means, a contact device having several contacts, another contact device having several contacts, a circuit including a contact of the first named contact device and a contact of the last named contact device and the primary winding of the transformer, a contact device having contact actuating means and a series of contacts, a contact of said series of contacts for actuating the first named contact device to supply direct current to the said primary winding through the first named contact and contacts of said series associated to the condenser discharge means, means for operating the contact actuating means of the last named contact device, whereby the flow of the direct current is cut out in the iron core transformer primary winding and the condenser is caused to discharge in said iron core transformer upon actuation of the last named means.

2,315,094
CONTAINER
Wilson A. Rehfield, Chicago, and Milton K. Naylor, Rockford, Ill., assignors to The Eddy Paper Corporation, Chicago, Ill., a corporation of Illinois
Application January 29, 1940, Serial No. 316,064
4 Claims. (Cl. 229—14)



1. In a container of fiberboard or the like having side and end walls, said end walls having hand holes therein, flaps connected to the upper edges of said end walls and foldable toward one another over the top of the container, each of said flaps having a slot therein, each slot having its outer end close to the line of fold between the flap and the end wall and having a closed inner end terminating short of the free edge of the flap, flaps foldable toward one another from the upper edges of the side walls over said end wall flaps, the free edge of each side wall flap having a depending tongue adjacent each end of such length and so positioned as to fit snugly in the end wall flap slots together with the corresponding tongues of the opposite side wall flap, with the inner end edges of the tongues abutting the closed inner ends of said slots to prevent outward movement of the end walls when the container is picked up by grasping the hand hole of one of said end walls.

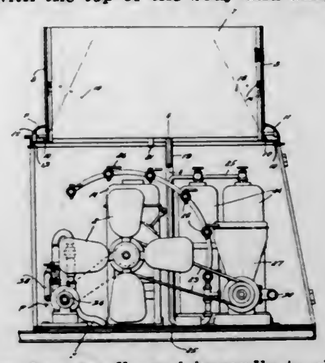
2,315,095
BELT-SUPPORTED TOILET KIT
Ben S. Rhodes, Normal, Ill.
Application December 23, 1940, Serial No. 371,328
1 Claim. (Cl. 224—5)



In an apron toilet kit foldable bookwise, a base member including a foldable flap, a double row of pockets attached to the inner side of the base, said pockets including narrow pockets in the center of the base for long toilet articles, belt members attached to the upper front of the base member and apron straps connected to the free ends of said belt members, said belt members being approximately as broad as the upper row of pockets at their juncture at the base and tapering to normal belt width at their juncture with said straps, an apron flap attached to the base, means for securing the free end of said flap to said base, said flap being foldable outward to serve as an apron and inward to cover and secure toilet articles, and closure means to hold the kit when folded in the center, the construction and arrangement providing for folds on the edges of the narrow pockets with closure means along the three open edges of the folded base.

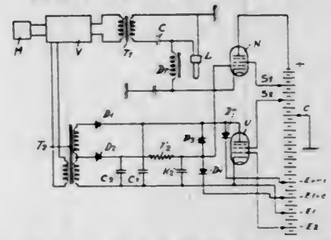
2,315,096
SPRAYING, DUSTING, AND FROST PREVENTING DEVICE
William Sanderson, John Amelung, and Margaret Walther, Jersey City, N. J.
Application January 7, 1941, Serial No. 373,496
8 Claims. (Cl. 47—2)

1. An apparatus of the class described comprising a body of closed construction, a stack extending upwardly from the top of the body, one wall of the body having an opening therein adjacent its lower end, a tubular member passing through the opening, a fan located in the inner end of the member and a motor located in the space formed by the body for driving the fan, said stack being formed of side and end plates hingedly connected with the top of the body and adapted to



be swung downwardly and inwardly to close the top when not in use.

2,315,097
METHOD AND APPARATUS FOR PRODUCING PHOTOGRAPHIC SOUND RECORDS
Karl Hermann Franz Schlegel, Lyngby, Denmark; vested in the Alien Property Custodian
Application July 19, 1938, Serial No. 220,101
In Denmark July 22, 1937
10 Claims. (Cl. 179—100.3)

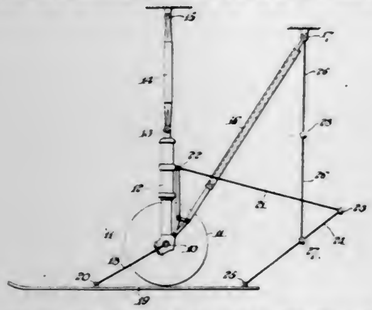


1. A method of producing a photographic sound record of the noiseless type, which comprises converting the sounds to be recorded into electrical pulses, exposing a sensitive film to a beam of light, varying the amount of light impinging the film in accordance with the wave form of the said pulses, additionally varying the average value of the amount of light impinging on the film in accordance with the maximum amplitudes of the said pulses, and maintaining the average value of the amount of light determined by the largest of the said maximum amplitudes within any part of the sound record during a pre-determined short time after the said largest amplitude has occurred.

2,315,098
SKI RIGGING FOR AIRCRAFT
Henry A. Simpson, Philadelphia, and Agnew E. Larsen, Jenkintown, Pa., assignors to Machine and Tool Designing Company, a corporation of Pennsylvania
Application March 14, 1942, Serial No. 434,692
3 Claims. (Cl. 244—102)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

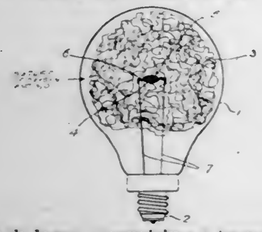
1. In a device of the class described, the combination with a ski for aircraft having landing wheels and rigging therefor, of a ski-rigging comprising linkage means adapted to connect said ski and said aircraft including means for posi-

tioning the major portions of said ski in advance of the landing wheel axes when the same are extended, for landing on said ski, and for retracting



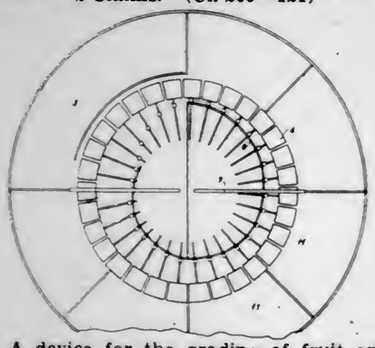
the major portions of said ski rearwardly of a vertical line passing through said wheel axes when the said ski is retracted.

2,315,099
FLASHLIGHT LAMP
Johannes Antonius Maria van Liempt, Eindhoven, Netherlands; vested in the Alien Property Custodian
Application April 8, 1941, Serial No. 387,507
In the Netherlands April 11, 1940
2 Claims. (Cl. 67—31)



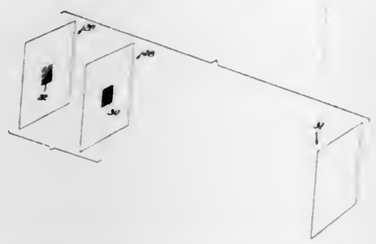
1. A flash lamp comprising a transparent bulb, solid combustible material within the bulb and adapted to react actinically with oxygen, a mixture of oxygen and N_2O within the bulb and containing from about 10% to 60% by volume of N_2O, and means to ignite said combustible material.

2,315,100
FRUIT OR VEGETABLE SELECTING MACHINE
Adolfo Wenz, Malloco, Chile
Application April 23, 1940, Serial No. 331,241
2 Claims. (Cl. 209—121)



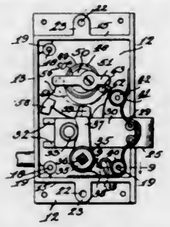
1. A device for the grading of fruit and the like according to weight which comprises, a rotatable table, a plurality of levers radially arranged thereon and pivotally attached thereto so that they may be rocked in a vertical plane about the point of pivot as a fulcrum, the fulcrums lying in an annular path concentric to the axis of the table, a receptacle on one end of each lever, a counterweight slidable on the free shank of each lever, said counterweight being sufficiently heavy to raise the respective empty receptacle above the horizontal plane of the fulcrum regardless of the distance of the counterweight from the fulcrum, means for rotating the table, separate stationary discharge chutes arranged radially about the table in registry with the receptacles throughout a substantial portion of their path of travel, a stationary charging table in registry with the receptacles through a lesser portion of their path of travel, and a stationary continuous spiral cam, the generation point of which coincides with the axis of the table, said cam being located in the same geometric segment as the discharge chutes, said cam presenting a supporting edge substantially in the horizontal plane of the fulcrums underlying a portion of the various levers between their free ends and the location of the counterweights and serving to bias said counterweights toward their respective points of fulcrum as the table is rotated, said cam being interrupted at the zone of travel of the rotatable table adjacent the charging table to allow the end of the free shank of each lever to fall below the horizontal plane of the fulcrum so that the weight may slide on that portion of the lever to its position of maximum remoteness from the fulcrum preparatory to the charging of the respective receptacle with fruit.

2,315,101
DROPOUT HALF-TONE NEGATIVE
Laszlo Zukmann, New York, N. Y.
Application July 29, 1941, Serial No. 404,572
24 Claims. (Cl. 95—5)



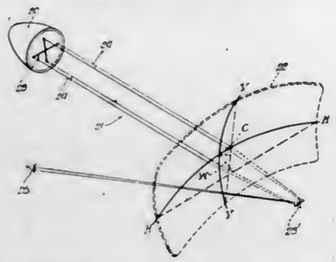
1. In a process of producing a drop-out half tone negative from an original drawing comprising highlight and tone sections, the steps of making a half tone mask negative having substantially transparent portions corresponding to the tone sections and substantially opaque portions corresponding to the highlight sections of the original drawing, making a half tone mask positive comprising substantially opaque portions corresponding to the tone sections and substantially transparent portions corresponding to the highlight sections of the original drawing, and photographing said original drawing on a light-sensitive photographic material successively through each of said masks with a half tone screen interposed between the drawing and the light-sensitive material when the drawing is photographed through the half tone mask negative.

2,315,102
LAVATORY LOCK
George R. Adams, Los Angeles, Calif.
Application January 22, 1941, Serial No. 375,397
5 Claims. (Cl. 70—432)



1. In a lock, a housing, a bolt arranged for sliding movement in said housing, a spindle passing through said housing, means mounted on said spindle externally of the housing for actuating said spindle, means carried by said spindle for imparting retractile movement to said bolt, a member pivotally mounted within the housing and adapted to engage said bolt to hold the same against retractile movement, locking means operable from the exterior of the door to which the lock is applied for shifting said pivoted member into bolt engaging position and separate means operable from the inside of the door to which the lock is applied for shifting said pivoted member out of bolt engaging position.

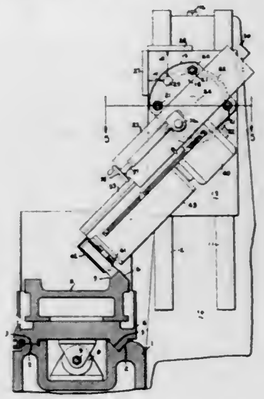
2,315,103
ANTIGLARE WINDOW PANE
Kador George Anderson, Chicago, Ill.
Application September 16, 1940, Serial No. 356,912
7 Claims. (Cl. 88—1)



1. A transparent, anti-glare, vehicle window pane curved in the same direction throughout both of its dimensions, the transverse curvature being materially less than the longitudinal curvature.

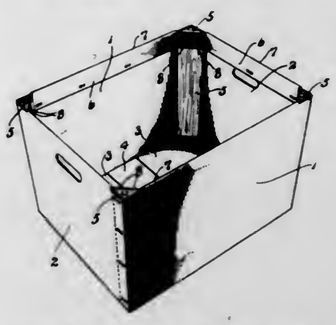
2,315,104
INCLINABLE GRINDER SPINDLE
William G. Baldenhofer, Springfield, Ohio, assignor to The Thompson Grinder Company, Springfield, Ohio, a corporation of Ohio
Application November 12, 1941, Serial No. 418,648
10 Claims. (Cl. 51—166)

1. In an inclinable grinding wheel shaft assembly the combination of a housing, a shaft carrying a bearing plate, rocking shoes engaging said plate, bearing points on said shoes engaging abutments in said housing so that the shoes can rock, and adjusting means of bringing said shoes, plates, and bearing supports in adjusted relationship to receive and carry the longitudinal thrust and load of the inclined spindle shaft, said adjusting means comprising tapered adjusting screws, balls engaged thereby on one side, said balls being engaged by the bearing points on one



of the shoes on the other side, and means of positioning said balls within said housing.

2,315,105
CONTAINER
Emmons W. Bonfield, Grand Rapids, Mich., assignor to American Box Board Company, Grand Rapids, Mich., a corporation of Michigan
Application May 2, 1940, Serial No. 332,930
2 Claims. (Cl. 229—49)

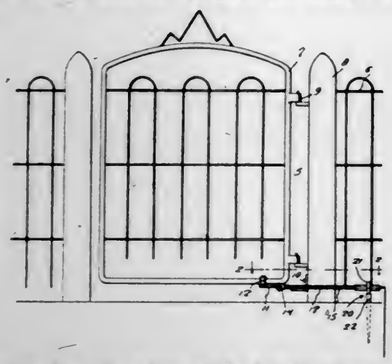


1. A receptacle having substantially vertical sides, said receptacle being polygonal in cross sections, and having a plurality of corners and also having a bottom closing the lower end thereof, a corner post located within the receptacle at each corner thereof, reinforcing means comprising a strip at the upper edge of each side of the receptacle return-bent to extend downwardly and inwardly at the inner side of and connected to each side of the receptacle, said strips extending between the corner posts, and each of said strips at each end having extensions inwardly bent to bear against and extend partly across the inner sides of associated corner posts, as specified.

2,315,106
CLOSER FOR GATES
Joe L. Brandt, Tremont, Ill.
Application July 9, 1942, Serial No. 450,334
4 Claims. (Cl. 16—80)

1. In a closer for a swinging gate, pivotally mounted arms to engage opposite sides of the

gate, means connecting said arms whereby movement of one arm by the gate will impart move-

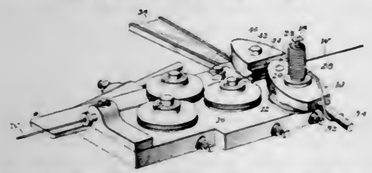


ment to the other arm, and a tension means acting on one of said arms for closing the gate.

2,315,107
CATALYTIC DEHYDROGENATION
James Chickinoff and Robert M. Roberts, Berkeley, and James Burgin, Oakland, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application April 29, 1941, Serial No. 390,942
7 Claims. (Cl. 260—683.3)

7. In a process for the catalytic dehydrogenation of hydrocarbon vapors containing from two to five carbon atoms with a dehydrogenation catalyst containing a dehydrogenating compound of a metal of the first transition series of the elements, the steps of effecting the dehydrogenation in an essentially adiabatic reaction zone and maintaining a temperature gradient not greater than about 100° C. in said reaction zone by passing a molecular excess of preheated vapors of hydrogen sulfide therethrough in admixture with the vapors of the hydrocarbon to be dehydrogenated, said hydrogen sulfide vapors being preheated to a temperature in excess of the desired reaction temperature.

2,315,108
WIRE FEEDER FOR NAIL MACHINES
Charles R. Chism, Pittsburg, Calif.
Application May 5, 1942, Serial No. 441,865
3 Claims. (Cl. 140—130)



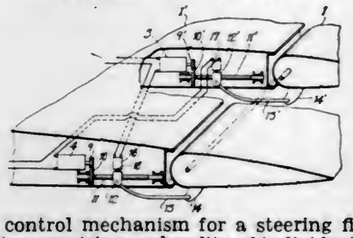
1. A feeder for wire stock comprising a feed table having a grooved guide for the wire stock, means for imparting forward and backward strokes to said table, a holder pivotally engaging a post carried by the table, said holder having a bearing opening therein of larger diameter than the post to provide a clearance, a roller journaled in the holder and coacting with the post to grip the wire stock in said guide upon forward movement of said table, a spring tending to turn the holder about said post in a direction toward the wire stock and also effective upon the back stroke of the feed table to shift the holder with relation to said post to an extent permitted by said clearance to thus free the grip of the roller upon the post and thereby cause the roller to turn as it rides on the wire during the back stroke of the table.

2,315,109
DRIP METER
Robert K. Cutter, Berkeley, Calif., assignor to Cutter Laboratories, Berkeley, Calif., a corporation of California
Application August 23, 1940, Serial No. 353,789
5 Claims. (Cl. 210—164)



1. A drip meter adapted to be used in a vertical position for making transfusions, comprising: a transparent tube formed with substantially unobstructed inner walls; a downwardly converging filter sealed within said tube; means for establishing communication between the upper end of said tube and a source of liquid; and means for establishing communication between the lower end of said tube and an injection needle.

2,315,110
CONTROL APPARATUS FOR AIRCRAFT
Claude Dornier, Friedrichshafen-on-the-Bodensee, Germany; vested in the Alien Property Custodian
Application September 14, 1939, Serial No. 294,923
In Germany September 14, 1938
3 Claims. (Cl. 244—83)

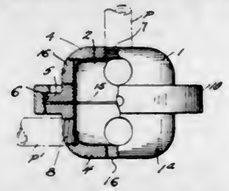


1. A control mechanism for a steering flap in aircraft, comprising a plurality of individual self-locking power transmitting mechanisms individually operatively connected with said flap, a plurality of electric motors individually operatively connected with said power transmitting mechanisms for operating same and thereby said flap, an individual electric power circuit for each of said motors, and electromagnetic release devices individually connected with each of said power transmitting mechanisms and being individually interposed in the power circuits of said motors, said devices being adapted to be individually actuated upon failure of operation of an individual motor and to individually release said flap from said motors whereby operation of said flap independently from said motors is made possible.

2,315,111
METHOD OF DETECTING ALTERATIONS OF DOCUMENTS
Josef Ehrlich, Vienna, Germany; vested in the Alien Property Custodian
No Drawing. Original application August 12, 1935, Serial No. 35,890. Divided and this application June 15, 1938, Serial No. 213,843. In Hungary August 26, 1933
3 Claims. (Cl. 23—230)

1. A method of rapidly detecting alterations of documents or scripts by rendering visible alterations or differences in the fibre structure of paper, without damage to the paper, consisting in discoloring the paper by treating it with an aqueous solution which contains free iodine, a dissolved iodide and magnesium chloride, the solution of magnesium chloride in said aqueous solution being substantially saturated, and subsequently removing the discoloration by treating the paper with a concentrated solution of a mineral salt which enters into chemical reaction with iodine to form colorless compounds.

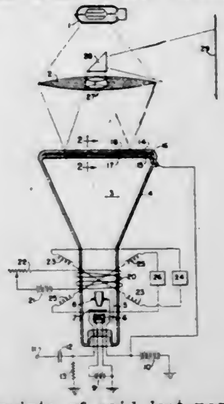
2,315,112
DIRECTIONAL COUPLING
George S. Emery, Tulsa, Okla.
Application April 6, 1942, Serial No. 437,884
3 Claims. (Cl. 285—210)



1. A pipe coupling comprising a pair of substantially identical complementary sections each comprising a hollow interiorly unobstructed box-shaped housing having flattened top and side walls, a circular flange extending laterally from the lower edge of the housing and a port opening through at least one of the walls of the housing, said sections being arranged with their flanges in opposed relation, and means extending between the opposed flanges of said sections for securing said sections together in rigid assembly, the ports in the two sections having their axes intersecting at approximately at right angles.

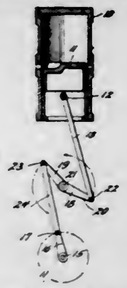
2,315,113
TELEVISION PROJECTION SYSTEM
Philo T. Farnsworth, Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation, a corporation of Delaware
Application September 7, 1940, Serial No. 355,707
6 Claims. (Cl. 178—7.5)

1. A television picture reproducing device comprising a source of light, means for projecting an image of said source, control means including an element having a variable light dispersing characteristic adapted to be altered in accordance with heat applied thereto, disposed in the projection path of said light to permit its passage therethrough, means disposed adjacent said control means for reflecting said projected light through said element, and means for heating



successive points of said last-named means in accordance with a television picture signal thereby to vary said light dispersing characteristic.

2,315,114
DIESEL ENGINE
William Fels, Fairhope, Ala., assignor to F-S-K Manufacturing Company, Inc., Foley, Ala., a corporation of Alabama
Application June 1, 1936, Serial No. 82,956
8 Claims. (Cl. 74—40)



1. In a high compression internal combustion engine of the Diesel type, a cylinder having a piston reciprocable therein, a conventional connecting rod for said piston, a crankshaft having a throw independent of the stroke of the piston, a rocker fulcrumed on an axis intersecting the extended axis of the cylinder at right angles, the end of the connecting rod being pivoted to said rocker, the rod and rocker lengths being such that these parts are in substantial alignment at top piston position to apply the initial force of the explosion substantially solely to the said fulcrum, and a second connecting rod having a pivot to said rocker coaxial with that of the first connecting rod and having its opposite end mounted on the crank throw, said crankshaft axis being spaced a substantial distance laterally of the cylinder axis.

2,315,115
ADJUSTABLE BRIDGE FOR GOGGLES
Sidney Fischer, New York, N. Y., assignor of one-half to Emanuel M. Fischer, New York, N. Y.
Application September 17, 1941, Serial No. 411,199
7 Claims. (Cl. 88—43)

2. In goggles of the character described, a nose

bridge comprising a first apertured bridge part, a second slotted and apertured bridge part, said parts being arranged in telescoping relation, a laterally bendable sheet spring provided with a laterally projecting locking lug urged by said spring to enter the apertures of the second part,



and a release member secured to the spring and passing through the slot of the second part and through the aperture of the first part and arranged for lateral movement manually when the bridge is adjusted to withdraw the lug from the aperture of the second part into which said lug is urged.

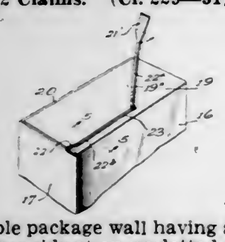
2,315,116

QUICK OPENING PACKAGE

John S. Flizikowski, Chicago, Ill., assignor, by mesne assignments to James Elwyn Daniels, Chicago, Ill.

Application September 13, 1939, Serial No. 294,605

12 Claims. (Cl. 229—51)



1. A tearable package wall having adhered flatwise to its inner side at an unslotted region thereof, a self-tearing tear tape composed of parallel longitudinal strands so held together that the tape readily splits longitudinally but not transversely, a portion of the tape being exposed tabwise with only a narrow band of the longitudinal strands extending from the tab portion into the adhered main reach of the tape, for the purpose described.

2,315,117

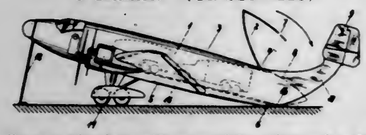
AIRPLANE CONSTRUCTION

Fritz Freytag, Dessau, Germany; vested in the Alien Property Custodian

Application September 8, 1939, Serial No. 293,985

In Germany September 10, 1938

5 Claims. (Cl. 244—118)



1. In an airplane the combination of a fuselage the rear end of which is adapted to rest near or upon the ground when the plane is grounded, a storage space in said fuselage extending forwardly from the rear thereof, and a load-supporting floor arranged within said storage space in spaced relation to the bottom of the fuselage wall, said floor including a rearmost portion pivotally connected to the main floor whereby the same may be lowered to form a ramp, the wall at the extreme rear of said fuselage including a portion between the side walls displaceable with reference to the main fuselage wall to thereby form an opening for loading and unloading said storage space.

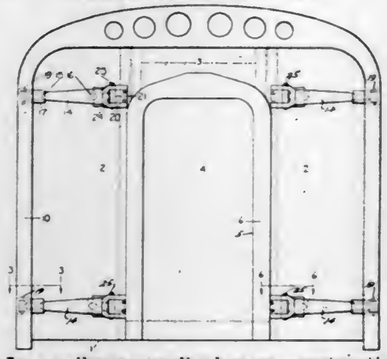
2,315,118

CAR CONSTRUCTION

Eugene R. Greener, Dormont, Pa., assignor to Pressed Steel Car Company, Inc., Pittsburgh, Pa., a corporation of Pennsylvania

Application May 17, 1941, Serial No. 393,957

12 Claims. (Cl. 105—15)



1. In a railway car diaphragm construction, a rigid inverted U-shaped outer face plate disposed in spaced relation to the car end, a plurality of vertically spaced laterally extending arms pivotally connected with said outer face plate and with the car end for supporting the face plate upon the car, resilient means between each said arms and the car end normally maintaining said outer face plate in horizontally spaced relation to the car end, flexible means forming with the outer face plate and car end an enclosure for the space therebetween, and an inner face plate and diaphragm forming a passageway suspended from the car end independently of the said outer face plate and normally resiliently urged outwardly of the vertical plane of said outer face plate for longitudinal movement relative thereto.

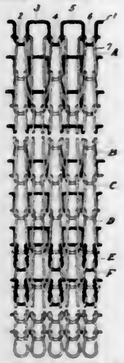
2,315,119

FABRIC AND METHOD OF KNITTING

Isaac H. C. Green, Pawtucket, R. I., assignor to Hemphill Company, Central Falls, R. I., a corporation of Massachusetts

Application December 12, 1941, Serial No. 422,622

8 Claims. (Cl. 66—172)



1. A plain (not rib) knitted stocking top having a selvage and being formed from elastic and inelastic yarns and wherein the said elastic yarn is incorporated under tension to be held at spaced wales by inlaying in the first few wales adjacent the selvage and in the remaining part of the top by knitting.

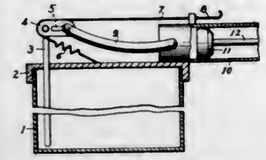
2,315,120

SPRAYING DEVICE

John H. Homrighous, Oak Park, Ill.

Application April 13, 1939, Serial No. 267,570

2 Claims. (Cl. 299—88)



1. In a spraying device, a liquid receptacle, a suction tube extending into said receptacle provided with a liquid tube nozzle, an air discharge nozzle pivoted to rotate about the said liquid tube nozzle and at a fixed distance from the end of the said liquid tube nozzle with the discharged air directed across said tube nozzle to produce a spray in a direction determined by the position of the air discharge nozzle, air compressing apparatus secured to said receptacle having a flexible hose communicating with the said air discharge nozzle, and means including a lever mounted on said apparatus arranged to rotate the said air discharge nozzle relative to the said liquid tube nozzle to vary the direction of discharge from the said nozzle.

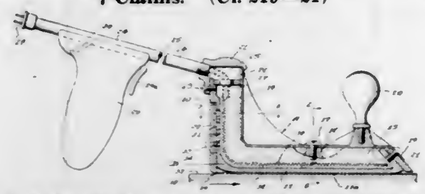
2,315,121

ELECTROMECHANICAL PAINT REMOVER

Charles E. King, Clarkston, Mich.

Application February 23, 1940, Serial No. 320,504

7 Claims. (Cl. 219—21)



1. A device of the character described comprising a casing having a plane work face constructed for sliding movement substantially in contact with the work, a heating means within said casing for heating said work face whereby to conduct heat substantially directly to the work by conduction, a scraper blade secured to said casing to the rear of said plane work face and constructed to place substantially its entire surface in direct heat conducting relation with said heating means, said blade having a scavenge opening positioned immediately above the scraping edge of said blade.

2,315,122

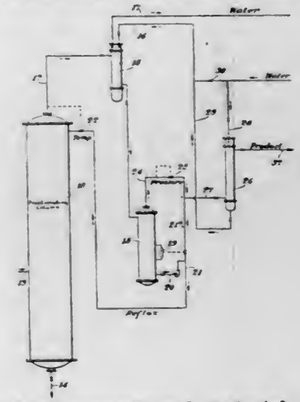
DISTILLATION PROCESS

Wheaton W. Kraft, New York, N. Y., assignor to The Lummus Company, New York, N. Y., a corporation of Delaware

Application February 28, 1938, Serial No. 193,168

1 Claim. (Cl. 196—94)

The method of condensing hydrocarbon vapors and gases obtained as an overhead from the fractionation of hydrocarbons under superatmospheric pressure in which the hydrocarbons undergoing fractionation are crude petroleum, and the fractionation treatment is a topping operation, which comprises cooling the vapors and gases to produce a partial condensation thereof, separating the resulting condensate from the uncondensed vapors and gases, returning a sufficient portion of said condensate as reflux for said fractionation, combining the uncondensed vapors and gases with the remainder of said condensate, cooling the mixture to a temperature lower than that of the partial condensation to effect a complete condensation of the vapors and an absorption of the gases in the condensate so that the final product comprises a liquid containing less



than ½% of uncondensed material, and controlling the pressure at which the uncondensed vapors and gases are separated from the partial condensate in the partial condensation stage independently of the pressure on the final condensation and cooling stage, the pressure on the partial condensation stage being substantially equal to the pressure of fractionation and higher than the pressure on the final condensation and cooling stage.

2,315,123

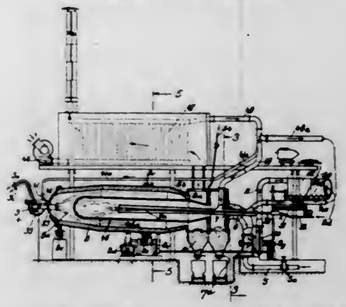
METALLURGICAL APPARATUS

Julius Lohse, Berlin-Wilmersdorf, Germany; vested in the Alien Property Custodian

Application October 15, 1940, Serial No. 361,314

In Germany September 1, 1937

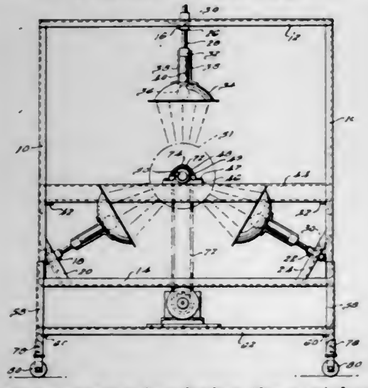
10 Claims. (Cl. 266—18)



1. An apparatus for the continuous metallurgical treatment of raw ore materials in a flame chamber, more particularly for the desulphurisation, chlorination, roasting and drying of ores; comprising, an elongated furnace, a retort disposed within the said furnace, a burner in said furnace externally heating the said retort, a pipe extending into and discharging into the said retort, material supplying means connected with the said pipe, blower means for moving material through the pipe and injecting the material from the pipe into the retort, the retort having a dis-

charge opening through which also partly roasted material is withdrawn by suction, means for sucking of the gas from the retort with particles of material floating therein, and means for effecting the discharge from the retort of the coarser pieces of the material.

2,315,124
DRYING MACHINE
Russell W. Luzius, Ferndale, Mich., assignor to Park Chemical Company, Detroit, Mich., a corporation of Michigan
Application September 3, 1942, Serial No. 457,112
6 Claims. (Cl. 34—240)



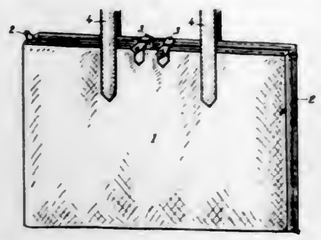
1. An apparatus for drying the peripheries of polishing wheels and the like having an axial opening including a rotatable shaft upon which a wheel may be mounted with the shaft passing through the wheel opening, means located in radially spaced relation to the shaft for directing and focusing radiant heat toward the shaft and on the periphery of the wheel to dry the same, and means for rotating the shaft to present all portions of the periphery of the wheel to the direct action of the radiant heat.

2,315,125
OVERSPRAY RECOVERY PROCESS
Joseph G. Meckler, Detroit, Mich.
No Drawing. Application September 12, 1938, Serial No. 229,571
2 Claims. (Cl. 106—287)

1. A method of preparing a coating composition in the form of an aqueous emulsion from excess sprayed coating material obtained by directing the overspray into a curtain of water forming a hydrated sludge, adding to said hydrated sludge an organic solvent to restore the solvent content for reuse as a finishing composition, an emulsifying agent and water, the water being sufficient to adjust the components to have present in the finished product an amount not over 50% by weight of the finished product, and thoroughly agitating the mixture to produce a water-in-oil type emulsion capable of use as a spray finish.

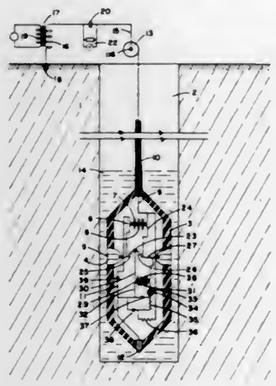
2,315,126
COVERING CONVERTIBLE INTO A BAG
Frieda Michalke, née Parnow, Berlin, Germany, vested in the Alien Property Custodian
Application July 7, 1939, Serial No. 283,301
In Germany July 28, 1938
3 Claims. (Cl. 190—43)

1. A device of the type described, comprising an elongated, substantially rectangular sheet of flexible material, slide fastener elements secured in pairs to one side of said material inwardly, from each opposed end edge thereof, a distance substantially equal to one-third the width of said sheet, the members forming each pair extending, respectively, on each side of the longitudinal median line of said sheet, and a pair of



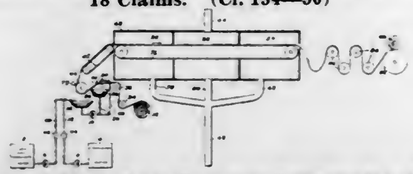
slide fasteners cooperating with said pairs of elements whereby, when the material between said elements and said end edges is folded inwardly so as to leave said pairs of elements along exposed edges, respectively, and said device is then folded along said longitudinal median line, said slide fasteners may be slid to join the members forming each pair of elements to form a bag.

2,315,127
RESISTANCE THERMOMETER
Whitman D. Mounce, Houston, Tex., assignor to Standard Oil Development Company, a corporation of Delaware
Application October 12, 1939, Serial No. 299,066
6 Claims. (Cl. 73—362)



1. An electrical circuit adapted to be lowered into a bore hole filled with a drilling fluid at the end of a conductor cable and including a conductive element exposed to the fluid in the bore hole and adapted to respond to temperature changes in said fluid, means for supplying alternating current to said conductive element and means for converting the changes in said alternating current due to changes in the temperature of said exposed conductive element into direct current voltages whereby the latter may be transmitted to the surface by the same means which carries the alternating current from the surface.

2,315,128
SHRINKPROOF PAPER AND METHOD OF MANUFACTURE, AND LAMINATED PRODUCT
Francis F. Newkirk, Attleboro, Mass., assignor to American Reenforced Paper Company, Attleboro, Mass., a corporation of Massachusetts
Application November 27, 1939, Serial No. 306,304
18 Claims. (Cl. 154—50)



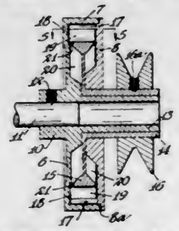
4. A sheet of kraft paper impregnated with the product of the reaction within its structure of formaldehyde and an amount of urea which is by weight less than approximately one-half and more than approximately one-fourth that of the formaldehyde, the said paper being at least 0.5% and no more than 10% heavier than the same paper without said impregnation and being capable of a shrinkage of not more than 1% in its cross direction when alternately wetted and dried seven times.

5. A composite reenforced sheet of paper composed of two superposed sheets of the paper defined in claim 4 united by interposed asphalt in which reenforcing strands are embedded, said composite sheet having a very inhibited capacity to shrink when repeatedly wetted and dried.

2,315,129
ALKYLATION PROCESS
Arlie A. O'Kelly, Woodbury, N. J., and Robert H. Work, Philadelphia, Pa., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application September 10, 1940, Serial No. 356,186
6 Claims. (Cl. 196—10)

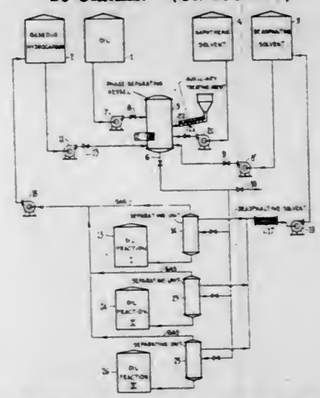
1. The process of alkylating paraffins with olefins wherein paraffins and olefins are charged to the alkylation reaction which comprises contacting the paraffins and olefins under alkylating conditions in the presence of an alkylation catalyst and a hydrogenation catalyst that has appreciable hydrogenation activity at said alkylating conditions.

2,315,130
CLUTCH CONSTRUCTION
Louis Peterson, Minneapolis, Minn.
Application April 28, 1941, Serial No. 390,790
2 Claims. (Cl. 192—58)



1. In a clutch construction, a casing mounted for rotation and adapted to hold a yielding powder transmitting medium therein, said casing having a plurality of pockets about its inner circumferential wall and a relatively movable rotor in said casing having a drive connection extending outwardly therefrom, said rotor having a plurality of pockets in its outer circumferential face, the side portions of said rotor adjacent said rotor pockets lying closely adjacent the side walls of said casing, said casing having open central portions adjacent the axis of said rotor defining powder holding spaces, and said casing having conduits formed therein affording communication between said casing pockets and the open central portions of the casing.

2,315,131
METHOD OF TREATING MINERAL OILS
Stanislaw Pilat and Marian Godlewicz, Lemberg, Poland, assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application January 30, 1934, Serial No. 708,988
In Poland February 6, 1933
16 Claims. (Cl. 196—13)

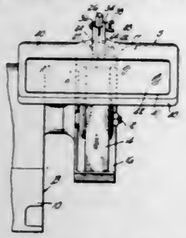


1. In a process of separating a hydrocarbon oil into fractions having different properties, the steps of subjecting the oil to the precipitating action of a quantity of a gaseous hydrocarbon treating agent consisting substantially of at least one of the hydrocarbons having less than three carbon atoms per molecule, said precipitating action being exerted under a superatmospheric pressure below the condensation pressure of said gaseous treating agent at the treating temperature, said quantity being sufficient to cause the formation of two liquid oil-containing phases of different specific gravities, and separating one phase from another.

2,315,132
SAFETY SHIELD FOR BENCH GRINDERS
Cedric Powers, New Britain, Conn., assignor to The Stanley Works, New Britain Conn., a corporation of Connecticut
Application April 3, 1941, Serial No. 386,599
3 Claims. (Cl. 51—272)

1. In combination, a safety shield including a generally rectangular top wall having a transparent panel, an arm extending rearwardly from said panel and including a pair of spaced vertical side walls having apertures therein, an electric light mounting having an opening therethrough and including a pair of axially aligned sockets extending in opposite directions therefrom, a pair of flanged resilient insulating washers located in said apertures and of greater lengths than said apertures so as to extend therebeyond, a resilient insulating sleeve in said open-

ing and of greater length than said opening as to extend therebeyond, a bolt extending through said washers and sleeve for pivotally supporting



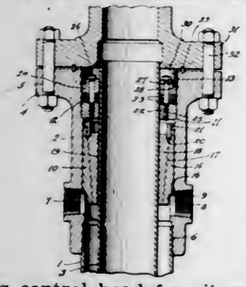
said light mounting, and a nut on said bolt for securing the same in place and compressing said washers and sleeve axially.

2,315,133
PIPE LINE CLEANER
Arthur H. Rincy and Louis J. Weber, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware
Application June 5, 1939, Serial No. 277,507
9 Claims. (Cl. 15—104.06)



1. A fluid propelled pipe cleaning device comprising a central body including a tubular member; cleaning means including an impervious piston connected to the central body; a normally open valve associated with the tubular member; and means responsive to a predetermined rise in pressure behind the piston for actuating the valve to close the same.

2,315,134
WELL CONTROL HEAD
Edmund J. Roach and Edward F. Cooke, Beaumont, Tex.
Application November 3, 1941, Serial No. 417,686
6 Claims. (Cl. 285—22)

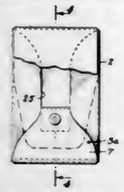


1. Casing control head for oil wells comprising a casing head having a seating shoulder for a slip bowl on the wall of its bore and a slip bowl unit for suspending an inner casing comprising a slip bowl with complementary exterior seating shoulder adapted to seat on said casing head shoulder, said slip bowl having an interior downwardly tapering bore adapted to coaxially surround the inner casing, a plurality of slips within said bore having outer surfaces corresponding in taper to the taper of said bore and inner cylindrical faces corresponding in curvature to that of the inner casing, and a ring nut screwing into the upper end of said bowl against the upper ends of said slips for forcing them wedgingly between said bowl and inner casing and retaining them in said bowl.

2,315,135
TEXTILE TREATING PROCESS
John B. Rust, Verona, N. J., assignor to Ellis-Foster Company, a corporation of New Jersey
No Drawing. Application May 5, 1942, Serial No. 441,811
5 Claims. (Cl. 117—167)

2. A process of making textile fabrics water repellent without seriously lowering the tensile strength thereof comprising impregnating a textile fabric with an aqueous solution containing 0.1% to 2% of a metallic soap and 1% to 10% of a reaction product of a tertiary amine with the compound formed from the reaction of a nitrile containing a chain of more than 9 carbon atoms, an acid chloride containing a chain of more than 9 carbon atoms and formaldehyde, drying said impregnated textile fabric at below 110° C., and baking said dried impregnated textile fabric between 110° C. and 160° C. for from 1 to 15 minutes.

2,315,136
PLAYING CARD CASE
Daniel Platkin, Los Angeles, Calif.
Application March 21, 1941, Serial No. 384,429
3 Claims. (Cl. 150—39)

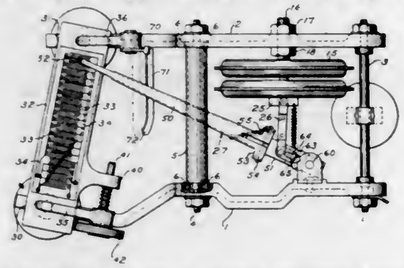


1. A seamless playing card case comprising a rectangular pouch having substantially flat back and front walls spaced by substantially flat sides and bottom, an open end for the insertion and withdrawal of cards, a flap comprising a substantially flat section to cover the open end and an extension to overlie a part of the front wall, and fastening means to detachably secure the flap to the front wall, the said pouch being formed from a blank made of a single piece of flexible sheet material folded along lines defining the corners of the pouch, said blank comprising an intermediate section forming the back wall, sides, and including ears foldable to abut and form part of the front wall, and a bottom end section forming the bottom and having a part extending up to complete the front wall, said bottom end section also having an extension folded inwardly and downwardly over the portions of the intermediate section which comprise a part of the front wall approximately midway between the top and bottom of the pouch, and the folded parts being secured in completed form solely by a fastening device at the junction of the parts forming the front wall.

2,315,137
RADIOSONDE PRESSURE ELEMENT
Benson Russell Shaw, Washington, D. C., assignor to Washington Institute of Technology, Inc., Washington, D. C., a corporation of Delaware
Application July 18, 1941, Serial No. 403,043
10 Claims. (Cl. 200—83)

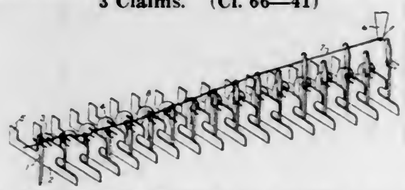
1. In an apparatus for operating means in ac-

cordance with changes in air pressure, a supporting frame comprising side members, means connecting said side members at one end and intermediate their ends to form a rigid frame, means for preventing twisting of the frame and for spacing the side members thereof, aligned recesses in the upper surfaces of the side mem-



bers adjacent the ends thereof removed from the connected ends and within which a removable block carrying electrical contacts is adapted to be positioned, and spring fingers on the upper surfaces of the side members adjacent said recesses and having free ends overlying the recesses and adapted to bear on the block when in the recesses and to hold it therein.

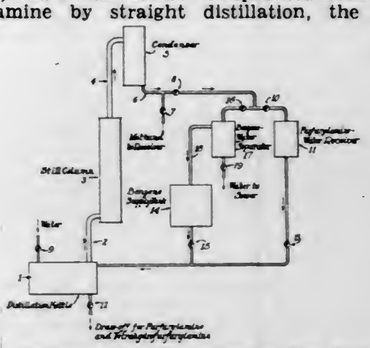
2,315,138
METHOD OF KNITTING
William L. Smith, Jr., Pawtucket, R. I., assignor to Hemphill Company, Central Falls, R. I., a corporation of Massachusetts
Application February 7, 1942, Serial No. 429,851
3 Claims. (Cl. 66—41)



1. A method of knitting an accordion stocking top in a circular, independent needle knitting machine having needles and sinkers which function in a needle cylinder and a sinker head respectively, said needle cylinder and sinker head each being of a diameter 10% to 20% greater than that now accepted as standard for any particular weight of fabric in question, including the steps of measuring and drawing loops of a so-called main yarn and an accordion yarn at spaced feeding stations, drawing large needle loops and small sinker loops by maintaining a ratio of from 2.8:1 to 4:1 between the diameter of needle hooks at the stitch engaging portion thereof and the thickness of sinkers at that part of the sinker over which loops are measured, thereby to permit the drawing of accordion yarn floats proportionately longer so as to impart to the fabric greater stretch and elasticity.

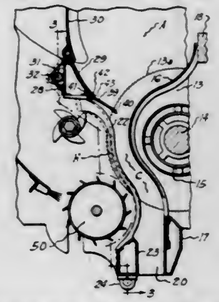
2,315,139
PROCESS FOR SEPARATION OF FURFURYLAMINES
Leonard A. Stengel and Walter K. O'Loughlin, Terre Haute, Ind., assignors to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland
Application June 23, 1941, Serial No. 399,432
8 Claims. (Cl. 202—42)

1. In a process for the separation of furfurylamine from admixture with other liquids incapable of forming azeotropes therewith or with water, and which cannot be separated from furfurylamine by straight distillation, the step



which comprises adding water to the furfurylamine-containing mixture, and distilling off the resultant furfurylamine-water azeotrope.

2,315,140
COTTON GIN
Henry E. Thompson, Dallas, Tex., assignor to The Murray Company, Dallas, Tex., a corporation of Texas
Application April 11, 1941, Serial No. 388,018
9 Claims. (Cl. 19—56)

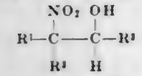


1. The combination with a cotton gin having a battery of ginning saws with ginning ribs disposed therebetween and also having a roll box above said saws, of a huller rib assembly, including a lower rib rail located below the saws, an upper rib rail disposed within the forward portion of the roll box, a plurality of huller ribs fastened to the rib rails and extending between the saws, said huller ribs being spaced from the ginning ribs whereby a seed outlet channel from the roll box is formed between the ribs, means for pivotally mounting the lower rib rail, whereby the huller rib assembly may be swung relative to the ginning ribs to vary the space between the huller ribs and ginning ribs, means connected with the upper rib rail to swing said assembly to properly adjust the huller ribs with respect to the ginning ribs, and means operable from the exterior of the gin for actuating said last named means.

2,315,141
PROCESS AND COMPOSITION FOR THE PREPARATION OF REFLECTING SURFACES
Philip F. Tryon, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland
No Drawing. Application April 9, 1942, Serial No. 438,307
8 Claims. (Cl. 117—35)

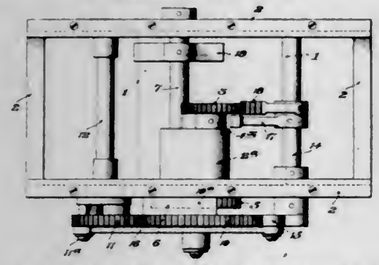
5. A method for producing a silvered reflecting

surface, comprising reacting a silver ammonia complex, in the presence of a base, with a nitrohydroxy compound of the formula:



wherein R^1 and R^2 represent a member selected from the group consisting of hydrogen, hydroxyalkyl, and alkyl, and R^3 represents a member selected from the group consisting of hydrogen, aryl, and alkyl, said reaction being effected in the presence of the surface to be silvered.

2,315,142
BED MOTION FOR PRINTING PRESSES
Burt F. Upham, Grimsby, Ontario, Canada
Application September 9, 1940, Serial No. 356,074
19 Claims. (Cl. 74—27)



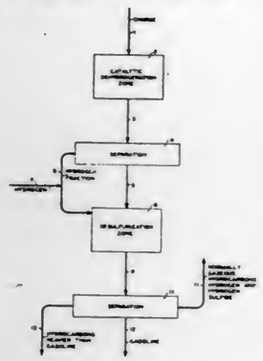
1. In a bed motion, a bed rack, a bed driving pinion meshing with said rack; means for alternately rotating said pinion at uniform speed in opposite directions; a segment rotatable with said pinion; a pair of oscillatory segments; and means for oscillating said pair whereby one segment of the pair will engage the pinion segment and cause reversal of the bed at one end of said uniform bed movement, and the other segment will engage the rack and cause reversal of the bed at the other end of said uniform bed movement; said oscillatory segments engaging the pinion segment and rack respectively while the pinion is disengaged from the said rotating means.

2,315,143
ROASTING FORK
Walter R. Thompson, Ruffin, N. C.
Application August 6, 1942, Serial No. 453,815
6 Claims. (Cl. 53—5)



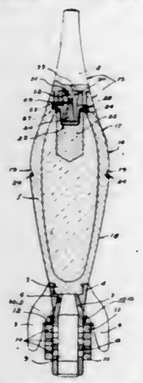
1. A roasting fork comprising an elongated handle, one end of which is adapted to be gripped by the fingers of an operator's hand, a plurality of elongated tines carried by the other end of said handle, each tine being mounted for rotation along its longitudinal axis, and means connecting said tines and engageable by the thumb of said operator's hand for rotating said tines along their longitudinal axis.

2,315,144
TREATMENT OF HYDROCARBONS
Kenneth M. Watson, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application May 11, 1939, Serial No. 272,950
2 Claims. (Cl. 196—24)



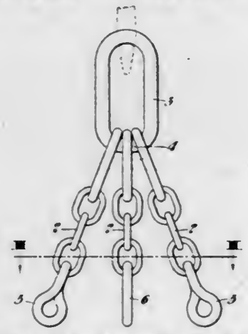
1. A process for improving hydrocarbon oil of relatively high sulfur content which comprises subjecting the oil to contact with a dehydrogenating catalyst at dehydrogenating conditions to form olefins and aromatics therein with the simultaneous production of hydrogen, and subjecting the sulfur-containing dehydrogenated hydrocarbons to hydrogenation with hydrogen formed in the dehydrogenating step a a temperature of about 750 to 1000° F. and under a pressure of about 750 to 5000 pounds per square inch, thereby converting the sulfur to hydrogen sulfide and effecting substantial saturation of the olefins.

2,315,145
VANED PROJECTILE
Jean Wauters, Brussels, Belgium; vested in the Alien Property Custodian
Application July 24, 1939, Serial No. 286,278
In Luxemburg July 30, 1938
5 Claims. (Cl. 102—49)



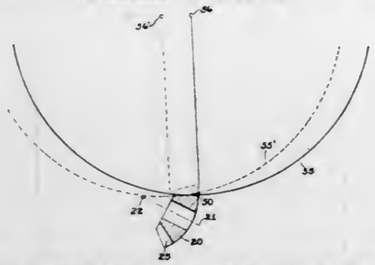
1. A projectile comprising a body, a tail for carrying a propelling charge, means for centering said tail along the longitudinal axis of said body and rearwardly of said body, a radially extending flange solid with said tail, stabilizing blades fixed at the rear of said body, the outer contour of said flange assuming the form of eccentric sectors engaging the inner edges of the blades and adapted to exert an increasing pressure thereon when the tail is rotated in an appropriate direction about its longitudinal axis whereby the tail is temporarily fixed to the body, said tail being adapted to be detached from the shell at firing.

2,315,146
MULTIPLE CHAIN ASSEMBLY
Earl G. White, Hobart, Ind.
Application August 1, 1942, Serial No. 453,273
2 Claims. (Cl. 294—65.5)



1. A multiple chain assembly including a common lifting link, three chains suspended therefrom, the free end links of two of said chains being twisted through an angle of about 60 degrees about the longitudinal axes of the links, as and for the purposes described.

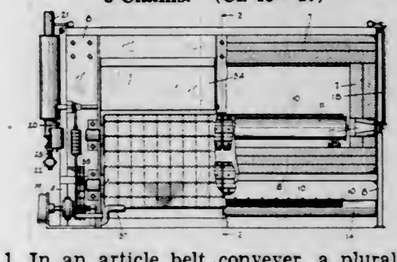
2,315,147
CUTTER FOR AND METHOD OF CUTTING GEARS
Ernest Wildhaber, Irondequoit, N. Y., assignor to Gleason Works, Rochester, N. Y., a corporation of New York
Application September 17, 1937, Serial No. 164,340
53 Claims. (Cl. 90—9)



1. A rotary disc cutter for cutting tapered gears, said cutter having a plurality of cutting blades arranged radially around its periphery with a gap between the last and first blades which is of sufficient angular extent to permit of indexing a gear blank, when the gap is abreast of the blank, without relative withdrawal of the cutter from the blank, said blades having side-cutting edges of concave circular arcuate shape, corresponding side-cutting edges of successive blades having progressively varying radii of curvature.

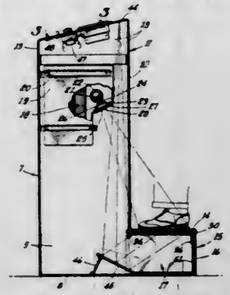
3. The method of cutting a gear which comprises employing a rotary disc cutter that has a plurality of cutting blades arranged radially part-way around its periphery with a gap between the last and first blades, and rotating said cutter in engagement with a gear blank while holding the blank stationary on its axis and while producing a relative feed movement between the cutter and blank longitudinally of the teeth of the blank in time with the cutter rotation so that different blades cut at different points along the length of a gear tooth space as the rotating cutter is fed across the face of the blank, and indexing the blank while the gap in the cutter is abreast of the blank.

2,315,148
LEHR CONVEYER
George W. Batchell, Toledo, Ohio
Application April 15, 1941, Serial No. 388,651
3 Claims. (Cl. 49—47)



1. In an article belt conveyer, a plurality of hollow rollers; a plurality of bearing rollers; each end of the hollow rollers supported on a bearing roller, the axes of the bearing rollers located substantially in the vertical planes of the axes of the hollow rollers; a plurality of guide rollers, each guide roller located between each pair of ends of the consecutive hollow rollers; a belt located on the hollow rollers; means for moving the belt on the hollow rollers; and means for rotatably supporting the bearing and guide rollers.

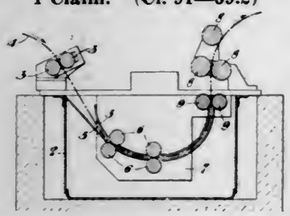
2,315,149
X-RAY MACHINE
Elmer Jared Bliss, Boston, Mass.
Application June 29, 1940, Serial No. 343,202
9 Claims. (Cl. 250—50)



1. In a device of the character described, a compartment comprising sides and a top, X-ray apparatus, means to support said X-ray apparatus laterally of the area above the top of the compartment and in a position to direct a beam against said top, a cassette, the entire area above the portion of said top to which the beam is

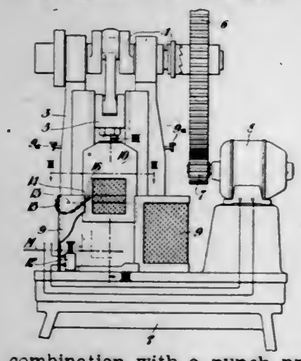
directed being unrestricted whereby a person standing on said portion of the top may see his feet without moving, one of the sides of said compartment having a slot therein for the reception of said cassette into said compartment, means in said compartment adjacent said slot to support said cassette in said compartment below said top.

2,315,150
EXIT ROLL FOR GALVANIZING POTS
Samuel H. Bobrov, Chicago, Ill.
Application August 10, 1939, Serial No. 289,475
1 Claim. (Cl. 91—59.2)
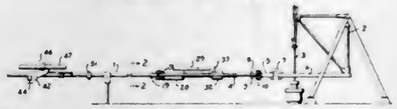


In a galvanizing pot containing molten galvanizing metal, the combination with means for conveying sheets through said metal, of a pair of exit rolls rotatably mounted in the pot and being disposed at least partially in the molten metal, the surfaces of said rolls being composed of closely spaced indentations distributed thereover with substantial uniformity, the indentations being of sufficient magnitude and forming channels for flow of the molten metal axially as well as circumferentially of the roll surface to provide a self-rinsing action in contact with the sheet in the molten metal, said rolls being loosely mounted so as to only exert sufficient pressure upon the sheets to move the latter therebetween.

2,315,151
SAFETY GUARD FOR PUNCH PRESSES AND THE LIKE
Jesse James Booth, Duquesne, Pa.
Application December 20, 1940, Serial No. 371,031
4 Claims. (Cl. 192—134)



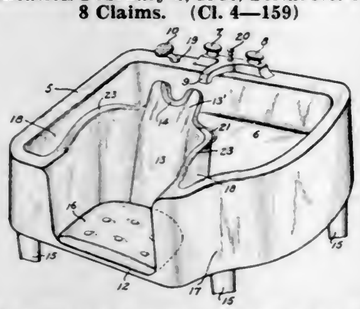
1. In combination with a punch press or the like, an electric motor for actuating said press, an electric circuit with said motor arranged therein, a safety guard arranged at least around the dies of said press, said guard consisting of a cage-like member having an opening arranged therethrough with a vertically actuated door arranged over said opening, a switch arranged in said circuit for controlling the energization of said motor, said switch being positioned to one side of the opening through said cage-like member and arranged on the base of said press, and a finger-like member carried by said door which cooperates with said switch, said switch adapted to be open so as to maintain the circuit in an open condition at all times when the door is raised and assumes an open position whereby the press is prevented from being operated with the finger-like member carried by said door adapted to close said switch when the door is lowered and assumes a closed position so as to permit the press to operate.

2,315,152
PUMP PULL ROD ADJUSTER
Steve Bullum, Greggton, Tex.
Application October 14, 1940, Serial No. 361,115
7 Claims. (Cl. 74—586)



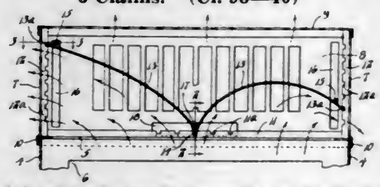
1. A pump pull rod adjuster comprising a rod, a rod clamp means thereon, means for attaching the clamp means to a pump jack, an adjusting jack pivoted on the clamp means and operative to adjust the rod through the clamp means.

2,315,153
HAIR WASHING SINK
Flora H. Ellinger, Chicago, Ill.
Application February 2, 1942, Serial No. 429,247
8 Claims. (Cl. 4—159)



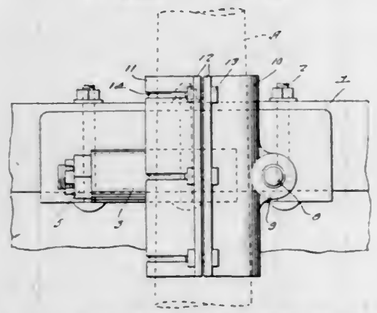
1. A unitary structure comprising, a sink having a drainage basin provided with water supply means near the rear thereof, and a seat formed integral with said sink and having a back provided with a head rest disposed medially of and near the front of the basin.

2,315,154
HEAT DEFLECTOR FOR CIRCULATING HEATERS
Harry E. Fenner, Eau Claire, Wis., assignor of one-half to Donald Boyd, Eau Claire, Wis.
Application December 28, 1940, Serial No. 372,214
3 Claims. (Cl. 98—40)



1. A heat deflector for circulating heaters having top heated air outlets comprising, an upper frame portion substantially co-extensive with the top outlet of said heater, said frame including substantially vertical end members, a deflector member supported by said frame portion and including a pair of wing-like flexible sheets joined along adjacent edges, the other edges of said deflector parallel to said joined edges being in transverse engagement with and movable relative to said frame end members, said end members including a plurality of means for engaging and supporting said other edges at any one of a plurality of points vertically of said end members, said frame portion including means in supporting engagement with said flexible sheets where said sheets are joined together, and said sheets at their point of jointure being located below the point of engagement of said other edges with said frame end members, and said sheets at their point of jointure being shiftable relative to said supporting frame portion to different positions toward and away from said end members to vary the amount of heated air deflected by the respective sheets.

2,315,155
OARLOCK
Richard J. Glissendorf, Phillips, Wis.
Application July 6, 1940, Serial No. 344,273
2 Claims. (Cl. 9—26)

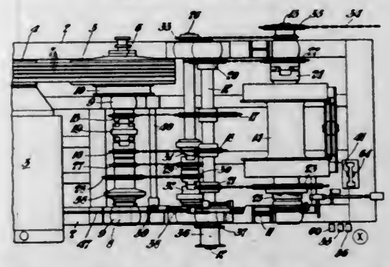


1. An oar lock of the class described comprising a bracket for attachment to a part of a boat, a horizontally arranged sleeve connected with the bracket, a clamp for connecting with a part of an oar, a vertical sleeve connected with the clamp and an angle-shaped member including a horizontal shank rotatably arranged in the sleeve of the bracket and a vertical shank rotatably arranged in the sleeve of the clamp, and means for limiting rotary movement of the horizontal shank to prevent the vertical shank from moving to a horizontal position said means including a slot and tongue connection between the sleeve of the bracket and a part of the angle-shaped member.

2,315,156
LOW-ALLOY CORROSION-RESISTANT STEEL
Clifford P. Larrabee, Vandergrift, Pa.
No Drawing. Application October 10, 1941, Serial No. 414,523
2 Claims. (Cl. 75—125)

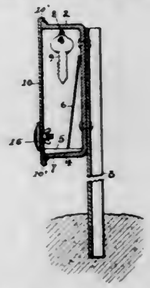
1. A steel of the low-alloy type and which is characterized by increased resistance to both fresh water and atmospheric corrosion, said steel containing not more than .10% carbon, from .20 to .40% manganese, from .05 to .10% phosphorus, less than .04% sulphur, not more than .10% silicon, from .20 to .40% copper, from 1.75% to 3% chromium, about four times its carbon content of titanium, and with its balance substantially all iron.

2,315,157
DRAW WORKS
August R. Maier, Oil City, Pa., assignor to Oil Well Supply Company, a corporation of New Jersey
Application June 14, 1941, Serial No. 398,163
1 Claim. (Cl. 254—187)



In a drawworks, the combination with a supporting base, of a jack shaft transversely mounted thereon, a pair of spaced upright side frames secured to the base, a line shaft transversely mounted between said frames on the side thereof adjacent the jack shaft, a drum shaft mounted transversely between said frames on the other side thereof from said line shaft, means for driving the line shaft directly from the jack shaft including a clutch on the latter, means for driving the drum shaft from the line shaft, a rotary drive shaft mounted transversely between the side frames on the same side thereof as and beneath the line shaft, means for directly driving the rotary drive shaft at one of two different speeds from the jack shaft including a clutch driving a dual sprocket on the latter shaft, a reverse clutch on the jack shaft, a prime mover mounted transversely on the base adjacent the jack shaft and driving the latter through said reverse clutch, separate controls connecting each of said clutches mounted on the base and terminating in separate actuating means adjacent the driller's position at the drawworks, thereby providing selective, independent and reversible drives for the drum and rotary drive shafts from the jack shaft.

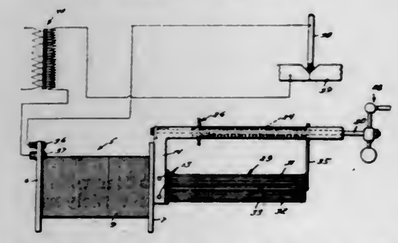
2,315,158
PROPERTY MARKER
Edwin A. Markham, Gulfport, Fla.
Application October 21, 1940, Serial No. 362,048
2 Claims. (Cl. 40—125)



2. A device of the character described, comprising, an open faced box member, substantially square in shape with a curved top portion, spaced, downward and outwardly sloped troughs formed within the inner face of the base portion thereof, channels in drainage communication with said troughs and formed vertically therefrom within the edge of said base, and a closure

for said box, said closure having a lip formed upon the outer edges thereof adapted to overlap the outer edges of said box.

2,315,159
AUTOMATIC INDUCTIVE REACTANCE FOR WELDING CIRCUITS
Mark T. Moore, Kearney, Nebr.
Application April 2, 1941, Serial No. 386,526
4 Claims. (Cl. 171—242)



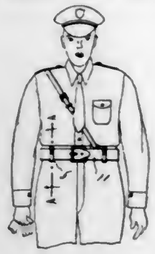
1. An automatic reactance for an electric welding circuit, said reactance comprising a magnet coil having a winding, a longitudinal core for said coil, means comprising a frame supporting said core for movement relative to said coil in response to current changes in said circuit, said means comprising spring means on said frame mechanically resisting movement of said core toward said coil, and adjusting means on said frame for initially positioning said core relative to said coil and correspondingly determining the tension of said spring means, said frame comprising an element having spaced end members, said adjusting means comprising a screw rotatably extending through smooth openings formed in said end members, and means for rotating said screw, said spring means comprising a helical spring circumposed on said screw with one end thereof engaging an abutment threaded on said screw, said core having an element adjacent said screw and operatively engaging the opposite end of the spring.

2,315,160
NEUROLOGICAL UNIT
John Roger Newstedt, Cincinnati, Ohio, and John Bradford Millet, Boston, Mass.
Application June 12, 1942, Serial No. 446,732
6 Claims. (Cl. 128—2)



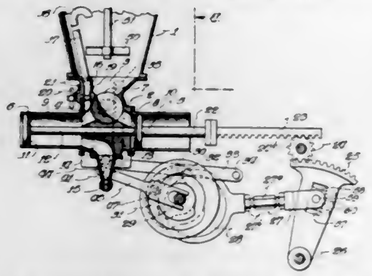
1. A neurological unit comprising a tuning fork having a neck portion extending from one end thereof, a hand gripping element fastened intermediate its ends to the free end of the neck portion and a reduced body contact member mounted on and extending from the element.

2,315,161
DETACHABLE BELT LOOP
Harry Oliver Noll, San Diego, Calif.
Application June 1, 1942, Serial No. 445,344
2 Claims. (Cl. 24—73)



1. A belt loop for trousers comprising a strip of flexible material, a pair of snap fasteners connecting an intermediate part of the strip to the trousers, and a snap fastener connecting the ends of the loop together.

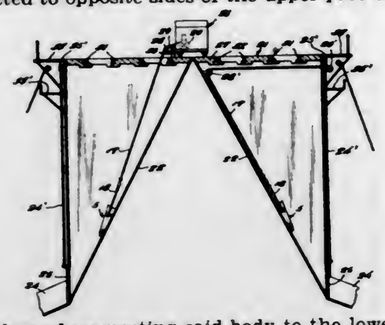
2,315,162
MEASURING AND DISPENSING MACHINE
Harry L. Rasmussen, Chicago, Ill.
Application January 9, 1941, Serial No. 373,719
19 Claims. (Cl. 221—103)



1. In combination, a hopper, a feed chamber and a measuring chamber, valve means adjustable to connect the feed chamber alternatively with the hopper and with the measuring chamber, and means operable to transfer material forcibly from the feed chamber to the measuring chamber while said feed chamber is disconnected from the hopper, the volumetric capacity of the measuring chamber being less than that of the feed chamber, and said measuring chamber having an escape passage with a restricted outlet for creating a pressure under which the material is accumulated in the measuring chamber.

2,315,163
ORE POCKET CLEARING MEANS
James A. Robinson, Sault Ste. Marie, Mich.
Application March 28, 1942, Serial No. 436,704
4 Claims. (Cl. 259—47)

1. A scraper for dislodging ore or the like adhering to the sides and/or slanting bottom of an ore pocket or the like, said scraper comprising a tapered body disposed with its wider end downwardly, the top and bottom of said body being plane to slide gravitationally down along said slanting bottom, and an operating cable connected to the upper and narrower end portion of said body for raising and lowering the scraper along said slanting bottom to dislodge ore accumulated thereon, a bail having legs flexibly connected to opposite sides of the upper part of said



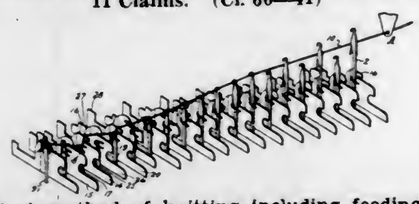
body and connecting said body to the lower end of said operating cable.

2,315,164
GAME
Walter Schiller, Evanston, Ill.
Application July 21, 1941, Serial No. 403,291
2 Claims. (Cl. 273—146)



1. A game device comprising a sealed opaque container and a plurality of cubical dice sealed therein, each die being provided with similar identifying indicia for distinguishing the dice in the container from the dice sold in other containers and being provided on its faces with the usual numerical indicia.

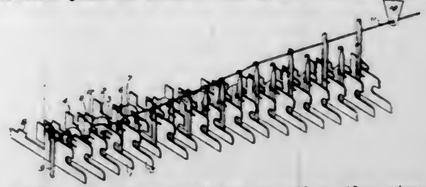
2,315,165
METHOD OF KNITTING
Eugene St. Pierre and Donat H. Fregeolle, Pawtucket, R. I., assignors to Hemphill Company, Central Falls, R. I., a corporation of Massachusetts
Application February 9, 1942, Serial No. 430,042
11 Claims. (Cl. 66—41)



1. A method of knitting including feeding a yarn to all of the needles at one feeding station and feeding another and relatively fine yarn to alternate needles only at the other feeding station, and causing alternate needles to draw the second mentioned yarn over the nibs of sinkers.

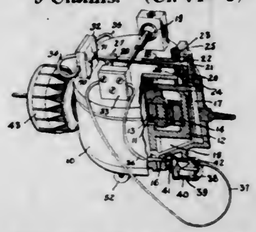
2,315,166
METHOD AND MACHINE FOR KNITTING
Eugene St. Pierre, Pawtucket, R. I., assignor to Hemphill Company, Central Falls, R. I., a corporation of Massachusetts
Application April 2, 1942, Serial No. 437,403
10 Claims. (Cl. 66—41)

1. In a method of knitting an accordion fabric wherein at one feeding station a yarn is knitted by all needles and at a second feeding station another yarn is knitted by spaced needles only,



floating over intermediate needles, the step of elongating the floats of the second mentioned yarn by robbing material from the stitches thereof.

2,315,167
GYROSCOPE
Gert Zoege von Manteuffel and Fritz Waack, Berlin, Germany; vested in the Alien Property Custodian
Application January 15, 1941, Serial No. 374,528
In Germany December 6, 1939
9 Claims. (Cl. 74—5)



1. In a gyro-vertical for aircraft, a gyroscope having a rotor housing mounted in substantially neutral equilibrium, means including an electric torque motor for erecting said gyroscope, a pneumatic-electric relay having a movable member controlling said motor upon displacement thereof, a gravitationally responsive controller mounted on said gyroscope, and air flow means brought into action thereby for actuating said movable member upon tilt of said gyroscope, whereby an erecting torque is applied by said motor to the gyroscope upon tilt thereof.

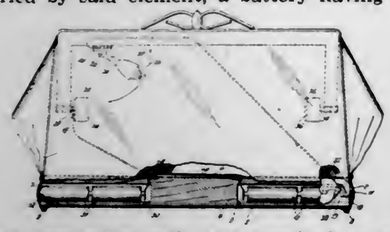
2,315,168
METHOD OF PRODUCING LACTIC ACID ESTERS
George Gordon Urquhart, Cynwyd, Pa.
No Drawing. Application December 13, 1940, Serial No. 369,955
4 Claims. (Cl. 260—484)

1. A process for the production of lactic acid esters of glycerol, which comprises condensing a glycerol dihalohydrin with an alkali salt of lactic acid.

2,315,169
HANDBAG AND SIMILAR PORTABLE ENCLOSURE
Edmond J. Van Iseghem, Overland, Mo., assignor of one-half to Hall W. Whiteaker, Clayton, Mo.
Application April 17, 1942, Serial No. 439,351
6 Claims. (Cl. 240—6.45)

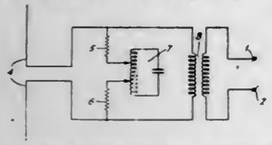
1. In a handbag having walls forming an enclosure and movable toward and from each other to close and open the handbag, and frames attached to said walls for swinging movements toward and from each other when the handbag is closed and

opened; a pivot attached to one of said frames for turning movements thereby when the handbag is closed or opened and having pivotal connection with the other one of said frames, an insulating element supported by said pivot for turning movements about said pivot, means connecting said element with that one of said frames having pivotal connection with said pivot for turning said element about said pivot when the handbag is closed or opened, an electric terminal carried by said element, a battery having elec-



trical connection with said terminal, a switch member attached to said pivot and movable by the relative turning movements of said pivot and said element into and out of contact with said terminal for establishing and breaking electrical communication between said contact and said frames when the handbag is opened and closed respectively, an electric lamp having electrical communication with one of said frames, and an electrical connection from said battery to said lamp.

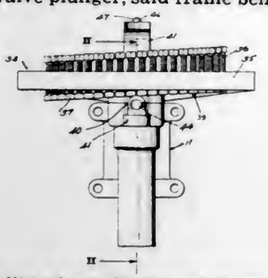
2,315,170
TRANSMITTING OR RECEIVING DEVICE COMPRISING A DIPOLE ANTENNA
Adelbert van Weel, Eindhoven, Netherlands; vested in the Alien Property Custodian
Application January 21, 1942, Serial No. 427,554
In the Netherlands August 1, 1940
2 Claims. (Cl. 250—33)



1. In an antenna system, an antenna and high frequency transducer means coupled to terminals of said antenna, a circuit including a capacity and an inductance connected in parallel and tuned to the operating frequency of said antenna, tapping points on said inductance including less than all of said inductance therebetween so located that the reactance between said tapping points is numerically equal to the product of the capacity of said antenna and the square of the radiation resistance of the antenna, and a series circuit including an ohmic resistance equal to the radiation resistance of said antenna and the portion of said inductance between said tapping points connected across the terminals of said antenna.

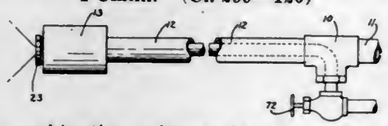
2,315,171
ADJUSTABLE CHARACTERISTIC CONTROL VALVE
Joseph T. Voorheis, Oakland, Calif.
Application September 30, 1940, Serial No. 358,987
1 Claim. (Cl. 251—132)

An adjustable characteristic flow valve, comprising a valve housing including a valve chamber and inlet and outlet ports connecting therewith, a valve seat within the chamber of the housing comprising a cylindrical element having an outlet opening in the wall thereof through which communication may be established between the ports, a plunger valve element reciprocating through said valve seat and acting to vary the effective opening between the ports and through the side wall of the valve, spring means normally urging the valve to one of its extreme positions, an arcuate frame rigidly supported by the housing and disposed in a plane normal thereto, said frame being concentric with the axis of the valve plunger, said frame being formed



with a plurality of equally spaced threaded openings having axes parallel to the axis of the valve plunger, screws extending through said openings, a bearing block carried on the end of each screw, a valve operating lever secured to the free end of the plunger and disposed radially with relation to the arcuate frame, and a roller carried by said lever and bearing against the bearing blocks on the ends of the screws, whereby swinging movement of the lever will cause the roller to travel along the cam surface provided by the bearing blocks and will reciprocate the valve plunger.

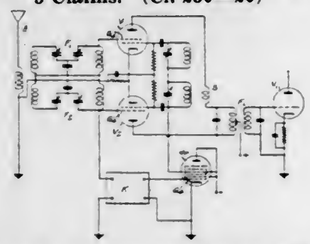
2,315,172
MEANS OF ATOMIZING LIQUIDS
Joseph T. Voorheis, Oakland, Calif.
Application December 9, 1940, Serial No. 369,224
1 Claim. (Cl. 299—120)



In combination, a burner head including a cylindrical body member having longitudinal passageways therein closed at opposite ends, a central passageway therethrough open at its opposite ends, the inner end of said passageway receiving a fluid supply pipe of relatively large diameter, the opposite end of said passageway being formed with a smooth cylindrical bore continuing with a threaded bore, said threaded bore communicating with a length of passageway of reduced diameter, a return pipe fitted within said length of passageway of reduced diameter and extending longitudinally of the supply pipe, said return pipe being sufficiently less in diameter than the supply pipe as to form an annular passageway between the pipes for the flow of liquid fuel, radial passageways leading from said annular space to the longitudinal passageways in the body member, radial passageways at the outer end of said longitudinal passageways establishing communication between said passageways and the smooth cylindrical bore in the body member, a main burner tip extending through said smooth cylindrical bore and being screwed into the threaded bore of the body member, the outer end of said burner tip closing the outer end of the cylindrical bore, whereby an annular chamber will occur around the burner tip, a

central cylindrical bore within the burner tip in substantially the same plane as that of the smooth cylindrical bore of the body member, the outer end of said central cylindrical bore continuing in a frusto-conical wall converging outwardly and centrally of the burner tip, a restricted discharge opening at the apex of said wall section, tangential ducts through the wall of the burner tip establishing communication between the cylindrical bore within the body member and the cylindrical bore within the burner tip, an inner burner tip mounted within the bore of the outer burner tip and spaced from the walls thereof, said inner burner tip having means to close the cylindrical bore within the outer burner tip at the inner end thereof, the forward end of said inner burner tip being frusto-conical and spaced from the frusto-conical section of the bore of the inner burner tip, a relatively small discharge passage in the end of the inner burner tip in axial alignment with the discharge passage in the outer burner tip, tangential ducts in the walls of the inner burner structure for delivering liquid to the central passageway thereof, ducts through the wall of the outer burner tip communicating with the annular bore in the body member and the last said tangential ducts to supply oil to the inner burner tip and return ducts establishing communication between the interior of the inner burner tip and the return pipe and the interior of the outer burner tip and the return pipe.

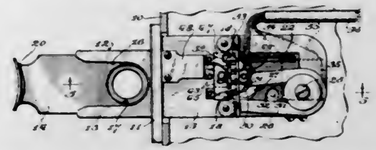
2,315,173
ARRANGEMENT FOR NOISE ELIMINATION AT THE RECEIVER
Martin Wald, Bucharest, Rumania; vested in the Alien Property Custodian
Application April 4, 1940, Serial No. 327,896
5 Claims. (Cl. 250—20)



1. In a radio receiver, an antenna, a first filter for selecting the transmitted signal from said antenna, and a second filter for selecting from said antenna an auxiliary frequency range close to said transmitted signal, oscillators associated with each of said filters for producing an intermediate frequency signal in each filter, and means operative upon the receipt of a disturbance for causing the frequency of the oscillator associated with said auxiliary frequency range to change by an amount equal to the tuning difference between the two filters and means for combining the disturbance signal outputs of said first and second filter in opposed relation for balancing out disturbances.

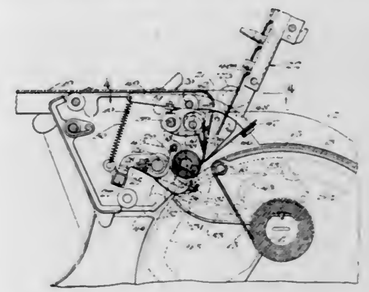
2,315,174
APPARATUS FOR SEPARATING GENUINE FROM SPURIOUS COINS
Fred E. A. Wallin, Chicago, Ill., assignor to N. Marshall Seeburg
Application May 15, 1937, Serial No. 142,743
8 Claims. (Cl. 194—100)

1. Apparatus for separating genuine from spurious coins comprising a cabinet, a coin slide having a coin receiving pocket whereby a coin may be slid from a coin receiving position outside the cabinet to a coin discharging position inside the cabinet, an obstructing member normally located below the pocket in coin discharging position to prevent discharge of a coin from the slide, a contact of a metal dissimilar to that of the genuine coin adapted to engage the coin in said



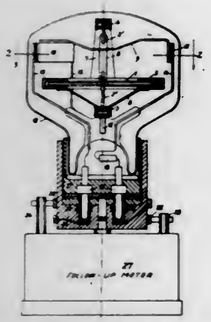
pocket in its coin discharge position, means for heating the contact, means completing a circuit through said contact and coin, and means controlled by the current in said circuit for controlling the movement of the obstructing member to coin releasing position, said slide being adapted to return the coin to the exterior of the cabinet when the obstructing member is not moved to coin releasing position.

2,315,175
DUPLICATING APPARATUS
Robert Alonzo Williams, Chicago, Ill., assignor to Ditto, Incorporated, Chicago, Ill., a corporation of West Virginia
Application August 9, 1941, Serial No. 406,211
10 Claims. (Cl. 101—132)



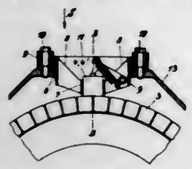
1. In a duplicating machine, the combination of a drum rotatably mounted on a horizontal axis and having a recess in its peripheral surface, a platen roller rotatably mounted in position to press on said drum, an obliquely disposed paper guide along which copy sheets are adapted to move downwardly toward said platen roller, margin bar means movably mounted in position for engagement with a copy sheet on said paper guide for supporting its lower end portion opposite to said platen roller, means effective at a predetermined point in each revolution of the drum to move said margin bar means automatically out of the path of a copy sheet on said paper guide, and means comprising a thin resilient plate movably mounted in position for pressing said copy sheet lightly against an adjacent stationary part and adapted to be flexed readily for applying pressure effectively against portions of different thicknesses so as to hold the copy sheet yieldingly against movement downwardly on the guide after said margin bar means has been withdrawn from engagement with the copy sheet.

2,315,176
ELECTRICAL FOLLOW-UP MOVEMENT
Erich Zachariä, Berlin-Zehlendorf, Germany; vested in the Alien Property Custodian
Application May 9, 1938, Serial No. 206,931
In Germany May 10, 1937
6 Claims. (Cl. 33—222)



3. In a magnetic compass the combination of a closed casing containing gas at a pressure smaller than normal sea level atmospheric pressure; a compass magnet system pivoted in said casing; said magnet system carrying an electrode; and a second electrode fixedly connected to said chamber for producing or interrupting a glow discharge between said electrodes in dependence on the position of the compass magnet system in azimuth relative to the compass casing.

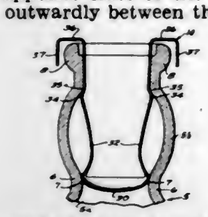
2,315,177
BRUSH MOUNTING
Otto Zadnik, Stuttgart, Germany; vested in the Alien Property Custodian
Application August 6, 1941, Serial No. 405,671
In Germany March 14, 1940
7 Claims. (Cl. 171—324)



1. A ventilated enclosed commutator machine with openings for the passage of cooling air, a commutator, and brush holders connected across said openings, said brush holders including brush boxes supported in said openings by spaced ribs serving as cooling surfaces, between which cooling air may flow, and brushes in said boxes contacting said commutator.

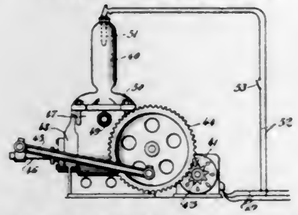
2,315,178
CREAM SEPARATOR
Anthony Aroney, Los Angeles, Calif.
Application May 3, 1941, Serial No. 391,745
2 Claims. (Cl. 210—51.5)

1. In combination with a milk bottle having a neck, the upper interior portion of the neck presenting a downwardly facing annular shoulder and the lower interior portion of said neck presenting an upwardly facing annular seat, a valve for closing communication between the neck and the lower portion of the bottle including a disc engaging said seat, and a pair of resilient stems extending upwardly from diametrically opposite sides of the disc, said stems being bent outwardly between their ends where-



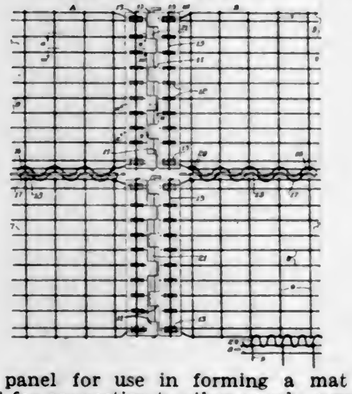
by to bear against said shoulder and thereby resiliently hold the disc against the seat.

2,315,179
PUMPING OF LIQUIDS
Samuel S. Allender, New York, N. Y., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application December 18, 1939, Serial No. 309,755
1 Claim. (Cl. 103—224)



In combination, a fluid pump driven by an electrical power means, leads connecting said power means with a source of electricity, means for equalizing the pulsations of said pump comprising a chamber mounted in the discharge line of said pump, means for heating said chamber comprising a casing mounted on the outside of said chamber, heat conducting electrical insulating material within said casing, resistance elements in said casing mounted within said material, and means for connecting said resistance elements with said source of electricity.

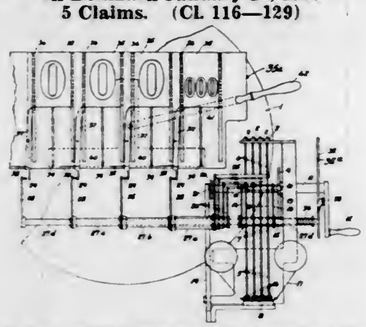
2,315,180
FIELD MAT
Oscar F. Arthur, Belle Vernon, Pa., assignor to Tri-State Engineering Co., a corporation of Maryland
Application April 7, 1942, Serial No. 437,989
5 Claims. (Cl. 94—4)



1. A panel for use in forming a mat and adapted for connection to other panels, compris-

ing a mesh having strand and stay wires, a plate extending transversely of the strand wires and provided with slots, portions of the strands adjacent to their extremities being deflected through the slots, from one side of the plate, and a retaining element located between the opposite side of the plate and said deflected portions, to thereby anchor the strand wires to the plate.

2,315,181
WEIGHING MACHINE WITH DIGIT INDICATION OF WEIGHING VALUE
Anthon Johannes Baagøe, Paris, France; vested in the Alien Property Custodian
Application January 9, 1940, Serial No. 313,114
In Denmark January 14, 1939
5 Claims. (Cl. 116—129)



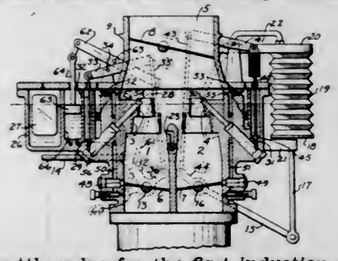
2. In a weighing apparatus, a member movable in degree proportional to the setting of the weighing apparatus, a plurality of groups of indicator members, a plurality of displaceable feeler members co-acting with said movable member, one of said feeler members being associated with each group of indicator members, means for selectively controlling movement of said indicator members in dependence upon the amplitude of motion of said feeler members, said selecting means including arms mounted to turn independently of each other about a common axis each in response to movement of one of said feeler members, and means for moving the several rotatable members axially as a unit independently of said feeler members.

2,315,182
PROCESS FOR RECOVERING NEUTRAL SUBSTANCES CONTAINING OXYGEN FROM OILS CONTAINING SUCH SUBSTANCES
Rudolf Bemmann, Leuna, Germany; vested in the Alien Property Custodian
No Drawing. Application April 9, 1941, Serial No. 387,610. In Germany April 26, 1940
4 Claims. (Cl. 260—593)

1. A process for recovering organic neutral substances containing oxygen selected from the class consisting of ketones, alcohols, ethers and esters from a hydrocarbon oil boiling below about 180° C. containing them which comprises extracting the oil with a solution of an alkali metal phenolate and then separating the neutral oxygen substances from the extract.
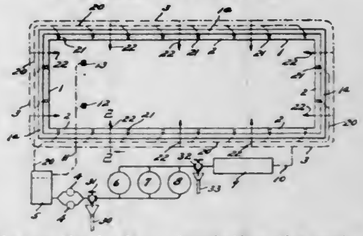
2,315,183
DUAL CARBURETOR
George M. Bicknell, St. Louis, Mo., and Van C. Worden, Detroit, Mich., assignors to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware
Application November 19, 1940, Serial No. 366,262
1 Claim. (Cl. 261—41)

In a dual carburetor, a fuel reservoir, first and second induction conduits having a common air inlet pipe and each having a venturi, main fuel nozzles for supplying fuel from said reservoir to each of said induction conduits, throttle valves for each conduit, idling systems for each of said conduits, the idling system for the first conduit communicating with the fuel nozzle for said conduit and the idling system for the second conduit communicating with the fuel reservoir independent of the second fuel nozzle, a metering pin controlling each main fuel nozzle, the metering pin for the fuel nozzle supplying the first induction tube being constructed and arranged to control the fuel flow to the idling system when



the throttle valve for the first induction conduit is in closed position and the metering pin controlling the main fuel nozzle to the second induction conduit including a valve constructed and arranged to close the fuel supply to said nozzle when the throttle valve for the second conduit is in closed position, manual means for operating the throttle valve and metering pin regulating the fuel supply to the first conduit, and means controlled by the pressure in the first conduit anterior to its throttle for operating the throttle valve and metering pin controlling the supply of fuel to the second conduit.

2,315,184
MEANS FOR AND METHOD OF MAINTAINING THE WATER OF SWIMMING POOLS AT SUBSTANTIALLY UNIFORM TEMPERATURE
Edward W. N. Boosey, Detroit, Mich.
Application October 7, 1941, Serial No. 414,008
5 Claims. (Cl. 210—11)

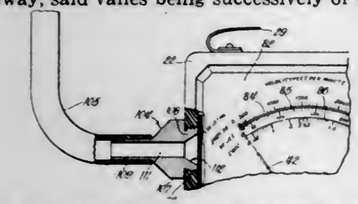


1. The method of re-circulating the water in a swimming pool which consists in discharging streams of heated water into the pool at a series of spaced points about the lower part thereof and by influence of the discharging streams automatically injecting heated water from the upper portion of the water in the pool into the streams of heated water discharging into the lower part of the pool.

2,315,185
AIR VELOCITY METER
John R. Boyle, Chicago, Ill., assignor to Illinois Testing Laboratories, Inc., Chicago, Ill., a corporation of Illinois
Application July 22, 1937, Serial No. 154,955
17 Claims. (Cl. 73—202)

1. In a meter, the combination of a housing

having an air passageway therein, a movable member comprising a plurality of angularly spaced vanes adapted to travel through said passageway, said vanes being successively of smaller



size for successively intercepting smaller areas of said passageway, yieldable means yieldingly resisting motion of said movable member, and indicating means responsive to the motion of said movable member.

2,315,186
CONTAINER
Hugo Büttner, Berlin-Charlottenburg, Germany; vested in the Alien Property Custodian
Application August 29, 1938, Serial No. 227,434
In Germany May 25, 1937
2 Claims. (Cl. 229—56)



1. A paper container particularly for cigars, comprising a pair of pockets, each pocket consisting of an outer wall and inner webs subdividing the pocket into a plurality of compartments, said pockets being integrally connected together into a unit, and disconnectable medium between the pockets so that they can be easily detached into two separate pockets and a flap for each pocket of which one flap of one pocket extends over both pockets and acts as a closure for its pocket and the other pocket while the other flap acts as a closure for its pocket when the pockets are detached into two separate pockets, the upper edge of the one pocket wall opposite the other pocket terminating below the upper edge of the webs and this pocket and the adjacent one being connected with one another at the free portions of said webs.

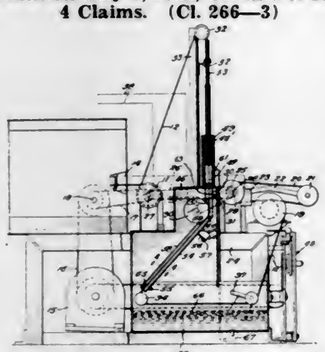
2,315,187
CYANIDATION OF ORE PULPS WITH LIMITED AGITATION
Thomas G. Chapman, Tucson, Ariz., and Verne W. Winters, Los Angeles, Calif., assignors, by direct and mesne assignments, of one-half to said Chapman and one-half to The Eagle-Picher Mining and Smelting Company, Joplin, Mo., a corporation of Delaware
No Drawing. Application July 24, 1941, Serial No. 403,838
10 Claims. (Cl. 75—2)

1. The steps in the cyanidation of gold ores, tailings or any other gold bearing material which comprise dissolving gold by cyanide, and sorption of the dissolved gold by carbonaceous material without continuously agitating the pulp mixture during the dissolving and sorbing actions.

2,315,188
METHOD OF TREATING BASIC LEAD SULPHATE
William J. Clapson, Joplin, Mo., assignor to The Eagle-Picher Lead Company, Cincinnati, Ohio, a corporation of Ohio
No Drawing. Application September 14, 1940, Serial No. 356,836
3 Claims. (Cl. 23—127)

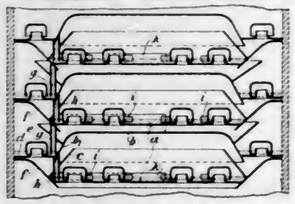
1. The herein described process of treating basic lead sulphate produced by the sublimation process which consists in selecting basic lead sulphate containing from 15 to 30 per cent of non-sulphated lead oxide and subjecting the basic lead sulphate to the action of steam at gauge pressure varying from approximately 4 pounds per square inch to approximately 92 pounds per square inch for approximately 2 hours.

2,315,189
WIRE PRODUCING MECHANISM
John Cook, Ridgewood, N. J.
Application July 7, 1941, Serial No. 401,388
4 Claims. (Cl. 266—3)



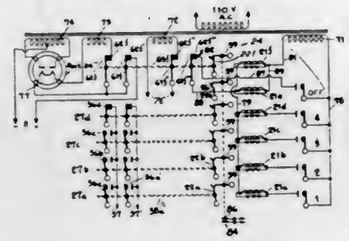
1. A wire heat-treating device comprising a pair of electrical contactor rollers, means to transmit wire longitudinally from one roller to the other into electrical contacting engagement therewith, wire quenching means comprising a container of water or the like liquid in proximity with the second roller, and having an opening shaped to conform with the roller to confine the liquid to engagement with the roller at its periphery, the container being provided with an overflow predetermining the height of liquid above the second roller, guide means to direct the wire along a predetermined path passing through the liquid, the path of the wire approaching the second contactor roller in a downwardly direction.

2,315,190
RECTIFYING COLUMN
Georg Eberhardt, Bitterfeld, Germany; vested in the Alien Property Custodian
Application November 14, 1940, Serial No. 365,666
In Germany November 2, 1939
2 Claims. (Cl. 261—114)



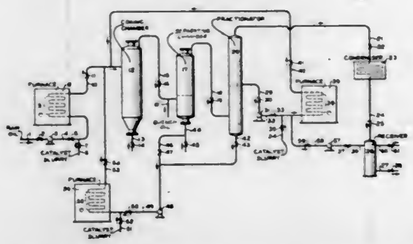
1. In a rectifying column for mixtures of liquids, circular and annular plates alternately arranged above one another in stagger, a hood forming a reflecting plane above each of said circular plates, a conical reflecting plane between each hood and circular plate, said hood and said reflecting plane forming an outlet under the annular plate immediately above, annular reflecting planes arranged one above the other between said annular plates and forming a channel under the circular plate between said annular plates, guiding means upon said circular plates to regulate the flow of the liquid and means to lead the liquid separated on the reflecting planes to the plate thereunder.

2,315,191
ELECTRICAL CONTROL APPARATUS
Harold F. Elliott, Chicago, Ill.
Application May 20, 1940, Serial No. 336,083
24 Claims. (Cl. 175—320)



1. Electrical apparatus including a plurality of relays, means for selectively closing said plurality of relays, latch means for releasably holding a selected relay in closed position, means acting on said holding means to release said held relay simultaneously with the energizing of a selected relay, and means for immediately restoring said holding means to a condition for holding the other selected relay in a closed position.

2,315,192
CATALYTIC CRACKING OF HYDROCARBONS
Gustav Egloff, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application May 17, 1940, Serial No. 335,649
4 Claims. (Cl. 196—48)



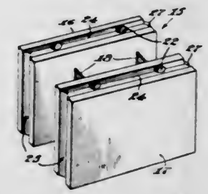
4. A conversion process which comprises subjecting hydrocarbon oil to catalytic cracking in admixture with a slurried catalyst in a primary cracking zone, introducing the conversion mixture to a vaporizing zone and therein separating vapors and gases from residue, subjecting the vapors and gases to fractional condensation to form a relatively heavy reflux condensate, a lighter reflux condensate, gasoline distillate and a normally gaseous product, recovering said gasoline distillate, combining normally gaseous products with at least a portion of said lighter reflux condensate, subjecting the mixture to catalytic cracking conditions with a slurried catalyst in a second cracking zone and introducing the resultant products to said vaporizing zone, cracking at least a portion of said heavy reflux condensate with a slurried catalyst in a third cracking zone and introducing the resultant products to said vaporizing zone.

2,315,193
TENSIONED TOP IRONING TABLE
Horace B. Fay, Willoughby, Ohio, assignor to Gridiron Steel Company
Application February 14, 1941, Serial No. 378,982
8 Claims. (Cl. 38—137)



8. In a metal top for ironing tables, the combination of a frame of ironing-board shape, a thin metal envelope snugly surrounding said frame and including a top sheet and connected bottom sheet, the top sheet being provided with ventilating openings, and the lower sheet being provided with an upwardly facing, heat reflective surface.

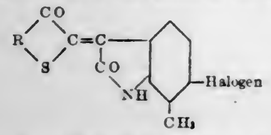
2,315,194
BUILDING BLOCK
Ira Foreman, San Bernardino, Calif.
Application January 30, 1940, Serial No. 316,391
1 Claim. (Cl. 72—44)



A building block comprising a pair of spaced parallel rectangular panels of corresponding dimensions, each of said panels having a longitudinal groove in one longitudinal edge thereof and a rib along the other longitudinal edge thereof, said grooves having a depth exceeding that of the ribs to provide a space between the bottom of the grooves and the ribs of assembled blocks, each of said panels having openings leading therethrough from the groove to and through the rib at points between the vertical medial line and the ends of the panel through which openings mortar may be flowed into the space between the bottom of the grooves and the ribs of assembled blocks, and gussets connecting said panels and having terminals embedded therein at points adjacent and to one side of the openings.

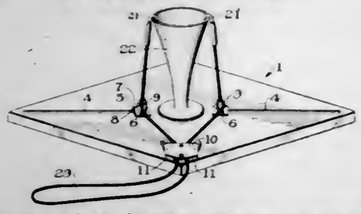
2,315,195
INDIGOID DYESTUFFS AND PROCESS OF MAKING SAME
Jaroslav Froehlich, Basel, Ernst Stoecklin, Binningen, and Richard Tobler, Riehen, Switzerland, assignors to Society of Chemical Industry in Basle, Basel, Switzerland
No Drawing. Application April 27, 1940, Serial No. 332,100. In Switzerland May 13, 1939
9 Claims. (Cl. 260—322)

3. The products of the general formula



wherein R is a naphthalene radical united to the —CO— in the 1-position and to the —S— in the 2-position.

2,315,196
CONTAINER HOLDING MECHANISM
Samuel J. Gallione, Columbus, Ohio
Application January 16, 1941, Serial No. 374,728
6 Claims. (Cl. 248—361)



1. A container holding device comprising a base having transversely extending guide slots in the upper surface, bracket means mounted for longitudinal adjustment in said guide slots, a pulley carried by each bracket, cable clamping means mounted on said base, said means having a stationary jaw and a plurality of spring pressed clamping jaws mounted for pivotal movement toward and away from said stationary jaw, cable means extending between said stationary and flexible jaws and around said pulleys, and container engaging hook means carried by the ends of said cable means.

2,315,197
METHOD OF PREPARING ALKYLATED HYDROCARBONS FROM NORMAL PARAFFINIC HYDROCARBONS
Arthur R. Goldsby, Port Arthur, Tex., and Karl Korpi, Redondo Beach, Calif., assignors, by mesne assignments, to The Texas Company, New York, N. Y., a corporation of Delaware
No Drawing. Application July 24, 1937, Serial No. 155,436
7 Claims. (Cl. 196—10)

1. A process for the manufacture of saturated liquid hydrocarbons of high antiknock value which comprises subjecting normal butane to an isomerization operation whereby the normal butane is partially converted in substantial amount to isobutane, treating said isobutane, in mixture with unconverted normal butane, with olefins under alkylating conditions whereby the isobutane is condensed with the olefins to form normally liquid isoparaffins, separating normal butane from the reaction products and recycling said normal butane to the isomerization operation.

2,315,198
HEAT RESISTIVE MATERIAL, ESPECIALLY BUILDING MATERIAL, AND METHOD OF MAKING SAME
Victor Moritz Goldschmidt, Smestad, near Oslo, and Kristoffer Johannes Stenvik, Oslo, Norway; vested in the Alien Property Custodian
No Drawing. Application October 15, 1940, Serial No. 361,254. In Norway December 21, 1939
11 Claims. (Cl. 106—64)

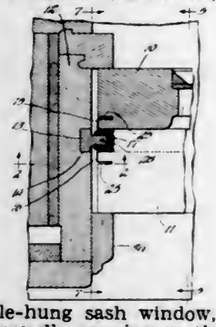
1. A refractory comprising a mixture of a material rich in magnesium orthosilicate, and Portland cement, said material being in excess of said cement.

2,315,199
CONDENSER DEVICE
Hermann Gönningen, Berlin, Germany; vested in the Alien Property Custodian
Application February 11, 1939, Serial No. 255,833
In Germany February 12, 1938
4 Claims. (Cl. 175—41)



1. A condenser device comprising two intermediate solid dielectric members of equal shape but composed of materials having different temperature coefficients, the parallel major surface of each of said members being covered with a metallic coating and the outer edge of said combined members being gradually bevelled toward its outer boundary, and a pair of metal condenser plates extending outwardly beyond the outer boundary of said combined members.

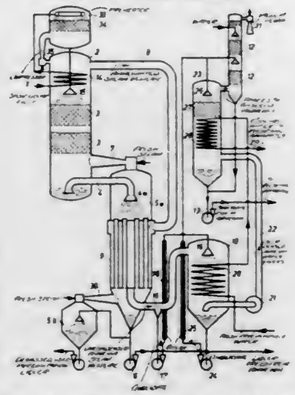
2,315,200
WEATHER STRIPPING
Anton A. Guillaume, La Crosse, Wis., assignor to Segelke & Kohlhaus Company, La Crosse, Wis., a corporation of Wisconsin
Application August 3, 1940, Serial No. 350,266
1 Claim. (Cl. 20—69)



In a double-hung sash window, a side jamb having an inwardly opening vertical groove extending substantially from top to bottom, a parting stop seated in the groove and partitioning parallel ways for the sash, sash having cooperating meeting rails, a weather strip of generally M-shape cross section extending substantially the length of the parting stop and having a central channel floatingly straddling the parting stop with the legs of the channel predisposed to converge opposite the web of the channel to press snugly against the sides of the parting stop, returned flanges integral with, and spaced from, the legs of the channel forming inwardly opening deep and narrow slots parallel with the sides of the parting stop, weather strips substantially similar to each other carried by the respective sash and each having a returned flange structure

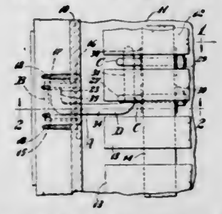
forming a narrow and relatively deep outwardly opening slot within which the respective adjacent returned flange of the stop-carried strip is received with the returned flange of the sash-carried strip received in interhooked relation within the associated slot formed by the cooperating returned flange of the stop-carried strip, all of these interhooked returned flanges of the stop-carried and sash-carried strips being predisposed to converge toward the open ends of their respective slots whereby to provide, between such flanges and the walls of the slots which receive them, a plurality of vertical lines of sealing contact extending throughout the length of the sash-carried strips, and spring means interposed between the web of the channel of the stop-carried strip and the opposing edge of the parting stop urging the stop-carried strip inwardly away from the parting stop to press such web against the ends of the meeting portions of the meeting rails of the sash to preserve a seal against air leakage between the stop and said meeting portions and to shift the returned flanges of the stop-carried strip toward the bases of the respective slots of the sash-carried strips within which these flanges are received, a longitudinally extending portion of the stop lying between the adjacent margins of the sash, and the spring means, by jambward pressure upon the stop, maintaining the stop in its grooved seat in the jamb.

2,315,201
RECOVERING AMMONIA FROM USED CUPRAMMONIUM ARTIFICIAL SILK PRECIPITATION LIQUORS
Alfred Haltmeier, Bergisch-Gladbach, Germany; vested in the Alien Property Custodian
Application April 16, 1940, Serial No. 329,908
In Germany May 4, 1939
5 Claims. (Cl. 23—193)



1. In the process of recovering ammonia and heat values from the spent precipitation liquors of the manufacture of artificial fibers from cuprammonium cellulose solutions, the improvement which comprises bringing the warm liquors in a counter-current apparatus into direct counter-current contact with steam thereby expelling the bulk of the ammonia from the liquors as an ammonia/steam mixture, at least part of the steam supplied to the counter-current apparatus being generated by partial evaporation of the liquors coming from the counter-current apparatus in a heat exchanger in which they are in indirect heat exchange relationship with at least part of the ammonia/steam mixture coming from the counter-current apparatus energy being supplied to the system by compressing one of the vapors generated in at least one portion of the system, said vapors being selected from the class consisting of steam and ammonia-steam mixtures.

2,315,202
FLOOR RACK
Stacy B. Haseltine, La Grange, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application May 9, 1940, Serial No. 334,213
7 Claims. (Cl. 105—375)



1. In a floor rack structure including a separate rack section for a refrigerator car having a side wall, the combination with a socketed keeper fixed to said wall; of supporting eye members fixed to the rack section and having the openings of the eyes in axial alignment; and a one-piece hinge member pivotally connected to said rack and anchored to the keeper, said hinge member comprising a continuous cylindrical bar having the opposite end portions thereof bent at right angles to the intermediate portion thereof, said intermediate portion being journaled in the openings of the eye members with the angularly bent portions laterally outwardly of said eyes and forming stops to limit endwise movement of said hinge members and one of said right angularly bent portions having a hook at its extremity anchored in the socket of said keeper, whereby said rack section is mounted for swinging movement by said first named portion to fold against the side wall of the car.

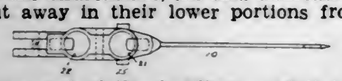
2,315,203
CELLULOSE ESTER MANUFACTURE
Rudolf Hofmann and Wilhelm Simson, Dormagen, Germany; vested in the Alien Property Custodian
No Drawing. Application March 7, 1939, Serial No. 260,333. In Germany March 10, 1938
4 Claims. (Cl. 260—227)

4. In the process of acetylating cellulosic material in batches of more than 1000 kgs. each by means of a mixture containing glacial acetic acid, acetic acid anhydride, methylene chloride and sulfuric acid as a catalyst, the modification which comprises spraying on the material during acetylation a mixture consisting of the catalyst, part of the acetic acid anhydride and methylene chloride necessary for acetylation, and regulating the rate of spraying in such manner that it is low at the beginning of the reaction, but increases during the course of the reaction, care being taken that the temperature does not rise substantially above 50° C.

2,315,204
PLANTER
Otto E. Holle, Decatur, Ind.
Application March 12, 1941, Serial No. 382,975
3 Claims. (Cl. 111—86)

1. In a planter, a shoe comprising a blade hav-

ing a bifurcated rear portion, a rearwardly opening discharge conduit for fertilizer in the forward portion of the bifurcation and a conduit for the discharge of seed adjacent to the rear end of the bifurcations, the said bifurcations being cut away in their lower portions from the



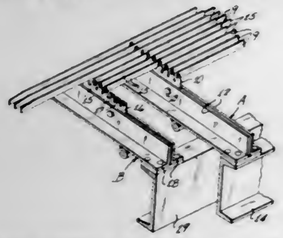
discharge end of the fertilizer conduit to their rear ends and being in contact in a selected area between said conduits and a shank secured to said bifurcations and having passageways therein communicating with said conduits for feeding fertilizer and seed thereto respectively.

2,315,205

CONVEYER

James L. Herold, St. Louis, Mo., assignor to Barry-Wehmiller Machinery Company, St. Louis, Mo., a corporation of Missouri

Application January 27, 1941, Serial No. 376,158
6 Claims. (Cl. 198—219)



1. In a conveying apparatus, a carrier comprising numerous spaced elongated bars for supporting and advancing articles, and a plurality of cross supports having seats alined with each other in the same horizontal plane to receive said numerous elongated bars, said elongated bars being provided with openings adjacent to said seats, and attaching members formed integral with the cross supports and extending into said openings to secure said bars on the alined seats of the cross supports, said openings in the bars being larger than the width of said attaching members to provide for longitudinal movement of the bars independently of the attaching members.

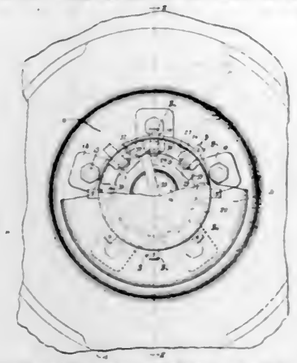
2,315,206

AUTOMOBILE WHEEL LOCKING ASSEMBLY

Herbert S. Jandus, Detroit, Mich., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan

Application February 23, 1942, Serial No. 432,004
6 Claims. (Cl. 70—172)

1. Locking assembly for an automobile wheel of the type disclosed, comprising a keeper member in the form of a sleeve for surrounding the end of the wheel hub and having a flange portion at its inner end provided with holes for receiving the bolts which secure the wheel to the hub structure, a locking cover comprising a cup-shaped body for surrounding said keeper member and having a flange at its inner end for projecting in front of the wheel supporting bolts to prevent access thereto, said keeper member having slots extending longitudinally inwardly from the outer end thereof and other slots extending circumferentially from said longitudinal slots, tongues on said locking cover for entering through said longitudinal slots and engaging in said circumferential slots upon turning of the locking cover whereby said cover will be held against axial outward movement, locking openings in said keeper member, and locking bolts supported by and radially shiftable on said locking cover for engagement in said locking open-



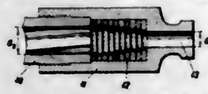
ings to lock said cover against rotation after engagement of said tongues in said circumferential slots, said bolts being relatively selectively shiftable in opposite directions for releasing said cover for rotation.

2,315,207

FIREARM

František Janeček and František Karel Janeček, Prague-Nusle, Czechoslovakia; vested in the Alien Property Custodian

Application January 10, 1939, Serial No. 250,208
In Czechoslovakia July 16, 1938
3 Claims. (Cl. 42—76)



1. A firearm having a rifled barrel, and a bored out detachable attachment connected to the muzzle of the barrel, with the axis of the barrel and the axis of the bore of the attachment lying in alignment, a series of cutting rings within the attachment and a smooth-bored portion located between said cutting rings and the outlet end of the attachment, said cutting rings each having a smaller internal diameter than that of the barrel, whereby when the projectile is fired the forcing bands on the projectile are removed.

2,315,208

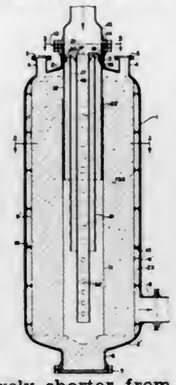
CATALYTIC APPARATUS

William R. Kinnaird, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application October 15, 1941, Serial No. 415,049
4 Claims. (Cl. 23—288)

2. A reactor of the class described comprising, in combination, an elongated substantially cylindrical vessel having an outer shell closed at its opposite ends, an inlet zone defined by an elongated substantially cylindrical pervious member extending lengthwise of the shell and substantially concentric therewith, an inlet connection on the shell communicating with said inlet zone, an outlet zone comprising an annular space provided between said shell and another pervious member spaced from and substantially concentric with the first named pervious member, the annular space between said pervious members comprising a zone for the reception of a mass of

granular contact material, an outlet connection on the shell communicating with said outlet zone and a plurality of concentrically arranged distributing conduits disposed lengthwise of the shell within said inlet zone, said distributing conduits



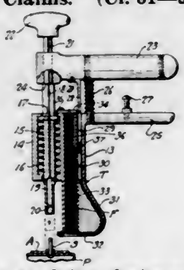
being progressively shorter from the innermost to the outermost conduit of the group and each being provided with openings through its walls in that portion thereof not surrounded by another conduit of the group.

2,315,209

FASTENER APPLYING TOOL

Harold W. Kost, Birmingham, Mich., assignor to Detroit Harvester Company, Detroit, Mich., a corporation of Michigan

Application February 24, 1940, Serial No. 320,525
14 Claims. (Cl. 81—3)



1. A tool for applying fasteners including a frame, a reciprocal plunger element having means for applying the fasteners carried by the frame, a magazine for the fasteners, an ejector operating in a plane at substantially right angles to the plane of movement of the plunger element for ejecting the fasteners from the magazine into the path of movement of the plunger element, means to return the plunger element to inoperative position following operation thereof, a handle element having slidable connection with the plunger element to provide for movement of the plunger element, in applying a fastener, independently of movement of the handle element, means carried by said plunger element and engageable by the handle element whereby to move the plunger element to cause its fastener applying means to lie adjacent to the ejected fastener, a metal tape connected to the handle element for operation thereby and connected to the ejector to operate the latter, and means to guide the movement of the tape whereby movement of the handle element effects said movement of the ejector at substantially right angles to the plane in which the plunger element operates.

2,315,210

FASTENER

Harold W. Kost, Birmingham, Mich., assignor to Detroit Harvester Company, Detroit, Mich., a corporation of Michigan

Application April 10, 1941, Serial No. 387,899
4 Claims. (Cl. 85—36)



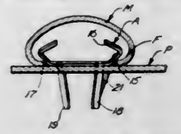
1. A fastener comprising a sheet metal body, a shank engaging portion on said body, a downturned flange on said body to engage an edge of a supporting panel for militating against turning of the body with respect to the panel, said flange having its free end portion disposed at approximately right angles to said body, and a tongue struck from the body and extending along the underside of the body with the free end thereof projecting in a direction toward said flange thereby to enable the tongue to be inserted through a shank-receiving aperture of the panel to engage one side of the supporting panel and the body to engage the other side thereof for cooperating with the flange to hold the fastener in place.

2,315,211

FASTENER FOR MOLDINGS OR THE LIKE

Harold W. Kost, Birmingham, Mich., assignor to Detroit Harvester Company, Detroit, Mich., a corporation of Michigan

Application April 10, 1941, Serial No. 387,900
17 Claims. (Cl. 85—5)



10. A molding fastener of the character described comprising a body portion, a pair of spaced legs projecting from one side of the body portion and adapted to extend into an opening of a supporting panel, stop means on said legs enabling the legs to be inserted freely into the opening but being engageable with the under side of the panel to resist retrograde movement, integral extensions on opposite sides of said body portion, and oppositely positioned molding engaging arms integral with said extensions, each arm having a portion adjacent the respective extension including in a direction outwardly and upwardly from the extension and the upper portion thereon merging into a portion inclining in a direction inwardly and upwardly relative to the extension.

2,315,212

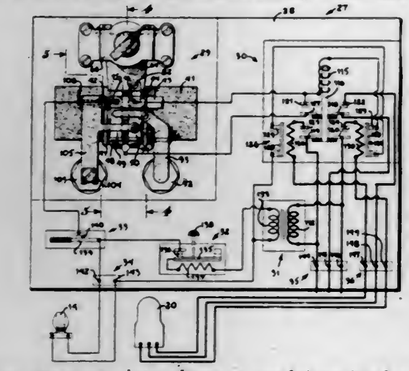
CONTROL APPARATUS

Carl G. Kronmiller and Walter E. Edelman, Minneapolis, Minn., assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application August 25, 1937, Serial No. 160,846
25 Claims. (Cl. 62—4)

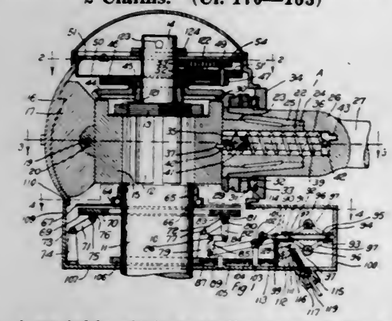
1. A control mechanism for a refrigerating apparatus including a relay for causing operation of the refrigerating apparatus when energized, a switching mechanism for energizing said relay, said switching mechanism including a pair of sequentially operated switches, connections between said switches and said relay to cause start-

ing of the refrigerating apparatus when both switches are closed, to continue operation of the refrigerating apparatus after it has once started while one of the switches remains closed and to discontinue operation of the refrigerating apparatus when both switches are opened, and means for responding to suction pressure and high pressure for closing both switches only when the suc-



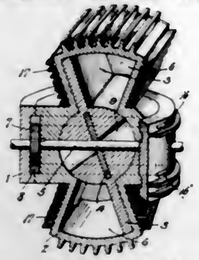
tion pressure rises above a predetermined value and the high pressure decreases below a predetermined value, for opening one of the switches when either the suction pressure decreases below or the high pressure increases above their respective values and for opening both switches when either the suction pressure decreases to a predetermined lower value or the high pressure increases to a predetermined higher value.

2,315,213
VARIABLE PITCH PROPELLER
Edward Linehan, Hillman, Minn.
Application April 15, 1939, Serial No. 267,999
2 Claims. (Cl. 170—163)



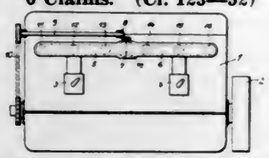
1. A variable pitch propeller comprising a propeller shaft, a blade support mounted thereon, blades mounted on said support, gear means rotatably connecting said blade means to rotate the same axially in unison, a large gear means connected to said gear means, a pinion engaging said large gear means, a gear large relative to said pinion rotatable with said pinion, a second pinion engaging said last named large gear, a rotatable disc encircling said shaft, means connected to said second pinion engageable with said disc to rotate therewith, said gears and disc normaly rotating in a body with said shaft, a stationary friction element engageable with said disc, and governor means driven by said shaft and operable upon an increase in speed of rotation of said shaft, to engage said disc to create relative rotation between said gears and to rotate said blades axially.

2,315,214
ENGINE
Guy Loiselle, Ste-Agathe-des-Monts, Quebec, Canada
Application March 16, 1940, Serial No. 324,438
7 Claims. (Cl. 121—63)



1. An engine comprising a fixed support, a casing rotatably oscillating on said support, a member mounted to rotatably oscillate inside said casing and forming with the inside walls of said casing variable-volume chambers, a rotating element mounted at an inclined angle on a shaft, said rotating element bearing on said member and causing, by its rotation with said shaft, oscillation of both said member and said casing, said casing having suitable ports for the inlet and exhaust of fluid from the chambers, and reciprocally oscillation of both said member and said casing causing rotation of said element with said shaft.

2,315,215
INTERNAL COMBUSTION ENGINE
Karl Maybach, Friedrichshafen, Germany; vested in the Alien Property Custodian
Application October 6, 1941, Serial No. 413,852
In Germany July 19, 1940
6 Claims. (Cl. 123—52)

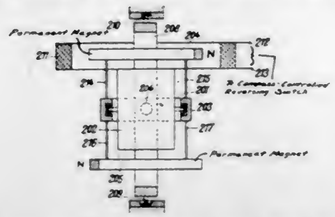


1. In an internal combustion having groups of cylinders with an intake manifold for each of said groups, a connection between said manifolds and a control valve in said connection, said control valve being adapted to open or to close said connection periodically in dependency on the speed of rotation of said engine.

2,315,216
GYROSCOPIC APPARATUS
Waldemar Möller, Rechlin, near Murow Mecklenburg, and Gert Zoege von Manteuffel, Berlin-Dahlem, Germany; vested in the Alien Property Custodian
Application October 1, 1936, Serial No. 103,538
In Germany October 26, 1935
2 Claims. (Cl. 74—5)

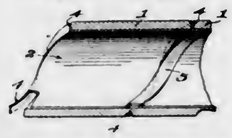
1. In a directional gyroscope, the combination with a rotor bearing frame, a vertical ring in which said frame is mounted for freedom about the horizontal axis, a support in which said ring is mounted for freedom about a vertical axis, an electric coil secured to said support and concentric with the axis of said vertical ring, a permanent magnet on said bearing frame normally lying in or parallel to the plane of said coil and at an angle to said first axis, means for supplying

current to said coil in either direction, whereby a torque about said first named axis is exerted in either direction, dependent on the direction of



flow of current through said coil, and an extra compensation permanent magnet on said bearing frame of opposite polarity to the first magnet and at a greater distance from the plane of said coil.

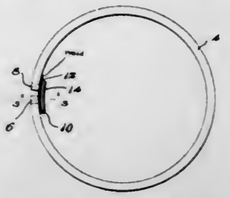
2,315,217
PROCESS FOR THE MANUFACTURE OF TUBULAR BODIES
Carlos Obiglio, Buenos Aires, Argentina
Application February 11, 1941, Serial No. 378,480
1 Claim. (Cl. 93—94)



A process for making a helically wound paper tube wound with a two-layer strip comprising a relatively thick body strip and a relatively thin lining strip fastened together on their faces, consisting of the steps of adhesively fastening a said thin lining strip to said thick body strip narrower than said lining strip and with flange portions of said lining strip on both sides thereof extending beyond both edges of the face of said thick body strip to which said lining strip is fastened, winding the two-layer strip so formed into a helical tube with said lining strip on the inside of said tube and with a first said flange portion of said lining strip on a given turn of the tube so extending beyond an edge of said thick body strip face extending over the lining strip of an adjacent turn in its said position on the inside of said thick body strip, bending the second said flange portion of said lining strip on said given turn of the tube so extending beyond an edge of said thick body strip face upwardly at right angles along an edge of said thick body strip and terminating said bent flange portion substantially flush with the outer face of said thick body strip for holding said bent flange portion between said edge of the heavy body strip of said given turn and an edge of said thick body strip of a second adjacent turn to seal the radial joint between juxtaposed edges of the body strip, and adhesively attaching said first extending flange portion to said lining strip of said first mentioned turn to transversely seal the inner side of the radial joint and also seal the lining strips of the adjacent turns.

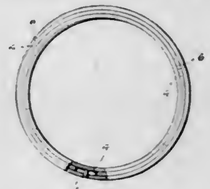
2,315,218
PISTON RING
Arnt Olaf Olsen, Seattle, Wash.
Application November 23, 1940, Serial No. 366,899
1 Claim. (Cl. 309—46)

In a piston ring, the combination of a circular split ring having tongued lapped ends, and a spring tongue doubled back upon itself forming spaced approximately parallel arms with said arms overlapping the lapped ends on opposite sides of the slit therebetween, said spring tongue having the doubled back portion thereof at one



side of the lapped ends and the arms extending to the opposite side of said lapped ends with one of said arms welded on the inside of said ring at the opposite side of said lapped ends from the doubled back portion of said spring tongue, to shut off the blow-by of oil at said lapped ends.

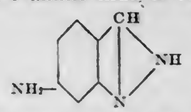
2,315,219
COILED SPRING PISTON RING
Arnt Olaf Olsen, Seattle, Wash.
Application June 23, 1941, Serial No. 399,270
1 Claim. (Cl. 309—30)



A piston ring comprising a plurality of concentric convolutions terminating in tapered ends on the inner and outer extremities, and guiding means for said convolutions consisting of pins rigidly fixed to and projecting radially from at least one of said convolutions, and engaged in slots in an adjacent convolution.

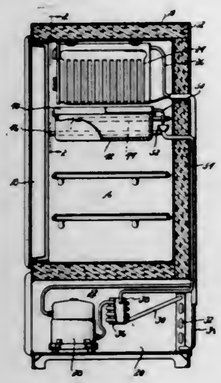
2,315,220
PROCESS FOR THE MANUFACTURE OF POLYAZOIC DYESTUFFS
Pierre Petitcolas, Rouen, and Robert Frédéric Michel Sureau, Mont St. Aignan, France; vested in the Alien Property Custodian
No Drawing. Application September 9, 1938, Serial No. 229,220. In France September 14, 1937
1 Claim. (Cl. 260—157)

A process for the production of polyazoic dyestuffs which consists in coupling a diazoic derivative of an amine of the benzene series, of which at least one NH_2 group is diazotizable, and containing no group capable of conferring solubility in water, with 6-amino-indazol of the formula:



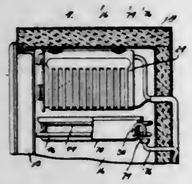
diazotizing the coupling product obtained and coupling the diazoic derivative finally obtained with a member of the group consisting of the arylides of the orthohydroxy carbonic acids and the arylides of the acetylacetic acids.

2,315,221
REFRIGERATING APPARATUS
Lawrence A. Philipp, Detroit, Mich., assignor to Nash-Kelvinator Corporation, Detroit, Mich., a corporation of Maryland
Application April 25, 1939, Serial No. 269,997
2 Claims. (Cl. 62—103)



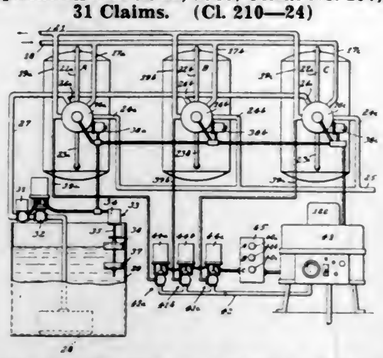
1. Refrigerating apparatus comprising a cabinet having a compartment, a refrigerant evaporating element for cooling said compartment, a compressor, a condenser connected to said compressor, a storage receptacle for foods to be refrigerated, a tray cover for the receptacle for collecting moisture from the evaporating element, and means for conducting said moisture from said tray cover to a point between the compressor and the condenser in thermal contact with the refrigerant passing from the compressor to the condenser.

2,315,222
REFRIGERATING APPARATUS
Lawrence A. Philipp, Detroit, Mich., assignor to Nash-Kelvinator Corporation, Detroit, Mich., a corporation of Maryland
Original application April 25, 1939, Serial No. 269,997. Divided and this application December 6, 1940, Serial No. 368,847
1 Claim. (Cl. 62—103)



Refrigerating apparatus comprising a cabinet having a compartment, a refrigerant evaporating element for cooling said compartment, a removable deep pan for the storage of meats and the like, slideways for slidably supporting said pan below said element, said pan also serving to collect defrost water from said element when it is defrosted, an outlet adjacent the lower part of said pan for receiving and conducting said water outside said pan, and conduit means positioned in said compartment for receiving said water from said outlet when the pan is placed in a certain position and including a portion for conducting said water out of said compartment, said conduit means being positioned so as not to interfere with the sliding removal of said pan.

2,315,223
WATER SOFTENER
Arthur L. Riche, Freeport, Ill.
Application March 21, 1938, Serial No. 197,134
31 Claims. (Cl. 210—24)



1. The combination in a water softener of a plurality of base-exchange softener units, means for testing the effluent water from said units for hardness, means for conducting effluent water from each of said units to said testing means, valve means for regulating the flow through each of said conducting means, means for actuating said valve means to provide flow from successive softener units to said testing means at spaced intervals to test the effluent of said units one after the other, and means responsive to a positive test result for interrupting the operation of said valve means and for designating the unit requiring regeneration.

2,315,224
CUPRAMMONIUM CELLULOSE SPINNING PROCESS
Alfred Reichle and Ludwig Mehler, Dormagen, Germany; vested in the Alien Property Custodian
No Drawing. Application December 15, 1938, Serial No. 245,912. In Germany December 18, 1937
5 Claims. (Cl. 18—54)

1. The process of producing shaped cellulose articles, especially artificial fibers, from cuprammonium cellulose solutions by stretch-spinning which comprises spinning the cellulose solution into water as a precipitating agent, precipitating the solution with the water, filtering the water used in precipitating the solution in a filtering medium capable of removing the colloidal copper and cellulose in the water, leaving substantially all of the ammonia in the water, and re-using the filtered water containing the ammonia to precipitate further quantities of cellulose solutions.

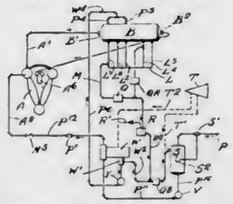
2,315,225
HOSE COUPLING
Donald S. Rogers, Edgewater, Colo., assignor of one-half to Lloyd Quigley, Pueblo, Colo.
Application November 8, 1941, Serial No. 418,413
8 Claims. (Cl. 285—81)



1. In a device of the character described, a hollow connector for the passage of fluid, a tube associated with said connector to receive fluid therefrom, and radially-movable, rigid lever

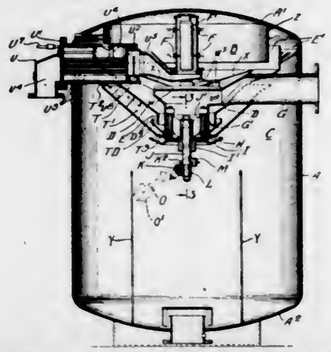
means associated with said tube operable by pressure developed internally of said tube by the passage of said fluid therethrough to lock said tube to said connector.

2,315,226
METHOD OF AND APPARATUS FOR WASHING STEAM
Victor A. Rohlin, Philadelphia, Pa., assignor to Cochrane Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application December 6, 1939, Serial No. 307,750
3 Claims. (Cl. 122—459)



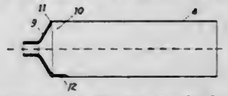
1. In the operation of a steam generating boiler with impure feed water, the method which consists in preheating the boiler feed water with steam thereby condensed and producing condensate separate from the boiler feed water, increasing the pressure of the condensate and spraying it into the steam generated by the boiler, separating water from the steam, and flashing the water separated and thereby providing steam used in preheating the boiler feed water.

2,315,227
WATER HEATING AND DEAERATING APPARATUS
Victor A. Rohlin, Glenside, Pa., and Arthur E. Kittredge, Audubon, N. J., assignors to Cochrane Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application May 17, 1940, Serial No. 335,702
15 Claims. (Cl. 183—2.5)



1. Water heating and deaerating apparatus comprising a tank, partition means within the tank between an upper water heating space and a lower water deaerating space, said partition being formed with a lower outlet for the downflow of water from said heating space into said deaerating space and with an upper port for the upflow of steam from the deaerating space into the heating space, means for passing water into said heating space, steam supply means adapted to discharge a stream of steam across the path of the water passing into the deaerating space through said outlet, and baffle means within the deaerating space through which the steam stream induces a recirculation of steam in the deaerating space along a path of flow including a portion adjacent said outlet and extending into contact with said steam stream and a portion more remote from said outlet and separated from said steam stream by said baffle means, and thereby minimizes the tendency of said stream to induce a vapor downflow through said outlet from the heating space into the deaerating space.

2,315,228
TUBULAR CONTAINER
Elise Schulz, Vienna, Germany; vested in the Alien Property Custodian
Application July 26, 1938, Serial No. 221,464
In Austria July 28, 1937
2 Claims. (Cl. 221—60)



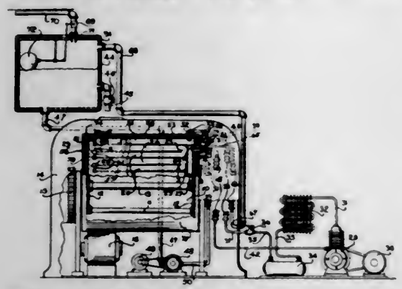
1. A container including a body having a conical end and formed with a peripheral recess below such end, and a head section of relatively rigid material conforming in shape to the end of the body and seated in the recess in the body to prevent projection of the head section beyond the outer plane of the body.

2,315,229
APPARATUS FOR COMMINUTING DRY SUBSTANCES, PASTES, AND THE LIKE
Georg Heinrich Schieferstein, Finowfurt, Eberswalde, Germany; vested in the Alien Property Custodian
Application February 24, 1939, Serial No. 258,326
In Germany March 1, 1938
3 Claims. (Cl. 83—9)



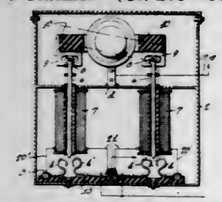
1. Apparatus for the comminution of granular and pulverulent dry substances or pastes and the like materials, comprising a structure providing a grinding chamber, elastic means for mounting the structure and permitting the grinding chamber to assume a vibratory oscillating movement and effective for storing up energy in said elastic means and opposing elastic reaction forces at a non-linear rate to restrict the said movement, grinding bodies in the grinding chamber in contact with the material therein, and means for applying force upon the structure to oscillate the same and including elastic devices located in the driving system for storing the energy supplied by said force so that the energy delivered to the structure progressively increases, at a non-linear rate, to a maximum at a mean point of the stroke, said structure and its elastic supporting and force-applying means being constructed and arranged to cause the contents of the grinding chamber to be subjected to forces which progressively increase and decrease at a non-linear rate whereby the grinding bodies effect a comminuting action on the material to be ground essentially by kinetic energy in the mean position of the grinding chamber and essentially by potential energy, impact, or shock at the end positions thereof.

2,315,230
COMBINATION DOUGH MIXER REFRIGERATING MEANS AND WATER COOLING DEVICE
Merlin A. Sticelber, Kansas City, Mo.
Application June 20, 1941, Serial No. 398,930
22 Claims. (Cl. 62—1)



1. The combination with a dough mixer having a mixing chamber, of means for supplying water to the interior of said mixing chamber and means externally of said chamber for cooling a wall of said chamber and simultaneously cooling said water before being supplied to the interior of said chamber.

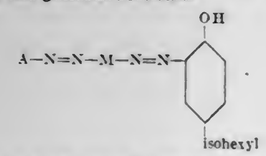
2,315,231
LOW VOLTAGE, SELF-SUSTAINING, REMOTE CONTROL SWITCHING DEVICE
Charles L. Stutsman and Leonard C. Vance, Van Nuys, Calif.
Application October 23, 1939, Serial No. 300,816
6 Claims. (Cl. 175—375)



1. A remote control switching device comprising in combination a divided housing having in one side a low voltage operating mechanism, and on its other side a high voltage operating switch; an insulating partition separating said mechanisms; and an operating switch connected to said low voltage operating mechanism.

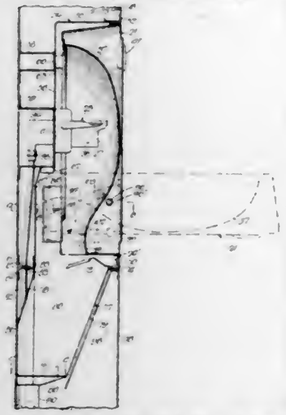
2,315,232
WATER-INSOLUBLE DISAZO DYES
Alfred Thurm, Dessau in Anhalt, and Hans Krzikalla and Alfred Kirsch, Ludwigshafen, Germany, assignor to General Aniline & Film Corporation, a corporation of Delaware
No Drawing. Application March 25, 1937, Serial No. 133,006. In Germany March 31, 1936
8 Claims. (Cl. 260—178)

1. The water-insoluble disazo dyes which correspond to the general formula



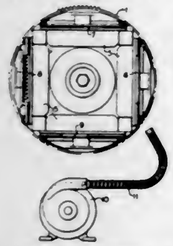
wherein A is a radicle of the benzene series, M is a radicle selected from the group consisting of radicals of the benzene, naphthalene, diphenyl, diphenylmethane, triphenylmethane, diphenylcyclohexane, diphenylether, and diphenylamine series, the dye molecule containing neither groups which lend solubility in water nor nitro groups, these dyes having a high solubility in organic media and a good to very good fastness to light.

2,315,233
WASHBASIN
James K. Tully, Evanston, and Basil E. Jones, Flossmoor, Ill., assignors to The Pullman Company, Chicago, Ill., a corporation of Illinois
Application February 25, 1941, Serial No. 380,464
12 Claims. (Cl. 4—169)



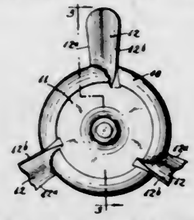
1. A wash basin, a support for the basin, journals for rotatably mounting the basin on the support so that the basin can be moved from a vertical inoperative position to a horizontal operative position, bearing members for the journals, means for fixing the bearing members with respect to the support, and means operable from in front of the basin for releasing the bearing members with respect to the support so that the basin can be withdrawn from the support.

2,315,234
TYPOGRAPHICAL SLUG CASTING MACHINE
Wilfred J. Turenne, Fayville, Mass., assignor to Intertype Corporation, Brooklyn, N. Y., a corporation of New York
Application May 14, 1941, Serial No. 393,304
13 Claims. (Cl. 199—56)



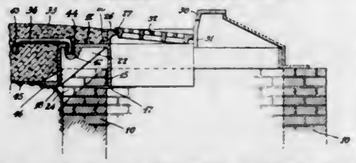
1. In a slug casting machine having a rotary mold disk carrying a slotted mold and having means for rotating said disk to present the mold periodically at slug casting and slug ejecting positions, the combination of a supporting slide for the mold disk, a slug ejector mounted on said slide at the rear of the mold, a heat-sensitive member mounted on the slide at the rear of the mold and relatively disposed opposite and in such proximity to the rear face thereof when the mold is presented at slug ejecting position as to detect and respond to abnormal temperatures of said mold by induction of heat radiated therefrom, and a mold cooling device including operating means therefor and adapted for conditioning for operation under control of said heat-sensitive member to cool the mold.

2,315,235
FAN BLADE FOR FLYWHEELS OF SEWING MACHINES
Rupert Weidner and Jacob D. Yaro, New York, N. Y.
Application July 15, 1941, Serial No. 402,554
6 Claims. (Cl. 230—248)



5. A fan blade attachment for the flywheel of a sewing machine having an annular rubber casing and a plurality of rubber fan blades projecting radially from said casing, each of said fan blades, comprising a fan blade portion, and a base portion integrally formed on the bottom end of said fan blade portion and said rubber casing being formed with spaced openings through which each of said blade portions is projected to extend radially of said flywheel.

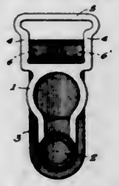
2,315,236
SUPPORTING HOOD FOR INLET AND MANHOLE COVERS
Charles H. Weller, Hightstown, N. J.
Application February 28, 1941, Serial No. 381,022
4 Claims. (Cl. 94—34)



4. A manhole construction comprising a wall defining a chamber, a hood for the wall, the vertical cross-section of the hood being in the form of an inverted U with the top of the U spaced from the wall and the sides thereof telescoping therewith, a flange along the outer margin of the hood adapted to seat on a surrounding foundation, a cover seat provided along the top of the hood and means projecting outwardly from said hood for anchoring the hood to an adjacent pavement, whereby the hood can settle with the foundation.

2,315,237
HOSE SUPPORTER
Joseph Wratschko, New Britain, Conn.
Application April 24, 1941, Serial No. 390,158
3 Claims. (Cl. 24—245)

1. In a hose supporter, a frame having a socalled "keyhole" passage in its lower portion, side arms extending upwardly therefrom and connected by a cross bar at the top, two oppositely positioned short arms extending inwardly from said side arms with a passage between the ends of said short arms, a flexible button carrying tab thickened at its upper end to form a rib larger than the passage between said short arms and



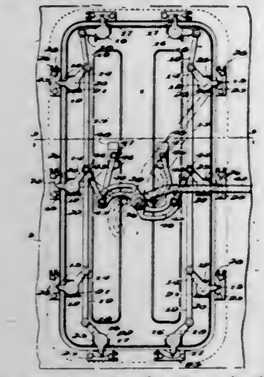
that part of the frame just below said arms, said rib resting on the back of said frame, the adjacent portion of the tab extending through said space, thence upwardly, and over said short arms and down the back of said frame, and a second transverse rib on the same side of said tab as said first rib and spaced therefrom and bearing against the back of said frame close to said first rib, for the purpose described.

2,315,238
INDICATOR GAUGE CONSTRUCTION
David Robert Yarnall, Philadelphia, Pa., assignor to Yarnall-Waring Company, Philadelphia, Pa., a corporation of Pennsylvania
Application August 3, 1939, Serial No. 288,230
15 Claims. (Cl. 73—293)



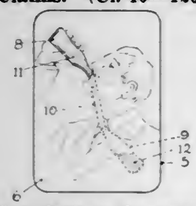
15. A sight gauge for upward water connection into a float compartment having front and rear transparent gauge walls, a target extending downwardly into the gauge to show the height of the float by the variant height of the target and of the water below the target within the gauge, the target in use having a downwardly depending body at the bottom of material, transparent and opaque respectively to rays of different colors and means for rearwardly illuminating the target and the water downwardly adjacent the target by mixed rays of the said different colors, whereby viewed in front the target and water beneath the target are illuminated immediately above and below the bottom of the target to transmit light of contrasting colors, at the line of color change at the bottom of the target, with one color light-transmission above and another color light-transmission below providing the indicator of the gauge.

2,315,239
DOOR SECURING MECHANISM
William Young, Washington, D. C.
Application March 19, 1941, Serial No. 384,169
6 Claims. (Cl. 292—47)



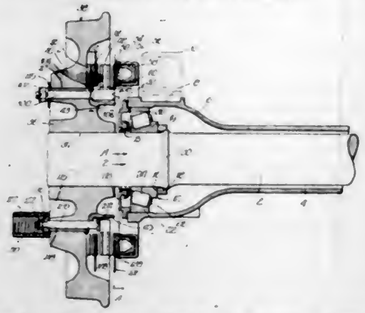
1. Door securing mechanism including movable locking means having a plurality of simultaneously movable dogs pivotally mounted adjacent an edge of the door with their pivotal axes substantially normal to the plane of the door, rotatable means mounted on the door with its axis of rotation substantially parallel with the pivotal axes of the dogs, said rotatable means having a curved portion eccentric with respect to its axis of rotation, a link connected to said movable means and cooperable with said curved portion of said rotatable means so as to be movable thereby, and means movably connecting the link to the door for causing the link when actuated by said rotatable means to move in a direction to operate said movable means.

2,315,240
DISPLAY DEVICE
Stuart G. Ashenberg and Le Roy J. Schwenkmeyer, San Diego, Calif.
Application November 16, 1940, Serial No. 365,950
4 Claims. (Cl. 40—126)



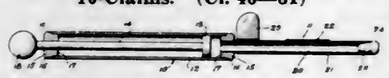
1. In a display device, the combination of a placard, said placard having displayed upon each side thereof the face of an animate object in the attitude of drinking, two drinking receptacles incorporated in said placard and each being positioned to discharge its contents toward the other, one of said receptacles being transparent only on one side of said placard and the other receptacle being transparent only on the other side of said placard and each of said receptacles being shown in inverted position for apparently emptying its contents into the mouth of one of said animate objects, a concealed conduit within said placard connecting the mouths of said receptacles, and a single mass of fluid freely moving through gravity within and from one of said receptacles through said conduit to the other when said placard is in upright position and simulating the drinking of said fluid by one of said animate objects.

2,315,241
BRAKE
Walter H. Baselt, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application January 29, 1940, Serial No. 316,079
20 Claims. (Cl. 188—153)



1. In a railway car truck, a frame, a supporting wheel and axle assembly comprising an inner axle, wheels thereon, an outer axle encasing said inner axle between said wheels, bearings between said axls, closure plates for the ends of said outer axle, braking means at each end of said assembly comprising a cylinder casting supported on the end of said outer axle, power means and release means mounted in said cylinder casting, interleaved rotors and stators between said wheel and said casting supported respectively therefrom, said power means being operable to move certain of said stators and rotors into a pile against one of said rotors for frictional engagement, said release means being operable to return said stators to normal released position, and other release means mounted outboard said wheel and operable to return certain of said rotors to normal released position.

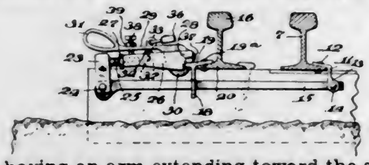
2,315,242
MOVING TOY AND PROJECTOR THEREFOR
Quentin L. Briggs and Raymond A. Voyls, Chicago, Ill.
Application August 10, 1942, Serial No. 454,204
10 Claims. (Cl. 46—81)



1. A projector for a toy airplane having an elongated hollow body comprising a manually operated piston pump having an elongated tubular discharge nozzle adapted to be telescopically received in the body of the airplane, the telescoped portions of said nozzle and said body being of substantial length whereby air pressure created by the pump may act on the body of the airplane for a sufficient length of time to permit the airplane to be accelerated to flying speed.

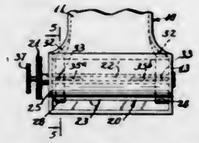
2,315,243
SAFETY SWITCH POINT PROTECTING MEANS
Thomas O. Bussler, Wheelersburg, Ohio, assignor of one-third to Clifford Dold and one-third to Burty M. Durr, both of Wheelersburg, Ohio
Application September 14, 1942, Serial No. 458,248
13 Claims. (Cl. 246—448)

13. Means for locking a switch point to a stock rail, comprising a first bracket secured to the switch point and having a downwardly extending fork-shaped part, a second bracket rigidly united with the stock rail and provided with an overhanging lip and a guide slot below the lip, a link having one of its ends pivotally secured to the fork-shaped part of the first bracket, said link extending beneath the switch point and stock rail, and also through said slot, a substantially angular structure having a lower end pivotally connected to the other end of the link, said struc-



ture having an arm extending toward the second bracket and adapted to overlie said lip, said arm being adapted to abut against the second bracket to prevent the switch point from moving away from the stock rail, a latch lever pivotally connected to said arm and provided with a hook adapted to interlock with the bottom of said lip, and means for lockably securing the latch lever to the arm to prevent the latch lever from moving to switch point unlocking position.

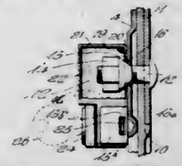
2,315,244
TOOTH POWDER DISPENSER
Joseph Campbell, Jr., West Brighton, Staten Island, N. Y.
Application April 21, 1941, Serial No. 389,543
6 Claims. (Cl. 221—107)



1. A tooth powder dispenser, comprising a casing having a top neck for receiving and supporting a receptacle of powder and also having a horizontal cylindrical portion with a bottom discharge chute, a measuring pocket member turnably mounted axially through said cylindrical portion and having a projecting portion by which it may be turned, means for assisting in selectively aligning the pockets of said member with said discharge chute, shutters slidably mounted on said pocket member, and means for moving said shutters into the pockets of said member for reducing their capacities, said shutters comprising relatively wide discs having portions extending into said pockets, said means for moving said shutter comprising pins on the shutters and engaging spaced right and left hand thread sections formed on a rotative rod which may be turned to move the shutters together or apart.

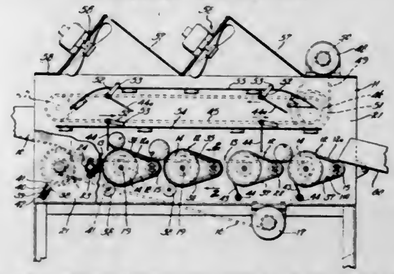
2,315,245
PROTECTIVE DEVICE
Thomas W. Collier, Brunswick, Ga.
Application April 15, 1942, Serial No. 439,132
1 Claim. (Cl. 70—232)

A locking device comprising a mounting plate secured adjacent a device to be protected, a casing hingedly connected at one end with said mounting plate in a position substantially displaced from the device to be protected and comprising a covering portion and a lock carrying portion separated by a partition member, said covering portion being adapted to cover the device to be protected and be moved to a position in which said casing projects substantially normal to the plane of said mounting plate and one wall thereof extends substantially continuous with said mounting plate, side members integrally connected with said mounting plate and having diametrically opposite slots therein adjacent said plate, and a lock mounted in the lock carrying portion of said casing and having sym-



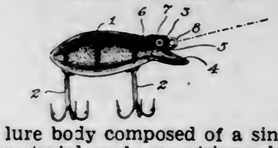
metrically disposed projectible and retractible double throw locking bolts adapted to engage the diametrically opposite slots in said side members for maintaining said casing in position over said mounting plate, said casing being movable with respect to said mounting plate for allowing unobstructed access to the device to be protected when said double throw locking bolts are disengaged from the slots in said side members.

2,315,246
FRUIT DRYING MACHINE
Thomas G. Cunning, Upland, Calif.
Application April 29, 1941, Serial No. 390,918
8 Claims. (Cl. 34—95)



2. In a fruit drying machine of the character described, a horizontally extending fruit supporting course comprising a series of endless belts over which wet fruit is movable, individual pairs of rolls within and carrying said belts, the top surfaces of the rolls within adjacent portions of successive belts being at different elevations to form troughs between such successive belts, means for driving said belts, and means traveling above the belts and acting to engage and move the fruit along said course.

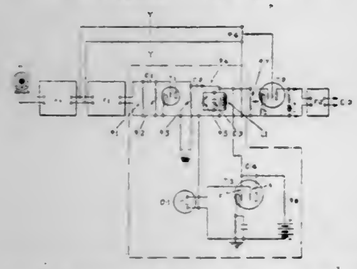
2,315,247
FISH LURE
Sam F. Davenport, Garrett, Ind., assignor to Creek Chub Bait Company, Garrett, Ind.
Application March 5, 1942, Serial No. 433,523
1 Claim. (Cl. 43—46)



A fish lure body composed of a single piece of buoyant material, and comprising a head portion provided with a downwardly-inclined diving plane on its forward end, a substantially verti-

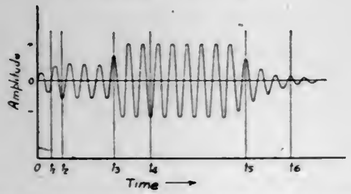
cally disposed wall extending upwardly from the rear edge of the diving plane, the lure body being narrowed directly behind the head portion, and the top of the head portion being flattened to provide a substantially horizontal plane.

2,315,248
PSEUDO-EXTENSION OF FREQUENCY BANDS
Louis A. de Rosa, Dayton, Ohio
Application July 30, 1940, Serial No. 348,359
21 Claims. (Cl. 179—1)



1. In an electrical circuit for the production of subjective auditory effects and including a non-linear distorting circuit element with impressed audio frequency modulations, means for selecting at least a part of the output of said non-linear circuit element, means for transitionally modifying said selected part as a function of time so as to produce a plurality of audio frequency sidebands, and means for collecting and transmitting at least a portion of the said transitionally modified, selected, part.

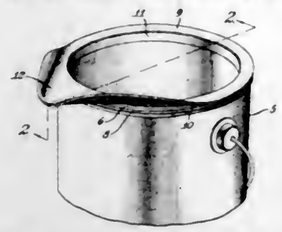
2,315,249
PSEUDO-EXTENSION OF FREQUENCY BANDS
Louis A. De Rosa, Dayton, Ohio
Application October 8, 1941, Serial No. 414,137
13 Claims. (Cl. 179—1)



1. In a "pseudo-extension" circuit including a non-linear device and a source of audio frequency modulation, means for impressing said audio frequency modulations upon the input of the non-linear device, means for varying the non-linearity of said non-linear device during changes in the amplitude of the impressed signal, means for collecting at least a part of the output of said non-linear device, and means for transmitting the collected signal.

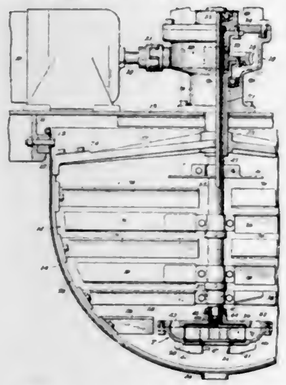
2,315,250
DETACHABLE SPOUT
Charles A. Eilers, Montague, Mich.
Application June 20, 1939, Serial No. 280,205
1 Claim. (Cl. 221—23)

The combination with a container having at its upper end an inwardly extending flange provided with a downwardly turned flange for retaining a cover thereon, of a pouring spout comprising an annular flat ring covering the inwardly extending flange of the container and provided at its inner edge with a downwardly



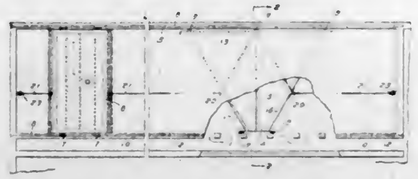
turned flange frictionally engaging the downwardly turned flange of the container, and a lip portion integral with one side of the ring and extending beyond the edge of the container and forming a concave pouring portion.

2,315,251
COMBINATION MIXER
Edwin G. Eppenbach, Manhasset, N. Y.
Application June 25, 1941, Serial No. 399,580
9 Claims. (Cl. 259—105)



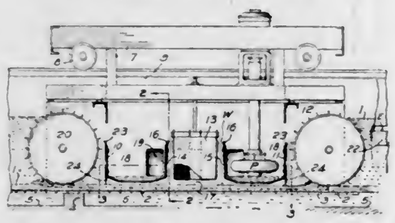
1. In a device of the class indicated, a supporting frame, a vessel normally suspended therein in a horizontal position, operative instrumentalities normally extending into the normally suspended vessel and being also supported by the frame, but from above the vessel, said instrumentalities comprising a mixer and an impeller type agitator, the mixer consisting of stationary and movable elements, the latter being adapted to rotate in a substantially horizontal direction within the vessel; said agitator comprising a stator and an impeller, the latter being adapted to produce agitation in a substantially vertical direction, combination actuating means for said mixer and said impeller comprising an assembly of telescoping members extending into the vessel, one of the members serving as driver for the impeller of the agitator, another stationary member suspending the stator of the agitator and the stationary elements of the mixer, a deflector also carried by said other member, and a third member serving as driver for the movable elements of the mixer; motive and power transmission means arranged for the driver members of said actuating means, said motive means being designed to operate the drivers either separately or together, when desired.

2,315,252
FILTER CHANNEL SCRAPER
Charles E. Fraser, Kew Gardens, N. Y.
Application June 25, 1940, Serial No. 342,251
4 Claims. (Cl. 210—128)



1. A scraper device for removing objectionable material from a channel beneath a downflow filter bed, including a scraper having a diagonal leading edge arranged to move scraped material to one side when moved in one direction and a diagonal trailing edge arranged to move the scraped material to the same side of the channel when moved in the opposite direction, each of said edges being provided with a squeegee engaging the bottom of the channel, and means to move the scraper back and forth over the bottom of the channel to direct the scraped matter to said side of the channel.

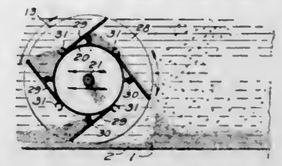
2,315,253
FILTER BED CLEANER WITH CONNECTED WASH WATER BOXES
Charles E. Fraser, Kew Gardens, N. Y.
Application June 25, 1940, Serial No. 342,252
9 Claims. (Cl. 210—128)



8. A filter bed cleaner, including means for making a sealing contact with a filter bed to close off an area thereof from a filtering action, means to create a zone of agitation in the closed off area of the bed, a wash water box on each of two sides of the agitation creating means and communicating with the zone of agitation, into which dirt released from the bed in the zone of agitation may pass, a rake depending from each wash water box on the side away from the agitation creating means, and means to remove wash water from the boxes.

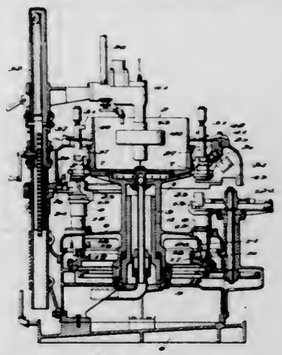
2,315,254
FILTER BED CLEANER WITH ROTARY AGITATOR
Charles E. Fraser, Kew Gardens, N. Y.
Application June 25, 1940, Serial No. 342,253
9 Claims. (Cl. 210—128)

5. A filter cleaner adapted for movement over a filter bed, having means for making sealing contact with a bed for sealing off an area thereof from a filtering action, means including a rotary device having a member pivoted on an axis substantially parallel to the axis of the rotary device, said member being adapted to move about its pivot to change its position when the direction of rotation of the rotary device is changed thereby to pick up, elevate and drop bed material upon rotation of the rotary device in either



direction and means for withdrawing waste loosened by said rotary device.

2,315,255
CAN FILLING MACHINE
Alfred O. Giles, Eugene S. Sheffield, Jr., and Francis T. Maruoka, Kahului, and Bernard J. Butler, Paia, Territory of Hawaii, assignors to Maui Pineapple Company, Ltd., Paia, Territory of Hawaii, a corporation of the Territory of Hawaii
Application March 2, 1942, Serial No. 433,060
2 Claims. (Cl. 226—97)

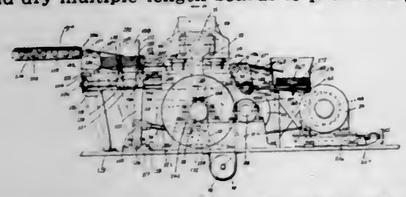


1. The improvement in can filling machines of the type having a rotating turret provided with a plurality of filling units for holding the cans to be filled and in which a rotatable valve capable of assuming different operative positions is associated with each unit for controlling communication with the interior of the cans, said improvement including a rotatable device mounted on each of said units for actuating the valve associated therewith, said device being provided with a plurality of laterally projecting arms and with a member vertically spaced from said arms, a plurality of stops arranged about said turret respectively cooperable with said arms as the turret moves for rotating said valve through a part of its arc of travel from one operative position to the next one, and means adjacent each of said stops for cooperating with said member as the turret continues to move for rotating the valve the remainder of its arc of travel to its next operative position.

2,315,256
PUNCHING AND CUTTING MACHINE
Otto P. Haegele, Chicago, and Otis Wack, Evanston, Ill., assignors to United States Gypsum Company, Chicago, Ill., a corporation of Illinois
Application August 20, 1941, Serial No. 407,516
15 Claims. (Cl. 164—15)

1. The method of manufacturing plasterboards comprising drying multiple-length boards and

simultaneously perforating and cutting each of said dry multiple-length boards to provide a plu-



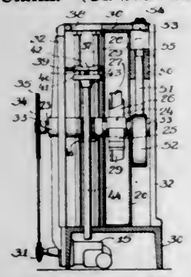
rality of standard-length perforated boards from each multiple-length board.

2,315,257

MACHINE PROVIDING FACILITIES FOR BATTING BASEBALLS AND DRIVING GOLF BALLS

Jesse Hancock Harlow, Chicago, Ill.

Application August 25, 1941, Serial No. 408,168
1 Claim. (Cl. 273—33)



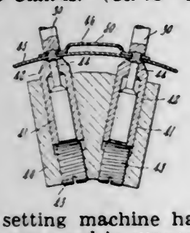
In association with a plurality of amusement devices requiring respectively different sizes and characters of balls for the playing thereof, an inclined channel for the conveyance of said several sizes of balls, said channel having an aperture therein through which the smaller balls gravitate, a channel parallel to said first mentioned channel for the receipt of said smaller balls, means located at the exit of both said channels for controlling the delivery of balls therefrom, a drum for receiving balls delivered from said channels, ports located in the upper semi-circumference of the ends of said drum, arms of different lengths rotated concentrically of said drum and battens or guides carried by said arms for directing said balls respectively to said respective ports.

2,315,258

RADIAL FASTENER SETTING MACHINE

Arthur R. Havener, Wayland, Mass., assignor to Judson L. Thompson Manufacturing Company, Waltham, Mass., a corporation of Massachusetts

Application June 2, 1939, Serial No. 277,036
9 Claims. (Cl. 78—49)



1. A rivet setting machine having a pair of setting anvils arranged to support the work and with their axes converging, rivet-driving mechanism associated with each of said anvils and with its axis alined with the axis of its respective anvil, and means for positively adjusting said anvils in line with said axes.

2,315,259

TREATING GLASS FIBERS

James Franklin Hyde, Corning, N. Y., assignor to Owens-Corning Fiberglas Corporation, a corporation of Delaware

No Drawing. Application April 15, 1940, Serial No. 329,827
5 Claims. (Cl. 117—126)

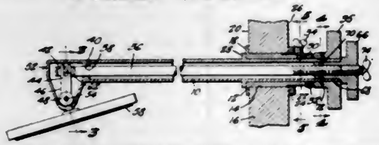
1. The method of increasing the wet flex strength and electrical surface resistance under humid conditions of glass fibers which includes immersing the fibers for one to eight hours in an aqueous solution containing a metallic salt of an acid selected from the group consisting of acetic, hydrochloric, hydrofluoric, nitric and sulfuric acids and thereafter washing the fibers with water.

2,315,260

REARVIEW MIRROR

George W. Lancaster, Bethesda, Md.

Application December 12, 1941, Serial No. 422,766
5 Claims. (Cl. 88—98)



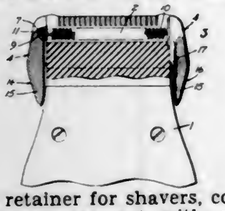
1. In an automotive vehicle, a rear view mirror comprising a support having an opening, a tube extending through said opening, a sleeve extending through said opening and rotatably supporting said tube, means acting on said sleeve and the tube to frictionally secure the tube against accidental rotation, a reflector mounted on one end of said tube for pivotal movement about an axis at an angle to the axis of said tube, a grip on the second end of the tube to rotate the latter and adjust said reflector about the axis of the tube, a rod extending through said tube and having one end connected with the reflector to pivot the latter about said first-mentioned axis, and a grip operatively connected with the second end of the rod to impart longitudinal motion thereto through rotation of the last-mentioned grip.

2,315,261

HAIR RETAINER FOR SHAVERS

Harry Landsiedel, Wilton, Conn., assignor to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware

Application January 9, 1942, Serial No. 426,136
13 Claims. (Cl. 30—41.5)



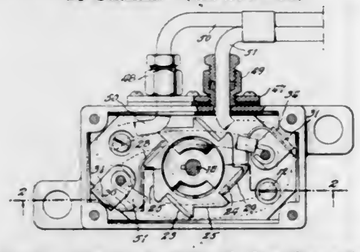
1. A hair retainer for shavers, comprising end members for engagement with opposite open ends of a shaver head, and resilient means having opposite ends permanently attached to said members and tensioned for normally retaining said members in position on opposite ends of said shaver head and operable by elongation for bodily removal of the hair retainer as a unit by movement of said end members away from each other.

2,315,262

ELECTRIC SWITCH

Edward A. Lefebre, Jamaica, N. Y.

Application April 22, 1942, Serial No. 440,014
16 Claims. (Cl. 200—65)



1. In an electric switch of the character disclosed, the combination of an insulating base, a rotor comprising a body of insulating material having circumferential conducting and non-conducting ratchet teeth in the edge of the same and a circular set of ratchet teeth on one face of the same, a switch contact on said insulating base yieldingly engaged with said circumferential ratchet teeth, a driving pawl rotatably mounted in concentric relation over said face of said rotor and yieldingly engaging said circular set of ratchet teeth and means for imparting rotary movements to said driving pawl and including a spindle supporting said driving pawl and mounted on said insulating base.

2,315,263

LIQUID DISCHARGE SYSTEM

Charles H. Lindsay, Elmira, N. Y., assignor to American-La France-Foamite Corporation, Elmira, N. Y., a corporation of New York

Application August 2, 1941, Serial No. 405,151
4 Claims. (Cl. 169—31)



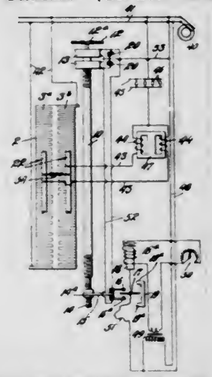
3. In a carbon dioxide discharge system, a flask having an outlet fixture screwed into the neck opening thereof, a dip-tube structure in the form of a siphon fastened to said fixture and removable therewith from said neck opening, one leg of said structure having a flexible connection with the outlet fixture and the other leg connecting with a space in the flask adjacent such fixture, a valve-cage weighting the far end of the siphon and a gravity valve therein controlling an entrance into the siphon.

2,315,264

ELECTRIC CONTROLLING APPARATUS

Frank G. Logan, Mount Vernon, N. Y., assignor to Ward Leonard Electric Company, a corporation of New York

Application April 21, 1939, Serial No. 269,100
7 Claims. (Cl. 171—119)



1. An adjustable voltage device for changing the voltage applied to a consumption circuit over a wide range, said device having a movable contact, a screw shaft for adjusting the position of said contact, reversible means for driving said shaft, said shaft having a threaded portion of smaller pitch than the main screw of the shaft, a controlling device for said reversible means having a part movable on said threaded portion, and an adjustable remote control device for adjusting the position of another part of said controlling device to thereby cause said movable contact to attain a corresponding position.

2,315,265

MANUFACTURE OF ARTIFICIAL STAPLE FIBERS

Louis E. Lovett, Cleveland, Ohio

Application March 11, 1939, Serial No. 261,402
3 Claims. (Cl. 18—8)



2. Fiber treating apparatus including in combination spinning means, means for grouping fibers from said spinning means longitudinally into a thread bundle and for laying said thread bundle in overlapping spirals on a moving conveyor, a series of treating tanks through which said conveyor travels, means for preventing flotation of said thread bundle on said conveyor in said tanks comprising secondary travelling members bearing down upon said thread bundle, and unloading means for said conveyor comprising guides for inverting the conveyor and for separating said secondary travelling members from the conveyor.

2,315,266

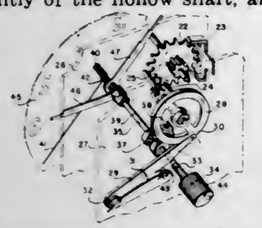
TIME-CONTROLLED CLOCK ATTACHMENT

Carl Lurtz, Brooklyn, N. Y.

Application September 18, 1936, Serial No. 101,385
6 Claims. (Cl. 161—1)

1. A clock device including time-indicating hands, a hollow shaft for one of said hands, means for driving the hollow shaft and the time-indicating hands at a constant speed; a setting shaft lying within the hollow shaft, and a supplemental

hand interconnected with the setting shaft to indicate the angular position and degrees of rotation of the latter, a coupling between the hollow shaft and the setting shaft whereby the latter is forced to turn progressively over recurring cycles of operation but may be manually turned independently of the hollow shaft, an operating



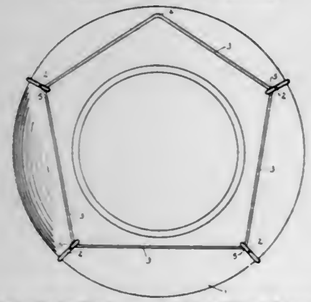
member interconnected with and driven by the setting shaft, an adjunctive device adapted for the accomplishment of an automatic operation at a definite time period, and a control member in said adjunctive device adapted to move to operative and to non-operative positions with co-operation of said operating member of the setting shaft.

2,315,267
GARMENT HANGER
Jack E. McEwen, Detroit, Mich.
Application November 25, 1941, Serial No. 420,436
1 Claim. (Cl. 223—95)



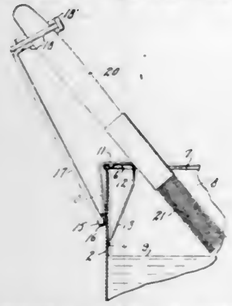
A garment hanger comprising a pair of slidably connected adjustable rods, means on one end of the rods for suspending a pair of trousers therefrom, a plate on one side of the rods, a suspension hook including a loop engaged with the other side of the rods, flanges on the plate receiving the rods therebetween, fingers on the plate engaged in the loop, a bolt mounted in the plate, said bolt passing between the rods and through the loop, a clamping nut threaded on the bolt, and a washer on the bolt between said nut and said loop.

2,315,268
PLATE HANGER
Belle Davis Oliphant, Glendale, Calif.
Application March 30, 1942, Serial No. 436,811
2 Claims. (Cl. 248—30)



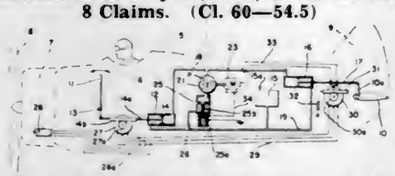
1. In a plate hanger, a plurality of hooks adapted to be hooked around the outer edge of a plate, a non-rigid element to which the hooks are juxtapositioned in a pre-determined secured relation at points so that the portions of the non-rigid element extending between the hooks do not intersect any mid-portion of the plate and lie between the outer edge of the plate and said mid-portion whereby the mid-portion may come into direct and flat contact with the wall, said non-rigid element providing a means whereby the plate may be suspended flat from that wall, the portion of the non-rigid element providing said wall attaching portion being of greater length than the other portions extending between said hooks and is located at the top of the plate.

2,315,269
MULTIPOSITION HOLDER FOR BRUSHES AND THE LIKE
Constantine A. Morgillo, Toledo, Ohio
Application August 5, 1941, Serial No. 405,523
2 Claims. (Cl. 248—110)



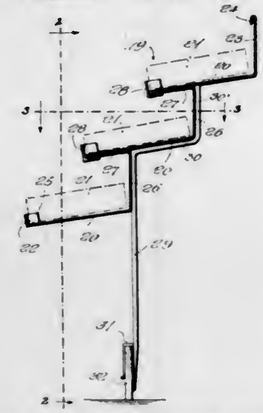
1. In a two-part holder, a mounting clamp adapted to locate the holder as a unit, and a clamp for an object to be held hinged to the mounting clamp, said mounting clamp having a pivot bearing portion for the hinge, and therefrom a strap riser, an offset, and a downwardly inclined spring terminus extending normally below the pivot bearing portion, whereby, as the offset clears the rim to the opening of a bucket and the bearing is drawn against the bucket side, the downward terminus may swing into position theretoward for an effective mounting clamp with the bucket for the holder.

2,315,270
HYDRAULIC CONTROL SYSTEM FOR AIRCRAFT
Richard W. Palmer, Whittier, Calif., assignor to Vultee Aircraft, Inc., a corporation of Delaware
Application February 26, 1941, Serial No. 380,621
8 Claims. (Cl. 60—54.5)



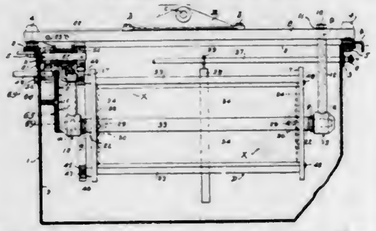
1. In an hydraulic control system for aircraft having a control surface, an hydraulic control cylinder, a piston actuated by manually controlled means for movement within said cylinder, an hydraulic servo-cylinder and piston assembly for actuation of said control surface, fluid conduits connecting the respective cylinder ends whereby synchronous movement of said first piston are transmitted to said second piston, rotary pump means for replenishing fluid to said cylinders, and automatic electric means actuated by asynchronous movement of said pistons adapted to impart selective rotation to said pump means and thereby cause said control surface to become synchronized with said manually controlled means.

2,315,271
DISPLAY TRAY
Weston J. Porter, Bunkie, La.
Application January 24, 1941, Serial No. 375,860
3 Claims. (Cl. 211—128)



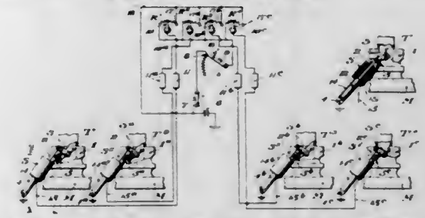
3. In a display device, a tray formed from a blank folded along transversely extending lines to form a plurality of shelves disposed in vertically spaced stepped relation to each other, said shelves each having a bottom and a rear wall, portions of the blank extending forwardly from upper edges of the rear walls of certain of the shelves being integrally united with front edges of the bottoms of adjoining shelves and constituting reinforcing means for forward portions of the bottoms of the said adjoining shelves, abutment clips at corners of forward edges of bottoms of the shelves to hold articles upon the shelves and having portions extending rearwardly of the bottoms along side edges thereof, and a standard disposed vertically with its upper portion secured to certain of the shelves.

2,315,272
ELECTROPLATING APPARATUS
Kurt T. Potthoff, Brooklyn, N. Y.
Application October 8, 1938, Serial No. 233,922
15 Claims. (Cl. 204—213)



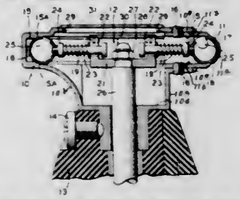
1. In an electro-plating apparatus, the combination of a pair of metallic bearings; a barrel including dielectric heads, each having a central opening adjacent to one of the bearings, and an annular recess on the inner face of the head concentric with the opening; a metallic stub-shaft received in each opening and having a smooth exterior end engaged in the adjacent bearing; said shaft having a threaded inner stem in the barrel, and an intermediate disk flange sunk in, and secured to the inner face of, the head; a metallic member having a central opening received on said stem; sealing means between said member and the barrel head; a non-conductive wrench-receiving head held against said stem and engaging said member; said member and wrench head constituting an assembly having threaded engagement with said stem for forcing the member toward the head.

2,315,273
ELECTRIC THROTTLE CONTROL SYSTEM
Harlie O. Putt, Elkhart, Ind.
Application October 17, 1941, Serial No. 415,495
6 Claims. (Cl. 60—97)



1. In an electric throttle control system for internal combustion engines, the combination with a plurality of internal combustion engines, of a master control element, throttle valves for the carburetors of each of said engines, spring means operatively connected with each of said valves and normally holding the valves in open position, a solenoid for each of the valves, each solenoid having its plunger rod operatively connected with the respective valve and arranged to close same, and electric means connected with each of the aforesaid solenoids for independently operating same to permit of independent control of the closing of each of the valves by the solenoid plunger, and for combined and simultaneous control of all valves in unison by means of the master control element.

2,315,274
MECHANICAL RAZOR
James H. Rand, Jr., Stamford, Conn., assignor to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware
Application November 16, 1938, Serial No. 240,734
5 Claims. (Cl. 30—43)



5. A shaver comprising an outer sheet metal shear plate formed to provide an outer shaving section of substantially semi-circular transverse cross section and partially circular longitudinal cross section, side walls carried by the opposite sides of the shaving section in spaced parallel relation, said shaving section and side walls being formed at the free edges thereof to provide a substantially rectangular base portion for mount-

ing on a suitable supporting structure, said shaving section being formed with a plurality of apertures to provide a plurality of cutting edges on said shaving section about the margins thereof, and an inner cutter movably mounted for slidable engagement with the inner surface of said shaving section for movement thereover in the movement of said inner cutter, said inner cutter having an outer semi-circular cutter portion formed in concentric relation with the semi-circular cross section of said outer cutter shaving section for surface contact therewith and cutting cooperation with the cutting edges thereon in the curvilinear travel of said inner cutter over the inner surface of said shaving section.

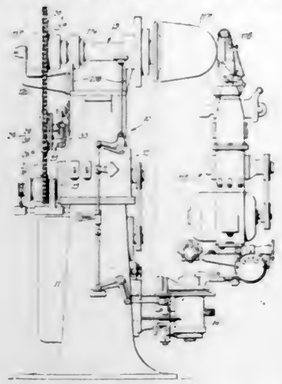
2,315,275
HOLDER FOR BALLS AND BOBBINS OF STRAND MATERIAL
Frederick O. Sanford, New York, N. Y.
Application April 7, 1942, Serial No. 437,972
3 Claims. (Cl. 242—136)



1. A holder for balls and bobbins of strand material comprising a pin-shaped section adapted to pierce and carry a ball or bobbin, a disc for holding said ball or bobbin in its position on said pin, means for securing said disc in its position on said pin-shaped section, a washer having a hole, a pivot-pin provided with a head passed through said hole and secured to said pin section, a sleeve having a restricted cross-section at one end, said washer being fastened within said sleeve in a position in which the walls of said sleeve encompass the pivot-pin carrying end of said pin-shaped section and a bracelet including a knot, said knot being disposed behind the restricted cross-section of said sleeve, thus securing said bracelet to said sleeve.

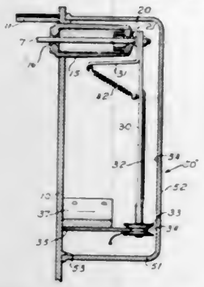
2,315,276
POUNCING MACHINE
Paul Schultze, Danbury, Conn., assignor to John C. Doran, doing business as Doran Brothers, Danbury, Conn.
Application December 19, 1939, Serial No. 309,945
2 Claims. (Cl. 223—20)

1. A pouncing machine comprising, in combination, a base, a spindle rotatably mounted on said base, an oval hat block mounted on one end of said spindle and adapted to mount and rotate an oval hat, a pouncing tool for pouncing the crown portion of said hat, a driving sprocket mounted on said base, a driven sprocket, means forming an operative connection between said driven sprocket and said spindle, said driven sprocket being eccentric and mounted with respect to said hat block so that its longer radius is angularly displaced with respect to the longer radius of the hat block when said pouncing tool



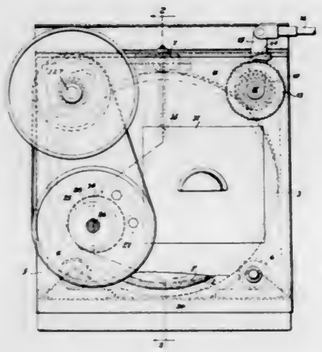
is operating on the side crown portion of a hat mounted thereon and the shorter radius of said eccentric sprocket being angularly displaced with respect to the shorter radius of the hat block when said pouncing tool is operating on the end crown portions of the hat, and a link belt connecting said sprockets.

2,315,277
RADIOSONDE HUMIDITY ELEMENT
Benson Russell Shaw, Washington, D. C., assignor to Washington Institute of Technology, Inc., Washington, D. C., a corporation of Delaware
Application July 18, 1941, Serial No. 403,044
3 Claims. (Cl. 201—48)



1. An apparatus for varying the resistance of an electric circuit in accordance with changes in the humidity of the surrounding air, comprising a device the overall length of which is varied by changes in the humidity of the air, one end of said device being connected to a fixed support, a lever arm connected to the other end of said device, said lever arm being fixed on a shaft, an arm fixed to said shaft and having a roller at the extremity thereof which is formed with a groove extending entirely thereabout between the ends thereof, an arcuate resistance element arranged concentrically with said shaft and having an edge portion engaging said roller and received within the groove therein, the parts of said roller defining the groove therein being so formed that contact between the roller and the edge portion of the resistance element is maintained during movement of the roller away from the edge portion, a cup-shaped member covering said shaft, arm, roller and resistance and having a bottom wall spaced from the outer peripheral edge of the roller by a distance less than the depth of the groove in the roller, means urging the arm and roller to a predetermined position with respect to the resistance element, and an electric circuit including the arm and the resistance element.

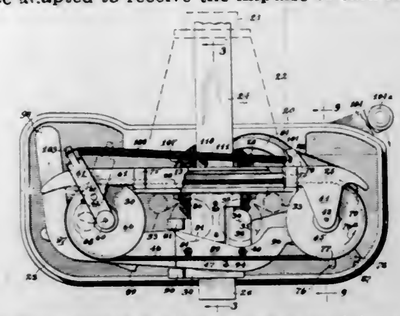
2,315,278
AIR FILTER
William Shaw, Saco, Maine, assignor to Saco-Lowell Shops, Boston, Mass., a corporation of Maine
Application June 15, 1940, Serial No. 340,749
6 Claims. (Cl. 183—63)



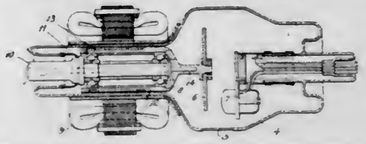
6. An air filter of the character described, comprising a filtering cylinder, a casing in which said cylinder is supported for rotation around its own axis, means for conducting air to be filtered into said cylinder at opposite ends thereof where it passes outwardly through the filtering surface of the cylinder and leaves the material filtered out of the air stream on the inner surface of the cylinder, a screw conveyor mounted in said cylinder and extending lengthwise thereof in position to act directly on the accumulation of material filtered out of the air stream by the cylinder to remove said material from the inner surface of the cylinder, mechanism for driving said conveyor, a partition positioned transversely in said cylinder approximately midway of its length where it divides the air space in the cylinder into two chambers communicating, respectively, with the opposite ends of the cylinder, and means supporting said partition for adjustment lengthwise of said cylinder.

2,315,279
FOCAL PLANE SHUTTER FOR CAMERAS
Alfred Simmon, Jackson Heights, N. Y., assignor to Simmon Brothers Inc., Long Island City, N. Y., a corporation of New York
Application August 29, 1941, Serial No. 408,798
18 Claims. (Cl. 95—57)

1. In a focal plane shutter for cameras, a curtain, anti-friction supports for said curtain, and mechanism to impart an impulse to said curtain, prior to exposure, to operate said curtain by its own inertia only during exposure, comprising a spring actuated member and means to release said member, said curtain having a contact surface adapted to receive the impulse of said member upon release and being disengaged from said member during exposure.

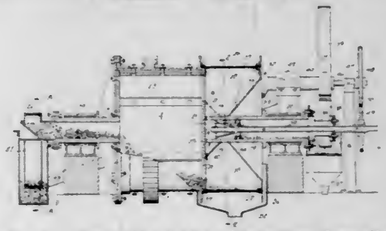


2,315,280
VACUUM TUBE APPARATUS
Joseph W. Skehan and George J. Agule, Stamford, Conn., assignors to Machlett Laboratories Incorporated, Springdale, Conn., a corporation of Connecticut
Application March 10, 1939, Serial No. 260,884
8 Claims. (Cl. 250—148)



1. A bearing for use within an evacuated envelope which comprises members having working surfaces in contact and rolling one upon the other, the members being made of a hard metal, and a thin layer of silver on the working surface of at least one of the members.

2,315,281
ORE MILL
Clyde O. Smith, Fort Jones, Calif.
Application October 3, 1941, Serial No. 413,499
7 Claims. (Cl. 83—9)



1. In an ore mill of the character described, a rotatable grinder, discharge openings at the discharge end of said grinder, compartments on the discharge end of said grinder, said compartments connected with said grinder by said openings, a peripheral screen extending about said compartments, means located below said screen for collecting ore particles passing through said screen, a central member attached in axial alinement with said grinder extending from said end of said grinder and rotated with said grinder, a discharge port in each compartment connecting with the interior of said central member, whereby ore particles which are too large to pass through said

peripheral screen will be discharged into said central member, means preventing ore in said central member from discharging back into said grinder from the adjacent end of said central member, a discharge opening at the opposite end of said central member remote from said grinder, means for collecting ore from said discharge opening of said central member and for separating off larger particles of ore for return to said grinder.

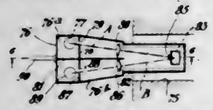
2,315,282

METHOD OF AND APPARATUS FOR DETERMINING CHARACTERISTICS OF SURFACES

Harold A. Snow, Orange, N. J.

Application October 21, 1939, Serial No. 300,534

4 Claims. (Cl. 88—14)



1. In apparatus for determining the smoothness of a ground or polished metallic surface, the combination of a housing, an elongated viewing head of less width than said housing extending therefrom and adapted to be placed parallel with the surface to be analyzed, means forming a viewing opening in a side of said viewing head at the end thereof remote from said housing, a lens mounted in said opening, a source of light in said housing, a photoelectric device in said housing, and an optical system in said housing and said viewing head in cooperating relationship with said lens and adapted to project a primary beam of light on said surface and a reflected beam of light from said surface on said photoelectric device.

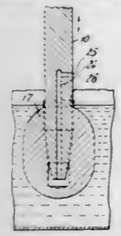
2,315,283

APPARATUS FOR MANUFACTURING THIN RUBBER ARTICLES

Roy E. Thompson, Nyack, N. Y., assignor to Lorica Laboratories Inc., Jersey City, N. J., a corporation of New Jersey

Application April 9, 1940, Serial No. 328,668

2 Claims. (Cl. 18—41)



1. In apparatus for the manufacture of elastic bags by the dipping process, the bag being formed of a bag proper and a band integrally attached thereto at its opening, the opening being substantially smaller in cross-section than the interior of the bag when both are unextended, the combination comprising a shaft having a diameter substantially as large as the opening of the bag, the shaft being adapted to support an annular elastic band, and an integral head having a continuous outer surface substantially the size and shape of the bag proper, the head having an opening of a size adapted to receive one end of the shaft with a snug fit, whereby the head may be removably mounted on said end of the shaft and freely suspended from and supported by the shaft during a dipping operation, and said head being provided with a rounded outer surface coming substantially to a sharp annular line of intersection with the surface of the shaft when the head is mounted thereon, so that the head may be used to push an annular elastic band along the shaft as the shaft is inserted into the head and so that the edge formed by the line of intersection will permit effective engagement of the head with the rim of the band mounted on the shaft, the surface of the head at the annular line of juncture with the shaft tapering away from the shaft at an angle less than 90° to prevent excessive build-up of coating material at the line of juncture when the head is dipped in a body of coating liquid and is then removed to permit draining of excess liquid.

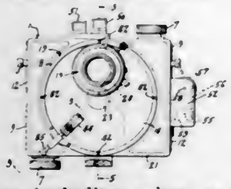
2,315,284

MULTIPLE FILM CARRYING CAMERA

William D. Thompson, San Diego, Calif.

Application May 13, 1940, Serial No. 334,722

9 Claims. (Cl. 95—2)



1. A camera including a box, a partition dividing the box into two separated film-carrying chambers having separated exposure apertures, means for supporting and guiding a separate film in each of said chambers, a lens turret, a lens system mounted on the turret, means for rotatably supporting the lens turret to permit the lens system to be selectively moved to position with relation to the exposure apertures, a filter disc having a plurality of apertures interposed between the turret and the exposure apertures, a focusing aperture formed through the box means for rotatably supporting the filter disc, filters carried by the filter disc whereby the filter may be selectively interposed in the focusing aperture while focusing, and thereafter interposed between the lens system and the exposure aperture when the exposure is to be made on one of the films.

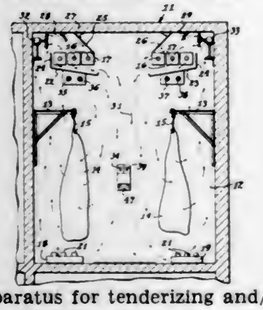
2,315,285

FOOD TREATMENT AND/OR STORAGE APPARATUS

Arthur R. Dennington, East Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application January 26, 1940, Serial No. 315,707

20 Claims. (Cl. 62—89)



1. In apparatus for tenderizing and/or storing meat or other food, the combination of a compartment, refrigerating and humidifying means disposed near the top of said compartment, and baffle means between said refrigerating and humidifying means and the top of said compartment and projecting from the latter for causing the air in said compartment to circulate through said refrigerating and humidifying means.

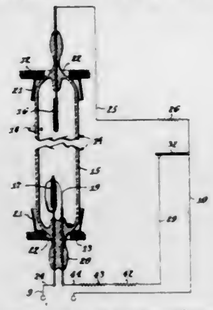
2,315,286

GASEOUS DISCHARGE LAMP

Robert F. Hays, Jr., Bloomfield, and Alva L. Herman, Montclair, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application January 11, 1941, Serial No. 374,074

6 Claims. (Cl. 176—122)



1. A high pressure gaseous electric discharge lamp comprising an envelope, a pair of oppositely disposed main electrodes in said envelope and spaced apart the optimum distance to sustain a stable arc discharge therebetween at the voltage of the customary domestic source of supply, an ionizable medium in said envelope for supporting the discharge including a vaporizable material at a pressure between one and one and one-half atmospheres during operation of said lamp, and a filamentary auxiliary electrode in said envelope connected to one of said main electrodes and to the same domestic source of supply as said main electrodes and adapted to be heated to an electron-emitting temperature from said domestic source to initiate an arc discharge between it and the most distant main electrode, and said auxiliary electrode being positioned in juxtaposition to said adjacent main electrode out of the discharge path between said main electrodes to confine the space required by both said electrodes to a minimum to conserve heat and prevent condensation of the vaporizable material and said auxiliary electrode taking no part in sustaining the discharge during operation of said lamp.

2,315,287

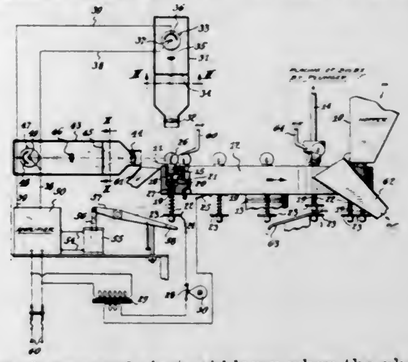
TESTING MACHINE

Gilbert C. Holloway, deceased, late of Bloomfield, N. J., by Janet G. Holloway, executrix of the estate of Gilbert C. Holloway, Bloomfield, N. J., and Frederick T. May, Verona, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application November 30, 1940, Serial No. 367,908

5 Claims. (Cl. 209—111)

1. In combination, a dial having one or more openings therein, a plunger in said opening, means inserting a filament lamp in said opening on top of said plunger, photosensitive means adjacent said dial, means projecting the light of said filament towards said photosensitive means, mean intercepting the projected light from suitable positions only of said filament and means connected to said photosensitive means to actuate



said plunger and eject said lamp when the photosensitive means is illumined from unsuitable positions of said filament.

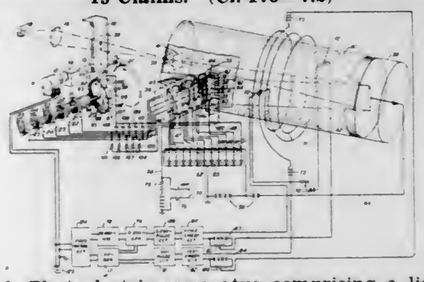
2,315,288

APPARATUS FOR AND METHOD OF GENERATING TELEVISION SIGNALS

William A. Knoop, Hempstead, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application February 27, 1941, Serial No. 380,756

15 Claims. (Cl. 178—7.2)



1. Photoelectric apparatus comprising a light sensitive cathode for emitting electrons to form an electron beam, an electrode in the path of the electrons emitted from said cathode for intercepting the major portion of said beam and having therein a plurality of scanning apertures which are widely spaced with respect to a dimension of an aperture and through which said electrons may pass from a space on one side of said electrode to a space on the opposite side thereof, and a plurality of targets one for each of said apertures upon which the electrons passing through said apertures respectively impinge to cause said targets simultaneously to emit electrons, and means for setting up a current under control of electron emission from said targets one at a time in a desired sequence.

2,315,289

DISCHARGE DEVICE WITH WATER COOLED BAFFLE

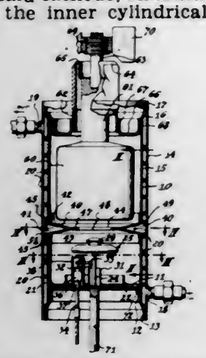
Donald E. Marshall, Allwood, and William J. Knochel, Irvington, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application September 26, 1940, Serial No. 358,474

11 Claims. (Cl. 250—27.5)

1. A discharge device comprising a cylindrical

metal envelope, a pool cathode therein, an anode spaced above said cathode, an annular hollow extension from the inner cylindrical wall of said



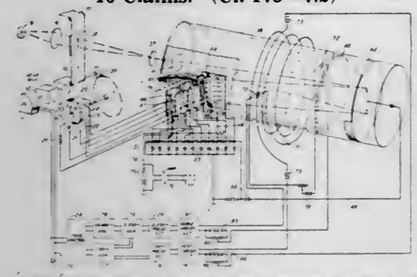
envelope extending into the space between said cathode and anode, and means for passing a cooling fluid through said hollow extension.

2,315,290

APPARATUS FOR AND METHOD OF GENERATING TELEVISION SIGNALS

Charles F. Mattke, Jackson Heights, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application February 27, 1941, Serial No. 380,773
16 Claims. (Cl. 178—7.2)



1. Photoelectric apparatus comprising a light sensitive electron emitting surface, means for accelerating the emitted electrons from said surface, a target in the path of said electrons, an electrode having a plurality of spaced apertures therein through which said electrons may pass to reach said target, and electron controlling means for causing said apertures to become effective one at a time in succession in a desired sequence in transmitting electrons to said target.

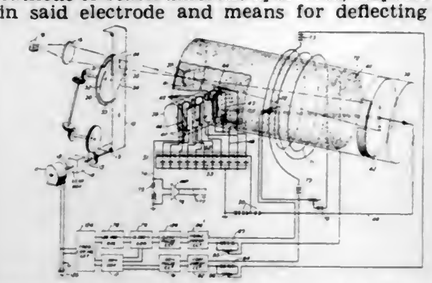
2,315,291

APPARATUS FOR AND METHOD OF GENERATING TELEVISION SIGNALS

Charles F. Mattke, Jackson Heights, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application February 27, 1941, Serial No. 380,774
6 Claims. (Cl. 178—7.2)

1. Scanning apparatus comprising a cathode ray image dissector tube having a light sensitive electron emitting cathode, a target and an electrode having a plurality of spaced apertures therein through which electrons from said cathode may pass to reach said target, means for directing a light beam upon said cathode to illuminate in succession different areas of said cathode which may overlap in part, each area being illuminated a small section at a time and different sections in succession by moving the light beam to cause electrons emitted from different of said areas of said cathode to reach different apertures, respectively, in said electrode and means for deflecting the



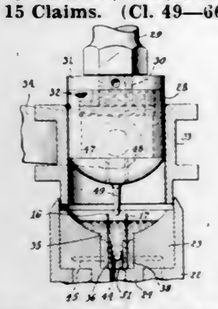
electron beam to compensate in part at least for the movement of said light beam so that electrons emitted from any section of a certain area of said cathode will pass through the corresponding aperture in said electrode.

2,315,292

APPARATUS FOR FORMING GLASS WITH CONDUCTING MEANS MOLDED IN PLACE

Henry K. Richardson, Bloomfield, and Louis D. Morand, Clifton, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application October 15, 1938, Serial No. 235,158
15 Claims. (Cl. 49—66)



1. Apparatus for molding glass with a conductor in place, comprising a lower mold element provided with upwardly flaring sides and a generally central aperture and adapted to receive molten glass, means receivable in said aperture for gripping said conductor therebetween, and holding it in place for molding glass therearound, means for delivering molten glass to said lower mold element, and an upper mold element tapered to telescope with said upwardly flaring sides with clearance allowing for the desired thickness of said glass and adapted to be forced down into said glass to cause the latter to rise in and fill the space between said elements, said upper mold element having a downwardly opening aperture adapted to receive the upper end portion of said conductor, said mold elements being separable after hardening of the glass to permit removal of the latter therefrom.

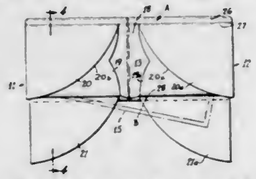
2,315,293

BILLFOLD AND THE LIKE

Bernard Stember, Summit, N. J., assignor to Basic Patents Inc., New York, N. Y., a corporation of New York

Application April 22, 1942, Serial No. 440,061
2 Claims. (Cl. 150—36)

2. A bill fold or the like foldable along its transverse medial axis providing two superimposable sections, and comprising three longitudinal members each having an upper and a lower edge, one of said members being intermediate the other two of said members, said intermediate member being connected at its upper longitudinal edge with the upper longitudinal edge of one of said two of said members constituting the bottom of a compartment formed by said one member and said intermediate member with the mouth of said compartment substantially at the lower longitudinal edges thereof, said intermediate member being connected at its lower longitudinal edge with the lower longitudinal edge of the other of said two of said members con-



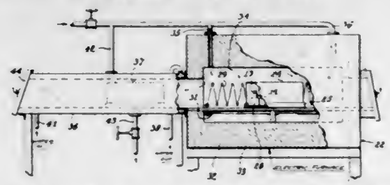
stituting the bottom of a compartment formed by said other member and said intermediate member with the mouth of said latter compartment substantially adjacent said upper longitudinal edges, said mouths of said compartment extending in said sections across said axis, a flap in each of said sections connecting with one of said two of said members and spaced from said axis, and a pocket in each of said sections over the other of said two of said members and spaced from said axis, said flaps foldable over the adjacent mouth of one of said compartments and engageable respectively with said pockets whereby the said adjacent mouth may be substantially closed.

2,315,294

METHOD OF BRAZING

Nelson H. Stewart, Caldwell, and John H. Ramage, Bloomfield, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application July 19, 1941, Serial No. 403,133
9 Claims. (Cl. 113—112)



3. The method of brazing comprising heating parts to be connected and associated brazing metal in a carbonaceous atmosphere until said brazing metal melts and unites said parts, and then moving said united parts to a cooling chamber and introducing a non-contaminating gas to said cooling chamber to replace said carbonaceous atmosphere.
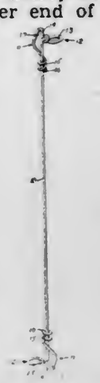
2,315,295

FISHING TACKLE

Fred Stogermayr, Hoboken, N. J.

Application September 13, 1941, Serial No. 410,679
9 Claims. (Cl. 43—28)

1. A fishing tackle member consisting of a wire comprising a shank, a pair of oppositely disposed integral loops extending from the shank, one loop being located in a transverse plane and the other in a parallel plane with respect to the plane of the shank, the transverse loop being adapted to be passed through a loop at one end of a snell and have the other end of the snell threaded



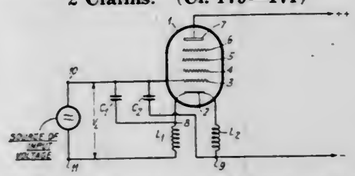
back therethrough to lock the snell to the member and through the loop in the parallel plane to guide the snell and hold it projectant from the side of the shank opposite said loop in the transverse plane.

2,315,296

HIGH FREQUENCY AMPLIFIER CIRCUITS

Maximiliaan Julius Otto Strutt and Aldert van der Ziel, Eindhoven, Netherlands, assignors to Radio Corporation of America, a corporation of Delaware

Application May 3, 1940, Serial No. 333,088
In the Netherlands July 25, 1939
2 Claims. (Cl. 179—171)



1. A circuit for the amplification of high frequencies, comprising an electron discharge tube provided with at least a cathode having two external terminals, a signal input grid and an anode, the cathode having a lead connected to each of its external terminals, input and output circuits connected respectively to the input grid and to the anode, the grid return of the input circuit being connected to one of the cathode leads, the plate return of the output circuit being connected to the other cathode lead, a condenser connected from the signal input grid to a point having the same radio frequency potential as said plate return, and an inductance included in the cathode lead to which the plate return is connected, the condenser and inductance being chosen of such value that damping between the terminals of the input circuit is substantially zero.

2,315,297

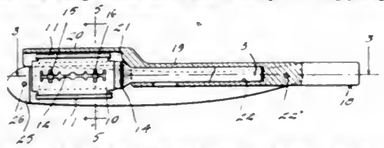
HAIR SHAPER

Adolph W. Tischler, Chicago, Ill.

Application April 23, 1942, Serial No. 440,225
5 Claims. (Cl. 30—53)

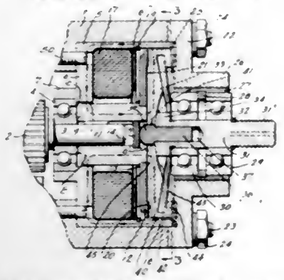
1. An article of the class described comprising a bar having a longitudinally extending socket, said bar being open beyond one end of the socket

and having a portion provided with a groove disaligned with the socket, in combination with a mounting element for a blade, said mounting element having means removably occupying the



socket and including leaves between which the blade is positioned, said leaves extending into said groove so as to be held operatively about a blade by the walls of said portion at opposite sides of the groove.

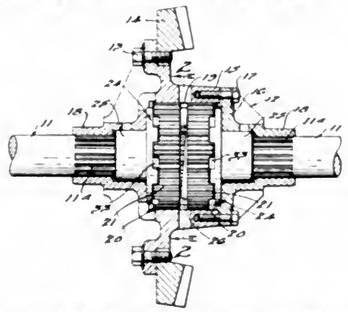
2,315,298
ELECTROMAGNETIC CLUTCH
Clifford F. Thompson, Glen Rock, N. J., assignor to Air Associates Incorporated, Bendix, N. J., a corporation of New York
Application April 29, 1942, Serial No. 440,938
6 Claims. (Cl. 192—9)



1. An electromagnetic clutch comprising a cylindrical housing member of magnetic material including an interior flange, a rotatable sleeve of magnetic material forming a slight air gap with said flange and having a free end face, a first non-magnetic disk secured to said sleeve and having a friction zone close to its periphery and slightly projecting from the plane of the end face of said sleeve, a solenoid stationary between said housing member, said flange, said sleeve and said first disk, a shaft in substantially axial alignment with said sleeve and including a non-magnetic end close to said free end face of said sleeve, a second disk of magnetic material opposite said first disk and axially movable in relation to said shaft to engage said friction zone of said first disk when said solenoid is energized, resilient means in connection with said shaft to retract said second disk from engaging position when said solenoid is de-energized, and a swivel connection for common rotation of said second disk and said shaft.

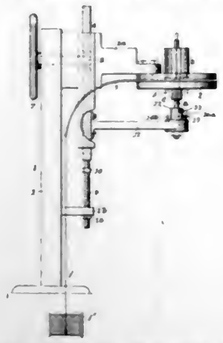
2,315,299
AXLE COMPENSATOR
Ray F. Thornton, Dearborn, Mich., assignor to C. F. Gobright, Inc., Detroit, Mich., a corporation of Michigan
Application August 22, 1941, Serial No. 407,921
7 Claims. (Cl. 74—389.5)

1. In an axle compensator for a vehicle having two opposed axle shafts, a final drive gear and a housing secured thereto, two driving clutch members longitudinally slidable within said housing and drivingly connected directly thereto, two driven clutch members drivingly mounted on the ends of said two axle shafts respectively and fixed in the outward direction, and a spring operatively mounted between said driving clutch members, said spring adapted to push the driving clutch members outwardly into driving engagement with said driven clutch members, a plurality of cam teeth on the clutch driven members, two clutch disengaging members splined on a central member for maintaining said members in a predetermined position while permitting relative sliding movement of said members thereon, a stop on said central member located between the adjacent ends of said clutch disengaging members to limit sliding movements thereof, each of said



clutch disengaging members bearing against one of said driving clutch members, and having a plurality of cam teeth adapted to mesh with the cam teeth of the driven clutch members, each of said clutch disengaging members being adapted to be pushed inwardly of the compensator by the interaction of said meshing cam teeth to the extent permitted by the stop on said central member when the respective clutch driven member tends to drive through said cam teeth, whereby only the corresponding driving clutch member is pushed away from such tending-to-drive clutch driven member at one time, thereby preventing simultaneous disengagement of said clutches.

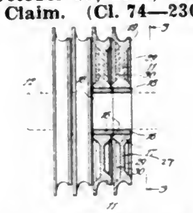
2,315,300
ARMATURE WINDING
Henry Vaillant, Paterson, N. J.
Application April 15, 1942, Serial No. 439,147
11 Claims. (Cl. 242—13)



1. In a machine for winding an armature core of the class described, the combination of structure providing a passage therethrough to receive the core and having wire guides extending substantially radially to and equally spaced around the passage, structure having means to which to anchor the core against displacement axially thereof, and a frame supporting both structures and relatively to which one

of the parts formed by the first named structure and the core is free to rotate around the axis of the core, one structure being movable in the frame back and forth relatively to the other lengthwise of said axis.

2,315,301
SHEAVE OR PULLEY, PARTICULARLY ADAPTED FOR LOOMS
Christopher Van Deventer, III, and John Deans, Knoxville, Tenn., assignors to National Plastics, Inc., Knoxville, Tenn., a corporation of Tennessee
Application October 25, 1940, Serial No. 362,770
1 Claim. (Cl. 74—230.1)



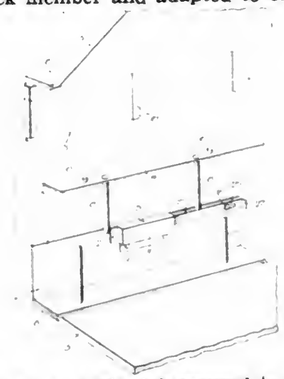
A loom sheave assembly comprising a multiplicity of spaced sheaves, a shaft on which said sheaves are mounted to turn independently of each other, said sheaves having hubs spaced from each other, and oil carrying bearing sleeves fixed in said hubs and projecting beyond them, said sleeves having end bearing portions abutting each other whereby the sleeves hold the sheaves in spaced parallel relation and prevent contact of one sheave with another.

2,315,302
PROCESS OF MANUFACTURING SHAPED BODIES FROM IRON POWDERS
Renzo U. Volterra, Yonkers, N. Y., assignor to American Electro Metal Corporation, Yonkers, N. Y., a corporation of Maryland
No Drawing. Application November 8, 1940, Serial No. 364,797
10 Claims. (Cl. 75—22)

1. A method of producing from powdery material by compacting under pressure and sintering shaped bodies of iron containing combined carbon, preferably of the character of steel, comprising the steps of intimately admixing normally not briquettable iron powder containing combined carbon with about 5% to 70% powdery iron oxide and a binder, compacting the mixture under normal pressure into a coherent body of desired shape, and heat treating the shaped body below its melting temperature under controlled conditions effecting reduction of the iron oxide contained in and thereafter final sintering of the body, said conditions including controlled application of temperatures between about 1150° to 1390° C. close to but below the prevailing lowest melting temperature of any iron component contained in said body during final sintering until a dense and strong body of predetermined average carbon content is obtained and predetermined diffusion of part of combined carbon contained in said iron powder into iron recovered from said iron oxide is effected.

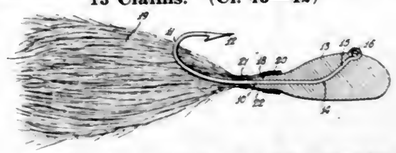
2,315,303
LOOSE-LEAF BINDER
Paul O. Unger, Elmhurst, Ill., assignor to Wilson-Jones Company, Chicago, Ill., a corporation of Massachusetts
Application May 2, 1941, Serial No. 391,500
6 Claims. (Cl. 129—13)

1. In a loose-leaf binder, a pair of angle back members, a locking post mounted on one of said back members, a locking plate mounted on said other back member and adapted to engage said



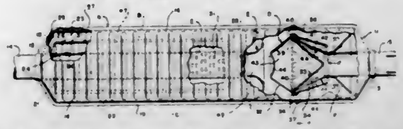
locking post, a toggle link secured to one end of said locking plate, and a handle mounted on said second mentioned back member engaging said toggle link to actuate said locking plate.

2,315,304
FISH LURE
William K. Upperman, Atlantic City, N. J.
Application November 5, 1941, Serial No. 417,946
13 Claims. (Cl. 43—42)



1. A fish lure comprising a hook, a weight body secured on the shank of the hook comprising a forward body portion surrounding the shank at the eye and a rearwardly tapering neck portion integral with the body portion and extending along and around the shank from the body portion in the direction of the bill of the hook, and a bucktail secured on the neck portion, the forward portion of the bucktail completely surrounding and covering the neck portion and the shank of the hook protruding rearwardly therefrom and firmly secured thereon by wrappings at least at the base and tip of the neck portion.

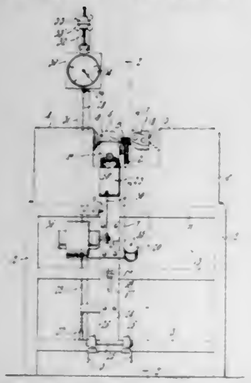
2,315,305
MUFFLER
Harold E. Van Voorhees, Detroit, Mich.
Application May 7, 1941, Serial No. 392,374
10 Claims. (Cl. 181—56)



1. A muffler having an elongated shell, a tube for exhaust gases extending through an end of said shell, and a sound trap carried by the inner end of the tube within said shell, said trap including a forwardly projecting frustum of a cone having a concavo-convex head and having an annular attaching flange, a rearwardly projecting cone having radially projecting attaching lugs disposed in surface-to-surface engagement

with and secured to the flange of the frustum, and inner and outer rearwardly projecting frustums of cones encircling the rearwardly projecting cone, the inner frustum having radially extending attaching lugs registering with and secured to the lugs of the rearwardly projecting cone, the outer frustum having an annular attaching flange disposed in surface-to-surface engagement with and secured to the lugs of the inner frustum, and the length of the registering lugs being greater than the depth of the annular flange of the rearwardly projecting outer frustum so that openings for exhaust gases are provided between the rearwardly projecting cone and the outer frustum.

2,315,306
THREAD TENSIONING MECHANISM
Kurt E. Wilhelm, Providence, R. I., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application June 27, 1941, Serial No. 399,990
15 Claims. (Cl. 242—3)



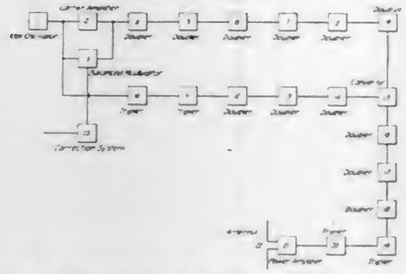
1. A golf ball winding machine comprising core-rotating means, adjustable mechanism for tensioning the thread as it is wound on the core and positioned so that the thread passes in a direct straight line from said mechanism to the core, a movable support for supporting said mechanism for movement by the thread in response to variations in the tension at which it is wound on the core and arranged so that such movement is not affected by the tension of the thread as it arrives at such mechanism, means for yieldingly opposing the movement of said support, and means controlled by the support movement for automatically varying the retarding action of said tensioning mechanism to hold the winding tension at a predetermined value.

2,315,307
FISHHOOK
Thomas K. Wilson, Portland, Oreg.
Application April 24, 1941, Serial No. 390,196
3 Claims. (Cl. 43—27)



1. A fish hook having a shank terminating in an arcuately curved portion, the end of which curved portion being disposed in slight spaced relation with the shank, and substantially tubular abrasion resisting sheath receiving the inner periphery of the arcuately curved portion of the shank, said sheath being inherently yieldable and extending the full length of the curved portion and terminating at the mentioned end thereof in spaced relation with the shank whereby a ring may be inserted into the curved portion of the sheath and the spaced ends of the curved portion of the hook and sheath pressed in the direction of the shank to securely hold the member therein.

2,315,308
METHOD AND MEANS FOR TRANSMITTING FREQUENCY MODULATED SIGNALS
Edwin H. Armstrong, New York, N. Y.
Application August 2, 1940, Serial No. 349,870
4 Claims. (Cl. 250—17)

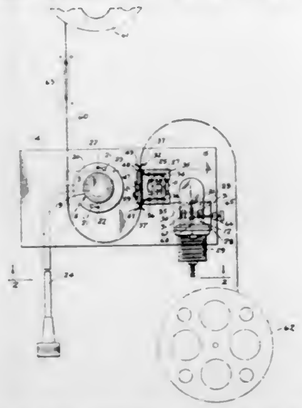


1. A transmitter for wide swing frequency modulated waves, comprising an initial oscillator, said oscillator being inherently subject to minute variations of frequency due to variations in the electron stream thereof and like effects, a frequency converting device, a first path connecting said initial oscillator to the said converting device, said path including an electron device for shifting the phase of the current from said oscillator by an amount which is directly proportional to the amplitude of the modulating current and inversely proportional to frequency of said current, said device being free from inherent disturbances of greater magnitude than that of the said disturbances inherent in said oscillator, said path also including means for multiplying the frequency of the modulated currents, a second path connecting said converting device to said initial oscillator and including means for multiplying the frequency of the currents generated by said initial oscillator, means connected to the output of the frequency converting device for multiplying the frequency of the beat currents formed therein, the total multiplication effected by the several multiplying means being of the order of several thousand fold, and means for radiating the modulated currents of the multiplied frequency.

2,315,309
SOUND ATTACHMENT DEVICE FOR MOTION PICTURE MACHINES
Ephim Bortnick, New York, N. Y.
Application July 9, 1941, Serial No. 401,587
4 Claims. (Cl. 179—100.3)

1. In a device of the class described having an exciter lamp and lens and photocell, a film guide plate having an aperture for the passage of light from said exciter lamp and lens to said photocell, a film guide plate complementary to and engaging against said film guide plate and having an aperture aligned with said aperture, a member mounted on the first named of said film guide

plates and spaced from and extending across the back of the second named of said film guide plates, headed elements mounted on said second named film guide plate and passing through



openings in said member for slidably supporting said second named film guide plate, and resilient means acting between said member and said second named film guide plate for resiliently urging said film guide plates together.

2,315,310
DIPPING FORM
Raymond E. Bitter, Cambridge, and Duncan W. MacLeod, Brighton, Mass., assignors, by mesne assignments, to General Latex and Chemical Corporation, Cambridge, Mass., a corporation of Massachusetts
Application April 26, 1940, Serial No. 331,818
7 Claims. (Cl. 18—41)



1. A dipping form of impervious material coated with a latex agglomerating composition containing the interaction product of zinc chloride and monoethanolamine.

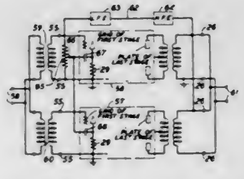
2,315,311
FUSE LINK
Chester W. Brown, Milwaukee, Wis., assignor to Line Material Company, Milwaukee, Wis., a corporation of Delaware
Application November 17, 1941, Serial No. 419,367
8 Claims. (Cl. 200—135)

1. A replaceable fuse-section designed to function as a component part of a fuse-link, said fuse-section being a self-contained unitary structure comprising a tube of insulating material, a fusible element within said tube, an ejector spring co-axial with said tube and continuously applying tension to said fusible element, and a pair of terminal members, one at each end of said tube, said terminal members being connected individually to the respective ends of said fusible element, each said terminal member being provided with means for effecting readily detachable connection with other fuse-link portions be-



tween which said fuse-section is intended to be interposed.

2,315,312
ELECTRON DISCHARGE DEVICE CIRCUITS
William J. Brown, Hackensack, N. J., assignor to Western Electric Company, Incorporated, a corporation of New York
Application January 21, 1939, Serial No. 252,113
23 Claims. (Cl. 179—171)



7. The combination with a plurality of amplifiers having their inputs and their outputs connected together, of a single feed-back circuit common to said amplifiers and means, arranged in the feed-back circuit for determining the frequency response characteristic of the amplifiers.

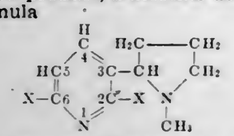
2,315,313
CAVITY RESONATOR
Herbert Buchholz, Berlin, Germany, assignor to General Electric Company, a corporation of New York
Application July 12, 1940, Serial No. 345,038
In Germany September 5, 1939
1 Claim. (Cl. 178—44)



An ultra short wave oscillatory circuit comprising a hollow cylindrical body having metallic end plates, a tubular conductor located along the axis of said cylindrical body and extending through said end plates, and a circular loop in the interior of said body and around said tubular conductor, the terminals of said loop being adjacent each other and entering the interior of said tubular conductor for coupling to external translation apparatus.

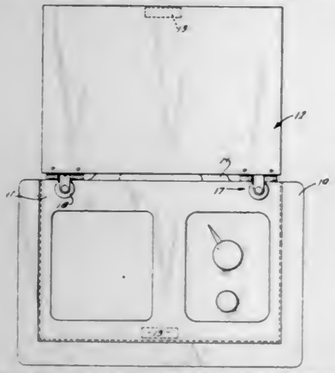
2,315,314
NICOTINE DERIVATIVE
Alfred Burger, Charlottesville, Va., assignor to Tobacco By-Products and Chemical Corporation, Louisville, Ky., a corporation of Delaware
No Drawing. Application June 10, 1941, Serial No. 397,467
9 Claims. (Cl. 260—291)

1. As a new product, a nicotine derivative having the formula



in which at least one X stands for a substituent of the general formula—ORY in which O is oxygen, R is a member of the group consisting of alkyl, aryl and aralkyl radicals and Y is a member of the group consisting of hydrogen and an amino group of the general formula—NZZ in which each Z stands for a member of the group consisting of hydrogen and alkyl, aryl and aralkyl radicals.

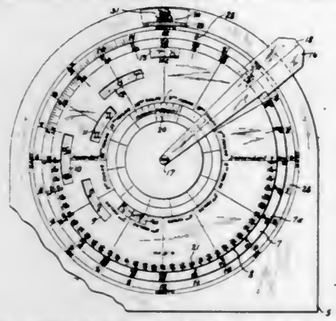
2,315,315
RADIO APPARATUS
William E. Cairnes, Chicago, Ill., assignor to Galvin Manufacturing Corporation, Chicago, Ill., a corporation of Illinois
Application May 2, 1941, Serial No. 391,535
11 Claims. (Cl. 250—14)



1. In radio receiving apparatus having a receiving circuit and a casing, the combination with an antenna structure comprising a panel for one side of said casing and an antenna carried by said panel, of means for detachably mounting said antenna structure in a plurality of operating positions on said casing including socket units on said one side of said casing, other socket units on a second side of said casing, pin means carried on said panel for selective insertion in said socket and other socket units, means electrically connecting said pin means with said antenna, and means electrically connecting said socket and other socket units with said receiving circuit to provide for the electrical connection of said antenna and receiving circuit when said antenna is in a mounted position on said casing.

2,315,316
ASTROLOGICAL CALCULATOR
Elton Eugene Cissna, Bayonne, N. J.
Application February 10, 1941, Serial No. 378,324
3 Claims. (Cl. 35—44)

1. An astrological calculator of the character described comprising a base board having a clock scale reading from 1 to 12 on each half of the circumference and indicia constituting a plurality of correctional scales, said correctional scales comprising three separate sets of indicia for making three distinct time "corrections" for east and west longitude and hour interval of birth, substantially as described; a pivot fastened to said base board; a main scale rotatably mounted on said pivot, said main scale being in the form of a circular disc and having a clock dial for



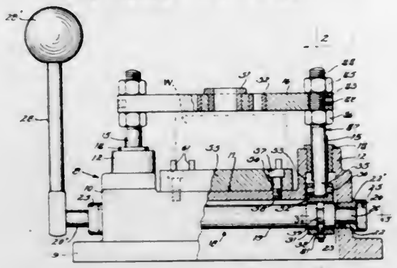
sidereal time along its outer periphery, and a plurality of scales for the various signs of the zodiac; a chart disc having a plurality of windows corresponding to said sign scales on the main scale, said chart disc being mounted on said pivot with said main scale between it and the base board; an indicator rotatably mounted on said pivot and frictionally coupled to said main scale whereby said scales and clocks may be used to carry out astrological calculations, and a calendar disc and a frictional washer interposed between said indicator and said chart disc.

2,315,317
CASING FOR CHAIN BELT AND LIKE TRANSMISSIONS
Philip Copp, Didsbury, Manchester, and Harold Whiteley, Cleckheaton, England, assignors to The Renold and Coventry Chain Company Limited, Didsbury, Manchester, England
Application August 1, 1940, Serial No. 349,134
In Great Britain August 17, 1939
3 Claims. (Cl. 74—219)



1. A casing for a chain drive transmission including a chain and two transmission wheels or gears formed with an inlet aperture situated close to the chain at a part of the casing in the immediate neighborhood of the point at which the chain leaves one of the wheels of the transmission and having an exhaust aperture spaced away from the inlet aperture in the direction of motion of the chain, in combination with baffles within the casing associated with said exhaust aperture for preventing the escape of lubricant entrained by the air circulating freely through the casing as a consequence of the movement of the chain.

2,315,318
UNIVERSAL DRILL VISE
Louis H. Deubler, Jr., Chicago, Ill.
Application May 17, 1941, Serial No. 393,897
10 Claims. (Cl. 77—62)



2. In a universal drill vise, the combination of a base, an operating shaft carried by said base, an operating handle for operating said shaft, eccentric means carried by said shaft, a pair of eccentric follower collars engaging over said eccentric means, reciprocable leader pins guided in said base and pivotally connected with said follower collars, a drill bushing plate carried by said leader pins and adapted to be moved downwardly into clamping engagement with the work-piece, adjusting screw means carried by said drill bushing plate for adjusting the lateral position of said plate, and an adaptor on said base between said leader pins for positioning the work-piece beneath said drill bushing plate.

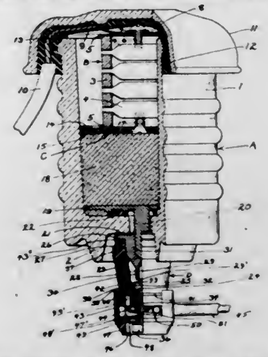
2,315,319
SINGLE USE TUBE AND MOUNT
Mark Kenyon Dresden, Media, Pa., assignor to A. H. Wirz Inc., Chester, Pa., a corporation of Pennsylvania
Application March 23, 1940, Serial No. 325,543
5 Claims. (Cl. 206—80)



1. The method of mounting an open ended collapsible metallic tube on backing, while sealing it by means of the mounting, and subsequently opening it, which consists in collapsing opposite walls of the tube into contact the full width of the tube, bringing the tube into a collapsed straight position, in constricting the walls so flattened along a sharp line transverse to the tube length extending completely across the tube along the tube surface while at the same time attaching the tube to the mounting and sealing the open end by the attaching means, and in cutting or tearing the body of the tube free from the mount and constricted closed end by pulling it transversely with respect to the constriction and to the tube surface.

2,315,320
AUTOMATIC CIRCUIT-INTERRUPTING DEVICE
Ralph H. Earle, Wauwatosa, Wis., assignor to Line Material Company, South Milwaukee, Wis., a corporation of Delaware
Application April 21, 1939, Serial No. 269,065
28 Claims. (Cl. 200—115)

1. The combination with a lightning arrester having a terminal portion, of an automatic circuit-interrupting device comprising an insulating housing, a pair of electrodes mounted on said housing, one of which electrodes is connected to said terminal portion, the other of said electrodes being disconnectible from said housing under predetermined conditions of current flow through said arrester, and means for disconnect-



ing the last-mentioned electrode, said means being responsive to said current flow under said predetermined conditions for releasing the last-mentioned electrode.

2,315,321
LEAK SEALING COMPOSITION
John Lloyd Evans, Rockford, Ill., and Walter A. Hall, Flint, Mich., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application April 19, 1941, Serial No. 389,420
3 Claims. (Cl. 106—33)

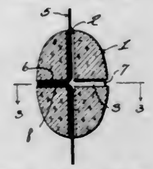
1. A stop-leak composition having a formula within the following range:

	Parts by weight
Water	500 to 1500
A mucilaginous binder	10 to 60
A resin	20 to 60
A fibre	5 to 60
Sodium silicate	5 to 30

A water soluble phosphate salt

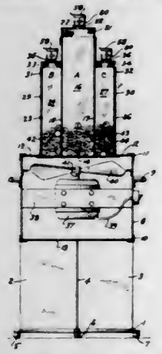
said composition having a pH between 5 and 10.

2,315,322
FISHING FLOAT
Margaret M. Fenley, Fulton, Mo.
Application November 4, 1941, Serial No. 417,849
1 Claim. (Cl. 43—49)



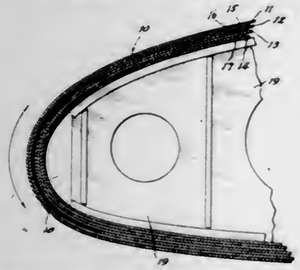
The combination of a body of buoyant material constituting a fishing float having an axial passage extending therethrough and a radial passage intersecting the axial passage, each of said passages being of the same diameter from end to end, the body having a wide circumferential groove into which an end of the radial passage opens, and a cord extending into the axial passage from one end to and through the intersecting radial passage to said groove, then passing around the body in the groove to and back through the radial passage to the axial passage, and then passing through the remainder of the axial passage to and out of the other end thereof.

2,315,323
SELECTIVE MACHINE
John Fostos, Burlingame, Calif.
Application October 8, 1941, Serial No. 414,149
2 Claims. (Cl. 273—144)



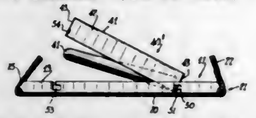
2. A selective machine having a vertical compartment with a bottom and cover and adapted to hold a plurality of buoyant balls; a cage arranged above an opening in said cover and having the capacity to retain one of said balls; trips pivoted adjacent said cage and having ends extending into the path of said ball and adapted to retain it within said cage; a pivotally mounted handle having a portion positioned to extend beneath and elevate said ball when said handle is rocked on its pivot; and means for creating a draft upwardly through said compartment.

2,315,324
MULTIPLE-PLY STRUCTURE AND METHOD OF MAKING THE SAME
Alfred A. Gassner, New York, N. Y., assignor to John F. Neary, Jr., Englewood, N. J., as trustee
Application January 21, 1941, Serial No. 375,199
3 Claims. (Cl. 244—123)



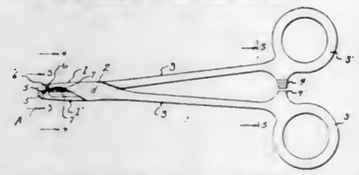
1. In a multiple-ply structure having a curved portion and having its plies composed of material having substantially parallel fibres imparting greater strength to each ply in the direction of said fibres than normal thereto, said plies being arranged alternately in said structure with their fibres extending at angles to each other, the combination of an auxiliary ply included within said structure and extending around said curved portion thereof and having its fibres extending substantially in the direction of said curvature, said auxiliary ply being in face to face engagement with a ply having its fibers extending substantially in the direction of curvature for increasing the strength of said structure to withstand loads applied thereto in a direction substantially normal to the direction of curvature of said curved portion.

2,315,325
COMBINATION CLAMP HOLDER FOR FLEXIBLE ELEMENTS AND CONTAINERS
Jacob Gavurin, Brooklyn, N. Y.
Application May 14, 1940, Serial No. 335,156
2 Claims. (Cl. 15—105)



1. An article of the character described comprising a base having a bottom wall, upwardly extending side walls and upwardly and inwardly inclined end walls, a flexible element having a portion contacting the underside of said bottom wall, and end portions folded over the end walls and against the inner surfaces of the end walls and bottom wall, a handle, and resilient members attached to the ends of the handle and having portions adapted to press the folded over portions of said flexible element against said inner surfaces of said end walls and bottom wall, the upper corners of said side walls being bent over against the outer surfaces of said end walls.

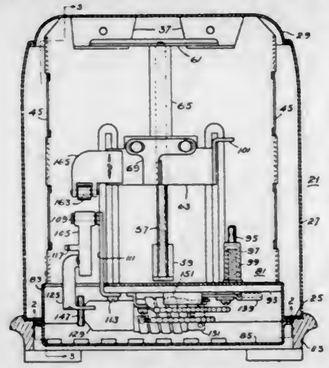
2,315,326
SURGICAL INSTRUMENT
James Gmeiner, Appleton, Wis.
Application August 25, 1941, Serial No. 408,173
1 Claim. (Cl. 128—340)



A surgical instrument comprising a pair of pivoted jaws having smooth cheek pieces and terminating in complementary needle receiving gripping teeth, a transversely disposed stop block having parallel side faces positioned rearwardly of the gripping teeth of one jaw for engaging the needle and holding it at a right angle to the gripping teeth, the opposite jaw being provided with a recess for receiving the stop block, a pair of longitudinally disposed thread cutting blades formed by the jaws, rearwardly of the stop block, one blade being merged into said stop block below its top surface, whereby a thread holding corner between the stop block surface and cutting blade is formed to hold the thread in said corner when a cutting operation is effected, the said blades being centrally disposed with relation to the cheeks of the jaws and spaced inwardly therefrom, whereby the jaw cheeks form a gage for severing a length of thread from the tie knot.

2,315,327
THERMAL TIMER FOR AUTOMATIC TOASTERS
John R. Gomersall, Elgin, Ill., assignor to McGraw Electric Company, Elgin, Ill., a corporation of Delaware
Application August 7, 1939, Serial No. 288,740
9 Claims. (Cl. 219—19)

1. In an automatic electric toaster comprising toast heating elements, a control switch for said toast heating elements normally yieldingly biased into open position and means to move said switch into closed position to initiate a toasting operation, the improvement in thermal timing and detent means comprising a bimetal bar, an auxiliary electric heater for said bimetal bar adapted to be energized by the closing of said control switch, a fixed and a movable contact member connected respectively to the terminals of said auxiliary heater and normally out of engagement with each other, a first and a second detent arm, a latch for holding said switch closed and moved into direct engagement with said first detent arm when said switch has been moved into closed position, energization of the auxiliary heater causing flexing of said bimetal bar in a given direction to cause movement of said first detent



arm in said given direction to disengage it from said latch and into engagement with said movable contact member to cause the latter to engage said fixed contact member and short circuit said auxiliary heater and to cause also engagement of said latch with said second detent arm, said latch being effective when engaged by said detent arm to hold said movable contact member in engagement with said fixed contact member, the bimetal arm then cooling and flexing in the other direction to engage said second detent arm and cause disengagement thereof from said latch and opening of the control switch.

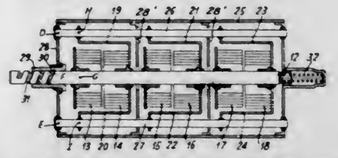
2,315,328
HIGH SILICA GLASS ARTICLE
Harrison P. Hood and Martin E. Nordberg, Corning, N. Y., assignors to Corning Glass Works, Corning, N. Y., a corporation of New York
No Drawing. Application November 4, 1938, Serial No. 238,896
7 Claims. (Cl. 49—92)

1. As a new article of manufacture a composite article comprising a uniform skeleton structure of glass having a multiplicity of interconnecting submicroscopic pores extending throughout the mass and communicating with the outer surfaces of the article, and a material other than glass deposited throughout the pores of at least a portion of the skeleton and imparting to that portion different physical characteristics than those possessed by the glass skeleton.

2,315,329
METHOD OF MAKING COMPOSITE GLASS ARTICLES
Harrison P. Hood and Martin E. Nordberg, Corning, N. Y., assignors to Corning Glass Works, Corning, N. Y., a corporation of New York
No Drawing. Original application November 4, 1938, Serial No. 238,896. Divided and this application April 25, 1940, Serial No. 331,676
7 Claims. (Cl. 49—79)
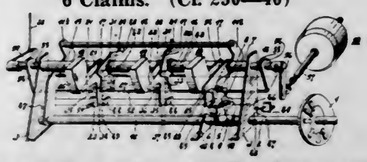
1. The method of making a composite glass article, which comprises melting a glass, fabricating the same into a fixed shape, separating such glass into two phases by heat treatment, dissolving out one of the phases in an acid bath while leaving the other phase undissolved in a rigid substantially transparent porous structure and treating the article with a solution of a colored material to deposit the material in the pores and filling the pores with a viscous liquid having a higher boiling point than water.

2,315,330
ADJUSTABLE SLIDABLE ELECTRODE CONDENSER
Alexandre Horowitz and Herre Rinia, Eindhoven, Netherlands, assignors, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware
Application September 30, 1939, Serial No. 297,298
In Germany October 17, 1938
4 Claims. (Cl. 175—41.5)



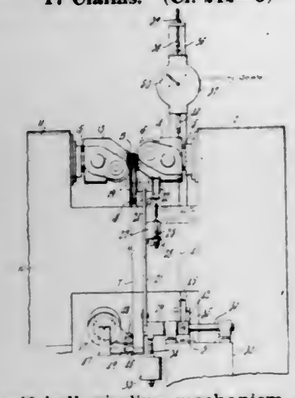
1. An adjustable slidable-electrode condenser, comprising a pair of cooperating electrodes, one fixed and the other movable, a support for each electrode and an intermediate member serving solely as a connecting member interposed between each of said electrodes and its support, the point where the intermediate member of one electrode is secured to the support being located, measured in the direction of adjustment, in closer proximity to the point of suspension of the other electrode than is the point where the intermediate member is secured to said one electrode and said electrodes having a predetermined length and the combined lengths of the intermediate members, measured in the direction of adjustment, being substantially equal to the combined lengths of the two electrodes.

2,315,331
PUSH-BUTTON MULTIRANGE RADIO TUNER
Alexandre Horowitz and Jan Timmerman, Eindhoven, Netherlands, assignors to Radio Corporation of America, New York, N. Y.
Application May 2, 1940, Serial No. 332,921
In the Netherlands May 3, 1939
6 Claims. (Cl. 250—40)



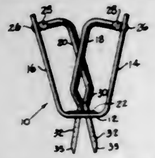
1. In a radio receiver, a tuning device, a rocker bar for adjusting the tuning device, a plurality of push-buttons, adjustable means carried by said push-buttons whereby selective operation of said push-buttons actuates the rocker bar to tune the receiver to a predetermined station, band-switching mechanism incorporated in said receiver, a second rocker bar for adjusting said mechanism, and second adjustable means carried by said push-buttons for actuating the latter rocker bar, whereby operation of any selected push-button effects simultaneously the tuning and band-switch adjustments.

2,315,332
THREAD TENSIONING MECHANISM
Everett W. Howe, Edgewood, and Kurt E. Wilhelm, Providence, R. I., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application June 7, 1941, Serial No. 397,020
17 Claims. (Cl. 242—3)



1. A golf ball winding mechanism comprising core-rotating means, thread tensioning mechanism supported in spaced relation to said means, a support therefor mounted for limited movement relative to the ball winding position and adapted to support said mechanism for movement in response to variations in the tension of the thread being wound on the core, a thread supply package mounted on said support so that it remains a fixed distance from said mechanism as the latter moves bodily, and spring means for balancing the pull of the thread on said support whereby the actual tension of the thread as it is wound on the ball may be weighed.

2,315,333
SKIN CLAMP
Harold Ives, Tulsa, Okla., and Paul W. Buerkle, West Los Angeles, Calif.
Application February 20, 1942, Serial No. 431,670
13 Claims. (Cl. 85—5)



1. In a skin clamp, a work-engaging member and a pair of clamping members carried thereby and having rocking contact with each other, said clamping members being mounted for movement therethru and thru the work to be clamped, the free ends of said clamping members being urged by said rocking contact to converge as they move axially outward thru said work-engaging member and to diverge as they return axially inward.

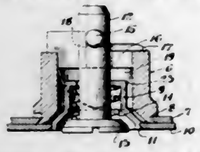
2,315,334
SHOE
Thomas O. Johnsen, Tacoma, Wash.
Application December 11, 1940, Serial No. 369,676
1 Claim. (Cl. 36—11)

Shoe of the conventional moccasin type including a convex member surrounding at least the toe portion of the shoe, a tongue piece and quarters, said convex member being joined to said quarters and tongue piece by a relatively stiff U-shaped seam, a relatively flexible bellows tongue extending beneath said tongue piece, stitched to the base of said tongue piece at said seam and stitched on each side to the quarters back of the adjacent edges of said quarters defining free marginal portions of said quarters and



extending down to said seam into the toe portion of said shoe, lines of lacing eyelets along said marginal portion extending into said toe portion, said tongue piece having a narrow finger extending upward centrally of the bellows tongue and secured thereto with its side edges spaced from the quarters, the intervening space being bridged by lateral portions of the bellows tongue, forming flexible gussets.

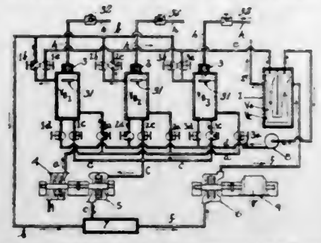
2,315,335
FASTENING DEVICE
David S. Kane, Roslyn, N. Y., assignor to J. Mills Summers, Englewood, N. J.
Application April 18, 1942, Serial No. 439,499
7 Claims. (Cl. 24—221)



1. A fastening device comprising a stud, a cross-pin associated therewith, a cam collar formed with a bottom opening and adapted to receive said stud and cross-pin therethrough when said device is assembled, and a shoulder guide portion carried by said cam collar for cooperation with the opposed ends of said cross-pin to effect rotation of said stud and alignment of said cross-pin with said cam collar bottom opening.

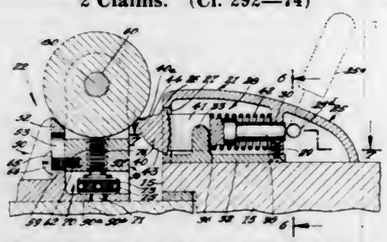
2,315,336
HEAT POWER PLANT
Werner Karrer and François Perrenoud, Zurich, Switzerland, assignors to Maschinenfabrik Oerlikon, Oerlikon, Switzerland, a corporation of Switzerland
Application April 26, 1939, Serial No. 270,082
In Switzerland April 30, 1938
22 Claims. (Cl. 60—44)

1. In a combustion product power plant, the combination of a container for a working substance, a heat exchanger having a closed heat receiving receptacle, means for scavenging said container of previously burned substance therein and refilling it with a fresh charge of said working substance in a precompressed state, means to circulate said compressed substance of said container through said receptacle for preheating it, means to arrest said circulation, a combustion device for said container for additionally heating



within the container said compressed substance, and means to discharge said combustibly heated contents of said container for expansion for a subsequent said scavenging and refilling of the container.

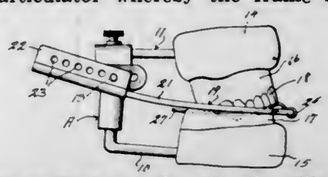
2,315,337
REFRIGERATOR DOOR FASTENER
David Katz, Brooklyn, N. Y.
Application May 14, 1940, Serial No. 335,024
2 Claims. (Cl. 292—74)



1. A latch adapted to be attached to a door, and comprising a housing member having an end wall adapted to be disposed adjacent the edge of the door, and a cavity open on the side of said member toward the door, and flanges adapted to contact the door provided with openings to receive fastening means for attaching said member to the door, said member being formed with a transverse partition within said cavity parallel to said end wall and spaced therefrom and formed with an opening aligned with the opening in said end wall, said partition having an end edge disposed within said cavity and spaced back from the surfaces of said member which are adapted to contact the door, and a flat plate fitted within said member to close the space between the partition and the end wall and contacting the edge of said partition, means to attach said plate to said partition, a bolt slidably mounted within said member and having a portion projecting through the opening in the end wall, and a shank slidably received within the opening in said partition, a spring interposed between said partition and an enlarged portion of the bolt, and disposed within the space between the partition and end wall, said bolt being formed with an opening, and said plate being formed with a projection extending into said opening.

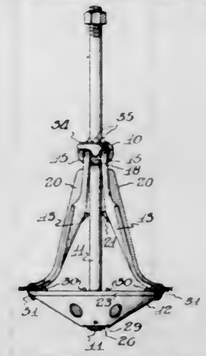
2,315,338
TEMPLET CARRIER FOR ARTICULATORS
Jesse C. King, La Junta, Colo.
Application October 10, 1942, Serial No. 461,619
5 Claims. (Cl. 32—32)

1. A device for facilitating the setting up of dentures upon an articulator comprising a templet, a carrier for the templet in the form of a substantially U-shaped frame having a transverse central portion and spaced side legs, means for pivotally attaching said legs to the two sides of an articulator whereby the frame may be



vertically oscillated on the axis of oscillation for the upper jaw model carrying arm of the articulator, and an operative coupling between the templet and the central portion of the frame by which the templet may be oscillated vertically and rotated upon a substantially vertical axis.

2,315,339
LAND ANCHOR
John O. Klein, Lufkin, Tex., assignor to Texas Foundries, Inc., Lufkin, Tex., a corporation of Texas
Application October 23, 1940, Serial No. 362,427
4 Claims. (Cl. 189—92)

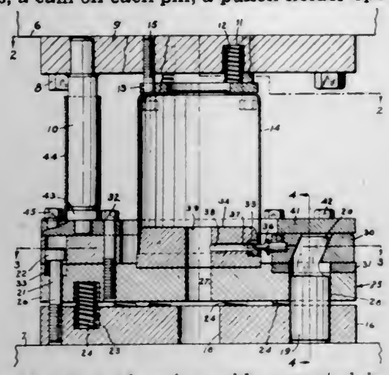


1. In an expansible land anchor including the combination of an anchor rod having a tamping block slidably mounted thereon, a plurality of anchor blades hingedly connected to the tamping block, and a blade spreader adapted to have sliding engagement with a portion of each anchor blade, means for connecting the tamping block with each anchor blade, said connecting means comprising spaced bearings rigid with said tamping block, each bearing consisting of a pair of opposed members, and a removable key positioned between said opposed bearing members, a trunnion formed on each of said anchor blades, and complemental faces formed on said opposed bearing members and said removable key adapted to provide a bearing surface for each trunnion respectively.

2,315,340
PUNCH
Alex W. Knudsen, Rocky River, Ohio, assignor to The Midland Steel Products Company, Cleveland, Ohio, a corporation of Ohio
Application August 23, 1941, Serial No. 408,075
8 Claims. (Cl. 164—90)

1. A punch press attachment for punching a horizontal hole in a vertical work piece wall comprising stationary vertical guide pins secured to

the bed of the press, a vertically movable punch carrier encircling said pins and being slidably mounted for limited vertical movement upon said pins, a cam on each pin, a punch holder operated



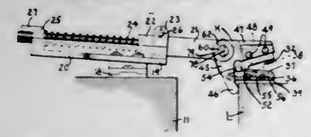
by said cam and reciprocably mounted in said carrier, and thrust posts depending from the ram of the press and adapted to engage said carrier to move the same downwardly as the punch holder is moved inwardly by said cam.

2,315,341

THREAD CUTTER FOR LOOMS

Clarence R. Kronoff and Albert Palmer, Worcester, Mass., assignors to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts

Application September 21, 1942, Serial No. 459,146
7 Claims. (Cl. 139—303)



1. In thread cutting mechanism for a loom having a frame and a lay with a shuttle from which a thread extends to the selvage, a carrier provided with a cutter blade mounted on the frame, a pivoted cutting element having a cutter blade thereon and an arm for engagement with the lay, pivot means on the carrier for the element and providing a loose fit therewith so that said element is capable of movement horizontally and vertically with respect to the pivot means, a spring supported by said pivot means and moving with and engaging the cutter blade on the element, and stop means on one blade engaging the other blade at a point out of alignment with a line joining the axis of the pivot means and a point at which the spring engages the cutter blade on said element, said spring and stop means causing the element normally to be disposed so that the blade thereof is oblique in a horizontal direction with respect to the blade on the carrier and inclined in a vertical direction with respect to the blade on the carrier, engagement of the lay with the arm causing the element to turn about the pivot means and the spring yielding to permit the second cutter to move laterally with respect to the blade on the carrier.

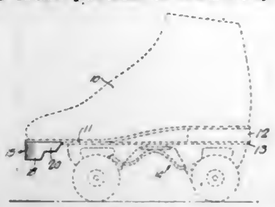
2,315,342

SKATE STOP

Arthur Lieberman, South Bend, Ind.

Application June 26, 1941, Serial No. 399,819
5 Claims. (Cl. 280—11.20)

2. A skate stop adapted to be secured to the toe portion of the sole of a shoe, comprising a body formed of rubber, said body being curved at its front and diverging rearwardly from said curve, the front portion of said body being of a



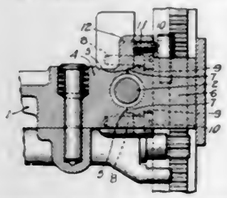
thickness substantially twice that of the rear portion and merging therewith at a vertically tapered intermediate portion, said body having a plurality of nail-receiving openings in each of its front and rear portions.

2,315,343

BACKLASH TAKE-UP

Douglas F. Linsley, Greenwich, Conn., assignor to Schick Incorporated, Stamford, Conn., a corporation of Delaware

Application March 25, 1942, Serial No. 436,126
8 Claims. (Cl. 74—441)



1. The combination with a screw, of a member having a channel formed in one face and, formed in the bottom of the channel, a half-round recess threaded to embrace one-half of the screw, a block having a sliding fit in said channel, and, formed in the face of the block opposed to the bottom of the channel, a half-round recess threaded to embrace the other half of the screw, said block dimensioned to project outside of the said channel, a second member channeled to a depth to receive the projecting portion of the block with clearance between opposed faces of said members at the sides of their respective channels, bolts securing said members together independently of said block, the latter being of a length (in the direction of the axis of the screw) to extend beyond the ends of one of said members, and locking screws in the said ends of such member with heads overlying the projecting ends of the block.

2,315,344

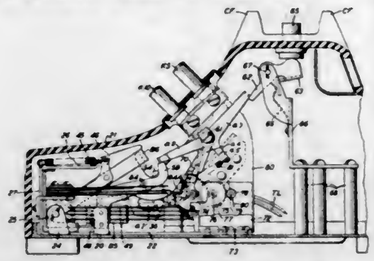
CALL TRANSMITTER

Rudolph F. Mallina, Hastings on Hudson, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application March 22, 1940, Serial No. 325,347
3 Claims. (Cl. 179—90)

3. A call transmitter device having a set of off-normal switch springs, a set of manually operable key members and a plurality of vibrative elements, operated in predetermined combinations by the movement of said key members, means manually operable for actuating one of the vibrative elements of one of said combinations and said switch springs in a predetermined order and

means operable by the operations of said manually operable means for causing a time delay in



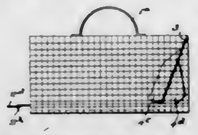
the operation of said elements and said switch springs.

2,315,345

BOX TRAP FOR CATCHING MANY ANIMALS AT ONE SETTING

Herman Mieth, Louisville, Ky.

Application December 5, 1939, Serial No. 307,687
1 Claim. (Cl. 43—66)



A box trap for catching one or more animals at one setting, having a front sheet metal wall provided with a door-frame, said wall being inclined downwardly and inwardly, a main door pivotally mounted at the top of said wall, said main door having upper and lower swingable parts, a second door in front of the first door and pivotally attached thereto, a rod secured to said second door, a latch slidably associated with the rod and with the lower part of the first door, an apertured metal plate for the latch secured to the door-frame, said lower part and said second door having aligned portions thereof formed of transparent material, inwardly extending baffles on the door-frame, perforated side top and rear walls and a bottom wall, whereby an animal attempting to enter the trap will engage the transparent portion of the second door thereby moving the rod and causing unlatching of the lower part of the first door and inward swinging movement of both doors to allow the animal to enter the trap.

2,315,346

METHOD OF IMPROVING GRAPHITE ELECTRODES

Joseph Arthur Musgrave Woodcock Mitchell, Runcorn, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application May 10, 1941, Serial No. 392,989. In Great Britain July 3, 1940
2 Claims. (Cl. 13—19)

1. In methods of making improved shaped graphite electrodes wherein shaped carbon electrodes are heated to an elevated temperature sufficient to effect graphitization in the presence of contained catalytic amounts of non-volatile metal oxides such as oxides of aluminum, iron, magnesium, titanium and vanadium and are subsequently cooled, the improvement which comprises subjecting the electrodes to a chlorine-containing atmosphere during the cooling stage while the electrodes are still at a relatively elevated temperature such that said metallic oxides are converted to chlorides and the chlorides are volatilized.

2,315,347

COATING COMPOSITION

Walter K. Moffett, South River, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 12, 1939, Serial No. 284,094
8 Claims. (Cl. 260—16)

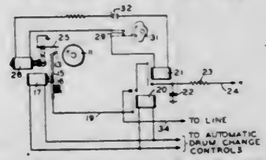
1. A coating composition which is highly resistant to oils and greases consisting of (A) a normally non-gelling coating composition containing cellulose nitrate and a non-gelling, non-hydroxy, non-drying vegetable oil modified alkyd resin characterized by an acid number of less than 10 and (B) in addition thereto an aliphatic dicarboxylic acid in the proportions of between 0.2 and 2.0% by weight of the total coating composition.

2,315,348

STYLUS CONDITIONING APPARATUS

Frederic L. O'Brien, Rutherford, N. J., assignor to The Western Union Telegraph Company, New York, N. Y., a corporation of New York

Application August 9, 1941, Serial No. 406,087
6 Claims. (Cl. 178—6.6)



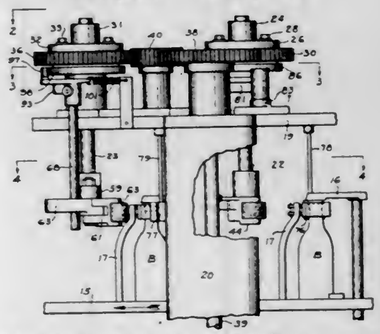
1. The combination in a telegraph apparatus of mechanism for marking a recording medium including a recording stylus adapted to apply electric current to said medium for producing a record thereon, means for holding said stylus in contact with said medium for relative movement across the surface thereof, and heating means for reshaping the bearing face of said stylus to compensate for the flattening effect of such movement on said face to provide a fresh bearing surface of relatively small area for contact with said medium.

2,315,349

LABEL WIPING MECHANISM

Charles H. Oslund, Worcester, Mass.

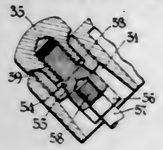
Application June 17, 1941, Serial No. 398,382
14 Claims. (Cl. 216—54)



1. A label wiping mechanism comprising means to move articles to be labeled along a defi-

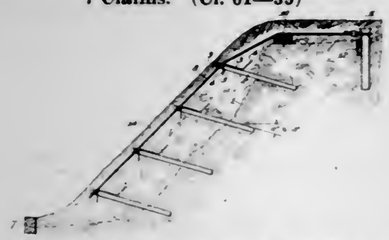
nite line of travel, two rotatable elements on opposite sides of the said line of travel, a member eccentrically pivoted to each element, a label wiping device carried by each member, and means to guide the movements of the said members as the said elements rotate.

2,315,350
WIPER ARM CONNECTION
Anton Rappl, Buffalo, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.
Application August 15, 1940, Serial No. 352,761
8 Claims. (Cl. 287—52.02)



1. In a windshield cleaner, a shaft having a tapered portion with a serrated surface and a screw threaded portion adjacent thereto, a wiper arm part of die-cast metal having secured therein a rigid member seating in engagement upon said tapered portion of the shaft, and a fastener threaded to said screw threaded portion of the shaft and engaging directly upon said rigid member for subjecting the same to compression in clamping the latter upon said tapered portion of the shaft without subjecting said arm part to compression.

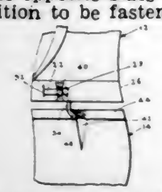
2,315,351
EMBANKMENT RETAINER
Frederic Schaefer, Pittsburgh, Pa.
Application July 2, 1941, Serial No. 400,767
7 Claims. (Cl. 61—35)



1. An embankment-retaining structure comprising a plurality of horizontally and vertically spaced stakes driven laterally into the side of an embankment, cables extending down the embankment and rigidly connected to the outer ends of the stakes, means anchoring the upper ends of the cables, and metal plates resting substantially flat on and supported by the upper sides of said stakes.

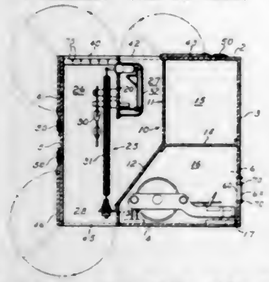
2,315,352
GARMENT OF THE PAJAMAS TYPE
Bernard M. Schuyler, Dorchester, Mass.
Application September 13, 1941, Serial No. 410,673
6 Claims. (Cl. 2—70)

1. A garment comprising a coat or waist and a nether garment in separable relation, said waist having separable overlapping front portions each provided with a strap-like extension, the outer front portion having an opening therein adjacent one side of the waist through which the strap-like extension of the other front portion projects from the inside of the waist to the outside thereof, said strap-like extension of said outer front portion being positioned adjacent the other side of the waist, and said nether garment having fastening members at the opposite sides and near the top thereof in position to be fastened to said strap-



like extensions, respectively, of said overlapping front portions of the waist for detachably securing said nether garment to said waist for supporting said nether garment from said waist.

2,315,353
RADIOSONDE BOX
Benson Russell Shaw, Washington, D. C., assignor to Washington Institute of Technology, Inc., Washington, D. C., a corporation of Delaware
Application July 18, 1941, Serial No. 403,042
7 Claims. (Cl. 73—151)

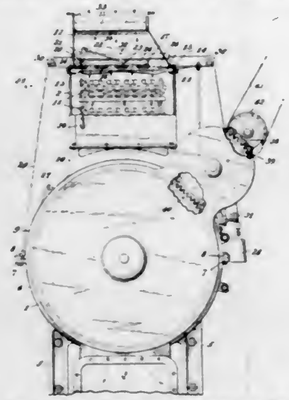


1. A box having end walls, side walls, a top and a bottom, means within the box for supporting at least one device which is responsive to changes in atmospheric conditions and for directing air flowing through the box across said supported device, comprising a partition at least part of which is inclined to an end wall of the box and which extends from the top wall to the bottom wall of the box and provides means at its bottom wall end for supporting one end of a device responsive to changes in atmospheric conditions, a second partition extending from the top wall of the box toward the bottom wall thereof and lying substantially in the plane of the bottom wall end of the first partition and terminating short of the bottom wall end of the first partition whereby a passage is provided between the free end of the second partition and the bottom wall end of the first partition, said second partition providing supporting means for one end of a device responsive to changes in atmospheric conditions, whereby at least a part of such supported device overlies the passage between the two partitions, the top and bottom of the box each having at least one opening therein through which the passage between the two partitions communicates with the atmosphere.

2,315,354
LAUNDRY DRIER
Jerome D. Shanman, Cincinnati, Ohio
Application April 11, 1940, Serial No. 329,067
1 Claim. (Cl. 34—82)

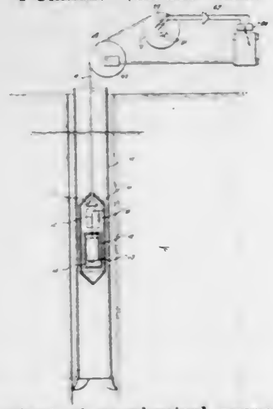
A filter attachment for down-draft driers having an air intake at the top thereof, comprising a chamber for attachment above the air

intake, a filter element, means for supporting the filter element in the upper part of the chamber, and a tube extending across the chamber to provide a passage therethrough which is sealed



off from the chamber to accommodate part of the drier mechanism while preserving a fully enclosed air space between the filter element and the air intake for the drier.

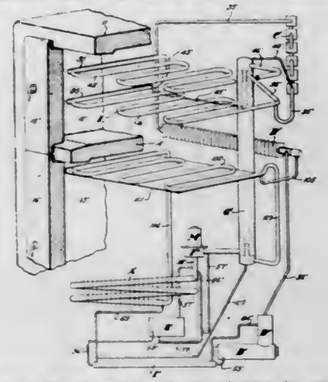
2,315,355
WELL SURVEYING METHOD AND APPARATUS
Serge Alexander Scherbatskoy, Tulsa, Okla., assignor to Well Surveys, Incorporated, Tulsa, Okla., a corporation of Delaware
Application April 30, 1940, Serial No. 332,565
4 Claims. (Cl. 250—83.6)



1. A method of geophysical prospecting that comprises lowering a detector of radioactivity into a drill hole through the stem of the drill being used to drill the hole, and simultaneously continuously recording the radioactivity of formations surrounding the drill stem as an indication of their nature.

2,315,356
REFRIGERATION
Arnold D. Siedle, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio
Application April 6, 1940, Serial No. 328,196
27 Claims. (Cl. 62—119.5)

2. That improvement in the art of absorption refrigeration which includes the steps of applying heat to a solution of a refrigerant in an absorbent to expel vapors therefrom, rectifying such vapors by the extraction of heat therefrom in an amount sufficient to liquefy substantially all vapor of the absorbent and to liquefy a portion of the vapor of the refrigerant, liquefying the residue vapor to produce refrigerant liquid which is substantially free of absorbent contacting the



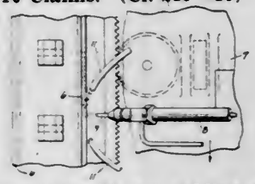
refrigerant liquid with an inert gas to produce a refrigerating effect at a first temperature level, and contacting an inert gas with the liquid produced by rectification to produce refrigeration at a second temperature level.

2,315,357
BALL-BEARING ANNULUS AND METHOD OF MAKING IT
William E. Smith, Detroit, Mich., assignor to The Midland Steel Products Company, Cleveland, Ohio, a corporation of Ohio
Application January 31, 1940, Serial No. 316,634
8 Claims. (Cl. 29—148.4)



1. The method of making a ball bearing wheel consisting of assembling a wheel plate with a bearing to form a ball race, positioning a plurality of ball bearings in said race, assembling a second wheel plate with the first plate and bearing to complete the race, placing electric insulating material between said balls and said race to prevent arcing and resistance welding the two wheel plates together to retain said parts in relative position.

2,315,358
ELECTRIC METALLIC ARC WELDING
William E. Smith, Detroit, Mich., assignor to The Midland Steel Products Company, Cleveland, Ohio, a corporation of Ohio
Application October 19, 1940, Serial No. 361,919
10 Claims. (Cl. 219—10)



1. The step in metallic arc welding with a fusi-

ble electrode consisting of directing a stream of oxidizing atmosphere across the arc stream and downwardly and forwardly toward the seam in the direction in which the welding of the seam proceeds.

2,315,359
NUT FASTENING DEVICE
George A. Tinnerman, Cleveland, Ohio, assignor, by mesne assignments, to Tinnerman Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application September 1, 1939, Serial No. 293,108
9 Claims. (Cl. 85—32)



5. A fastening device comprising a sheet metal body provided with securing means for threadedly engaging a threaded fastener and means for attaching the fastening device on a supporting structure preparatory to the application of the threaded fastener thereto, said attaching means comprising a substantial spring arm adapted for substantial snap fastening engagement in an assembling opening in said supporting structure, said body of the fastening device provided with securing means being adapted to pass through said assembling opening and cooperate with said spring arm to retain the fastening device in applied position on the supporting structure in position for threadedly engaging a threaded fastener applied thereto for securing a cooperating part to said supporting structure.

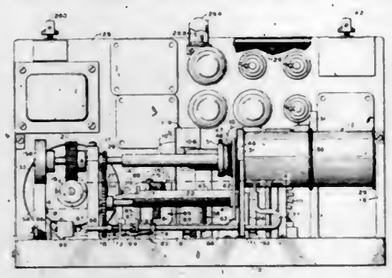
2,315,360
STEP SHIMMING STRIP
Raymond R. Ward, Cleveland, Ohio, assignor, by direct and mesne assignments, of one-half to Albert B. Gardella, Cleveland, Ohio
Application October 23, 1940, Serial No. 362,336
6 Claims. (Cl. 311—107)



3. In combination with a base having on a marginal portion thereof an element of uniform thickness which terminates in an abrupt shoulder overlying said base and a covering for said base and the element thereon, a shim member comprising a plurality of layers of sheet material secured together with each layer of less width than the layer next below it so as to provide a shim member of step form, said layers having one set of aligned edges in contact with the shoulder of said element and the combined thickness of all layers corresponding to the thickness of said element, the thickness of the shim strip being progressively stepped down from that of said element to the thickness of a single layer, whereby the covering is gradually raised from the base to a height sufficient to overlie said element.

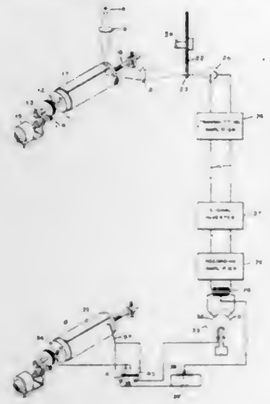
2,315,361
SYSTEM AND APPARATUS FOR FACSIMILE TELEGRAPHY
Raleigh J. Wise, Dunellen, Louis G. Stewart, Rutherford, and Robert D. Parrott, West New York, N. J., assignors to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application September 2, 1939, Serial No. 293,188
30 Claims. (Cl. 178—6.6)

1. Facsimile scanning mechanism comprising a rotatable cylinder to support a member to be scanned, means to slidably support said cylinder and impart rotation thereto, a lead screw, a



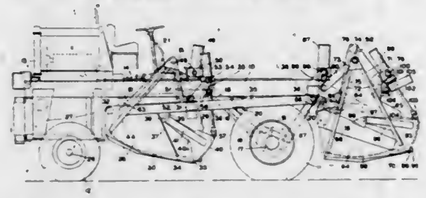
member rotatably supported by said cylinder and extending therefrom, and means to bring said cylinder supported member into operative engagement with said lead screw.

2,315,362
FACSIMILE RECORDING APPARATUS
Raleigh J. Wise, Dunellen, and Garvice H. Ridings, Summit, N. J., assignors to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application November 13, 1940, Serial No. 365,448
12 Claims. (Cl. 178—6.6)



1. A facsimile telegraph system comprising, means for generating alternating current facsimile signals modulated in amplitude in accordance with the tonal densities of elemental areas of a picture, a communication channel over which said generated signals are transmitted, facsimile recording apparatus connected to said channel comprising, means for converting said alternating current signals into unidirectional undulations corresponding to said modulations, a recording medium capable of color changes by the application thereto of electrical potentials, said recording medium having a non-linear response characteristic due to its impedance varying with variations of the applied electrical potentials, a current controlling element having a non-linear current controlling characteristic due to its impedance varying oppositely to that of said recording medium with variations of applied electrical potentials, and means including said current controlling element for impressing upon said medium said unidirectional undulations modified sufficiently to neutralize the non-linear response characteristic of said medium.

2,315,363
PLURAL SCOOP SCRAPER
Raymond Q. Armington, Shaker Heights, and Stewart F. Armington, Willoughby, Ohio, assignors to The Euclid Road Machinery Company, Euclid, Ohio, a corporation of Ohio
Application May 3, 1940, Serial No. 333,154
4 Claims. (Cl. 37—127)

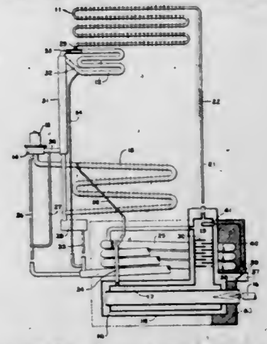


1. A scraper comprising a frame, front wheel means, rear wheel means, power means on said frame for driving said front wheel means, means for steering said rear wheel means including a manually operated steering member, a scoop carried by said frame between said wheel means, a scoop carried by said frame forwardly of said front wheel means, both of said scoops having cutting edges facing forwardly, means for raising and lowering and for discharging material from each of said scoops, and said steering member being located to the rear of the cutting edge of said first named scoop, whereby the operator of the steering member can easily watch the loading of both scoops.

4. A scraper comprising a frame, wheel means therefor, a scoop facing in a fore and aft direction, and a support for said scoop comprising upper and lower links of approximately the same length pivotally connected between said scoop and frame, the upper of said links having its forward end connected with said scoop and its rearward end connected with said frame, the lower of said links having its forward end connected with said frame and its rearward end connected with said scoop, the rearward ends of said links being substantially in vertical alinement, means for moving said scoop in an up and down direction thereby causing oscillation of said links, the parts being so arranged that during said oscillation said lower link moves from a position slightly above the horizontal to a position slightly therebelow, and said upper link moving from a position steeply inclined to the horizontal in raised position of the scoop to a position near the horizontal in lowered position of the scoop.
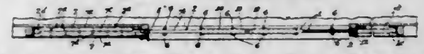
2,315,364
REFRIGERATION
Curtis C. Coons, North Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application August 20, 1938, Serial No. 225,873
21 Claims. (Cl. 62—119.5)

21. An absorption refrigerating apparatus comprising, a boiler normally filled with a solution of refrigerant in an absorbent, a jacket spaced from and surrounding said boiler, said boiler having an internal flue extending therethrough and communicating with said jacket at one end, and means for heating said boiler by means of a combustible fuel burning in said flue, whereby the products of combustion are led



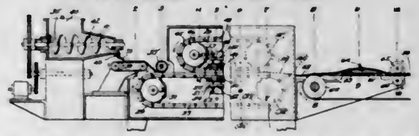
through said flue in one direction and reversely over the exterior of said boiler.

2,315,365
AUXILIARY DOOR CONSTRUCTION
George C. Christy, Chicago, Ill.
Application July 31, 1939, Serial No. 287,543
6 Claims. (Cl. 20—22)



1. An inner auxiliary door for railway cars having the car outer wall formed of two substantially parallel wall members separated by a space with a door opening extending through both of said wall members comprising two door sections separate from the regular car door and in the same vertical plane as the space between said wall members of the car outer wall and extending part way up the door opening and having meeting edges adapted to be brought together to close the lower part of the door opening, and door receiving receptacles in and formed by the walls of the car opposite the door opening, into which said door sections are received, so as to be out of the way and enclosed by said walls when not in use.

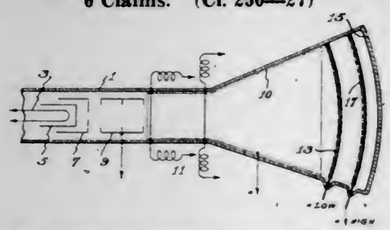
2,315,366
CONVERTING BULK COMPOUND INTO VULCANIZED SPONGE RUBBER
Frederick M. Daley, Shelton, and Ludolf H. De Wyk, Ansonia, Conn., assignors to The Sponge Rubber Products Company, Shelton, Conn., a corporation of Connecticut
Original application May 18, 1936, Serial No. 80,314. Divided and this application May 8, 1940, Serial No. 333,974
4 Claims. (Cl. 18—5.3)



1. In a process for converting side-by-side simultaneously extruded separate charges of sponge rubber compound into articles of vulcanized sponge rubber involving the reception of said charges into traveling vulcanizing chambers larger than said charges and formed in part by the bottom traveling wall of a traveling mold, the steps which include, progressively and simultaneously extruding from a bulk supply of sponge rubber compound continuous unbroken lengths of

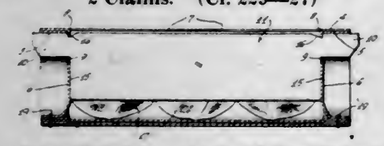
separate charges of said compound, progressively playing out said continuous extruded lengths of said charges simultaneously side-by-side through space onto a traveling conveyor surface, supporting said charges in exposed and accessible manner on said surface throughout a time consuming extent of travel thereof in a sufficiently level path to enable said charges to retain their random self assumed positions on said traveling surface, then selectively rearranging such of said charges on said traveling surface as may be necessary to bring them into corrected positions and relationship, and then progressively playing off said rearranged charges from said traveling surface onto said traveling bottom mold wall in corrected positions and proper alignment to register with and be imprisoned respectively in said traveling vulcanizing chambers.

2,315,367
CATHODE-RAY TUBE
David W. Epstein, Merchantville, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application July 31, 1940, Serial No. 348,899
6 Claims. (Cl. 250—27)



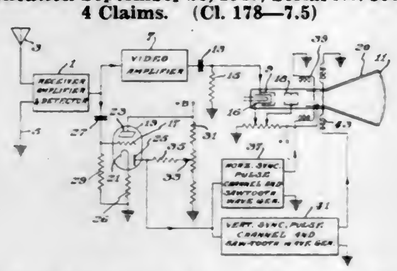
1. A cathode ray tube having an electron gun, a luminescent screen, electron beam deflecting means, and a plurality of electrodes mounted adjacent said screen and each provided with a plurality of openings so aligned that the openings of one electrode are substantially in line with the openings of adjacent electrodes.

2,315,368
PACKAGE
Walter H. Fairchild, Baltimore, Md., assignor to The Baltimore Paper Box Company, Baltimore, Md., a corporation of Maryland
Application July 12, 1939, Serial No. 284,081
2 Claims. (Cl. 229—27)



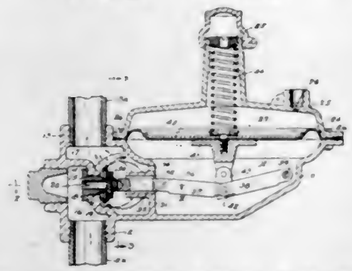
1. A ventilated receptacle of the character described, comprising a primary sheet having its end portions overlapped, secured together and forming a tube having opposite side walls, a top member and a bottom member, tongues struck from the top member, said tongues being integral parts of the top member and hinged to the latter adjacent the ends thereof, the tongues having their ends secured to the bottom member at the overlapping portions of the sheet, each of said tongues forming a substantially vertical end wall of the receptacle and being of materially less width than the width of the receptacle and having side edges spaced from the side walls of the receptacle to form a plurality of openings at each end of the receptacle, aligned open windows of less width than the receptacle arranged in the top member, each tongue being provided about midway between its side edges with a substantially vertical slot positioned at the root end portion only of the tongue, and a substantially vertically disposed divider extending substantially diametrically within the tube and having end extensions extending through said slots and interlocked with the tongues.

2,315,369
TELEVISION SYSTEM
Dudley E. Foster, South Orange, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application September 28, 1940, Serial No. 358,745
4 Claims. (Cl. 178—7.5)



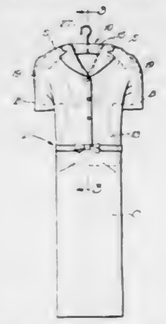
1. In a television system of the type wherein synchronizing pulses are combined with picture signals, the combination of a discharge device having a cathode, an anode, and a control electrode, means for impressing said combined synchronizing pulses and picture signals on said control electrode and adapted to cause said cathode to change its potential in accordance with said synchronizing pulses and said picture signals, means responsive to changes in potential of said cathode caused by said synchronizing pulses, and means connected to said control electrode to block said discharge device within the range of said synchronizing pulses.

2,315,370
FLUID PRESSURE REGULATOR
Ralph C. Hughes, Anderson, Ind., assignor to Reynolds Gas Regulator Co., Anderson, Ind., a corporation of Indiana
Application July 31, 1940, Serial No. 348,881
3 Claims. (Cl. 50—26)



1. In a gas regulator, a valve body having a valve chamber provided with inlet and outlet openings, and a regulator chamber, a partition wall in said valve chamber separating the inlet and outlet opening and having a valve port opening extending therethrough surrounded by a valve seat, a pressure responsive member in said regulator chamber, a valve member in said valve chamber, a second partition wall between said valve and inlet chambers and having an opening extending therethrough, a connection between the pressure responsive member and said valve member passing through the opening in said last named partition, said valve member having a seat contacting surface, and means for preventing the flow past the valve and eddy currents from affecting the operation of the diaphragm, said means comprising a relatively thin deflector plate secured to said valve member with one surface thereof in substantially the same plane as the plane of the port contacting surface of said valve member, and extending edgewise beyond the sides of the valve member, and wherein the deflector is provided with a peripheral flange bent out of the plane of its surface at an acute angle, the diameter of said plate being from three to ten times the diameter of the valve port openings.

2,315,371
DRESS FORM AND HANGER
Lawrence Kahn, Brooklyn, N. Y.
Application May 15, 1941, Serial No. 393,539
3 Claims. (Cl. 223—71)



1. A dress hanger form for use in the shipment and display of dresses comprising a single blank of cardboard which is cut to provide a lower waist portion, a narrow connecting portion integral with and extending upwardly and centrally from the top of the waist portion, an arcuate hanger portion integral with the top of the connecting portion and connected thereto along a hinge score, said hanger portion being folded downwardly on said hinge score to lap the upper end of the connecting portion and lie substantially parallel to the same, a pair of sleeve form members integral with the waist portion and extending outwardly and upwardly from opposite side edges thereof, said sleeve form members being disposed in spaced relation to the respective side edges of the connecting portion and having their top portions respectively lapping the ends of the hanger portion, and a supporting hook connected to the hanger portion midway between its ends to facilitate the hanging of the dress hanger form upon a support.

2,315,372
PROCESS OF PREPARING WOOD PRODUCTS
Frederick W. Kressman, Laurel, Miss., assignor to Continental Turpentine & Rosin Corp. Inc., Laurel, Miss., a corporation of Mississippi
Application November 3, 1938, Serial No. 238,688
5 Claims. (Cl. 209—.3)

5. A process for separating highly absorbent wood fibers from other particles that are woody and less fibrous into bundles of substantially uniform density, comprising treating the wood fibers with moisture until the fibers absorb a substantial quanity thereof and containing in excess of 15% of moisture, drying the product to reduce the moisture content of the fibers as a whole



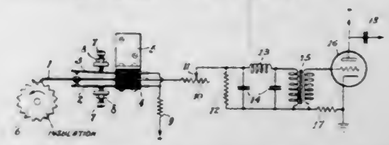
to approximately 15%, and passing the partially dried product through a rapidly moving current of air whereby the bundles of fibers of relatively low density are separated from the bundles of relatively high density.

2,315,373
PROCESS FOR FORMING LIGHT-POLARIZING IMAGES
Edwin H. Land, Cambridge, Mass., assignor to Polaroid Corporation, Dover, Del., a corporation of Delaware
Application May 28, 1941, Serial No. 395,583
12 Claims. (Cl. 88—29)



1. The method of making a light-polarizing image which comprises wetting a relief of a predetermined image with a solution containing a dichroic dye, and pressing said relief into contact with a sheet of molecularly oriented, transparent plastic material, whereby said dye is caused to transfer from said relief to said sheet.

2,315,374
SQUARE WAVE GENERATOR
Raymond D. Hutchens, New York, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application May 24, 1940, Serial No. 336,903
6 Claims. (Cl. 175—373)



1. A square wave generator comprising means for interrupting a direct current, said means including a movable contact spring interposed between two outer contact springs, means for vibrating said movable contact spring at a constant rate, means providing equality between the moments of circuit closure and of travel-time of said movable contact from one outer contact spring to the other, means for feeding currents of like polarity and potential to both of the outer contact springs, and utilization means responsive to an interrupted current fed thereto by said movable contact springs, said utilization means including an electron discharge tube having an input circuit under control of said interrupted current, and a filter system electrically interposed between said movable contact spring and said input circuit.

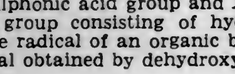
2,315,375

SULPHO - TRICARBOXYLIC ACID COMPOUNDS AND PROCESS OF PREPARING SAME

Paul Nawiasky, Summit, and Gerhard Ewald Sprenger, Westfield, N. J., assignors to General Aniline & Film Corporation, a corporation of Delaware

No Drawing. Application January 4, 1939, Serial No. 249,254
21 Claims. (Cl. 260—481)

4. The aliphatic tricarboxylic acid compounds having the formula



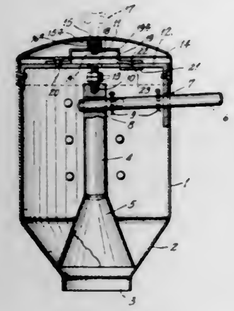
wherein R is an aliphatic radical containing at least one sulphonic acid group and X is a member of the group consisting of hydrogen, ammonium, the radical of an organic base, a metal and a radical obtained by dehydroxylation of an alcohol.

2,315,376

DISPENSER

George H. Packwood, Jr., St. Louis, Mo.

Application February 12, 1938, Serial No. 190,265
12 Claims. (Cl. 221—62)



1. A dispenser comprising a hollow body having a bottom portion with a central opening therein, a vertical plunger mounted in said body and having a valve thereon adapted to cooperate with said bottom portion around said opening to control flow therethrough, said plunger and said container having opposed openings in the sides thereof, and a lever fulcrumed on the lower edge of the opening in said container and extending into the opening in said plunger.

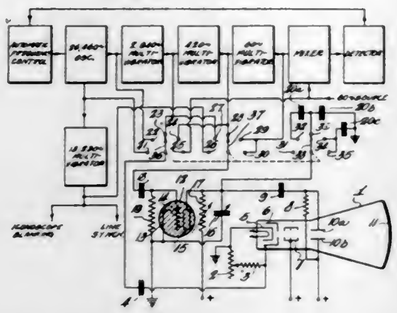
2,315,377

ELECTRICAL APPARATUS

Waldemar J. Poch, Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application June 1, 1940, Serial No. 338,333
12 Claims. (Cl. 172—245)

1. In an electric circuit, a plurality of alternating current voltage sources and indicator means for comparing the frequency of said alternating current voltage sources comprising a cathode ray oscilloscope having mean to develop an electron beam and a control electrode for controlling the intensity of the beam and electron beam deflecting means, means for selectively connecting the control electrode of said tube to one of said alternating current voltage sources, and means for selectively connecting the electron beam deflecting



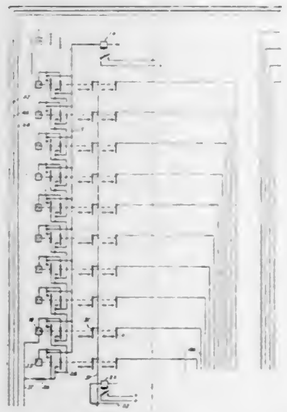
means to another of said alternating current voltage sources.

2,315,378

AUTOMATIC TELEPHONE SYSTEM

Winfred T. Powell, Rochester, N. Y., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y., a corporation of New York

Application September 13, 1940, Serial No. 356,623
6 Claims. (Cl. 179—17)



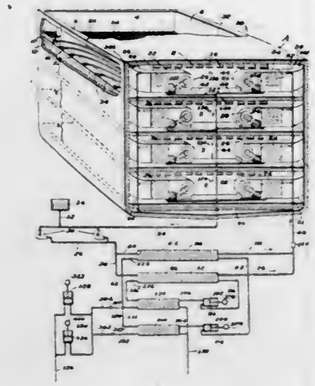
1. In a telephone system, a plurality of telephone lines certain of which are multi-party lines, each telephone line having a calling sleeve conductor and a called sleeve conductor, means including link circuits for interconnecting said lines, means for rendering busy, telephone lines in use, testing means for determining the busy or idle condition of a called telephone line, a discriminating relay individual to each of certain of said link circuits, means for normally operating the discriminating relay of a link circuit in response to the selection of said link circuit for use, a circuit for shunting said discriminating relay of a link circuit connected to a party line in the case of a revertive call thereon, said last-mentioned circuit including the calling and the called sleeve conductors of said last-mentioned party line, and signalling means controlled by said discriminating relay.

2,315,379

PRESERVING PERISHABLES

Hector Harris Robson, Scarsdale, N. Y., assignor to United Fruit Company, Boston, Mass., a corporation of New Jersey

Application September 17, 1941, Serial No. 411,240
22 Claims. (Cl. 62—6)



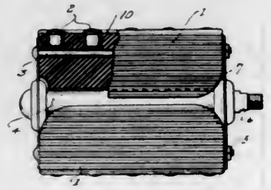
1. Apparatus for preserving perishables in a cargo compartment comprising the combination of means for changing the air in the compartment by withdrawing it therefrom and returning it thereto through the cargo, cooling apparatus for lowering the temperature of the air delivered to the cargo, a refrigerant flowing through said apparatus, means for cooling said refrigerant, means responsive to the temperature of air delivered to the cargo for regulating the rate of flow of the refrigerant through said apparatus, means responsive to the temperature of air withdrawn from the compartment for regulating the rate of air change in the compartment, and means responsive to the temperature of the refrigerant for regulating the capacity of said refrigerant cooling means.

2,315,380

SAFETY PEDAL FOR BICYCLES

Paul J. Yeater and Douglas R. Yeater, Salem, Oreg.

Application May 22, 1941, Serial No. 394,580
1 Claim. (Cl. 74—594.4)



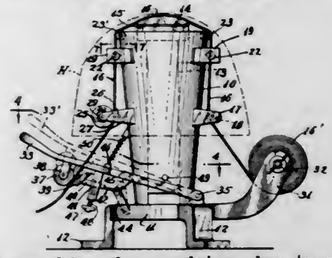
A pedal, including a frame, transverse end spindles carried by the frame, a sleeve arranged transverse of and carried by the frame, said sleeve being intermediate the end spindles, a pedal tread removably supported on each spindle and covering the space between its supporting spindle and the sleeve, the ends of the treads adjacent the sleeve being each formed with a recess to receive and interfit with the sleeve to prevent independent movement of either tread on its spindle.

2,315,381

MACHINE FOR APPLYING DRY TRANSFERS OF MARKINGS

Edward E. Ziskind, New York, N. Y.

Application August 14, 1941, Serial No. 406,757
8 Claims. (Cl. 41—1)



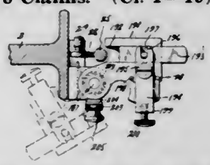
1. A machine for applying dry transfers in upright positions, comprising a vertical member over which various articles may be placed, a heat unit mounted across the top portion of said vertical member, guide means for guiding a web of dry transfer material up one side and over the top and down the other side of said vertical member, and means for advancing said web of dry transfer material in sections of pre-selected length, including a pivotally mounted lever mounted upon the bottom portion of said vertical member and having a passage through which said web passes, a counter-pressure drum mounted beneath said lever, and a gripper jaw cooperative with said counter-pressure drum for gripping said web.

2,315,382

MACHINE FOR UNITING LAYERS OF MATERIAL

Davis J. Ajouelo, Atlanta, Ga., and James Linton Moore, deceased, late of Atlanta, Ga., by Susan Ansley Moore, executrix, Decatur, Ga., assignors to The Auto-Soler Company, Atlanta, Ga., a corporation of Georgia

Application May 26, 1938, Serial No. 210,266
8 Claims. (Cl. 1—19)



1. A machine for making and inserting fasteners into materials to be united comprising a feeding mechanism, a cutting mechanism, and an inserting mechanism, means to operate said mechanisms simultaneously, guide means to position the materials with respect to the machine, the guide means being pivotally mounted at a point adjacent the inserting mechanism and adapted to assume at least two different vertical positions, and means to swing the guide means in a horizontal plane about its pivot away from the machine.

2,315,383

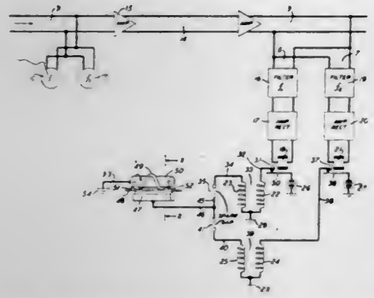
METHOD AND APPARATUS FOR LOCATING TRANSMISSION FAULTS

Joseph Frank Andrews, New York, N. Y., assignor to American Telephone and Telegraph Company, a corporation of New York

Application June 14, 1941, Serial No. 398,173
12 Claims. (Cl. 175—183)

1. The method of measuring time delay for

locating faults on a long transmission line, comprising continuously transmitting two waves of different frequencies over said line to observe the time delay between interruptions of the individual waves at a certain point on said line due to the occurrence of the fault at an unknown point on said line, and utilizing said time delay to determine the distance on said line extending from said certain point to said unknown point.



6. In combination, in apparatus for locating transmission faults, a line subject to a fault causing an interruption of transmission, means to apply two alternating current waves having different frequencies continuously to one point on said line, and means at another point on said line to selectively receive said two waves continuously such that interruptions of individual waves, due to the occurrence of the fault at a point intermediate said one and other points, are recorded on a time basis.

2,315,384

METHOD FOR REMOVING WEAKLY ACIDIC ORGANIC SUBSTANCES FROM HYDROCARBON LIQUIDS

George W. Ayers, Jr., Chicago, Donald C. Bond, Northbrook, and Lawrence M. Henderson, Winnetka, Ill., assignors to The Pure Oil Company, Chicago, Ill., a corporation of Ohio

No Drawing. Application May 9, 1941, Serial No. 392,750

8 Claims. (Cl. 196—32)

1. In a method for removing acidic organic substances from otherwise neutral organic water-immiscible fluids, the step which comprises contacting said fluids with aqueous alkali solution containing copal in the form of its reaction product with alkali metal hydroxide and solventizer therefor.

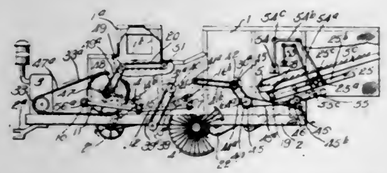
2,315,385

THRESHING MACHINE

Philip P. Baker, Chula Vista, Calif.

Application November 23, 1940, Serial No. 366,891

10 Claims. (Cl. 130—24)



1. In a threshing machine of the class described, the combination of a reciprocally mounted front threshing table, a rear reciprocally mounted straw carrying threshing table portion communicating with said front threshing table pivotally mounted at its inner end and pivotally mounted gravity actuated weight means connected with said rear threshing table portion arranged to automatically shift said rear threshing table portion in angular relation with said reciprocally mounted front threshing table with varying horizontal inclination of said threshing machine.

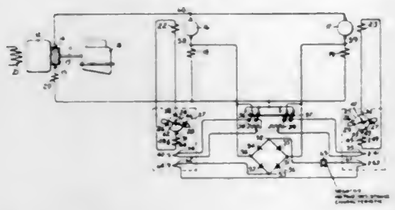
2,315,386

PROTECTIVE POWER SYSTEM

Morris J. Baldwin, Erie, Pa., assignor to General Electric Company, a corporation of New York

Application October 21, 1942, Serial No. 462,822

17 Claims. (Cl. 172—179)



17. A power system for a vehicle including a plurality of driving motors, means for electrically connecting said motors to a source of electrical power supply, means including a field exciting winding on each of said motor for controlling the torque of said motors, means for connecting said motors in a pair of normally balanced electrical circuits, an armature reaction excited exciter having a set of primary brushes and a set of secondary brushes for providing a primary and a secondary circuit through said exciter, means for connecting said motor field exciting windings to said exciter secondary brushes, means including a control field exciting winding for providing a component of excitation along the exciter secondary brush commutating axis, means including a compensating field exciting winding for providing a component of excitation along the exciter secondary brush commutating axis substantially equal and opposite to the armature reaction of electric current through said exciter secondary brushes, a third field exciting winding arranged to provide a component of excitation along the exciter secondary brush commutating axis, an electrical bridge circuit having four unidirectional current branches connected in a loop providing a full wave rectifier with a pair of diametrical terminals each connected to a pair of connected bridge branches having opposite undirectional current characteristics and connected to normally equipotential points of different circuits of said pair of normally balanced motor circuits, a second pair of diametrical terminals each connected to a pair of connected bridge branches having the same direction unidirectional current characteristics, and means connecting said exciter third field exciting winding to the latter pair of said diametrical terminals for energizing said exciter third field exciting winding responsive to unbalanced currents flowing in said bridge due to unbalance in said motor normally balanced circuits for providing a component of excitation along said exciter secondary brush commutating axis cumulative to the component of excitation provided by said exciter control field exciting winding.

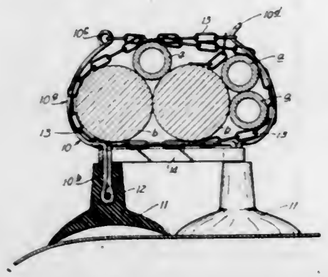
2,315,387

CARRIER ATTACHMENT FOR VEHICLES

Joseph B. Bambenek, William F. Hein, and Peter Worner, Winona, Minn., assignors to Peerless Chain Company, Winona, Minn., a corporation of Minnesota

Application April 8, 1940, Serial No. 328,496

4 Claims. (Cl. 224—29)



2. A carrier of the kind described involving a resilient yoke having an anchoring base and upstanding arms, and a flexible non-elastic cable anchored to the upper end of one of said arms and detachably securable to the upper end of the other of said arms, said cable being of such greater length than the distance between the arms, that the intermediate portion thereof can be wrapped completely around objects such as fish poles and skis and when so applied, will, under the spreading tendency of the arms of said yoke, tightly clamp together the embraced articles and exert upward lifting action thereon.

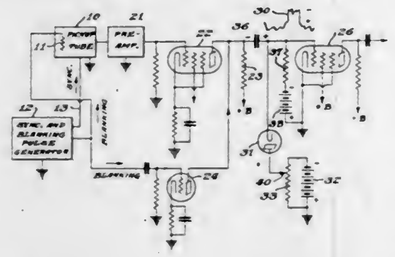
2,315,388

TELEVISION SYSTEM

Alda V. Bedford, Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application November 30, 1940, Serial No. 367,888

8 Claims. (Cl. 178—7.2)



1. In a television system, the method which comprises producting a composite signal including picture signals and periodically recurring electrical pulses which go periodically to a predetermined amplitude level with respect to black in the picture being transmitted, there being noise signals unavoidably superimposed on said amplitude level, producing blanking pulses having a fixed amplitude, so adding said composite signal and said blanking pulses that said noise signals are caused to extend substantially beyond said amplitude level into the "blacker than black" region, and clipping off said blanking pulses at a level determined by the height of said blanking pulses with respect to the alternating current axis of the signal.

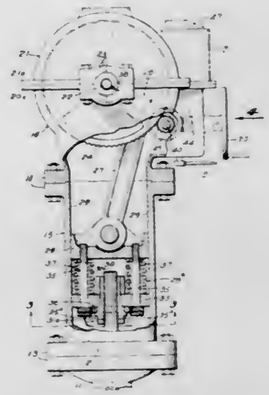
2,315,389

VALVE CONTROL

Ronald C. Benson, Camden, N. J., and Nelson H. Mageoch, Manoa, Pa., assignors to Philadelphia Gear Works, Inc., Philadelphia, Pa., a corporation of Pennsylvania

Application April 30, 1941, Serial No. 391,078

7 Claims. (Cl. 74—44)



1. Apparatus for operating a reciprocable element to and from positive contact with a fixed complementary element, comprising a reciprocable element, a stem associated therewith and adapted to be moved in axially reciprocating fashion, a fixed complementary element, a frame secured to the fixed element provided with bearings fixedly spaced from the fixed element, a motor-driven crank-shaft operable in the bearings, a crank on the crank-shaft, a cross-head actuated from the crank, guide means for said cross-head, an intermediate head carried by the stem, spacing means between the cross-head and the intermediate head member for limiting their maximum spacing apart, resiliently compressible means between the cross-head and the intermediate member for resiliently resisting a lesser spacing apart, the throw of the cross-head on the crank being greater than the throw of the intermediate head member on the stem whereby the compressible means are compressed as said maximum spacing is being lessened due to the differential of said throws, and adjusting means for varying the differential of said throws and thereby the degree of compression of the compressible means, to enable said cross-head to come to rest while the compressible means are exerting contacting pressure on the reciprocable element during fixed element contacting phase.

2,315,390

EXCRETA BAG

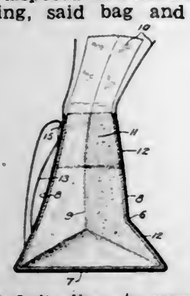
Clyde K. Billeb, Shorewood, Wis., assignor to Milprint, Inc., Milwaukee, Wis., a corporation of Delaware

Application September 5, 1942, Serial No. 457,463

6 Claims. (Cl. 4—142)

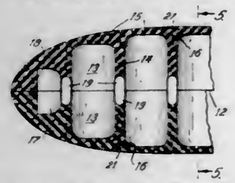
1. An excreta receptacle comprising, an outer approximately rectangular bag, an innermost lining of liquid absorbent material covering approximately the entire interior of said bag, and an intervening lining of relatively liquid imper-

vious material disposed between said bag and said absorbent lining, said bag and linings being



scored along definite lines to permit the assemblage to be collapsed into flat condition.

2,315,391
CUSHION
George W. Blair, Mishawaka, Ind., assignor to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind., a corporation of Indiana
Application December 16, 1939, Serial No. 309,510
10 Claims. (Cl. 5—337)



2. A cushion of the class described, comprising a relatively flat body of spongy rubber like material having convex upper and lower surfaces, said body having many laterally spaced substantially parallel openings therein spaced from and extending between said surfaces, said body having air passageways enclosed therewithin and extending therethrough in a plane substantially parallel with and between said upper and lower surfaces and communicating with said openings, said passageways opening at their opposite ends through the edges of the cushion.

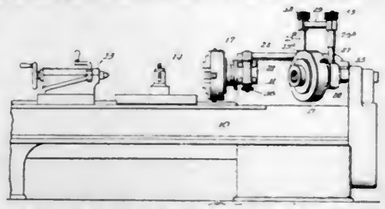
2,315,392
ART OF MOUNTING PIEZOELECTRIC CRYSTALS
Samuel A. Bokovoy, Audubon, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application July 5, 1941, Serial No. 401,102
10 Claims. (Cl. 171—327)



1. Method of mounting a piezoelectric crystal which comprises subjecting said crystal to tension applied at spaced points adjacent the surface thereof.

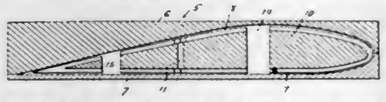
2,315,393
CHUCK HANDLING DEVICE FOR LATHES
Ray Bowerman, Niles, Mich.
Application November 8, 1940, Serial No. 364,759
7 Claims. (Cl. 82—34)

1. A supporting and transporting structure for lathe-chucks comprising a supporting-member provided with means on its sides for engaging and supporting a plurality of chucks, and means for supporting said member from the lathe-frame for bodily horizontal movement in any direction to, and from, the shaft for driving the chuck, comprising an arm pivoted to the lathe-frame for horizontal movement, a second arm connected to



the distal end of the other arm for horizontal movement, and a pivotal connection between said member and the distal end of the second arm for permitting horizontal swinging movement of the member, for coupling or uncoupling any of the chucks and said shaft.

2,315,394
INSIDE MOLD FORM
Murray Brosius, Nashville, Tenn.
Application April 25, 1940, Serial No. 331,648
4 Claims. (Cl. 18—42)

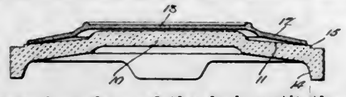


1. A mold for molding a hollow aeroplane wing or the like in one piece, said wing comprising a shell having upper and lower walls characterized by trussed spars and trussed ribs and diagonal bracing, formed interiorly on the walls, said mold comprising a lower section having its upper surface formed to define the contour and plan shape of the lower wall of the wing, an upper section having its under surface formed to define the contour and plan shape of the upper wall of the wing, means supportably mounting said upper section on said lower section, a core within the space defined by the contour forming area of the under surface of said upper section and the contour forming area of the upper surface of said lower section, said core being of material capable of dissolution and removal without disturbing the mated relation of the upper and lower walls of the aeroplane wing, spacing means for determining and maintaining the vertical spacing of the upper and lower faces of the core from the contour forming areas of the upper and lower mold sections, said spacing means comprising vertical slugs extending through accommodating openings formed in said core, said slugs supportably resting on the upper surface of said lower mold section and being supportably engaged with the upper mold section.

2,315,395
REFRACTORY SETTER
Leslie Brown, Trenton, N. J., assignor to Lenox Incorporated, Trenton, N. J., a corporation of New Jersey
Application October 15, 1940, Serial No. 361,316
2 Claims. (Cl. 25—153)

1. A setter for use in the initial firing of vitrified translucent flat ware such as fine porcelain and the like, said setter comprising an imperforate hub to oppose the center of an inverted

clay piece, and an imperforate annularly true depressed flange, said flange being depressed to an extent such that it is adapted to engage continuously the rim of the clay piece during the entire firing operation and to support the central portion of the clay piece in spaced relation to



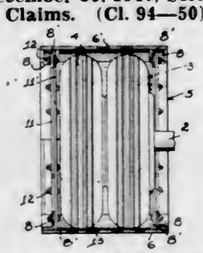
the opposed surface of the hub until the firing has been substantially completed, said hub affording a support for the clay piece during only the final portion of the firing period whereby to prevent deformation of the central portion of the ware during that period when it is in a semi-plastic condition.

2,315,396
EASEL-TYPE BOOK AND METHOD
Earl M. Buckland and Gordon J. Juttner, Chicago, and John M. Marchok, Elmwood Park, Ill., assignors to Rockwell-Barnes Company, Chicago, Ill., a corporation of Illinois
Application July 27, 1942, Serial No. 452,434
8 Claims. (Cl. 281—33)



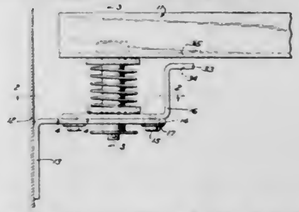
1. An easel-type notebook comprising a back, a pair of relatively stiff covers flexibly connected along opposite edges of the back, each cover being adapted seriatim to swing through 270° to lie across the back, a hinge line across each cover disposed beyond the back edge to which it is flexibly connected to facilitate angular bending of the covers whereby the cover that is swung through 270° may bend along the hinge line into acute angular relationship with the other cover, the two covers when so slanted being adapted to upstand in easel fashion from a horizontal surface whereon their free edges are rested, and a plurality of leaves each having one edge immovably but flexibly connected to the back, for suspension therefrom while resting against one of the covers.

2,315,397
ROLLING ATTACHMENT FOR MOTOR VEHICLES
John Butler, Cleveland Heights, Ohio
Application December 30, 1940, Serial No. 372,275
2 Claims. (Cl. 94—50)



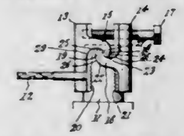
1. The combination of a pneumatic tire wheel with a cylindrical, hollow sectional road rolling device freely rotatably assembled on said pneumatic tire wheel, the inner diameter of the road rolling device being larger than the outer diameter of said tire wheel when fully inflated, the sections of said sectional road rolling device abut each other and each include a base member and stiffening and guiding members secured to the inside of said base member and extended beyond the edges thereof, the stiffening and guiding members of adjoining sections being offset with respect to each other and their extended portions attached to each other in overlapping relationship.

2,315,398
RESILIENT MOUNTING
Jesse Clark, Chicago, Ill., assignor to Rock-Ola Manufacturing Corporation, Chicago, Ill., a corporation of Delaware
Application November 3, 1941, Serial No. 417,631
2 Claims. (Cl. 248—21)



1. A resilient mounting device interposed between a frame member and a supporting member therefor, comprising a spring guide secured to said frame member, a bracket secured to said supporting member, a second bracket having a spring guide and adjustably mounted on said first bracket to enable proper alignment of said spring guides, a coil spring interposed between said guides to resiliently support said frame member, and a bolt secured to said frame member and extending in spaced relationship through said spring, said guides and said brackets.

2,315,399
BATTERY TERMINAL CLAMP
Charles R. Cline, New Brighton, Pa.
Application December 16, 1941, Serial No. 423,243
4 Claims. (Cl. 173—259)



1. A battery terminal clamp comprising part-cylindrical clamp sections, mutual and complemental lugs projecting in pairs from opposite diametric points and substantially intermediate the height of the two sections, the contacting portions of the lugs forming a fulcrum on which the two sections may rock, the portions of the sections below the lugs engaging the battery terminal, means engaged with the portions of the sections above the lugs for rotating the sections about the lugs, said pairs of lugs each comprising substantially horizontal parallel arms extending out in opposite directions and at different elevations from the mutual sections and overlapping at their free end portions through substantial arcuate distances, heads on such free ends extending toward one another and adapted to interlock; the circumferential widths of said heads being substantially less than the circumferential distance between the inner faces of the heads and the adjacent radial edges of the sections, the mutual engaging faces of the heads and arms being rounded to form ball and socket joints of a loose character,

the near interengaging faces of the heads being substantially flat in a substantially vertical line when the sections are rocked into a truly cylindrical relation with one another, the far faces of the heads and the opposite edges of the sections being rounded to cause riding of the heads axially apart as the sections are collapsed toward one another.

2,315,400
RESINOUS COMPOSITION
Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
No Drawing. Application August 13, 1940, Serial No. 352,409
9 Claims. (Cl. 260—45)

1. The process of preparing a resinous composition which comprises partially condensing, at a pH above 7.0, an aliphatic aldehyde with a phenol containing at least two reactive positions in the aromatic nucleus thereby to form a liquid mass comprising essentially alkylol derivatives of the said phenol, effecting initial reaction between the said liquid mass and a cyanamide derivative selected from the class consisting of dicyandiamide, melamine and mixtures thereof, said cyanamide derivative being employed in an amount corresponding to from 2 to 20 per cent by weight of the said phenol, and completing the reaction between the said components at a pH below 7.0.

2,315,401
THERMOSETTING AMINOTRIAZINE-FORMALDEHYDE CONDENSATION PRODUCT
Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
No Drawing. Application October 19, 1940, Serial No. 361,976
14 Claims. (Cl. 260—42)

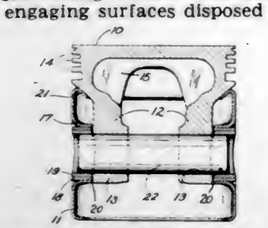
1. A composition of matter containing a curing agent comprising oxamide and a soluble, fusible condensation product of a mixture comprising an aminotriazine and formaldehyde.

2,315,402
PROTEIN - MODIFIED AMINOTRIAZINE-FORMALDEHYDE CONDENSATION PRODUCTS
Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
No Drawing. Application October 19, 1940, Serial No. 361,977
17 Claims. (Cl. 260—6)

1. A composition of matter comprising a condensation product of a mixture comprising an aminotriazine, formaldehyde and a protein in a small amount not exceeding substantially one-tenth mol of protein per mol of aminotriazine.

2,315,403
COMPOSITE PISTON
Harold H. Dillon, Cleveland, Ohio, assignor, by mesne assignments, to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
Application September 24, 1940, Serial No. 358,117
3 Claims. (Cl. 309—14)

1. A piston comprising a head having depending pillars carrying wrist pin bosses, a separate skirt having aligned wrist pin bosses formed therein, a wrist pin passing through said bosses and holding said skirt and head together, said head and skirt being formed with inclined complemental engaging surfaces disposed above said



wrist pin bosses, said surfaces being inclined at an angle the tangent of which is proportional to the ratio of the height of a point on the inclined surface above the wrist pin axis to the distance from said point to the axis of the piston.

2,315,404
WATER, OIL, OR OTHER LIQUID COOLER
George Edward Dono, Oxford, England, assignor to Morris Motors Limited, Oxford, England
Application December 28, 1940, Serial No. 372,131
In Great Britain December 15, 1939
1 Claim. (Cl. 257—130)



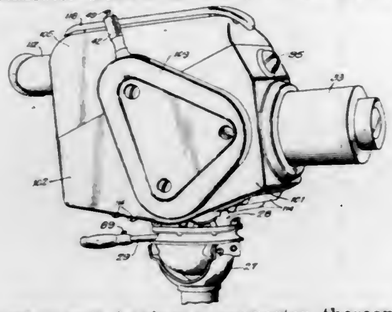
In a liquid cooler, the combination of, a header formed of relatively thin sheet material adapted to receive liquid under considerable pressure, one wall of said sheet material having openings therein, a plurality of tubes formed of relatively thin sheet material connected to said side wall with each tube in communication with the interior of the header, channel members secured to an inner surface of the wall of sheet material adjacent ends of said tubes, threaded reinforcing stay bolts connected to said channel members and extending through holes in the opposite wall of said sheet material forming the header, the sheet material adjacent each of said holes being inwardly depressed forming a recess around each hole, and a nut threaded on each bolt with each nut engaging the sheet material within a respective recess whereby outward distortion of the sheet material walls is substantially prevented without materially increasing the weight of the cooler.

2,315,405
MEANS FOR TREATING TEXTILES
Charles F. Dulken, Arlington, N. J.
No Drawing. Application November 24, 1939, Serial No. 305,960
2 Claims. (Cl. 252—8.7)

1. A composition for the preliminary treatment of textile fibers, comprising, in combination, 10 to 75 parts by weight of a sulfonated ester of an aliphatic dibasic acid, 30 to 150 parts by weight of butyl alcohol and 1 to 15 parts by weight of a fungicide of the class consisting of parachlormetacresol and parahydroxybenzoic acid esters.

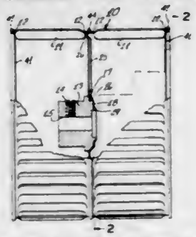
2,315,406
TELEVISION CAMERA
William C. Eddy, Michigan City, Ind., assignor to Balaban & Katz Corporation, Chicago, Ill., a corporation of Delaware
Application February 28, 1942, Serial No. 432,765
29 Claims. (Cl. 178—7.2)

1. A television camera comprising a frame having a base and sides, a lens supported on the base at one end of the frame, an iconoscope tube mounted between the sides rearwardly of the lens, a connecter element mounted on the frame, an



amplifier unit having a connecter thereon for connection to the last named connecter, and means for detachably supporting the amplifier unit in the frame.

2,315,407
DOUBLE INLET BLOWER WHEEL
Addison W. Evans, Torrington, Conn., assignor to The Torrington Manufacturing Co., Torrington, Conn., a corporation of Connecticut
Application April 8, 1942, Serial No. 438,108
5 Claims. (Cl. 230—134)



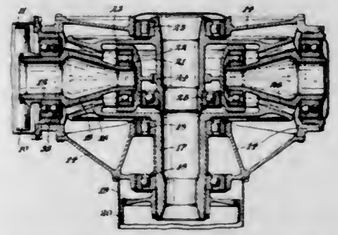
1. A centrifugal blower wheel including an integral, bladed sheet metal body of substantially cylindrical form, a center plate provided with substantially wide, arcuate truss-supported shoulder portions just inwardly of its periphery, and formed just outwardly of said shoulder portions, with arcuately grooved seating portions in which the groove is laterally presented, the metal of the body intermediate its length, having a doubled portion extending into and substantially filling said grooved portions, and radially inwardly thereof, lying closely adjacent to said shoulder portions.

2,315,408
MAGNETIC SUSPENSION
Harold T. Faus, Lynn, Mass., assignor to General Electric Company, a corporation of New York
Application October 12, 1939, Serial No. 299,131
15 Claims. (Cl. 308—1)



5. The combination in a magnetic suspension device of a generally cylindrical permanent magnet polarized in the direction of its longitudinal axis, a shaft arranged in axial alignment with said permanent magnet, a body to be supported, a second permanent magnet secured to said body and provided with a central bearing for rotation about said shaft, said second magnet being polarized in a direction parallel to its axis of rotation, the relative polarities of said magnets being such that a like pole of one magnet is in axial alignment and in confronting relation with a like pole of the other magnet, whereby said second magnet is floatingly supported by a magnetic force of repulsion against the force of gravity and lateral displacements.

2,315,409
BEVEL GEARING
Alfred Hubert Roy Fedden and Leonard Frederick George Butler, Bristol, England, Frederick Metcalf Thomas, North Adams, Mass., and Peter Ralph Price, Bristol, England, assignors to The Bristol Aeroplane Company Limited, Bristol, England, a British company
Application January 14, 1942, Serial No. 426,779
In Great Britain January 17, 1941
6 Claims. (Cl. 74—410)

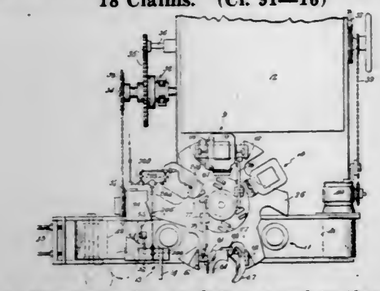


1. A right-angle bevel gear transmission, comprising in combination a casing, a pair of similar bevel gears coaxially mounted in the casing to face one another with their adjacent faces spaced apart, a driving shaft coaxial with said bevel gears and coupled to one of them, a second pair of coaxial bevel gears each meshing with both bevel gears in the first pair, a supporting shaft rotating with one of the second pair of bevel gears extending into the space between the first pair of bevel gears and supported by a bearing from the casing, a second supporting shaft rotating with the other bevel gear in the second pair extending away from the space beteween the first pair of bevel gears and supported by bearings from the casing, and a driven shaft coupled to one of the supporting shafts.

2,315,410
FILTER POWDER
Ogden Fitz Simons and Robert G. Capell, Warren, Pa., assignors to Floridin Company, Warren, Pa., a corporation of Delaware
No Drawing. Application May 11, 1939, Serial No. 273,146
2 Claims. (Cl. 252—89)

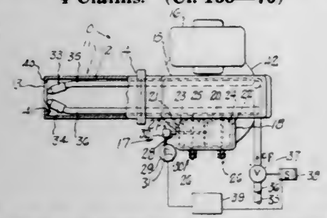
1. The method of preparing filter powder for incorporation in a dry cleaning fluid as a filter-aid and for adsorbing color and fatty acids from the cleaning fluid which comprises heating from approximately 212° F. to 1800° F. Georgia-Florida fuller's earth until substantially all of the free water is removed and until the water of hydration is less than 6% and not less than 1% and the earth on grinding to a size finer than 150 microns will exert the properties of a filter aid and adsorb color and fatty acids when incorporated in a cleaning fluid to an extent as will allow 50% more clothes to be cleaned in the same time period than with an equal amount of untreated clay, and grinding the earth to a size finer than 150 microns.

2,315,411
SEALING APPARATUS
Carl A. Flood, Framingham, Mass., assignor to Dennison Manufacturing Company, Framingham, Mass., a corporation of Massachusetts
Application September 10, 1940, Serial No. 356,147
18 Claims. (Cl. 91—16)



1. Apparatus for applying a seal to the side of a container comprising means for delivering a container to a location in upright position, means at the location for overturning the container into a tipped position in which one side of the container is directed upwardly, and means for applying a gob of sealing material to said side of the container while the container is in said tipped position.

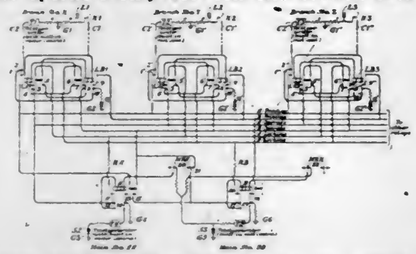
2,315,412
DUAL FLAME OIL BURNER AND CONTROL SYSTEM THEREFOR
Bennie L. Galumbeck, New York, N. Y.
Application April 17, 1942, Serial No. 439,442
4 Claims. (Cl. 158—76)



1. A device including a burner having a conduit open at one end to form a discharge orifice and having an air inlet spaced from the orifice for receiving air, two pipes having individual nozzles at said orifice, whereby oil can be supplied to the burner through one or both of said pipes, a source of air under pressure connected to said air inlet, and means for controlling the volume of air supplied by said source to the burner, including a casing having a plurality of air passages therein, individual manually settable valves for said passages, means for adjustably setting said valves, a control valve for only one of said passages, and means for automatically opening and closing the control valve independently of the adjustment of the settable valves, so that air may be supplied to the burner through one or both of said passages according as one or both of said nozzles are firing.

2,315,413
TELETYPEWRITER SELECTION SYSTEM
Ernest Osmond Gammell, Floral Park, N. Y., assignor to American Telephone and Telegraph Company, a corporation of New York
Application July 18, 1940, Serial No. 346,099
15 Claims. (Cl. 178—2)

1. In a telegraph system, a main station, a plurality of branch stations, a printer at the main station, a printer at each branch station, means associated with each of said printers for maintaining a holding circuit through the printer in its disconnected condition, circuits individual to said branch stations radiating from said main station and adaptable to serve as printing circuits operable only between one branch station



printer and the main station printer, means at each branch station for initiating a connection therefrom to the main station over the appropriate circuit, and automatic means directly responsive to the operation of said initiating means when the main station is idle for completing the connection between the appropriate branch station printer and the main station printer.

2,315,414
SUCKER ROD COUPLING
Arthur Germany, Houston, Tex.
Application July 8, 1941, Serial No. 401,405
4 Claims. (Cl. 287—104)

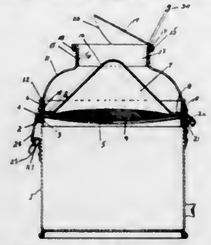


3. A rod coupling comprising overlapping pins on adjacent ends of rod sections, means for securing the pins against longitudinal movement when assembled, external stops on the rod sections, a sleeve around the assembled overlapping portions, means on the ends of the sleeve engaging said stops and including inwardly converging flexible fingers for securing the sleeve in assembled relation with the coupling.

2,315,415
SANITARY MILKING RECEPTACLE
George Gilbert, Newport, Ky., assignor of one-half to George Brickler, Alexandria, Ky.
Application October 12, 1939, Serial No. 299,137
4 Claims. (Cl. 31—51)

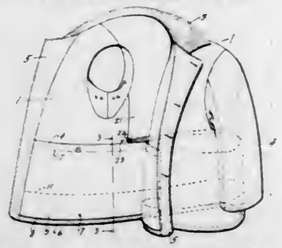
1. A device of the character specified comprising a container, a meshed strainer element hingedly mounted in the top of said container, a conical strainer element removably mounted over said first strainer element, an upwardly flaring

flange around the lower edge of said conical element, a domed top section for said container, said top section being open at the top, and a



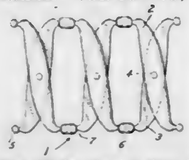
downwardly extending flange on said section arranged to abut the flange on said conical element.

2,315,416
HUNTING COAT
Warren G. Grady, Binghamton, N. Y., assignor to The Drybak Corporation, Binghamton, N. Y., a corporation of New York
Application July 8, 1939, Serial No. 283,494
2 Claims. (Cl. 2—94)



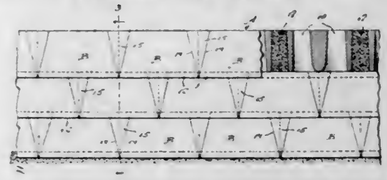
1. A hunting garment comprising a coat having a body portion, a seamless bottom game-carrying pocket extending around the body portion, said pocket being formed of a longitudinally folded strip of material positioned with the fold forming the bottom of the pocket and having two upstanding plies, one ply of said folded strip lying against the said body portion, means securing the upper edge portion of said ply of the strip at a region above the bottom forming fold to the body portion, and means for securing the ends of both plies of the folded strip to the body portion of the coat.

2,315,417
EXPANSION LINK
Charles B. Greenberg, New York, N. Y.
Application April 14, 1941, Serial No. 388,413
2 Claims. (Cl. 59—79)



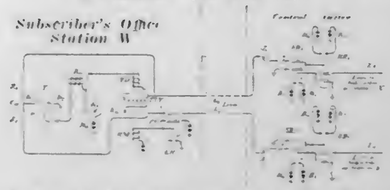
1. An expansible link chain for bracelets and the like comprising pairs of rigid link arms, means pivoting each pair of said link arms between their ends, a coupling means for holding corresponding link arm ends in intimate movable contact, comprising ball elements on the arm ends and a sheath having narrowed end sections suitable for encasing and holding the balls in intimate movable association and cooperating to permit free motion of the arms about the pivots.

2,315,418
BUILDING BLOCK AND WALL CONSTRUCTION
Henry W. Haaker, Yonkers, N. Y., assignor of one-half to Joseph Leer, Bronx, N. Y.
Application January 23, 1941, Serial No. 375,688
8 Claims. (Cl. 72—38)



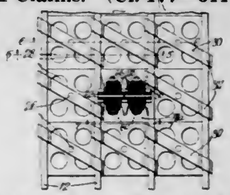
2. In a wall, identically constructed building blocks disposed in superimposed tiers and in end to end relation, means providing a cement joint between the ends of the adjacent blocks, vertically disposed separable sealing keys wholly covering the abutting ends of adjacent blocks on the outer face of the wall, and a flange depending from each block and arranged in overlapping engagement with the corresponding block in the next lower tier and said covering means therefor.

2,315,419
TELEGRAPH BREAKING SYSTEM
Frank Harold Hanley, Butler, N. J., assignor to American Telephone and Telegraph Company, a corporation of New York
Application December 24, 1941, Serial No. 424,221
5 Claims. (Cl. 178—2)



1. In a telegraph system, the combination of a loop circuit over which signals may be transmitted, a transmitter connected to said loop circuit, a pair of equal resistors connected in series with each other across said transmitter, a gas tube connected to the terminal common to said resistors, means responsive to a break signal received over said loop circuit to ionize the gas within said tube, and means responsive to the ionization of the gas within said gas tube to prevent any further transmission of signals by said transmitter over said loop circuit.

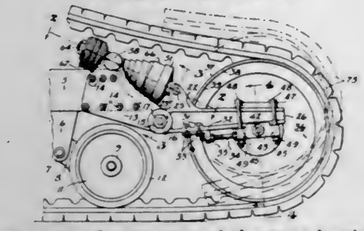
2,315,420
DIAGRAM BOARD
James R. Harrington, Mansfield, Ohio, assignor to The Autocall Company, Shelby, Ohio, a corporation of Ohio
Application April 25, 1940, Serial No. 331,606
11 Claims. (Cl. 177—311)



1. In a diagram board, the combination of a

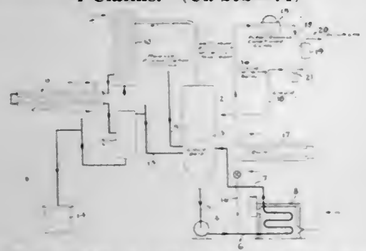
plurality of spaced supporting bars, a plurality of escutcheons for interchangeable mounting on the front surfaces of said supporting bars, and clamping means engaging the rear surfaces of said supporting bars for clamping said escutcheons to said supporting bars, said clamping means comprising shoulders for preventing relative movement of the rear edges of the supporting bars engaged thereby.

2,315,421
CRAWLER TRACTOR SIDE FRAME CONSTRUCTION
James G. Heaslet, Hudson, Ohio, assignor to The Cleveland Tractor Company, Cleveland, Ohio
Application February 5, 1941, Serial No. 377,559
4 Claims. (Cl. 305—9)



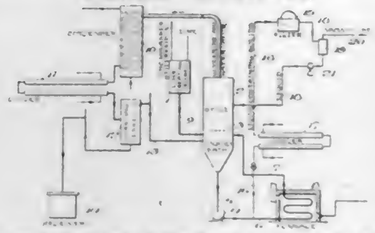
1. In a crawler tractor of the type having side frames and idler wheels associated therewith and tractor supporting track wheels carried by the track frame, an endless track encircling said wheels, the combination therewith of a pivoted yoke including a pair of spaced apart longitudinally extended tapered arms on whose tapered surfaces are mounted an adjustable bearing mounting for each idler wheel and a pair of upstanding bearing arms secured adjacent the base of the tapered arms and provided with resilient means pivoted to the upstanding bearing arms and associated with the track frame to normally hold the idler wheel in a predetermined position relative to ground.

2,315,422
TREATMENT OF MOLASSES FERMENTATION SOLUTIONS
Frank M. Hildebrandt, Baltimore, Md., assignor to U. S. Industrial Alcohol Co., New York, N. Y., a corporation of West Virginia
Application February 14, 1941, Serial No. 378,884
4 Claims. (Cl. 202—74)



1. The process of treating a molasses fermentation solution which contains a substantial proportion of solid substances that tend to agglomerate and to adhere to surfaces of apparatus and pipes of treating equipment causing clogging and local overheating, which process comprises introducing the molasses fermentation solution into a vessel containing a body of heat transfer liquid that has a boiling point higher than the temperature used in the process and that is non-reactive with said solution, flashing off certain volatile substances of the solution and changing the physical properties of said solids into non-agglomerating, non-adherent finely-divided material by mixing said solids with the liquid in the vessel and maintaining the temperature of the liquid above 190° C., removing the physically-changed solids from said vessel with a portion of the heat transfer liquid, and subsequently separating the solids from the heat transfer liquid to secure a product that is fertilizer material.

2,315,423
MANUFACTURE OF FERMENTATION GLYCERIN FROM MOLASSES
Frank M. Hildebrandt, Baltimore, Md., assignor to U. S. Industrial Alcohol Co., New York, N. Y., a corporation of West Virginia
Application February 14, 1941, Serial No. 378,885
3 Claims. (Cl. 202—57)

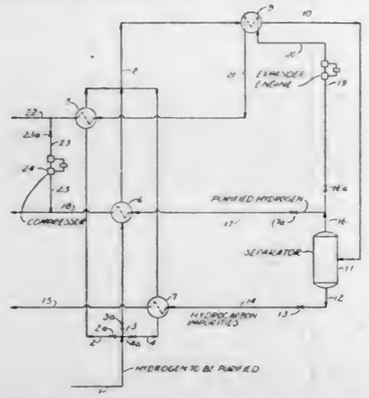


1. The process of treating a molasses fermentation solution which contains glycerin, organic acids and a substantial proportion of solid substances that tend to agglomerate and to adhere to surfaces of apparatus and pipes of treating equipment causing clogging and local overheating, which process comprises treating such fermentation solution with lime, introducing the lime-treated fermentation solution into a vessel containing a body of heat transfer liquid that has a boiling point higher than the temperature used in the process and that is non-reactive with said solution, the amount of lime with which the fermentation solution is treated being sufficient to combine with at least a substantial portion of the organic acids present in the solution and thereby substantially lessen the formation of esters when the solution is introduced into the vessel, flashing off glycerin from the lime-treated solution and changing the contained solids into non-agglomerating, non-adherent finely-divided material by mixing said solids with the liquid in the vessel and maintaining the temperature of the liquid above 190° C., removing the changed solids from said vessel with a portion of the heat transfer liquid, and subsequently separating the solids from the heat transfer liquid to secure a product that is fertilizer material.

2,315,424
HYDROGEN PURIFICATION
Luther R. Hill, Radburn, Gregory A. Vincent, Teaneck, and Everett W. Howard, Glen Rock, N. J., assignors to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware
Application July 17, 1941, Serial No. 402,806
4 Claims. (Cl. 62—175.5)

1. A method of purifying hydrogen of light hydrocarbon impurities which comprises cooling hydrogen contaminated with light hydrocarbons under super-atmospheric pressure to condense some of said light hydrocarbons, separating the thus-condensed cold hydrocarbons from cold purified hydrogen, reducing the pressure on the

cold separated hydrocarbons and using them to cool additional quantities of said contaminated hydrogen by indirect heat exchange therewith, using a portion of said cold purified hydrogen to cool additional quantities of said contaminated



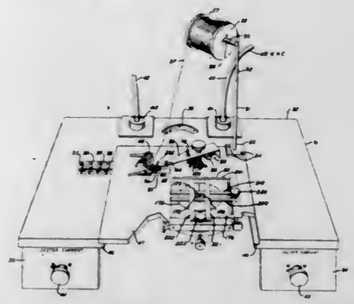
hydrogen, expanding another portion of said cold purified hydrogen to lower further the temperature thereof, and using the expanded colder purified hydrogen to cool additional quantities of said contaminated hydrogen.

2,315,425
CONTAINER
Lyle O. Hill and Leland W. Short, Chicago, Ill., assignors to The American Dairy Cattle Club, Chicago, Ill., a corporation of Illinois
Application September 19, 1941, Serial No. 411,462
5 Claims. (Cl. 62—1)



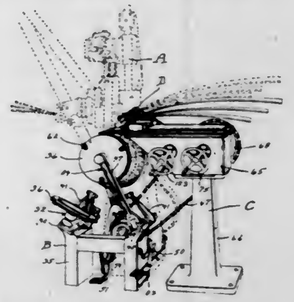
1. A container for preserving a biological specimen within a predetermined temperature range for an indefinite period which comprises an outer metal shell, an inner metal shell spaced therefrom, a metal tubular member extending inwardly of said outer shell and integral therewith for supporting the inner shell within the outer shell, said inner shell and said outer shell being hermetically sealed to said tubular member whereby a vacuum may be maintained in the space therebetween, an inner specimen receptacle extending into said inner shell accessible through said tubular member and integrated therewith, and a substance substantially filling said inner shell and sealed therewithin by said receptacle, said substance having a melting temperature which remains within said range throughout the period of the change of state of said substance.

2,315,426
SOLDER PELLET CASTER DEVICE
Robert G. Humphrey, Pelham, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Original application December 31, 1940, Serial No. 372,528. Divided and this application March 13, 1942, Serial No. 434,573
4 Claims. (Cl. 22—57)



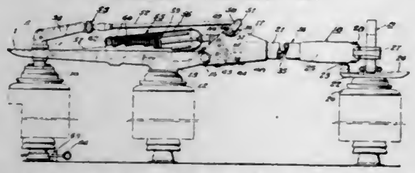
1. A solder pellet caster device comprising a reservoir adapted to hold a supply of solder in paste form, a crucible open at its top and bottom and supported above said reservoir, means to heat said crucible, an apertured slide bar operating between said reservoir and said crucible and carrying in spaced relation a closure for the top and a closure for the bottom of said crucible, the aperture in said slide bar being in register with said crucible and said reservoir when the top of said crucible is closed, means to operate said slide bar, and means operating in said reservoir to force the solder paste in said reservoir into said crucible when the bottom of said crucible is open.

2,315,427
BASKET MANUFACTURE
Sylvester H. Hunt, New Port Richey, Fla., assignor to Farmers Incorporated, Norfolk, Va., a corporation of Virginia
Application January 19, 1940, Serial No. 314,702
27 Claims. (Cl. 1—13.6)



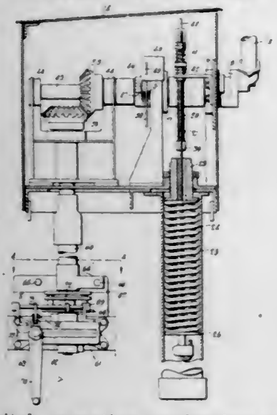
1. In basket making apparatus, a stapling machine including a rotary form and staplers above the form, bottom assembling means for presenting assembled bottom structures to the rotary form, a magazine for holding a plurality of staves, stave feeding means for successively delivering staves from the magazine to the rotary form, hoop holding means for guiding hoop strips over the staves beneath the staplers, and means for operating the stave feeding means in timed relation to the staplers.

2,315,428
HIGH VOLTAGE SWITCH
William R. Huttinger, Lansdowne, Pa.
Application February 1, 1941, Serial No. 377,031
4 Claims. (Cl. 200—48)



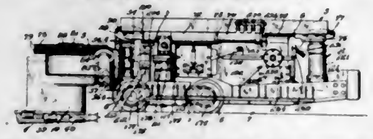
1. In a switch of the type described, a stationary contact, a switch arm pivoted at one end and having at its free end a contact head for engagement with said stationary contact, relatively movable members carried by said contact head for coaction with said fixed contact, said members having engaging and releasing positions, a single actuating means for shifting said switch arm to engage and disengage the contact head and said stationary contact, a reciprocable member having camming engagement with said movable members to positively shift the same to contact-engaging and disengaging positions, means including a toggle mechanism acting in one position thereto to positively lock the reciprocable member against movement when said head is out of alignment with the stationary contact, a spring normally holding the toggle in said position, and a stop to engage and to break the toggle against the action of said spring and thereby permit movement of the reciprocable member when the head is in alignment with the stationary contact.

2,315,429
HIGH SPEED DRIVE
William R. Huttinger, Lansdowne, Pa.
Application May 16, 1941, Serial No. 393,835
11 Claims. (Cl. 200—106)



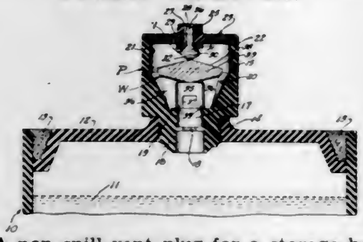
1. In switch operating mechanism of the type described, the combination with a pivoted switch blade of an oscillatable shaft operatively connected to the blade to oscillate the same about its pivot, a spring to rotate the shaft in one direction, a latch preventing rotation of the shaft in said direction, electromagnetic means to release said latch, a circuit for controlling said electromagnetic means, and a member reversely movable to either of two positions, said member during its movement from one to another of said positions operatively engaging said shaft and rotating the same to energize said spring and to position said shaft for operative engagement by said latch, said member during its movement from said position to the other of said positions disengaging from the shaft and in the other of said positions constituting a stop limiting rotation of the shaft under the influence of the spring.

2,315,430
KERF CUTTING MACHINE
Joseph F. Joy, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application July 21, 1938, Serial No. 220,571
22 Claims. (Cl. 262—28)



1. In a kerf cutting machine, the combination comprising a frame, a kerf cutter, an adjustable supporting structure mounted on said frame for supporting said kerf cutter for movement about spaced axes relative to said frame, power devices mounted on said frame and relative to which said supporting structure is adjustable, connections operated by said power devices and operatively connected to said kerf cutter for moving the latter about said spaced axes, said power devices being common to movements of said kerf cutter about both of said axes and having for any given relative adjustment of said connections with respect to them a maximum capacity for moving said kerf cutter less than the overall range of adjustability of the latter, and means for effecting relative adjustment between said connections and said power devices to effect cooperation between the latter and different portions of said connections to enable said power devices to move said kerf cutter about said axes through a distance substantially greater than said power devices can move the same in any single given relative adjustment of said connections with respect to said power devices.

2,315,431
NONSPILL VENT PLUG
Carl H. King and George C. Appel, Milwaukee, Wis., assignors to Globe-Union Inc., Milwaukee, Wis., a corporation of Delaware
Application July 26, 1941, Serial No. 404,108
4 Claims. (Cl. 137—139)

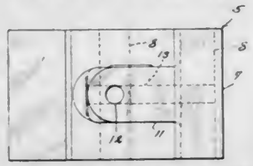


1. A non-spill vent plug for a storage battery containing liquid electrolyte and comprising a hollow body portion having its interior in communication with the interior of a cell of a battery and having a vent tube at its outer end establishing communication between the interior of the hollow body portion and the atmosphere and also provided with a valve seat, a valve disposed within the hollow body portion having a valve face cooperable with said valve seat, and a tiltable valve-actuating weight disposed within and supported on the hollow body for tilting movement and having a camming surface cooperable with the valve to move the same automatically to closed position when the plug is tilted beyond a predetermined angle in any direction, said tiltable valve-actuating weight having slots therein extending out through the lower end thereof and of different heights to facilitate drainage of electrolyte from the interior of the body portion back into the battery cell.

2,315,432
CASTING OF PHENOLIC RESINS
Edward L. Kropa, Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application April 26, 1940, Serial No. 331,755
3 Claims. (Cl. 260—58)

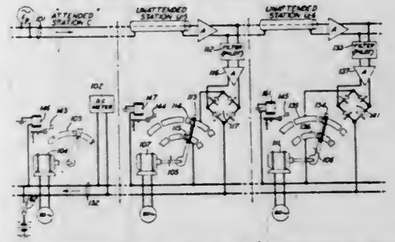
1. A process of producing a low temperature phenol-formaldehyde resin which comprises heating 1 part of phenol with about 2–2½ parts of a 37% solution of formaldehyde in water in the presence of about 0.03 part of caustic alkali at a temperature of about 60–80° C. for about 2–4 hours, evaporating the water under vacuum, the temperature of the resinous mass which tends to drop being maintained at or raised to about 60–80° C., adding sufficient acid selected from the group consisting of chloracetic acids and alpha-chlorpropionic acid to neutralize the caustic present, together with an excess of about 2–5%, adding about 0.1–0.2 part of glycerine, continuing the dehydration with heat and vacuum until a sample of the resinous mass upon being dropped in water at a temperature of about 11–13° C. forms a ball of just sufficient hardness to yield slightly to pressure between the fingers, then casting the resinous mass into molds and subjecting the cast resin to a temperature of about 80° C. for about 24–36 hours.

2,315,433
ANGLE PLATE FOR MACHINE TABLES
Michael J. Kulla, Cleveland, Ohio
Application March 11, 1942, Serial No. 434,285
1 Claim. (Cl. 90—60)



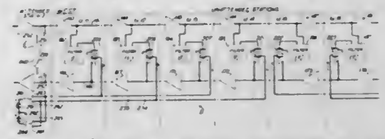
A reversible clamping plate for machine tables, comprising a body having clamping portions disposed at right angles with respect to each other, one of said right angled portions being substantially longer than the adjacent right angled portion, either of said clamping surfaces adapted to rest on a machine table supporting the plate, a wide rib formed integral with the rear surfaces of the clamping portions, connecting the clamping portions, said rib and clamping portions having bolt openings extending at right angles with respect to each other, in which securing bolts are positioned whereby said clamping plate may be secured to a machine table with either clamping portion resting on the table, and certain of said bolt openings adapted to receive clamping plate securing bolts and wedge supporting bolts.

2,315,434
TRANSMISSION SYSTEM
Frank A. Leibe, Quakertown, Pa., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 3, 1940, Serial No. 343,711
2 Claims. (Cl. 179—175.31)



2. In a signaling system, an attended station, a plurality of unattended repeater stations geographically separated from said attended station and from each other, a transmission line joining said attended station and said unattended stations, an auxiliary line also joining said attended station and said unattended stations, means at said attended station for applying a pilot current of predetermined frequency to said transmission line, means at each of said unattended stations for amplifying said pilot current, a shunt path at each of said unattended stations for diverting a portion of said pilot current after amplification by a respective one of said amplifying means, a filter in each of said paths for excluding therefrom currents of other than said predetermined frequency, means in each of said shunt paths for rectifying the respective portion of said pilot current diverted through the respective shunt path, means connected to said auxiliary line at said attended station for indicating the energy of direct current signals received over said auxiliary line from said unattended stations, and means for selectively connecting the outputs of each of said rectifying means to said auxiliary line.

2,315,435
TRANSMISSION SYSTEM
Frank A. Leibe, Quakertown, Pa., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 9, 1940, Serial No. 344,515
2 Claims. (Cl. 179—175.31)



1. In a signaling system comprising an attended station and a plurality of unattended repeater stations geographically separated from the attended station and from each other and having an east transmission line joining the attended station and the unattended stations for speech transmission in one direction and a west transmission line joining the attended station and the unattended stations for speech transmission in the opposite direction, means at the attended station for applying a testing current to the east line, a frequency selective path at each of the unattended stations joining when enabled the east line and the west line, the frequency of the testing current being within the band of fre-

quencies passed by the frequency selective paths, means for normally disabling said frequency selective paths and means at the attended station for selectively enabling said frequency selective paths one at a time for transmission of the testing current from the east line to the west line.

2,315,436
TYPEWRITER DESK
Forest L. W. Link, Silverton, Ohio, assignor to The Globe-Wernicke Company, Norwood, Ohio, a corporation of Ohio
Application February 26, 1942, Serial No. 432,422
3 Claims. (Cl. 312—29)



1. In combination with a desk pedestal and a typewriter shelf slidably and hingedly mounted on a wall in said pedestal, means to prevent inward movement of said shelf except when said shelf is in a substantially vertical position, said means comprising an abutment in connection with said shelf, and a locking lever pivoted on said pedestal and carrying means for cooperating with said abutment to prevent inward movement, and means acting upon said locking lever to shift the cooperating means to an inoperative position when said shelf substantially attains vertical position.

2,315,437
PERFORATOR FOR WELL PIPES
John C. Luccous, Dallas, Tex.
Application November 27, 1941, Serial No. 420,614
17 Claims. (Cl. 164—0.4)



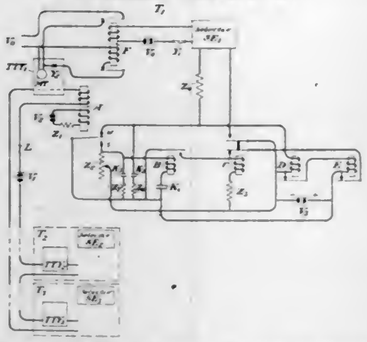
1. A well pipe perforator including, a base member having means for releasably anchoring it in a stationary position within a well pipe, elongate perforator means having its lower end swingably supported by the base member and having a perforating element at its upper end, an expanding member for engaging the upper end of the perforator means to move the perforating element to perforating position, and a sleeve member telescoping the perforator means and base member and having means for positively retracting the perforator element from perforating position.

2,315,438
COMBINATION OF BOOK MATCHES AND TOOTHPICKS
Giuseppe Maresca, Jackson Heights, N. Y., and Giovanni Pannone, Waterbury, Conn.
Application June 15, 1940, Serial No. 340,658
2 Claims. (Cl. 206—29)



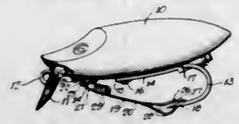
2. A book of matches having a cover encasing a sheet of paper matches, a sheet of toothpicks within said cover adjacent said matches, a sheet of sanitary material between said matches and toothpicks, and a second sheet of sanitary material disposed between the other face of said sheet of toothpicks and the adjacent wall of said cover, one of said sanitary sheets having its top edge portion bent downwards engaging over the top ends of the toothpicks completing the encasement of said sheet of toothpicks between the adjacent faces of said sanitary sheets, and means for holding said top edge portion in a lowered position over said toothpicks or in a raised position in which the top ends of said toothpicks are free to be individually separated from said sheet of toothpicks.

2,315,439
TELETYPEWRITER SYSTEM
John L. Maxwell, Redwood City, and Elmer Richard Shimmin, Del Paso Heights, Calif., assignors to American Telephone and Telegraph Company, a corporation of New York
Application October 24, 1941, Serial No. 416,298
7 Claims. (Cl. 178—2)



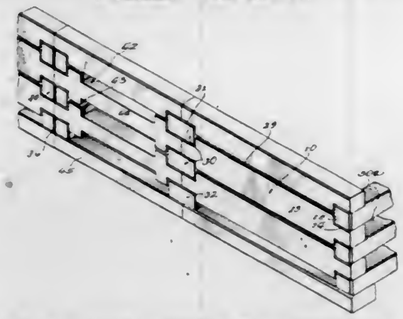
1. In a signaling system, the combination of a line over which may be transmitted teletypewriter signals and coded pulses which are not teletypewriter signals, selector apparatus to be operated only by said coded pulses, means responsive to a break signal received over said line to start said selector apparatus, means responsive to a predetermined coded pulse received over said line to progressively step said selector apparatus and operate it, and means responsive to teletypewriter signals received over said line to release said selector apparatus to prevent said selector from stepping in response to said teletypewriter signals.

2,315,440
WEED GUARDED FISH LURE
Joseph McArthur, Dowagiac, Mich., assignor to James Heddon's Sons, Dowagiac, Mich., a corporation of Michigan
Application May 13, 1941, Serial No. 393,204
4 Claims. (Cl. 43—39)



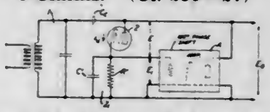
1. In a fish lure, the combination of a bait body, twin hooks rigidly secured to the under side of the body and recurved to present their points laterally below and beyond the sides of the body, a guard having rearwardly diverging prongs positioned to be cocked behind the respective hook points, and means for hinging the guard at its forward end to permit the same to swing freely when the prongs are disengaged from the hook points, said means including stops adapted to limit the upward movement of the guard prongs so that in cocking the prongs behind the hook points the same will be held under spring tension when cocked, the prongs being provided with coil spring sections to center the flexibility therein.

2,315,441
CRIBBING
William Lyle McDaniel, Highland Park, Ill., assignor to Massey Concrete Products Company, Chicago, Ill., a corporation of Delaware
Application August 23, 1940, Serial No. 353,817
9 Claims. (Cl. 61—47)



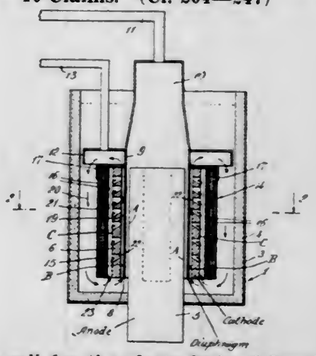
2. In a concrete cribbing, the combination of a plurality of stretchers and a plurality of headers, said headers and stretchers having their end portions provided with bearing surfaces, and said headers and stretchers being laid alternately one upon the other to form a cribbing wall, the stretchers having their end portions extending half way over said headers, and said headers being formed of two separated header portions joined midway of said headers at the joint of said stretchers by metallic reinforcing members extending from one portion to the other, said headers having adjacent plane surfaces at the midway juncture of said headers whereby settling is permitted of one of the portions of said wall, including the portions of said header on one side of said joint, and without damage to the surface of the stretchers and headers.

2,315,442
NEGATIVE FEEDBACK DETECTOR
James W. McRae, Neptune, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 11, 1942, Serial No. 430,383
8 Claims. (Cl. 250—27)



1. A wave translating system comprising a source of signal modulated carrier waves, a detector for demodulating said waves, an amplifier responsive to signal energy from said detector, means for transmitting signal energy from said detector to said amplifier, means connecting said source across a portion of the output circuit of said amplifier, and means for reducing the signal current in said detector comprising means for transmitting signal energy from the output circuit of said amplifier to said detector.

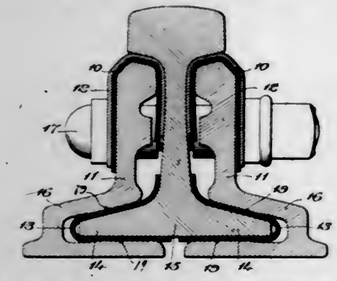
2,315,443
ELECTROLYTIC CELL FOR FUSED BATHS
Robert J. McNitt, Perth Amboy, N. J.
Application November 18, 1939, Serial No. 305,212
10 Claims. (Cl. 204—247)



1. In a cell for the electrolysis of fused mixed baths having a cathode, an anode and a diaphragm between the anode and the cathode, the active surfaces of the cathode and the anode being arranged in upright positions providing a narrow upright space therebetween, an upright space along the inactive side of the cathode connecting both above and below the cathode with the narrow upright space, said cell being arranged to be so operated that a stream of electrolyte circulates in a loop upward in the upright narrow space between the active side of the cathode and the diaphragm and downward in the upright space along the inactive side of the cathode, the improvement which comprises a thermal barrier including a partition arranged between the inactive side of the cathode and the downward stream of electrolyte extending substantially the length of the cathode and so spaced therefrom that a part of the stream of electrolyte flows into the space between the thermal barrier and the cathode, and a plurality of openings in the cathode through which the stream of electrolyte in the space between the thermal barrier

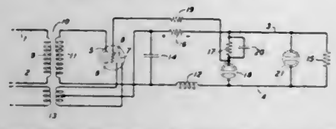
and the cathode flows into the upright narrow space between the active surface of the cathode and the diaphragm.

2,315,444
INSULATED RAIL JOINT AND INSULATION THEREFOR
John N. Meade, Denver, Colo., assignor to Poor & Company, New York, N. Y., a corporation of Delaware
Application February 6, 1942, Serial No. 429,840
5 Claims. (Cl. 238—155)



1. A piece of insulating material for a rail joint having directly secured to a face thereof holding means consisting of hard gritty material for biting engagement with a metal element of the joint when the joint is tightened.

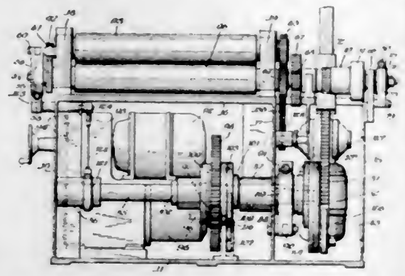
2,315,445
REGULATED RECTIFIER CIRCUIT
Louis E. Milarta, Hollis, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 31, 1940, Serial No. 354,953
5 Claims. (Cl. 175—363)



1. In combination, an alternating current supply circuit, a direct current load circuit a three-element gas-filled tube having the cathode and anode connected in series between said circuits, a first resistance element connected in series with the load circuit, a second resistance element connected in series with a cold cathode tube across the load circuit, means for impressing a negative potential on the grid of said tube according to the potential drop across said first resistance to maintain the load current constant irrespective of variation in the load circuit impedance, and means upon ignition of said cold cathode tube when the load voltage reaches a predetermined value for impressing the potential drop across said second resistance on the grid to block the tube.

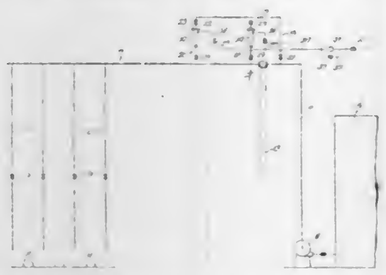
2,315,446
FEEDING AND STRAIGHTENING MACHINE
Edgar R. Miller, Chicago, Ill., Frederick M. Littell, Detroit, Mich., and Simeon Budlong, Chicago, Ill., assignors to F. J. Littell Machine Company, Chicago, Ill., a corporation of Illinois
Application December 30, 1940, Serial No. 372,316
7 Claims. (Cl. 271—2.4)

1. Apparatus for feeding metal strip material including a pair of feeding rolls operating to engage the material therebetween and to feed the material when the rolls are rotated, said feeding rolls drawing the material through a plurality of straightening rolls in advance of said feeding rolls gearing operatively connecting the rolls whereby the straightening and feeding rolls rotate in unison, an auxiliary drive shaft having geared relation with one of said feeding rolls, a clutch member on the shaft, a rotatable sleeve



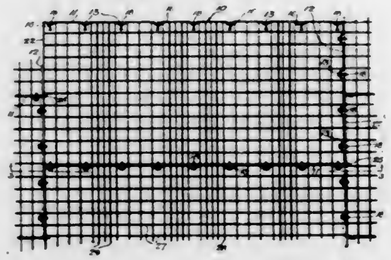
on the shaft, a rack having geared relation with the sleeve and rotating the sleeve in opposite directions as the rack reciprocates, said clutch member forming with said sleeve an overrunning clutch whereby rotation in one direction only is imparted to said auxiliary drive shaft and thus in a feeding direction to the rolls, and a brake yieldingly applying a friction holding action to the auxiliary drive shaft for eliminating back-lash in said gearing.

2,315,447
BOILER REFILLING SYSTEM
Frank W. Miller, Chicago, Ill., assignor to Franclare Company, Chicago, Ill., a corporation of Illinois
Application September 2, 1941, Serial No. 409,245
3 Claims. (Cl. 122—396)



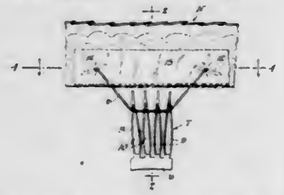
1. A system for supplying heated water at controlled temperatures comprising a water supply line, a valve therein, means for delivering water to be heated to said line, a plurality of heaters connected to receive water from said line forwardly of said valve and to return the water heated thereby into said line rearwardly of said valve, means whereby the quantity of water received by each of said heaters may be regulated, a line connected to each of said heaters for supplying heating medium thereto, means whereby the quantity of heating medium supplied to each heater may be regulated, and means so responsive to a predetermined pressure drop in said steam supply line as to restrict the steam flow through the steam supply line to a predetermined minimum.

2,315,448
RETICULATED MAT ASSEMBLY
Harry Nagin and Leon Nagin, Pittsburgh, Pa., assignors to Reliance Steel Products Company, McKeesport, Pa., a corporation of Pennsylvania
Application October 18, 1940, Serial No. 361,806
6 Claims. (Cl. 94—4)



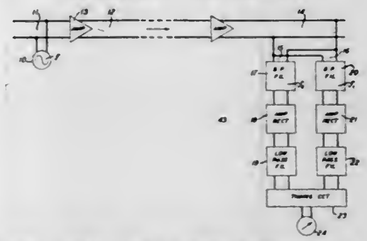
1. A landing mat comprising a series of detachably connected units, each unit comprising a polygonal grate having side members and having an adjacent pair of said side members provided with coves in their outer faces, quick-detachable rotatable fastener elements permanently associated with said side members and each including an irregularly shaped fastener head disposable in one of said coves and within the confines of the unit, the remaining side members of each unit having openings for the passage of the heads of the fasteners of associated units, a side member of each unit having at the upper portion thereof a rigid downwardly facing projecting hook portion adapted for engagement in a notch in a side member of an associated unit, said hook portions having rounded bill elements permitting disengagement of associated units by rotation of a given unit about the bill portion of the hook of an associated unit as a pivot.

2,315,449
HAT FASTENING DEVICE
Frances Nelkin, Great Neck, N. Y.
Application June 5, 1942, Serial No. 445,829
5 Claims. (Cl. 132—61)



5. The combination with a hat of a fastening device for holding the hat in position on the head of the wearer comprising an elastic cord formed with barbs at the two ends, the said barbs comprising relatively small members having points at one end and attached to the ends of the cord so that the cord projects from intermediate portions thereof, the said barbs being positioned against one surface of a portion of the hat, and the cord projecting through the portion of the hat to the opposite surface thereof so as to depend downwardly in a loop, and a comb comprising a backing strip and a plurality of apertured teeth projecting therefrom, the loop portion of the said cord extending through the two apertured teeth at opposite ends of the comb.

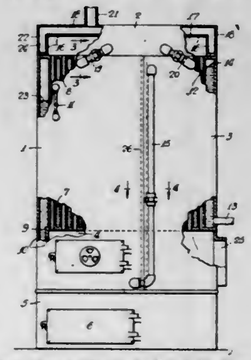
2,315,450
METHOD OF AND APPARATUS FOR LOCATING TRANSMISSION FAULTS
Harry Nyquist, Millburn, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 14, 1941, Serial No. 398,115
15 Claims. (Cl. 175—183)



1. The method of locating faults on a transmission line, which comprises utilizing an alternating current wave continuously transmitted on said line to effect transient alternating current waves, including at least two certain waves having different frequencies, in response to a fault interrupting transmission at an unknown point on said line, and utilizing the time delay between the individual arrivals of said two certain waves at another point on said line to ascertain the location of said unknown point with respect to said other point.

4. In combination, in apparatus for locating transmission faults, a line subject to a fault causing an interruption of transmission, means to apply an alternating current wave continuously to one point on said line, said wave giving rise to transient alternating current waves including at least two certain alternating current waves having different frequencies after the fault has occurred at an unknown point on said line, and means at another point on said line to observe selectively the arrival thereat of each of said two certain transient waves on a time differential basis.

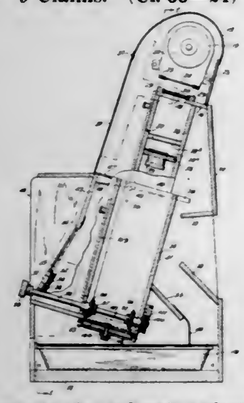
2,315,451
BOILER
George W. Parkton, Dalton, Pa., assignor of one-third to Glen Brundage, Great Bend, Pa.
Application May 18, 1942, Serial No. 443,408
9 Claims. (Cl. 122—122)



1. A boiler, including a first boiler unit, a second boiler unit, and a third unit comprising a jacketed smoke-box, said first boiler unit having upwardly directed flue gas passages, said second boiler unit having downwardly directed flue gas

passages, said third unit being positioned above the upper ends of said flue gas passages in both of said first and second units, a fluid connection between the upper part of said first boiler unit and said third unit, a fluid connection between the upper part of said second boiler unit and said third unit, and a fluid connection from one of said second and third units to the lower portion of said first boiler unit.

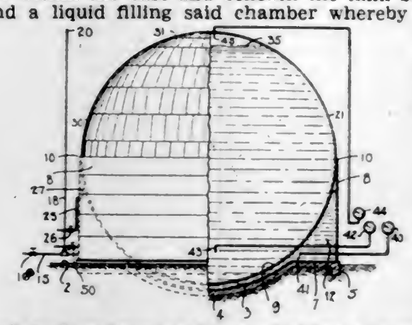
2,315,452
PHOTOGRAPHING APPARATUS
George N. Pifer, Cleveland Heights, Ohio
Application March 21, 1940, Serial No. 325,221
9 Claims. (Cl. 88—24)



1. An apparatus for enlarging photographs and for developing such enlargements directly therein comprising a casing, camera means therein, means for positioning a photograph in said camera means, a photographing and developing compartment in said casing operatively associated with said camera means, means for feeding a sheet of sensitized paper into photographing position in said compartment, light producing means, means including separate passages and a shutter control therefor for selectively causing the light produced by said last named means to pass through said camera means into the said compartment in the form of photographing light or to pass into said compartment independently of said camera means and in the form of developing light, and means for introducing developing solutions in said compartment and upon said sensitized sheet without admitting deleterious light to said compartment and operable and controllable from the exterior of the casing.

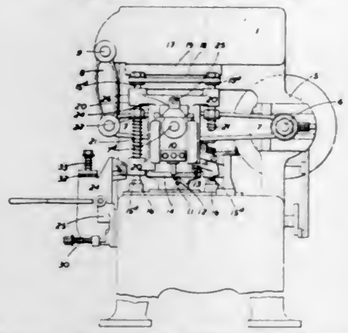
2,315,453
TANK SUPPORT
Ernest W. Pittman, Beaumont, Tex., assignor to The Petroleum Iron Works Company of Texas
Application August 1, 1938, Serial No. 222,463
2 Claims. (Cl. 220—18)

1. A tank comprising a closed tank body constructed to withstand internal fluid pressure and having a curved base portion of the diameter of the tank, a base for said body, said base comprising a supporting bottom having a depressed central portion substantially complementary to the curved base portion of the body, said base being uniformly supported from beneath, side walls attached to the supporting bottom and extending upwardly therefrom, the upper ends of said walls being sealably anchored to the curved base portion of the tank body to form an enclosed chamber within the base and beneath the tank body, and a liquid filling said chamber whereby the



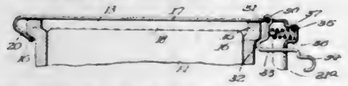
tank and contents are supported by a pressure exerted uniformly over the entire area of the base portion.

2,315,454
PRESS FOR CUTTING SHEET METAL
Charles Joseph Rhodes, Wakefield, England
Application April 2, 1942, Serial No. 437,338
In Great Britain March 24, 1941
7 Claims. (Cl. 164—87)



1. A press for cutting sheet metal comprising a ram carrying the upper die, means for operating said ram whereby it is caused to travel in an elliptical path, said means comprising a beam, a crank connected to one end of said beam, means swingly supporting the other end of the beam, a slide carrying the lower die plate, said slide being capable of movement lengthwise of the beam, a second slide carried by said first slide, in which the ram is capable of vertical movement, a stripper plate upon the ram, the punching and stripping being effected whilst the metal is firmly held by said stripper and die plates by which also the metal is fed to the die.

2,315,455
DUST-GUARD CAP FOR JOURNAL BOXES
William H. Sale, Sandston, Va.
Application May 5, 1941, Serial No. 391,903
4 Claims. (Cl. 286—6)



1. A dust guard cap formed of sheet metal comprising a top-wall adapted to extend over the dust guard chamber of a journal box, integral parallel side flanges depending from the top-wall, a depending integral hook at one end of the top wall shaped for wedging engagement with an external

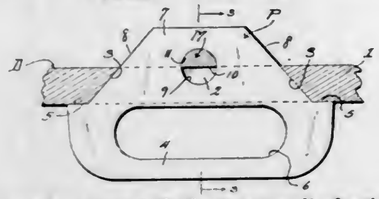
shoulder on one side of the box, an integral flange depending from the other end of the top-wall spaced from the side of the box and provided with an integral outwardly projecting cylindrical socket, a gripping element provided with a member disposed inwardly of the depending flange and having an inner end shaped for wedging engagement with an external shoulder on the other side of the box and a handle disposed at the outer side of the flange for retracting the engaging member, a coil-spring held in said socket and engaging the gripping element for forcing it into wedging engagement with the shoulder on the adjacent side of the box.

2,315,456
CALL INDICATOR
Luther G. Schimpf, St. George, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 15, 1940, Serial No. 335,205
3 Claims. (Cl. 177—337)



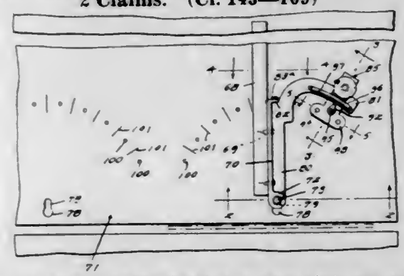
2. A gas discharge tube for use as a signaling means comprising a bulb containing an inert gas, a press within the bulb, a substantially flat circular end portion of said bulb through which a glow discharge may be viewed, a substantially flat semicircular cathode supported by said press, a substantially flat semicircular control anode supported by said press, said semicircular elements being in a plane parallel to said flat end portion of said bulb, an axially located anode supported by said press and extending to a point substantially midway between the plane of said semicircular elements and said flat end portion of said bulb whereby a glow discharge on the face of said cathode visible through said flat end portion may be produced, and a sustaining anode supported by said press and hidden from view behind said cathode.

2,315,457
DRAWER PULL
William H. Schuh, Aberdeen, Wash., assignor to Grays Harbor Chair & Mfg. Company, Hoquiam, Wash., a corporation of Washington
Application July 3, 1942, Serial No. 449,637
1 Claim. (Cl. 16—125)



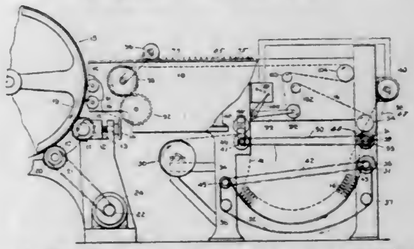
In combination with the front wall of a drawer having a slot therethrough with the end walls of the slot inclined inwardly and rearwardly, a pull having a rear plate extension for insertion from without through the slot of the wall, the ends of the plate extension being inclined similar to the inclined ends of the slot, the pull extending beyond the ends of the plate extension whereby shoulders are provided for contact with the outer face of the front wall, an opening in the central portion of the plate extension, said opening being so positioned as to project beyond the inner face of the front wall when the plate extension is inserted through the slot and the shoulders of the pull are in contact with the front wall, and a wedge member insertable from above through the projected portion of the opening in the plate extension, said wedge member having a flat face for direct contact with the inner face of the front wall.

2,315,458
WORK GUIDE FOR SAW TABLES
Gilbert J. Sellmeyer, Indianapolis, Ind.
Original application December 6, 1940, Serial No. 368,928. Divided and this application June 11, 1941, Serial No. 397,600
2 Claims. (Cl. 143—169)



1. In a saw table having a saw slot, an arcuate series of openings and a keyhole slot coaxial with the arc of said openings; an elongated work guide, a vertical pin carried by one end of said guide having a reduced shank and a head engageable in said keyhole slot, a laterally projecting arcuate arm fixed to said guide, a block engageable with the table, a pair of pins carried by said block engageable with selected pairs of said openings, an L-shaped clamping member on said block, means for exerting pressure on said clamping member for holding said arm in adjusted position relative to said block, an arcuate scale secured to said arm, and an indicator secured to said block, said indicator coacting with said scale whereby said arm may be adjusted relative to said block accurately to a predetermined position.

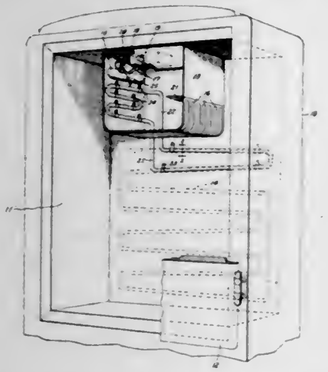
2,315,459
TEXTILE PRINTING APPARATUS
Stephen B. Stafford, Oxford, Mass., assignor to Rice Barton Corporation, a corporation of Massachusetts
Application October 24, 1940, Serial No. 362,502
4 Claims. (Cl. 101—178)



1. A textile printing apparatus comprising a printing machine having a power driven printing roll and a backing cylinder which draw the fabric forward at a given rate for the printing operation, means providing a supply of fabric of

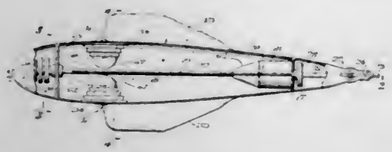
non-controlled tension, a device for stretching the fabric to a uniform width, mechanism located between said device and the printing zone for holding the fabric under a substantially uniform tension as it enters the printing zone, driving mechanism for feeding the fabric to the stretching device and means governed by movement of the fabric which controls said driving mechanism and causes the fabric to be held under tension and to move at a controlled rate as it enters the stretching device.

2,315,460
REFRIGERATING MACHINE
Carl H. Steenstrup, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application July 7, 1942, Serial No. 449,979
8 Claims. (Cl. 62—125)



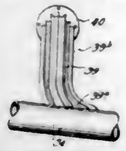
1. A refrigerating machine including a cabinet, a primary cooling element for cooling one portion of said cabinet, a secondary cooling element arranged in heat exchange relationship with said primary element for removing heat from another portion of said cabinet, means dependent upon the temperature of said primary element for controlling the operation thereof, and means dependent upon a load demand on said secondary element for modifying the operation of said temperature dependent means.

2,315,461
TOY SUBMARINE
Frank E. Thomas, Chicago, Ill.
Application February 16, 1942, Serial No. 431,070
6 Claims. (Cl. 46—94)



1. In a device of the character described, collapsible submerging means adapted to submerge the said device, comprising, bellows located on opposed sides within the said device, and a screw fed cylindrical nut having conically-shaped portions adapted to collapse the said collapsible submerging means.

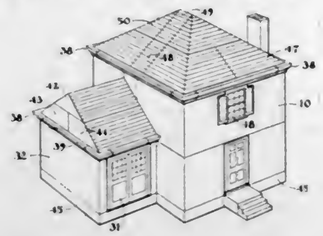
2,315,462
COMBINED ENGINE AND COOLING SYSTEM THEREFOR
Steven L. Till, Chicago, Ill., assignor of one-half to John O. Enell and Michael M. Phillips, both of Cook County, Ill.
Application October 17, 1940, Serial No. 361,517
1 Claim. (Cl. 123—171)



In combination with an internal combustion engine having one or more combustion chambers and provided with fuel intake, gas exhaust means and means for regulating said fuel; a block containing a plurality of cylinders forming combustion chambers; an elongated hood mounted over the upper area above said cylinders and having a flange-defined inlet opening beyond the end of said cylinders, said hood having a flange-defined upper end opening and an upwardly and horizontally extending portion defining an intermediate air outlet port; a continuous depending metal apron secured to the lower edges of said hood and extending about said cylinders and spaced therefrom and providing a substantially continuous downwardly opening air inlet passage, said inlet opening of said hood communicating with said air inlet passage; a main exhaust pipe extending along the sides of said cylinders and terminating in a flanged end portion at its front end and having a plurality of spaced apart openings therein; an arcuate metal air conduit having one end secured to the forward air outlet end of said hood and having its other end connected to the front flanged end of said main exhaust pipe; a plurality of exhaust conduits communicatively connected at their upper ends with the exhaust ports of said cylinders respectively and having their lower ends curved in a rearward direction and communicatively connected with said spaced apart openings of said main exhaust pipe respectively; a thermostatically controlled valve mounted in the forward end of said main exhaust pipe and adapted to be regulated by the heat responsive means to control the opening thereof, said individual exhaust conduits from each of said engine exhaust ports being adapted to direct the gases exhausted into said main exhaust pipe in a generally rearward direction to thereby mainatin partial vacuum areas in said main exhaust pipe to thereby maintain, during engine operation, a circulation of air through said substantially continuous inlet passage and in heat exchange relation with said cylinders and through said hood and downwardly through said arcuate air conduit and outwardly through said exhaust pipe; and an air conduit connecting the opening of said intermediate upper opening of said hood and the air intake portion of a carburetor to thereby cause a part of the air heated by heat exchange with said cylinders to flow to said carburetor.

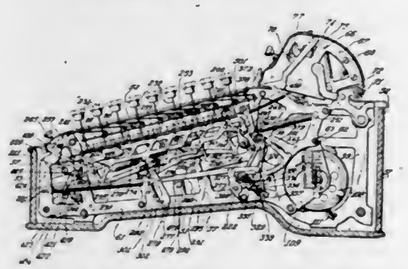
2,315,463
ARCHITECTURAL MODEL
Clark N. Tingley, Johnson City, and Floyd K. Harper, Binghamton, N. Y.
Application March 24, 1942, Serial No. 436,034
9 Claims. (Cl. 35—16)

1. A building set comprising a plurality of three-dimensional units each representative of a room space and the plan dimensions of which are selected multiples of the module twenty-one



inches reduced to a desired scale for models of housing whereby wide flexibility in matching relationships is obtained.

2,315,464
CALCULATING MACHINE
Joseph A. V. Turck, Wilmette, Ill., assignor to Felt & Tarrant Manufacturing Company, Chicago, Ill., a corporation of Illinois
Original application May 16, 1930, Serial No. 452,876. Divided and this application July 9, 1938, Serial No. 218,449
9 Claims. (Cl. 235—130)



1. In a calculating machine having actuating mechanism arranged in denominational orders, a plurality of orders of digital keys for controlling the operation of said actuating mechanism, an accumulator mechanism adapted to be actuated by said orders of actuating mechanism when in operative relationship therewith, and a carriage supporting said accumulator mechanism and adapted to be elevated to enable shifting thereof across said orders to vary the denominational relationship of said accumulator mechanism with said orders of actuating mechanism; means operable by the elevation of said carriage as said accumulator mechanism is moved out of operative relationship with said actuating mechanism, and means operable by said last means for locking said keys.

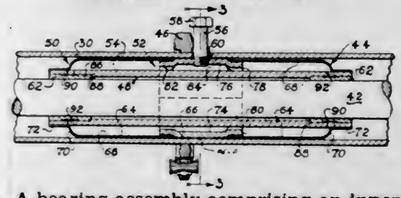
2,315,465
DENTAL IMPRESSION MATERIAL
Vance V. Vallandigham, Chicago, Ill., assignor to Coe Laboratories, Inc., Chicago, Ill., a corporation of Illinois
No Drawing. Application July 21, 1941, Serial No. 403,363
25 Claims. (Cl. 18—47)

1. An impression material comprising a member of the group consisting of sodium, potassium, and ammonium pectate, and a member of the group consisting of the soluble and slightly soluble salts of calcium, barium and strontium.

2,315,466
WELDING ROD
Joseph J. Vetter, Hackensack, N. J., assignor to Natural Products Refining Co., Jersey City, N. J., a corporation of Delaware
No Drawing. Application March 5, 1942, Serial No. 433,444
2 Claims. (Cl. 219—8)

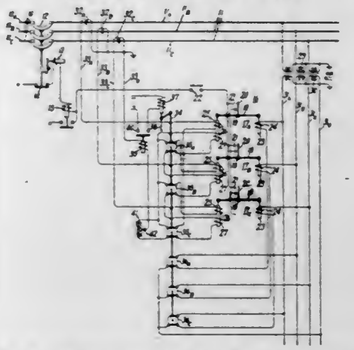
1. A welding rod comprising 15 to 25% by weight of chromium, 1 to 3% by weight of silicon and 1 to 6% by weight of carbon, the balance being substantially comprised of iron any other constituent being not more than ½% of the whole by weight.

2,315,467
DRIVE SHAFT CENTER BEARING
Nils Erik Wahlberg and Wallace S. Berry, Kenosha, and Joseph F. Sladky, Racine, Wis., assignors to Nash-Kelvinator Corporation, Kenosha, Wis., a corporation of Maryland
Application September 11, 1941, Serial No. 410,400
9 Claims. (Cl. 308—65)



3. A bearing assembly comprising an inner tubular member, sleeves of anti-friction material supported at the ends of said tubular member, an outer sleeve having its ends sealed to the ends of said tubular member and its central portion spaced from said tubular member to form an annular reservoir, a spacer ring extending between said tubular member and said sleeve in the middle of said bearing assembly and defining a second annular space located around the center of said tubular member, and means formed on said spacer member permitting communication between said second annular space and said annular reservoir.

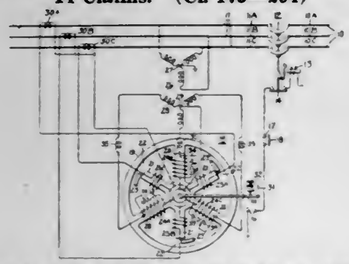
2,315,468
PROTECTIVE SYSTEM
Albert R. van C. Warrington, Wallingford, Pa., assignor to General Electric Company, a corporation of New York
Application January 21, 1941, Serial No. 375,208
10 Claims. (Cl. 175—294)



1. In a protective system for an electric circuit comprising an electroresponsive device hav-

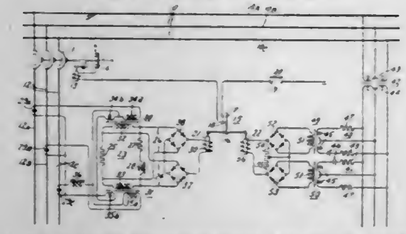
ing current windings and a potential winding, means for normally connecting said potential winding for energization in accordance with the potential between two of the conductors of said circuit and for connecting said current windings so as to be energized in response to the line current flowing in said conductors, and means operative in response to a ground fault on said circuit for connecting said potential winding for energization in accordance with the potential to ground of the grounded conductor and for energizing said current windings in accordance with the sum of the line and a predetermined proportion of the residual currents.

2,315,469
PROTECTIVE SYSTEM
Albert R. van C. Warrington, Wallingford, Pa., assignor to General Electric Company, a corporation of New York
Application March 14, 1941, Serial No. 383,307
14 Claims. (Cl. 175—294)



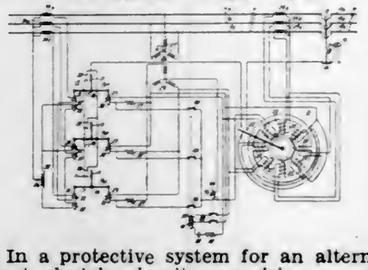
1. In a distance-responsive relay for protecting a polyphase alternating-current circuit, having only one movable member comprising a multiple loop winding for operating a control circuit, the loops of said multiple loop winding being so constructed and arranged that all of the loops thereof may be intersected by a single plane perpendicular to the axis of movement of said movable member, means for applying torques to said movable member including current and potential windings, means for energizing said windings from said polyphase alternating-current circuit to cause operation of said distance-responsive relay in response to different types of faults which might occur on said circuit.

2,315,470
PROTECTIVE SYSTEM
Albert R. van C. Warrington, Wallingford, Pa., assignor to General Electric Company, a corporation of New York
Application March 14, 1941, Serial No. 383,308
8 Claims. (Cl. 175—294)



1. In a distance-responsive device for protecting a polyphase alternating-current circuit, a single movable member for operating a control circuit, means for exerting a torque on said member substantially proportional to the sum of the magnitudes of the positive and negative-phase-sequence components of current of said circuit and an opposing torque substantially proportional to the difference between the magnitudes of the positive and negative-phase-sequence components, respectively, of the voltage of said circuit.

2,315,471
PROTECTIVE SYSTEM
Albert R. van C. Warrington, Wallingford, Pa., assignor to General Electric Company, a corporation of New York
Application March 14, 1941, Serial No. 383,309
10 Claims. (Cl. 175—294)

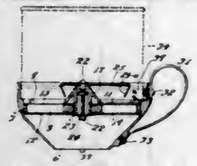


1. In a protective system for an alternating-current electric circuit comprising an electroresponsive device having current and potential windings, means for energizing said current and potential windings in accordance with the currents and potentials of said alternating-current circuit, and phase-sequence relay means responsive to the presence of negative-phase-sequence quantities without the presence of zero-phase-sequence quantities for changing the connections of one of the windings of said electroresponsive device.

2,315,472
MANUFACTURE OF BARIUM CARBONATE
Isaac Ephraim Weber, Luton, and William Stanley Wood, Harpenden, England
No Drawing. Application January 12, 1940, Serial No. 313,642. In Great Britain December 14, 1938
12 Claims. (Cl. 23—66)

1. In the manufacture of barium carbonate comprising the production of an aqueous solution of an alkali salt of carbonic acid and interaction of the solution with an aqueous solution of a barium salt of hydrosulphuric acid, the step which consists in treating the aqueous solution of the alkali salt of carbonic acid with a water-soluble sulphide and removing insoluble matter from the solution before interaction with the barium salt of hydrosulphuric acid.

2,315,473
MEASURING DISPENSER
Frank E. Wolcott, West Hartford, Conn., assignor to The Silex Company, Hartford, Conn., a corporation of Connecticut
Application March 30, 1940. Serial No. 327,012
5 Claims. (Cl. 221—116)



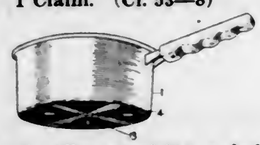
1. A dispenser of the character described comprising a mechanism including a stationary measuring disc having a series of apertures providing measuring recesses therein, movable inlet and outlet discs disposed at opposite sides of said measuring disc, an axial member projecting above said inlet disc, and agitating means carried by said axial member; said agitating means including V-shaped wire members fitting within notches in the top of said axial member and retained in said notches by means of a fastening member extending through said axial member.

2,315,474
FLATIRON STAND
Frank E. Wolcott, West Hartford, Conn., assignor to The Silex Company, Hartford, Conn., a corporation of Connecticut
Application June 22, 1940, Serial No. 341,909
5 Claims. (Cl. 248—117.2)



5. A flat iron stand of the character described comprising a plate formed to provide a run-way, a supporting portion inclined downwardly from said run-way and means providing a three point support for said plate; one of said points being provided by an outward curvature of the leading edge of said run-way.

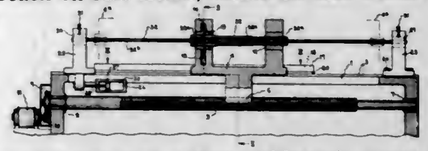
2,315,475
ENAMELED COOKING UTENSIL
Robert S. Cobb, West Lafayette, and Walter B. Moore, Coshocton, Ohio, assignors to The Moore Enameling & Manufacturing Company, West Lafayette, Ohio, a corporation of Ohio
Application April 23, 1941, Serial No. 389,910
1 Claim. (Cl. 53—8)



A cooking utensil comprising a hollow body portion formed from pressed steel, said hollow body portion comprising a vertical side wall and a substantially flat bottom joined to each other by a curved corner portion, the interior surface of said side wall, said bottom portion and said curved corner portion being covered with a continuous layer of porcelain or similar enamel, the exterior surface of said side wall being covered with a continuous layer of porcelain or similar enamel which extends downwardly and around said corner portion and terminates in a feather edge at the termination of said corner portion so that the exterior surface of said bottom is free of enamel, and said bottom having a metallic coloring substance applied and fused to its exterior surface.

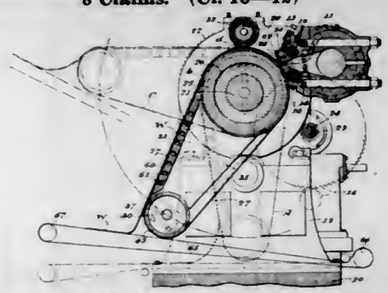
2,315,476
BROACHING MACHINE
Willard L. Groene, Cincinnati, Ohio, assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio, a corporation of Delaware
Application June 17, 1941, Serial No. 398,457
5 Claims. (Cl. 90—28.1)

1. In a broaching machine, a frame, a work holder on said frame for holding a tubular work piece in said work holder, a broach adapted to be presented through a bore in said work piece, means for rigidly supporting one end of said broach on said frame, means on said frame for



gripping the other end of said broach, means for causing relative movement between said supporting means so as to hold said broach in tension when said supporting means are gripped on said broach, and means for effecting relative movement of said work holder and said broach.

2,315,477
APPARATUS FOR FORMING SHEETS OF PLASTIC MATERIAL
Frederic A. Parkhurst, Bethesda, Md., assignor, by mesne assignments, to Monsanto Chemical Company, a corporation of Delaware
Application March 3, 1938, Serial No. 193,705
8 Claims. (Cl. 18—12)

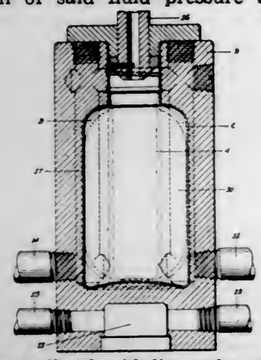


1. In an apparatus for forming a web from plastic material and in combination, pressure extrusion means provided with heating means for depositing a layer of heated material to form a web of uniform thickness, a single endless belt to receive the web, means for supporting and heating the belt at and adjacent the point of deposit, and cooling means spaced apart from the heating means for cooling the belt as it passes over said cooling means.

2,315,478
METHOD OF PRODUCING PLASTIC CONTAINERS
Frederic A. Parkhurst, Suffield, Conn., assignor to Monsanto Chemical Company, a corporation of Delaware
Application September 16, 1938, Serial No. 230,223
5 Claims. (Cl. 18—55)

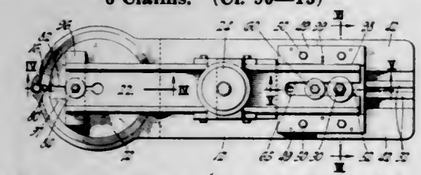
1. A method of forming a hollow article having an open end, an enlarged portion and a restricted portion between the open end and enlarged portion from an organic thermoplastic material which comprises molding a preform of said article from said organic thermoplastic material, said preform having walls of varying thickness, the thickness being greater at the zones of greatest subsequent expansion, placing said preform in a die, internally subjecting said preform to fluid pressure while in said die and simultaneously applying heat externally to said preform to heat it to a temperature sufficiently high to soften the organic thermoplastic mate-

rial thereof so that it will tend to thin out under the action of said fluid pressure and expand



against the walls of said die, and cooling the expanded preform to set the organic thermoplastic material.

2,315,479
OVAL CUTTING MACHINE
Arthur A. Schwartz, Buffalo, N. Y., assignor to Bell Aircraft Corporation, Buffalo, N. Y.
Application November 9, 1940, Serial No. 365,084
6 Claims. (Cl. 90—15)

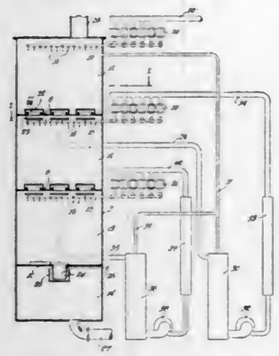


4. A machine tool comprising a base plate, an elongate cross head mounted thereon, a stock shaping tool carried by said cross head and arranged for rotation on an axis perpendicular to said elongate cross head and medially thereof, crank means mounted upon said base plate and pivotally engaging an end of said cross head for moving the same in a circular path upon rotation of the crank means, means for adjusting the radius of said circular path by shifting the pivotal connection between said cross head and said crank means, means adjacent the other end of said cross head mounted for longitudinal sliding movement on said base plate, a pivot carried by said slide and a slot in said cross head for engagement with said pivot, and locking means for securing said pivot at various positions in said slot for varying the effective length of said cross head by varying the distance between its pivotal connection with the crank and its securement to said pivot.

2,315,480
METHOD FOR RECONDITIONING USED SOLUTIZER SOLUTIONS
Lawson E. Border, Wood River, Ill., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application June 9, 1941, Serial No. 397,212
3 Claims. (Cl. 252—189)

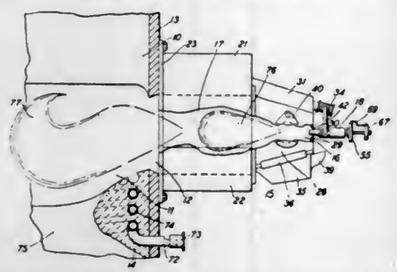
1. A process for reconditioning a contaminated aqueous alkali metal hydroxide solution which was used to extract weak acids from a sour hydrocarbon distillate and regenerated by steam stripping whereby resinous emulsifiers accumulated in the aqueous solution, comprising contacting said aqueous solution with a water treating sludge to entrain resinous emulsifier, and separating said sludge containing entrained emulsifier from said solution.

2,315,481
METHOD AND APPARATUS FOR DEGASIFYING LIQUIDS
Montrose K. Drewry, Milwaukee, and Maurice E. Fitze, Hales Corners, Wis., assignors to Wisconsin Electric Power Company, Milwaukee, Wis., a corporation of Wisconsin
Application December 30, 1940, Serial No. 372,278
2 Claims. (Cl. 183—2.5)



1. The method of degasifying liquids which comprises successively spraying at pressures above atmosphere the same body of liquid in stages into a series of chambers to distribute it therein in finely divided condition, adding heat to the liquid between successive sprayings, maintaining in said chambers a continuously changing atmosphere of mixed vapor and gas having a low concentration of the gas to be removed from the liquid and at a pressure which will cause a portion of the liquid to vaporize in each stage as it is being sprayed, and removing the changing atmosphere of mixed vapor and gas from a later stage through the chamber of an earlier stage to assist in sweeping out mixed vapor and gas in this earlier stage.

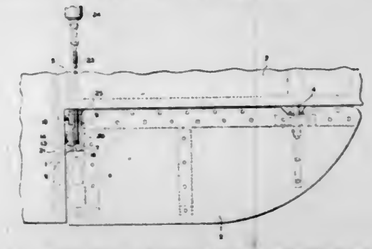
2,315,482
HYDROCARBON FUEL BURNER
Oscar Fortis, Williston Park, N. Y., assignor to Jack W. Hearst, Chicago, Ill
Application April 3, 1941, Serial No. 386,576
1 Claim. (Cl. 158—73)



A liquid fuel burning furnace having a casing with a hollow interior, a refractory base, a coil embedded in said refractory base and leading on one end to said hollow interior, and an air inlet valve at-

tached to and in communication with the other end of said coil and extending through said refractory base to the exterior thereof, said casing having in its front portion an open mouth, and a preheating unit comprising a base, a jacket contacting said base and arched to provide a mixing chamber therebetween, said mixing chamber having open rear and front portions, a flange plate attached to said base and said jacket, said flange plate attached to the casing of said furnace so that the open rear portion of the mixing chamber is in communication with the open mouth of the furnace, a forwardly converging front housing contacting said jacket and said base at its larger rear portion, said front housing having therein an ignition and preheating chamber with open rear and front portions, said open rear portion of said ignition and preheating chamber communicating with said open front portion of said mixing chamber, said jacket having a steam forming chamber therein, a steam supply pipe extending from said steam forming chamber through said ignition and preheating chamber to the exterior thereof, a hollow connection attached on one end to said steam supply pipe, an oil supply nozzle having a front opening attached to the other end of said steam supply pipe so that the front opening of said nozzle is positioned within the front opening of said ignition and preheating chamber, and ignition and preheating means within said ignition and preheating chamber.

2,315,483
ADJUSTING UNIT
Frank M. Salisbury and Robert H. Dufort, Kenmore, N. Y., assignors to Bell Aircraft Corporation, Buffalo, N. Y., a corporation of New York
Application April 28, 1939, Serial No. 270,670
4 Claims. (Cl. 244—87)

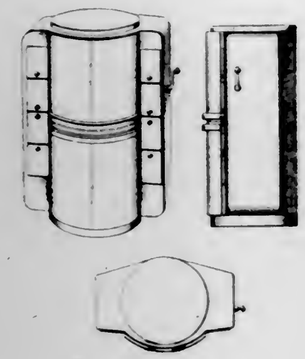


1. An adjusting device for an airplane control surface comprising a cable to actuate the control surface, a base mounted on the control surface, a pair of parallel slots formed in the base, a clamp movably mounted in said slots, said clamp being adapted to engage the said cable, a bolt movably mounted on the base, said bolt engaging the clamp, and means to move the bolt in a path parallel to the chord of the control surface thereby tightening the control cable.

DESIGNS

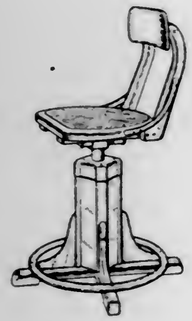
MARCH 30, 1943

135,332
DESIGN FOR A REFRIGERATOR
Egmont Arens, New York, N. Y.
Application February 3, 1943, Serial No. 109,413
Term of patent 7 years



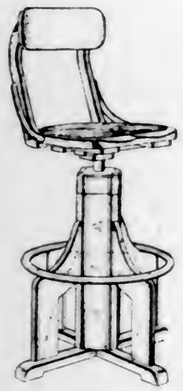
The ornamental design for a refrigerator, substantially as shown.

135,333
DESIGN FOR A TELEPHONE OPERATOR'S CHAIR
Wolfe W. Brown, Short Hills, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 3, 1943, Serial No. 109,414
Term of patent 14 years



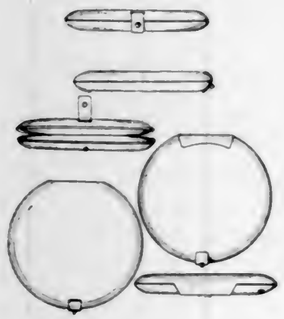
The ornamental design for a telephone operator's chair, as shown.

135,334
DESIGN FOR A TELEPHONE OPERATOR'S CHAIR
Wolfe W. Brown, Short Hills, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 3, 1943, Serial No. 109,415
Term of patent 14 years



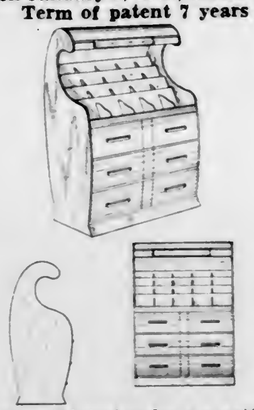
The ornamental design for a telephone operator's chair, as shown.

135,335
DESIGN FOR A COMPACT OR SIMILAR ARTICLE
Alfred A. Flaster, New York, N. Y.
Application February 17, 1943, Serial No. 109,564
Term of patent 3½ years



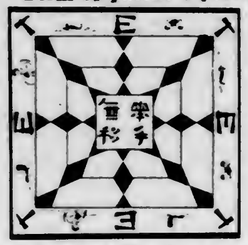
The ornamental design for a compact or similar article, substantially as shown.

135,336
DESIGN FOR A GREETING CARD DISPLAY CABINET
Minnie Grossberg, Cleveland, Ohio, assignor to American Greeting Publishers, Cleveland, Ohio, a partnership
Application January 6, 1943, Serial No. 109,206
Term of patent 7 years



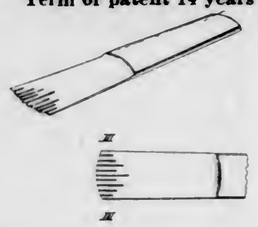
The ornamental design for a greeting card display cabinet, as shown.

135,337
DESIGN FOR A GAME BOARD OR SIMILAR ARTICLE
Tee Ka Chay, Brooklyn, N. Y.
Application August 22, 1942, Serial No. 107,999
Term of patent 7 years



The ornamental design for a game board or similar article, substantially as shown and described.

135,338
DESIGN FOR A REED FOR MUSICAL INSTRUMENTS
Elver J. Fitchhorn, Delaware, Ohio
Application January 27, 1943, Serial No. 109,354
Term of patent 14 years



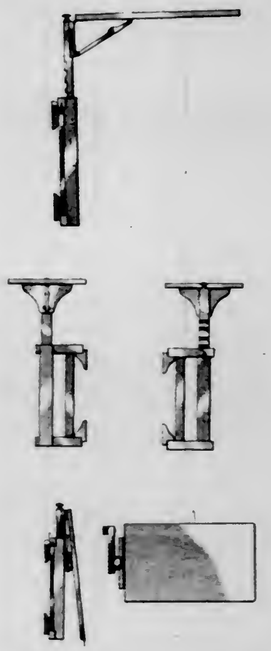
The ornamental design for a reed for musical instruments, as shown.

135,339
DESIGN FOR A SLIPPER
Harry E. Hanson, St. Paul, Minn.
Application June 25, 1942, Serial No. 107,338
Term of patent 3½ years



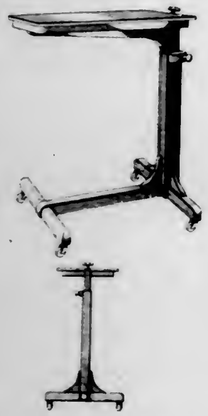
The ornamental design for a slipper, as shown and described.

135,340
DESIGN FOR AN OVER-BED TABLE
William A. Hillenbrand, Franklin County, Ind., assignor to Hill-Rom Company, Inc., Batesville, Ind., a corporation of Indiana
Application January 20, 1943, Serial No. 109,305
Term of patent 14 years



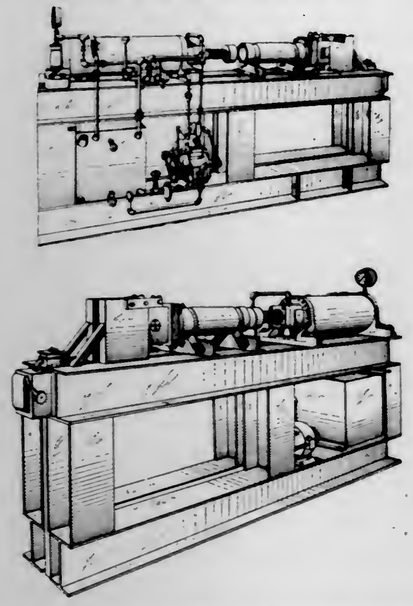
The ornamental design for an over-bed table, substantially as shown and described.

135,341
DESIGN FOR AN OVER-BED TABLE
William A. Hillenbrand, Franklin County, Ind., assignor to Hill-Rom Company, Inc., Batesville, Ind., a corporation of Indiana
Application January 30, 1943, Serial No. 109,392
Term of patent 14 years



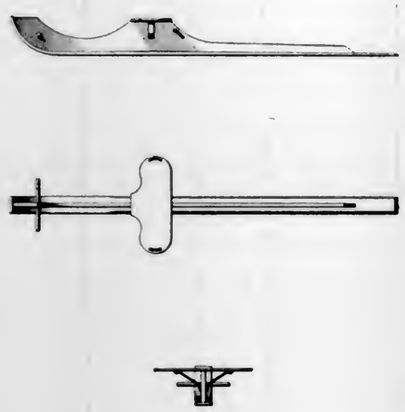
The ornamental design for an over-bed table, substantially as shown.

135,342
DESIGN FOR A WELDING ELECTRODE EXTRUDER COVERING MACHINE
Claude J. Holslag, South Orange, N. J., assignor to Electric Arc, Inc., Newark, N. J.
Application September 22, 1942, Serial No. 108,315
Term of patent 14 years



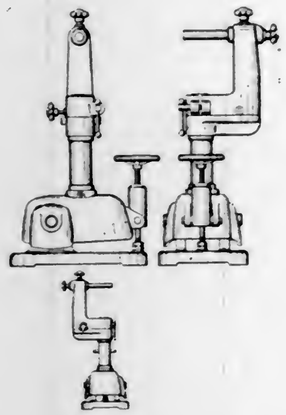
The ornamental design for a welding electrode extruder covering machine, as shown.

135,343
DESIGN FOR A SKI GLIDER
George Hopkins, Rochester, N. Y.
Application August 13, 1942. Serial No. 107,922
Term of patent 3½ years



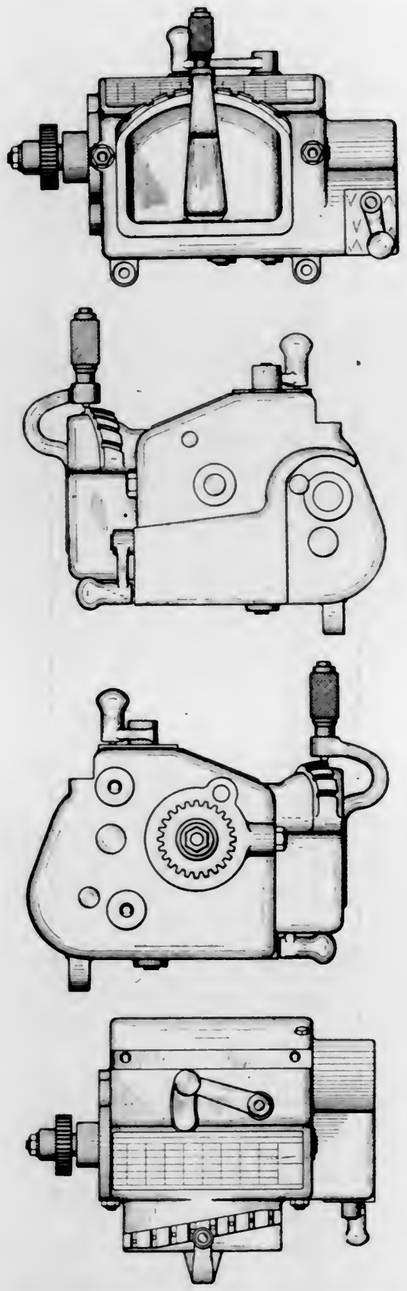
The ornamental design for a ski glider, as shown.

135,344
DESIGN FOR A BACKSTAND FOR BELT POLISHING MACHINES
Edward C. Krueger, Otsego, Mich., assignor to Hammond Machinery Builders, Inc., Kalamazoo, Mich., a corporation of Michigan
Application January 11, 1943, Serial No. 109,231
Term of patent 14 years



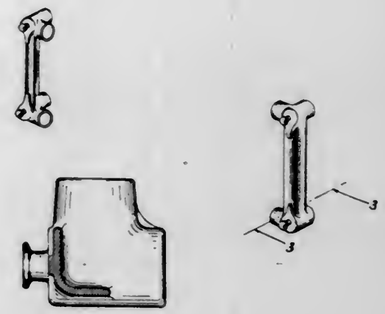
The ornamental design for a backstand for belt polishing machines, substantially as shown.

135,345
DESIGN FOR A FEEDBOX FOR LATHES
Richard K. Le Blond, Cincinnati, Ohio
Application October 15, 1942, Serial No. 108,534
Term of patent 14 years



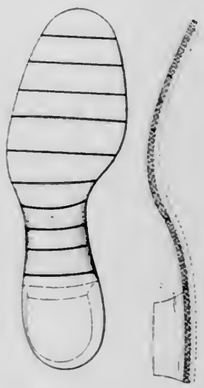
The ornamental design for a feed box for lathes, substantially as shown.

135,346
DESIGN FOR A CORNER MEMBER FOR A SLEEPING BERTH OR THE LIKE
George W. Latimer, Baltimore, Md., assignor to Foster Brothers Mfg. Co., Inc., a corporation of Maryland
Application December 12, 1942, Serial No. 109,026
Term of patent 7 years



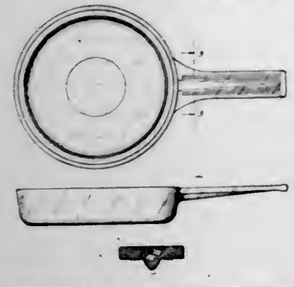
The ornamental design for a corner member for a sleeping berth or the like, substantially as shown and described.

135,347
DESIGN FOR A COMBINED SOLE AND HEEL OF A SHOE
Harold L. Pierson, Rochester, N. Y., assignor to E. P. Reed & Co., Rochester, N. Y., a corporation of New York
Application August 6, 1942, Serial No. 107,830
Term of patent 7 years



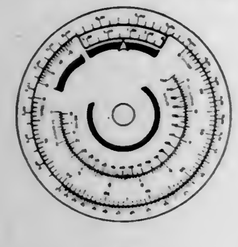
The ornamental design for a combined sole and heel of a shoe, as shown.

135,348
DESIGN FOR A SKILLET
Karl Schneider, Chicago, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application November 5, 1942, Serial No. 108,703
Term of patent 3½ years



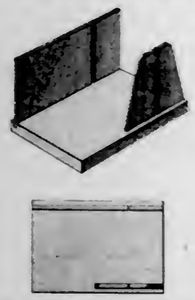
The ornamental design for a skillet, substantially as shown and described.

135,349
DESIGN FOR A LENS COMPUTER
Scott Sterling, Irondequoit, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application January 29, 1943, Serial No. 109,358
Term of patent 14 years



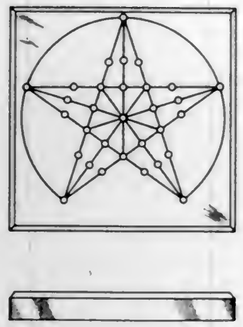
The ornamental design for a lens computer, substantially as shown.

135,350
DESIGN FOR A BREAD SLICING BOARD
Carl E. Ulrich, Chicago, Ill.
Application February 1, 1943, Serial No. 109,403
Term of patent 3½ years



The ornamental design for a bread slicing board, as shown.

135,351
DESIGN FOR A GAME BOARD
Dale Van Horn, Lincoln, Nebr.
Application January 9, 1943, Serial No. 109,226
Term of patent 7 years



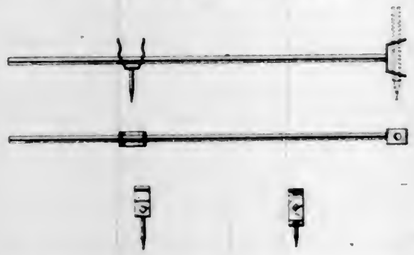
The ornamental design for a game board, as shown.

135,352
DESIGN FOR A FINGER RING
Henry J. Bihari, Bronx, N. Y.
Application January 7, 1943, Serial No. 109,219
Term of patent 3½ years



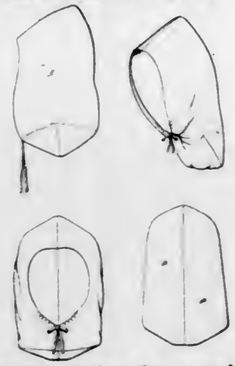
The ornamental design for a finger ring, as shown.

135,353
DESIGN FOR A BEAM COMPASS
Harold C. Gile, Kittery, Maine
Application February 3, 1943, Serial No. 109,436
Term of patent 14 years



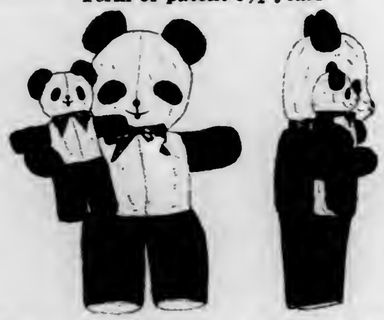
The ornamental design for a beam compass, as shown.

135,354
DESIGN FOR A SAFETY CAP
Zinaida Harpignies, Kew Gardens, N. Y.
Application February 16, 1943, Serial No. 109,558
Term of patent 14 years



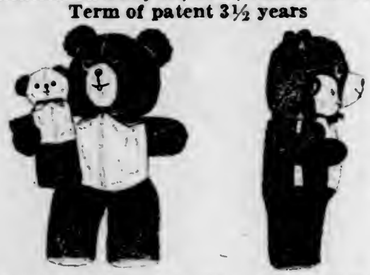
The ornamental design for a safety cap, as shown.

135,355
DESIGN FOR A STUFFED TOY ANIMAL UNIT
Benjamin F. Michtom, New Rochelle, N. Y., assignor to Ideal Novelty & Toy Co., Long Island City, N. Y., a corporation of New York
Application January 22, 1943, Serial No. 109,326
Term of patent 3½ years



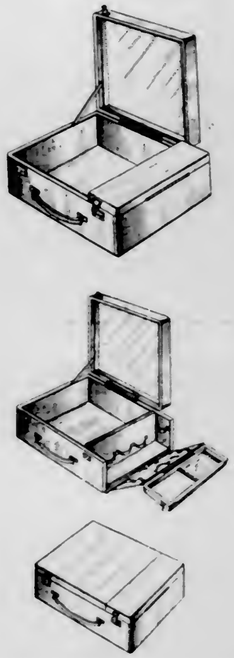
The ornamental design for a stuffed toy animal unit, as shown.

135,356
DESIGN FOR A STUFFED TOY ANIMAL UNIT
Benjamin F. Michtom, New Rochelle, N. Y., assignor to Ideal Novelty & Toy Co., Long Island City, N. Y., a corporation of New York
Application January 22, 1943, Serial No. 109,327
Term of patent 3½ years



The ornamental design for a stuffed toy animal unit, as shown.

135,357
DESIGN FOR A TRAVELING CASE
Arthur R. Botham, New York, N. Y., assignor to Coty, Inc., Wilmington, Del., a corporation of Delaware
Application January 28, 1942, Serial No. 105,468
Term of patent 7 years



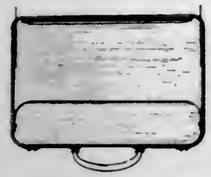
The ornamental design for a traveling case, as shown.

135,358
DESIGN FOR A COMBINED TRAVELING CASE AND COSMETIC HOLDER
Arthur R. Botham, New York, N. Y., assignor to Coty, Inc., Wilmington, Del., a corporation of Delaware
Application January 28, 1942, Serial No. 105,469
Term of patent 7 years



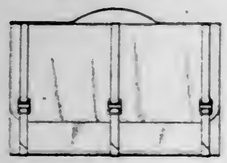
135,358—Continued

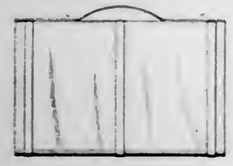


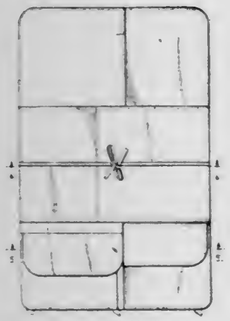


The ornamental design for a combined traveling case and cosmetic holder, as shown.

135,359
DESIGN FOR A CARRYING CASE OR SIMILAR ARTICLE
Benjamin Boyar, Woodmere, N. Y.
Application February 11, 1943, Serial No. 109,524
Term of patent 7 years



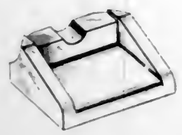


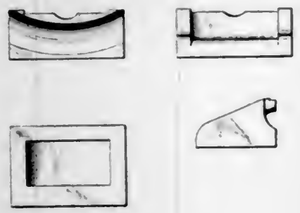




The ornamental design for a carrying case or similar article, as shown.

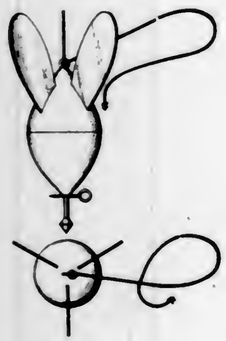
135,360
DESIGN FOR AN ADAPTER FOR A SKI PACK SLED
Wallace E. Breuner, Oakland, Calif.
Application September 29, 1942, Serial No. 108,358
Term of patent 3½ years





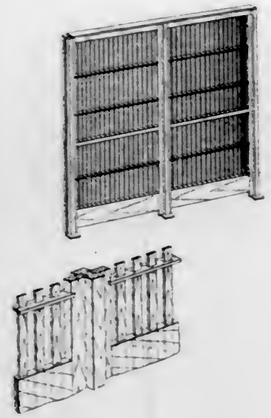
The ornamental design for an adapter for a ski pack sled, as shown.

135,361
DESIGN FOR A HAND GRENADE
Jesus R. Montano, Earlimart, Calif.
Application July 15, 1942, Serial No. 107,542
Term of patent 14 years



The ornamental design for a hand grenade, as shown.

135,362
DESIGN FOR AN INTERIOR PARTITION STRUCTURE
Raymond Jackson Myers, Detroit, Mich.
Application December 14, 1942, Serial No. 109,034
Term of patent 3½ years



The ornamental design for an interior partition structure, as shown.

135,363
DESIGN FOR A SHRINE
Alfred Ochs, New York, N. Y.
Application February 3, 1943, Serial No. 109,439
Term of patent 14 years





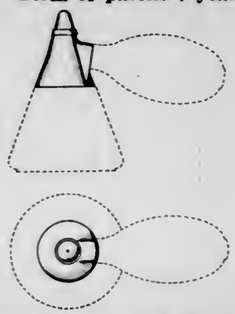
The ornamental design for a shrine, as shown.

135,364
DESIGN FOR A FLAG OR THE LIKE
Peter T. O'Connell, New York, N. Y.
Application September 2, 1942, Serial No. 108,110
Term of patent 3½ years



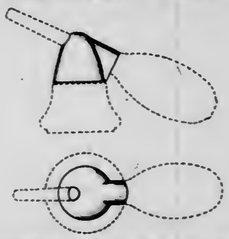
The ornamental design for a flag or the like, substantially as shown.

135,365
DESIGN FOR AN ATOMIZER
Frederic A. Vuillemenot, Toledo, Ohio, assignor to The De Vilbiss Company, Toledo, Ohio, a corporation of Ohio
Application February 10, 1943, Serial No. 109,513
Term of patent 7 years



The ornamental design for an atomizer, substantially as shown and described.

135,366
DESIGN FOR AN ATOMIZER
Frederic A. Vuillemenot, Toledo, Ohio, assignor to The De Vilbiss Company, Toledo, Ohio, a corporation of Ohio
Application February 10, 1943, Serial No. 109,514
Term of patent 7 years



The ornamental design for an atomizer, substantially as shown and described.

135,367
DESIGN FOR A BADGE OR SIMILAR ARTICLE
Mayes Behrman, Atlanta, Ga., assignor to Starr Engraving Company, Houston, Tex., a corporation
Application November 5, 1942, Serial No. 108,709
Term of patent 7 years



The ornamental design for a badge or similar article, as shown.

135,368
DESIGN FOR A MITTEN
William A. Clark, St. Louis, Mo.
Application December 14, 1942, Serial No. 109,029
Term of patent 7 years



The ornamental design for a mitten, substantially as shown and described.

135,369
DESIGN FOR A WOMAN'S CAP
Greta Goodwin, New Salem, Ohio, assignor to Standard Safety Equipment Co., a corporation of Illinois
Application December 23, 1942, Serial No. 109,111
Term of patent 7 years



The ornamental design for a woman's cap, as shown.

135,370
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Bertha J. Hansen, Rutherford, N. J.
Application August 12, 1942, Serial No. 107,888
Term of patent 3½ years



The ornamental design for a brooch or similar article, as shown.

135,371
DESIGN FOR A JEWELRY FINDING OR SIMILAR ARTICLE
Rex Hendrix, Ruth, Nev.
Application November 17, 1942, Serial No. 108,797
Term of patent 3½ years



The ornamental design for a jewelry finding or similar article, as shown.

135,372
DESIGN FOR A DRESS
Isidor Leibowitz, New York, N. Y.
Application February 22, 1943, Serial No. 109,598
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

135,373
DESIGN FOR A DRESS
Isidor Leibowitz, New York, N. Y.
Application February 22, 1943, Serial No. 109,599
Term of patent 3½ years



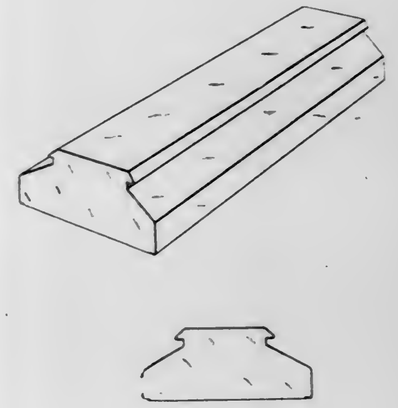
The ornamental design for a dress, substantially as shown.

135,374
DESIGN FOR A TEXTILE FABRIC
Hans W. Wilde, North Bergen, N. J.
Application March 3, 1943, Serial No. 109,651
Term of patent 3½ years



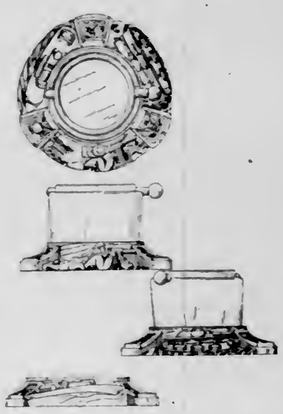
The ornamental design for a textile fabric, substantially as shown, and described.

135,375
DESIGN FOR A HOUSING FOR A FLUORESCENT LIGHTING FIXTURE
David J. Biller, St. Louis, Mo., assignor to Day-Brite Lighting, Inc., St. Louis, Mo., a corporation of Missouri
Application May 28, 1942, Serial No. 107,032
Term of patent 14 years



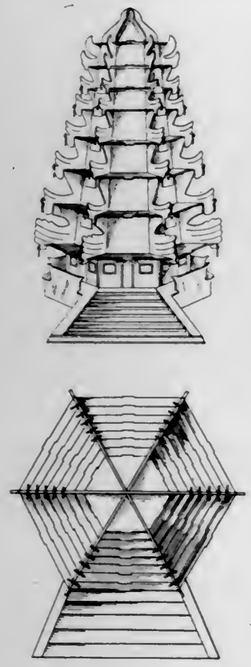
The ornamental design for a housing for a fluorescent lighting fixture, as shown.

135,376
DESIGN FOR AN ASH TRAY
Maurice Britz, Chicago, Ill.
Application January 13, 1943, Serial No. 109,258
Term of patent 3½ years



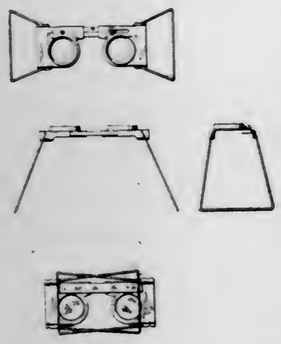
The ornamental design for an ash tray, substantially as shown.

135,377
DESIGN FOR A GAME DEVICE
William H. Morton Cameron, Toronto, Ontario, Canada
Application September 26, 1942, Serial No. 108,343
Term of patent 3½ years



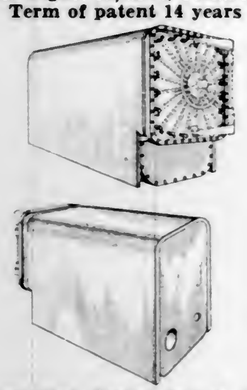
The ornamental design for a game device, as shown.

135,378
DESIGN FOR A POCKET STEREOSCOPE
Bernard Chadkin, New York, N. Y.
Application December 28, 1942, Serial No. 109,155
Term of patent 7 years



The ornamental design for a pocket stereoscope, substantially as shown.

135,379
DESIGN FOR A COMBINATION BOILER AND STERILIZER OR THE LIKE
John C. Cleaver and Jules Verne Resek, Whitefish Bay, Wis., assignors to Cleaver-Brooks Company, Milwaukee, Wis., a corporation of Wisconsin
Application August 31, 1942, Serial No. 108,086
Term of patent 14 years



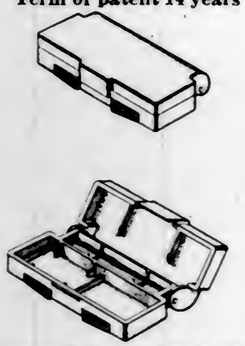
The ornamental design for a combination boiler and sterilizer or the like, as shown, and described.

135,380
DESIGN FOR AN EMBLEM PIN
Ben Felsenthal, New York, N. Y.
Application December 21, 1942, Serial No. 109,087
Term of patent 3½ years



The ornamental design for an emblem pin, substantially as shown.

135,381
DESIGN FOR A CASE FOR SAFETY RAZORS AND SHAVING ACCESSORIES
Morton Hollis, Brookline, Mass., assignor to Gillette Safety Razor Company, Boston, Mass., a corporation of Delaware
Application January 29, 1943, Serial No. 109,360
Term of patent 14 years



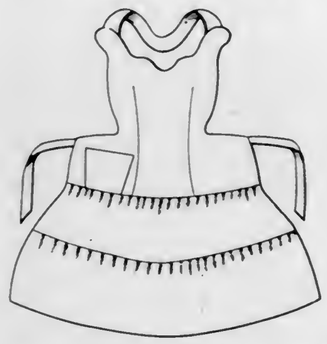
The ornamental design for a case for safety razors and shaving accessories, as shown.

135,382
DESIGN FOR A FIGURE TOY OR THE LIKE
Thomas Lamb, New York, N. Y.
Application March 5, 1942, Serial No. 106,083
Term of patent 7 years



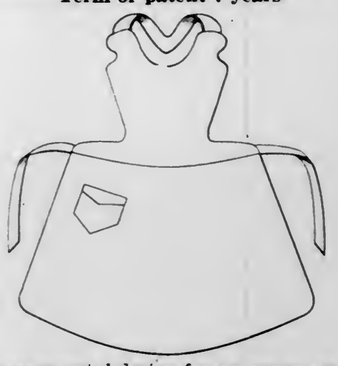
The ornamental design for a figure toy or the like, as shown.

135,383
DESIGN FOR AN APRON
Ada Quinn, Ogden, Utah
Application August 24, 1942, Serial No. 108,014
Term of patent 7 years



The ornamental design for an apron, as shown.

135,384
DESIGN FOR AN APRON
Ada Quinn, Ogden, Utah
Application August 24, 1942, Serial No. 108,016
Term of patent 7 years



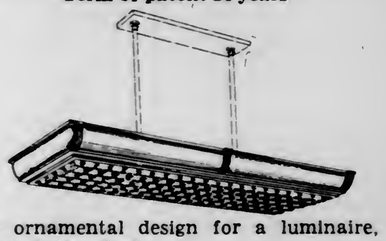
The ornamental design for an apron, as shown.

135,385
DESIGN FOR A CASING FOR A LIGHTER OR SIMILAR ARTICLE
Alexander Sydney Weston, New York, N. Y.
Application November 20, 1942, Serial No. 108,826
Term of patent 14 years



The ornamental design for a casing for a lighter or similar article, as shown.

135,386
DESIGN FOR A LUMINAIRE
Frederic C. Winkler, Lakewood, and Carl F. Haas, Cleveland, Ohio, assignors to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Application December 14, 1940, Serial No. 97,313
Term of patent 14 years



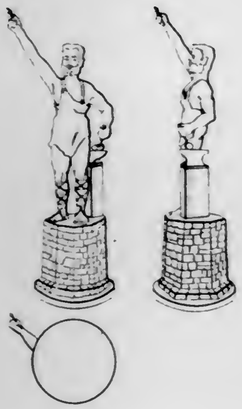
The ornamental design for a luminaire, as shown and described.

135,387
DESIGN FOR A BADGE OR THE LIKE
John D. Youther, Aberdeen Proving Grounds, Md.
Application December 2, 1942, Serial No. 108,939
Term of patent 14 years



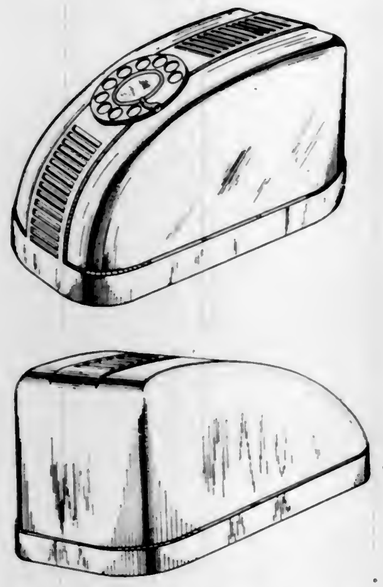
The ornamental design for a badge or the like, as shown.

135,388
DESIGN FOR A PAPERWEIGHT
Nahum A. Cannon, Birmingham, Ala.
Application July 6, 1942, Serial No. 107,481
Term of patent 14 years



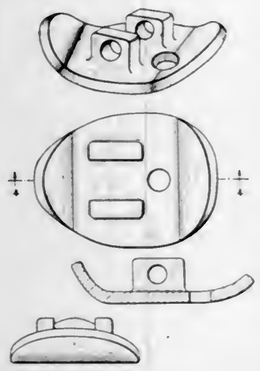
The ornamental design for a paperweight, as shown.

135,389
DESIGN FOR A LOUD-SPEAKING TELEPHONE
Gabriel M. Giannini, North Hollywood, Calif., assignor, by mesne assignments, to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application January 21 1942, Serial No. 105,341
Term of patent 14 years



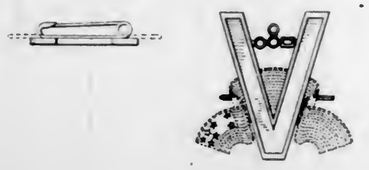
The ornamental design for a loud-speaking telephone, as shown.

135,390
DESIGN FOR A TRANSPARENT SEWING MACHINE PRESSER FOOT
Viola Lains, Seattle, Wash.
Application July 28, 1942, Serial No. 107,731
Term of patent 14 years



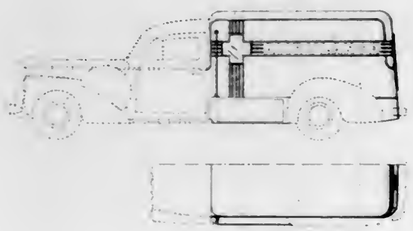
The ornamental design for a transparent sewing machine presser foot, substantially as shown.

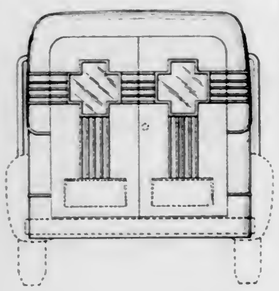
135,391
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Constantin P. Lent, Forest Hills, N. Y.
Application July 22, 1941, Serial No. 102,368
Term of patent 3½ years



The ornamental design for a brooch or similar article, as shown.

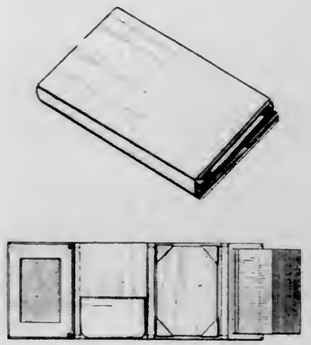
135,392
DESIGN FOR A VEHICLE
Earl L. Schofield, Freeport, Ill., assignor to Henney Motor Company, Freeport, Ill., a corporation of Delaware
Application January 16, 1942, Serial No. 105,232
Term of patent 14 years





The ornamental design for a vehicle, substantially as shown and described.

135,393
DESIGN FOR A CORRESPONDENCE PORTFOLIO
Irving Weinger, Brooklyn, and Samuel Widder, New York, N. Y., assignors to J. Widder & Co., New York, N. Y., a corporation of New York
Application December 29, 1942, Serial No. 109,162
Term of patent 7 years



The ornamental design for a correspondence portfolio, as shown and described.

135,394
DESIGN FOR A TEXTILE FABRIC
Hans W. Wilde, North Bergen, N. J.
Application March 8, 1943, Serial No. 109,694
Term of patent 3½ years



The ornamental design for a textile fabric, substantially as shown, and described.

135,395
DESIGN FOR A TEXTILE FABRIC
Hans W. Wilde, North Bergen, N. J.
Application March 8, 1943, Serial No. 109,695
Term of patent 3½ years



The ornamental design for a textile fabric, substantially as shown, and described.

135,396
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application March 8, 1943, Serial No. 109,691
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

135,397
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application March 8, 1943, Serial No. 109,690
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

135,398
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application March 8, 1943, Serial No. 109,692
Term of patent 3½ years



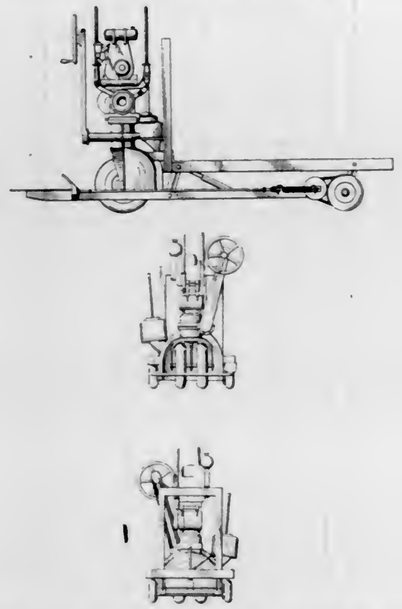
The ornamental design for a dress, substantially as shown.

135,399
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application March 8, 1943, Serial No. 109,693
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

135,400
DESIGN FOR AN INDUSTRIAL TRUCK
Truman B. Funk, Jackson, Mich., assignor to Yard-Man, Inc., Jackson, Mich., a corporation of Michigan
Application April 9, 1942, Serial No. 106,516
Term of patent 14 years

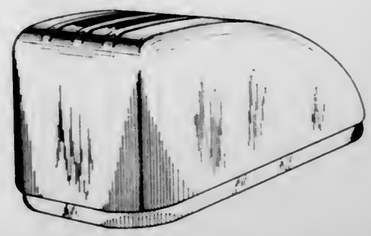


The ornamental design for industrial truck, substantially as shown.

135,401
DESIGN FOR A LOUD-SPEAKING TELEPHONE
Gabriel M. Giannini, North Hollywood, Calif., assignor, by mesne assignments, to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application January 21, 1942, Serial No. 105,340
Term of patent 14 years

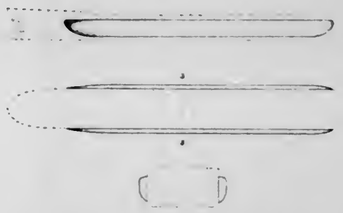


135,401—Continued



The ornamental design for a loud-speaking telephone, as shown.

135,402
DESIGN FOR A SHIP HULL
Henry J. Sullivan, Duluth, Minn.
Application August 31, 1942, Serial No. 108,089
Term of patent 7 years



The ornamental design for a ship hull, as shown.

135,403
DESIGN FOR A DRESS
Samuel Zahn, New York, N. Y.
Application March 8, 1943, Serial No. 109,689
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

OFFICIAL GAZETTE

OF THE

UNITED STATES PATENT OFFICE

VOLUME 549

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WASHINGTON : 1943

CONTENTS

	Page
DECISIONS OF THE COMMISSIONER OF PATENTS, April 6, 13, 20, 27	3, 199, 381, 561
TRADE-MARKS PUBLISHED AND REGISTERED, April 6, 13, 20, 27	7, 205, 387, 573
REISSUES, April 6, 13, 20, 27	29, 225, 407, 593
PLANT PATENTS, April 6, 13, 20, 27	—, 225, 408, 593
PATENTS, April 6, 13, 20, 27	30, 226, 409, 594
DESIGNS, April 6, 13, 20, 27	184, 367, 549, 739

ANNOUNCEMENTS

	Page
APPLICATIONS—Condition of pending	2, 198, 380, 560
ADVERSE DECISIONS IN INTERFERENCE	1, 379, 559
BULLETIN OF DECISIONS ON TRADE-MARKS	568
CLASSIFICATION OF INVENTION—Changes in—*Order No 5710*	202
DISCLAIMERS—Barry, James J	202
Birdseye, Clarence	202
Bodde, Bernard M	379
Cover, Harvey S. (2 cases)	202
Frank, William H	1
Frank, William H., et al	1
Getty, Ralph J	202
Johnson, Robert H	202
Sengebusch, Hans	202
Swain, Robert C., et al	379
INTERFERENCE NOTICE—Vess Jones, deceased	202, 379, 559
Charles H. Janet Packing Co	559
NOTICE—List of applications by Alien Property Custodian	379, 559
Application papers—Margin to be left at top of page	379, 559
PATENT SUITS	6, 201, 566
PATENTS—List of adjudicated	1, 197, 386, 559
TRADE-MARK REGISTRATIONS CANCELED—Notice of cancellation	1, 197, 379, 559

TABLE OF CASES REPORTED

	Page
*Benner et al. v. Oglesby	382
*Hydraulic Press Corporation, Inc., The, and Ernst v. Coe, Com. of Patents	561
*Korf et al., In re	381
*Renstrom v. Solomon	199
*Schmidt et al., In re	4
*Swenson et al., In re	200
*Wahl, In re	3

(Decisions of the U. S. Court of Appeals for the District of Columbia are indicated by the letter (*); and of the U. S. Court of Customs and Patent Appeals by a star (*).)

Patents Nos. 2,315,484 to 2,316,145

THE OFFICIAL GAZETTE

OF THE

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CIRCULARS OF GENERAL INFORMATION concerning PATENTS or TRADE-MARKS will be sent without cost on request to the Commissioner of Patents, Washington, D. C.

CONTENTS

	Page
Issue of April 6, 1943	1
Adjudicated Patents	1
Adverse Decisions in Interference	1
Notice of Cancellation	1
Disclaimers	1
Applications Under Examination	2
Decisions of the U. S. Courts—	
In re Wahl	3
In re Schmidt et al	4
Patent Suits	6
Trade-Marks Published (98 Applications)	7
Trade-Mark Registrations Granted	20
Trade-Mark Registrations Renewed	25
Reissues	29
Patents Granted	30
Designs	184

April 6, 1943

Trade-Marks	113	No. 400,814 to No. 400,926, inclusive.
T. M Renewals	74	
Reissues	2	No. 22,297 to No. 22,298, inclusive.
Patents	662	No. 2,315,484 to No. 2,316,145 inclusive.
Designs	51	No. 135,404 to No. 135,454, inclusive.
Total	902	

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed.

Pat. 2,168,508, R Barthelemy, Relaxation oscillation generator, decided March 6, 1943, claims 1, 2, and 5.

Pat. 2,215,380, R. C. Swain and D. W. Light, Bonded abrasive, decided March 10, 1943, claims 1, 2, 3, and 4.

Disclaimers

2,041,675.—*William H. Frank and Joseph W. Harper*, Detroit, Mich. ELECTRICAL DISTRIBUTION SYSTEM. Patent dated May 19, 1936. Disclaimer filed March 15, 1943, by the assignee, *Bulldog Electric Products Co.*

Hereby disclaims claim 13 of said patent.

2,059,988.—*William H. Frank*, Detroit, Mich. ELECTRICAL DISTRIBUTION SYSTEM. Patent dated November 3, 1936 Disclaimer filed March 15, 1943, by the assignee, *Bulldog Electric Products Co.*

Hereby disclaims claim 1 of said patent.

Adjudicated Patents

(D. C. Del.) Cooke patent, No. 1,614,455, for refrigerating apparatus, claims 1, 3, 4, 7, 8, 14, 16, 17, 19, 20, 24, and 26 to 30 *Held* invalid. *Booth Fisheries Corporation* v. *General Foods Corporation*, 48 F. Supp. 313.

(D. C. Del.) Birdseye patent, No. 1,773,079, for method of preparing food products, claims 1, 4, 5, 6, 14, 16, 18, and 26 *Held* invalid, claims 10, 13, and 17 *Held* valid, claims 10, 13, and 17 *Held* infringed by one certain process and not infringed by another. *Id.*

(D. C. Del.) Birdseye patent, No. 1,773,080, for animal food product, claims 1 and 2 *Held* invalid. *Id.*

(D. C. Del.) Birdseye patent, No. 1,773,081, for refrigerating apparatus, claims 9, 11, 19, 20, 24, and 26 *Held* invalid. *Id.*

(D. C. Del.) Barry patent, No. 1,822,121, for refrigerating apparatus, claims 6 to 12, inclusive, *Held* invalid. *Id.*

(C. C. A. N. Y.) Blackburn patent, No. 1,826,499, for lathing unit, *Held* not infringed. *Franklin* v. *Masonite Corporation*, 132 F.(2d) 800.

(D. C. Del.) Birdseye and Hall patent, No. 1,905,131, for refrigerating apparatus, claims 5, 6, 7, 10, 11, 13, 16, and 17 *Held* invalid. *Booth Fisheries Corporation* v. *General Foods Corporation*, 48 F. Supp. 313.

(C. C. A. Ill.) Georgen patent, No. 1,926,092, for apparatus for forming feed screws and conveyers, claims 2 and 3 *Held* invalid. *Chicago Steel Foundry Co.* v. *Burnside Steel Foundry Co.*, 132 F.(2d) 812.

Notice of Cancellation

U. S. PATENT OFFICE, *Richmond, Va., Mar. 11, 1943.*

K-Nine Diner Corporation, its assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Lawrence A. Lockwood, 232 E. Erie St., Chicago, Ill., to effect the cancellation of trade-mark registration of K-Nine Diner Corporation, 725 National City Bank Bldg., Euclid Ave. and E. 6th St., Cleveland, Ohio, No. 354,743, dated February 22, 1938, and the notice of such proceeding sent by registered mail to the said K-Nine Diner Corporation at the said address having been returned by the post office undeliverable, and said notice reforwarded by registered mail to said K-Nine Diner Corporation at 234 Erie St., Toledo, Ohio, having been returned by the post office undeliverable, notice is hereby given that unless said K-Nine Diner Corporation, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Conditions of Applications Under Examination at Close of Business March 20, 1943

(Total number of applications awaiting action, excluding Trade-Mark Division, 40,372; Trade-Mark Division, 776. Oldest new case, Apr. 28, 1942; oldest amended, Apr. 29, 1942.)
(The dates given are 1942 except where † indicates 1943)

Divisions, Examiners, and Subjects of Inventions	Oldest new application awaiting office action	Oldest amended application awaiting office action	No. of applications awaiting action
1. TUCKER, M. W., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Domestic Cooking Vessels; Sewerage.	Oct. 30	Nov. 23	354
2. HERRMANN, D., Fishing and Trapping; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering.	Dec. 23	Nov. 23	241
3. WOLFFE, S., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	May 23	May 28	976
4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting.	Oct. 24	Oct. 5	403
5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps.	July 23	July 23	576
6. GENIESSE, E. W., Carbon Chemistry (part)	June 26	July 1	1035
7. JARBOE, C. G., Optics, Photography	Aug. 3	July 22	974
8. ADAMS, F. L., Furniture; Kitchen and Table Articles; Racks and Cabinets	Sept. 2	Aug. 29	627
9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	Sept. 5	Sept. 5	748
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Oct. 9	Oct. 17	382
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Stop Mechanisms	Sept. 22	Oct. 3	337
13. DONNELLY, A. E., Metal Working (part); Gear Cutting, Milling and Planing; Needle and Pin Making	Aug. 31	Sept. 1	651
14. HANLIN, GEORGE, Metal Working (part); Farriery; Wire Fabrics	Nov. 18	Nov. 20	423
15. HENKIN, BENJ., Glass, Plastic Block and Earthenware Apparatus; Plastics	Aug. 14	Aug. 18	676
16. SPENCER, C. J., Telegraphy; Telephony	July 30	July 30	682
17. HABECKER, LEON B., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	June 11	June 5	715
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	July 27	July 25	555
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	June 25	June 24	683
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part).	Sept. 5	Sept. 19	437
21. THOMPSON, T. J., Textiles	Oct. 13	Sept. 4	306
22. RINGLE, D., Aeronautics; Firearms; Ordnance and Explosive Devices	June 12	June 13	1634
23. BARROWS, B., Cash Registers; Calculators (part)	Oct. 15	Oct. 14	124
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	Oct. 13	Oct. 16	600
25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	July 15	July 31	611
26. YOUNG, R. R., Electricity—Generation and Motive Power	Sept. 3	Sept. 15	526
27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus.	Oct. 7	Sept. 9	661
28. SOLYOM, H. L., Internal-Combustion Engines (part); Cylinders and Pistons	July 28	May 19	574
29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Package and Article Carriers; Woodworking; Tools; Metal Working, Assembling.	Nov. 28	Nov. 21	336
30. McCANN, LEO P., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Nov. 13	Nov. 16	328
31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils	Sept. 26	Sept. 26	1318
32. LESH, K., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	Sept. 8	Sept. 5	650
33. HULL, J. S., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements	Nov. 12	Nov. 2	571
34. SAPERSTEIN, S., Electricity—Meters and Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators.	Sept. 23	Sept. 24	399
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles	Sept. 28	Sept. 23	655
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	Oct. 15	Sept. 30	398
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Nov. 11	Nov. 3	486
38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part)	Aug. 8	Sept. 1	674
39. WHITNEY, F. I., Fluid-Pressure Regulators; Valves; Water Distribution	Dec. 14	Dec. 18	360
40. DRUMMOND, E. J., Receptacles	Nov. 14	Nov. 14	400
41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles; Counters and Calculators (part); Typewriting Machines; Check-Controlled Apparatus.	Sept. 11	Sept. 18	422
42. MARANS, H., Electric Signaling	Oct. 24	Oct. 26	345
43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Azo Compounds.	May 19	May 23	939
44. HARVEY, L. P., Refrigeration	Sept. 14	July 29	361
45. HILL, H. D., Shifting and Flexible Shaft Couplings; Wheels and Axles; Resilient Tires and Wheels; Lubrication; Bearings and Guides; Motors; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding, Land Vehicles (part).	Sept. 14	Oct. 10	741
46. BLEECKER, V. E., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Heating Systems; Coating Apparatus.	July 29	July 30	469
47. KANOF, WM. J., Clutches and Power Stops; Brakes; Boring and Drilling; Land Vehicles (part)	Sept. 8	Sept. 8	986
48. ROEPKE, O. B., Electricity, General Applications; Igniters	Apr. 28	Apr. 29	743
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	Sept. 22	Sept. 21	612
50. LEVIN, SAMUEL, Resins; Rubber; Carbohydrates and Derivatives	Aug. 22	Aug. 22	1203
51. BACKUS, C. D., Radiant Energy	Sept. 10	Sept. 2	922
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits.	Aug. 29	Sept. 19	620
53. PECK, M. K., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Curtains, Shades and Screens; Cutlery.	Dec. 18	Oct. 28	201
54. STRACHAN, O. W., Electric Lamp and Discharge Devices (part)	Aug. 22	Aug. 24	428
55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery	July 8	July 2	752
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Laminated Fabrics (part); Paper Making	Aug. 27	Sept. 2	859
57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Sept. 3	Sept. 18	392
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working	Sept. 5	Oct. 21	550
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds; Compositions (part).	May 13	May 14	1262
60. GLASS, R. L., Electricity, Heating and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Marine Propulsion; Consumable Electrode Lamp and Discharge Devices.	July 26	July 26	404
61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Laminated Electrical Insulation, Belt, Hose, Tire and Ball Making; Boats and Buoys.	Aug. 15	Aug. 25	577
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	Nov. 20	Aug. 27	445
63. WINKELSTEIN, A. H., Preserving; Poisons; Fermentation; Foods and Beverages; Proteins; Oils and Fats.	June 19	June 15	986
64. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Distillation; Fuel	Oct. 7	Oct. 8	1121
66. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays.	Aug. 29	Aug. 19	643
Trade Marks. RICHMOND, F. A.	†Feb. 10	†Mar. 1	776
Designs: KALUPY, H. H.	†Feb. 20	†Mar. 2	303

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905. Sec. 6, as amended Mar. 2, 1907]

A. P. W. Paper Company, Inc., Albany, N. Y. Paper for toilet purposes. Serial No. 458,204; Apr. 6. Class 37.

Addressograph-Multigraph Corporation, Cleveland, Ohio. Identification cards. Serial No. 457,059; Apr. 6. Class 37.

American Colloid Co., Chicago, Ill. Clays. Serial No. 454,774; Apr. 6. Class 1.

American Grana Watch Company. (See Von Burg, Emil.)

American Maize-Products Company, New York, N. Y. Pudding mix. Serial No. 458,006; Apr. 6. Class 46.

Ashland Paper Mills, Inc., Ashland, N. H. Facial tissue, toilet tissue, paper napkins, etc. Serial No. 448,404; Apr. 6. Class 37.

Atlas Laboratories. (See Hayes, Oscar.)

Barkolyn Pharmacal Company. (See Widmann & Teah, Inc.)

Battenfeld Grease & Oil Corp., Kansas City, Mo. Concrete curing compound. Serial No. 456,967; Apr. 6. Class 12.

Becker, Frederick G., Inc., Chicago, Ill. Weatherproof solid fibre board packing boxes. Serial No. 454,473; Apr. 6. Class 2.

Bireley's, Inc., Hollywood, Calif. Grape beverages and concentrates for making the same. Serial No. 430,375; Apr. 6. Class 45.

Bischoff, Ernst, Company, Incorporated, Ivoryton, Conn. Preparation for the treatment of psoriasis. Serial No. 458,506; Apr. 6. Class 6.

Bixby-Zimmer Engineering Co., Galesburg, Ill. Screens for use in de-watering, drying, and sizing coal and gravel, etc. Serial No. 456,841; Apr. 6. Class 23.

Celludye Corporation, New York, N. Y. Textile dye. Serial No. 458,585; Apr. 6. Class 6.

Central Yarn Company, Inc., Brooklyn, N. Y. Hand knitting yarn. Serial No. 457,947; Apr. 6. Class 43.

Chance, A. B., Company, Centralia, Mo. Anchor rods, bolts, nuts, etc. Serial No. 458,389; Apr. 6. Class 13.

Chemical Marketing Company, Incorporated, New York, N. Y. Wetting agent, emulsifier, fatty albumin acid, and animal protein extraction product. Serial No. 453,615; Apr. 6. Class 6.

Cotan Corporation, Newark, N. J. Coated textile fabrics. Serial No. 455,298; Apr. 6. Class 50.

Coty, Inc., New York, N. Y. Face powder, dusting powder, toilet water, etc. Serial No. 458,091; Apr. 6. Class 6.

Cushman & Denison Manufacturing Company, Inc., New York, N. Y. Card indexes, cards and forms for indexes, loose leaf books, etc. Serial No. 457,823; Apr. 6. Class 37.

Dahl, Norman F., Toronto, Ontario, Canada, assignor to Lehn & Fink Products Corporation, Bloomfield, N. J. Cosmetics. Serial No. 454,686; Apr. 6. Class 6.

Distillers Warehouse, Inc., St. Louis, Mo. Whiskey. Serial No. 450,091; Apr. 6. Class 49.

Eastman Kodak Company, Jersey City, N. J., and Rochester, N. Y. Photographic chemicals. Serial Nos. 445,390–1; Apr. 6. Class 6.

Flower Foods, Inc., Maywood, Ill. Composition containing chemical ingredients for strengthening, feeding and promoting the development of cut plants. Serial No. 458,591; Apr. 6. Class 6.

Fox Brothers & Company, Limited, Wellington, England. Serges and woolen and worsted piece goods. Serial No. 452,924; Apr. 6. Class 42.

Frederick Charles Company, The. (See Manheck, Frederick C.)

Geiger, Louis, Inc., New York, N. Y. Ladies' and girls' overalls, outer shirts, blouses, etc. Serial No. 457,828; Apr. 6. Class 39.

General Mills, Inc., Minneapolis, Minn. Flour. Serial No. 449,990; Apr. 6. Class 46.

Graphicut Corporation, New York, N. Y. Jig-saw puzzle games. Serial No. 455,477; Apr. 6. Class 22.

Greyhound Electric Manufacturing Co., Inc., Brooklyn, N. Y. Electric alternating current welding machines and transformers. Serial No. 455,100; Apr. 6. Class 21.

Hall, Horace W., doing business as Hall Mfg. Co., Newton Highlands, Mass. Tennis, squash, and badminton playing rackets. Serial No. 448,758; Apr. 6. Class 22.

Hammermill Paper Company, Erie, Pa. Writing-paper, superfine writing-paper, ledger-paper, etc. Serial No. 454,946; Apr. 6. Class 37.

Hayes, Oscar, doing business as Atlas Laboratories, Akron, Ohio. Lubricant. Serial No. 454,369; Apr. 6. Class 6.

Hayes, Oscar, doing business as Hayes Laboratories, Akron, Ohio. Medicative ointment for external and orificial application. Serial No. 454,370; Apr. 6. Class 6.

Haynes, Oscar, doing business as Atlas Laboratories, Akron, Ohio. Kits or packages containing prophylactic rubber articles and a tube of lubricant therefor. Serial No. 454,372; Apr. 6. Class 44.

Heusner, H. N., & Son, Inc., Hanover, Pa. Cigars. Serial No. 458,098; Apr. 6. Class 17.

Highcroft Orchard, Ashland, Oreg. Fresh pears. Serial No. 457,975; Apr. 6. Class 46.

Hoyland Steel Company, Incorporated, New York, N. Y. Tool steel. Serial No. 458,099; Apr. 6. Class 14.

Irwin Auger Bit Company, The, Wilmington, Ohio. Auger bit extensions. Serial No. 434,722; Apr. 6. Class 23.

Jackson, Edwin, Inc., New York, N. Y. Andirons. Serial No. 456,826; Apr. 6. Class 13.

James Manufacturing Company, Fort Atkinson, Wis. Farm buildings for housing cows, horses, sheep, etc., sheathing, metal windows, and doors. Serial No. 452,448; Apr. 6. Class 12.

Kantor Novelty, Inc., New York, N. Y. Necklaces, bracelets, finger rings, etc. Serial No. 456,717; Apr. 6. Class 28.

Kimble Glass Company, Vineland, N. J., and Chicago Heights, Ill. Glass floats for automatic valves. Serial No. 456,605; Apr. 6. Class 33.

Kleitsch, Mathias, doing business as Kleitsch Bakery, Detroit, Mich. Bread. Serial No. 446,274; Apr. 6. Class 46.

L & L Mfg. Co., Van Dyke, Mich. Tools for use with hydraulic accessories. Serial No 458,155; Apr. 6. Class 23.

Lederle Laboratories, Inc., New York, N. Y. Pharmaceutical preparation containing dicalcium phosphate and vitamin D. Serial No. 458,015; Apr. 6. Class 6.

Lehn & Fink Products Corporation. (See Dahl, Norman F., assignor.)

Lehn & Fink Products Corporation, Bloomfield, N. J. Perfume, eau de cologne; toilet powder, etc. Serial No. 458,177; Apr. 6. Class 6.

Leighton Hats, Inc., New York, N. Y. Ladies' and misses' hats. Serial No. 458,209; Apr. 6. Class 39.

Liberty Vitamin Corporation, New York, N. Y. Vitamin B complex. Serial No. 457,763; Apr. 6. Class 6.

Lockport Cotton Batting Co., Lockport, N. Y. Cotton batting or cotton batts. Serial No. 451,085; Apr. 6. Class 1.

Macy, R. H., & Co., Inc., New York, N. Y. Soap. Serial No. 458,178; Apr. 6. Class 4.

Manheck, Frederick C., doing business as The Frederick Charles Company, Union, N. J. Shaving preparation. Serial No. 458,042; Apr. 6. Class 4.

Miller Manufacturing Company, Camden, N. J. Chemicals. Serial No. 458,370; Apr. 6. Class 6.

National Cylinder Gas Company, Chicago, Ill. Welding and brazing fluxes for cast iron, malleable iron, brass, etc. Serial No. 458,635; Apr. 6. Class 6.

Northwestern Yeast Company, Chicago, Ill. Yeast. Serial No. 457,528; Apr. 6. Class 46.

Odosin Corporation, The, New York, N. Y. Housing-like devices or enclosures for exposing poisonous or entrapping substances to vermin and insects. Serial No. 449,626; Apr. 6. Class 50.

Pacific Mills, Boston, Mass. Cotton piece goods. Serial No. 456,221; Apr. 6. Class 42.

Pacific Mills, Boston, Mass. Mixed cotton and rayon piece goods. Serial No. 456,222; Apr. 6. Class 42.

Pastene Wine & Spirits Co., Inc., Boston, Mass. Wines. Serial No. 455,458; Apr. 6. Class 47.

Philco Corporation, Philadelphia, Pa. Storage batteries. Serial No. 458,372; Apr. 6. Class 21.

Pollack, Smith & Robins, Inc., Philadelphia, Pa. Women's bathing suits, beach dresses, beach jackets, etc. Serial No. 458,319; Apr. 6. Class 39.

Putney, Stephen, Shoe Company, Richmond, Va. Children's leather shoes. Serial No. 457,254; Apr. 6. Class 39.

Remington Air Conditioning Company, Inc., New York, N. Y. Refrigeration compressors and refrigeration condensing units. Serial No. 449,701; Apr. 6. Class 31.

Revlon Products Corporation, New York, N. Y. Face powder, rouge, and make-up base. Serial No. 458,408; April 6. Class 6.

Rogers Diesel and Aircraft Corporation, New York, N. Y. Power lawn mowers, power sweeping rotary floor brushes, and power snow removal sweeper blades. Serial No. 458,121; Apr. 6. Class 23.

Rosalak, Zenobia, New York, N. Y. Preparation for use as an aid in alleviating the discomforts of certain types of rheumatic pains due to exposure or cold. Serial No. 427,918; Apr. 6. Class 6.

Sanib Corporation, New York, N. Y. Dried bananas. Serial No. 458,485; Apr. 6. Class 46.

Segal, H., New York, N. Y. Metal articles. Serial No. 453,390; Apr. 6. Class 28.
Smartcraft, New York, N. Y. Women's and children's dresses. Serial No. 455,010; Apr. 6. Class 39.
Soules & Soules, Los Angeles, Calif. Cotton and rayon fabrics in the piece. Serial Nos. 458,230–1; Apr. 6. Class 42.
Standard Brands Incorporated, New York, N. Y. Vitaminic composition. Serial No. 458,253; Apr. 6. Class 6.
Stout, Charles Bands, Memphis, Tenn. Wheat flour. Serial No. 457,690; Apr. 6. Class 46.
Stronghold Jewelry Co., New York, N. Y. Finger rings and finger ring guards. Serial No. 458,084; Apr. 6. Class 28.
Sun-Maid Raisin Growers of California, Fresno, Calif. Raisins. Serial No. 458,126; Apr. 6. Class 46.
Supreme Sportswear Co., St. Louis, Mo. Women's, misses', and girls' wearing apparel. Serial No. 458,416; Apr. 6. Class 39.
Synthetix Latex Corporation, New York, N. Y. Synthetic rubber. Serial No. 458,213; Apr. 6. Class 1.
Turner Gauge Grinding Company, Detroit, Mich. Metal gauges. Serial No. 449,972; Apr. 6. Class 26.
Union-Baystate Co. Inc., Cambridge, Mass. Synthetic rubber. Serial No. 458,256; Apr. 6. Class 1.
United Blower Company, Inc., New York, N. Y. Motor driven blowers and exhausters for ventilating purposes. Serial No. 458,257; Apr. 6. Class 34.
United Chromium, Incorporated, New York, N. Y. Chemical compounds and compositions. Serial No. 458,025; Apr. 6. Class 6.
United Specialties Company, The, Chicago, Ill. Air cleaners for engines, dust separators, and classifiers. Serial No. 457,731; Apr. 6. Class 23.
United States Steel Export Company, New York, N. Y. Sulphate of iron; ammoniacal liquor; ammonium sulphate; etc. Serial No. 451,426; Apr. 6. Class 6.
United States Steel Export Company, New York, N. Y. Sheet steel roofing, siding, ceiling, etc.; cement. Serial No. 451,427; Apr. 6. Class 12.
United States Steel Export Company, New York, N. Y. Ingots, blooms, billets, etc. Serial No. 451,428; Apr. 6. Class 14.
United States Steel Export Company, New York, N. Y. Aerial tramways and ski tows, grinding balls; grinding rods; etc. Serial 451,429; Apr. 6. Class 23.
United States Steel Export Company, New York, N. Y. Metal casing, tubing, pipe and couplings therefor, highway road guards, etc. Serial No. 451,903; Apr. 6. Class 13.
United States Steel Export Company, New York, N. Y. Industrial and other rail cars; parts for industrial cars; and railroad locomotive wheels and axles. Serial No. 451,904; Apr. 6. Class 19.
United States Steel Export Company, New York, N. Y. Metal strand, rope, and cable. Serial No. 452,546; Apr. 6. Class 7.
United States Steel Export Company, New York, N. Y. Wire and cable for electrical purposes; rail and signal bonds; armature shafts; etc. Serial No. 452,547; Apr. 6. Class 21.
United Wall Paper Factories, Inc., Chicago, Ill. Wall paper. Serial No. 458,108; Apr. 6. Class 37.
Upson Company, The, Lockport, N. Y. Wallboard. Serial No. 444,423; Apr. 6. Class 12.
Vitamin Club, The, Chicago, Ill. Vitamins. Serial No. 458,419; Apr. 6. Class 6.
Von Burg, Emil, doing business as American Grana Watch Company, New York, N. Y. Watches, parts thereof, watch movement, and clocks. Serial No. 456,350; Apr. 6. Class 27.
Western Auto Supply Company, Kansas City, Mo. Men's and boys' wearing apparel. Serial No. 456,860; Apr. 6. Class 39.
Western Paper Converting Company, Salem, Oreg. Paper, tablets, blank books, etc. Serial No. 447,280; Apr. 6. Class 37.
Widmann & Teah, Inc., doing business as Barkolyn Pharmacal Company, Lock Haven, Pa. Vitamin capsule preparation. Serial No. 458,559; Apr. 6. Class 6.
Wilson & Ross, Salinas, Calif. Game. Serial No. 454,707; Apr. 6. Class 22.
Wilson Welder and Metals Co. Inc., New York, N. Y. Electric arc welding machines. Serial No. 458,133; Apr. 6. Class 21.
Wyeth, John, & Brother, Incorporated, Philadelphia, Pa. Venereal prophylaxis units. Serial No. 458,469; Apr. 6. Class 6.
Young Radiator Company, Racine, Wis. Cooling towers used for cooling jacket liquid and oil for internal combustion engines. Serial No. 451,280; Apr. 6. Class 34.

LIST OF REGISTRANTS OF TRADE-MARKS

Abesto Manufacturing Company. (See Purcell, Isaac S.)
Acme Laboratories, Inc., Chicago, Ill. Dentifrice and mouth powder. 400,838; Apr. 6; Serial No. 452,209; published Aug. 11, 1942. Class 6.
Ager, Gypsy L., Peru, Ind. Cosmetic or nail cleansing treatment or finger tip moulding treatment. 400,869; Apr. 6; Serial No. 456,502; published Jan. 19, 1943. Class 6.
Alling & Cory Company, The, Rochester, N. Y. Wrapping paper. 171,001; renewed July 31, 1943.
American Excelsior Corporation. (See Excelsior Wrapping Company, assignor.)
American Home Products Corporation, Jersey City, N. J. Medicinal vitamin preparations. 400,906; Apr. 6; Serial No. 457,109; published Jan. 19, 1943. Class 6.
American Lead Pencil Company, New York, N. Y. Lead pencils and pencil leads. 400,817; Apr. 6; Serial No. 438,601; published Jan. 26, 1943. Class 37.
American Tobacco Company, The. (See Valle, M., y Ca., Inc., assignor.)
Apex Inc, Electrical Manufacturing Company, The. Cleveland, Ohio. Clothes washing and wringing machines, clothes washing machine, clothes wringers, and ironing machines. 164,962; renewed Feb. 27, 1943.
Associated Laboratories. (See Chumlea, Leon W.)
Asthma-Tol Co., The, Greer, S. C. Asthma medicine. 169,990; renewed July 10, 1943.
Automatic Siphon Filler Co., The. (See Gavaza, George V.)
Baalmann, John, successor to J. Baalmann Manufacturing Chemist, San Francisco, Calif. Medicinal preparation. 170,830; renewed July 24, 1943.
Barton, H. H., & Son Co. Inc., Philadelphia, Pa., assignors, by mesne assignments, to Behr-Manning Corporation, Troy, N. Y. Abrasive papers and cloths. 171,082; renewed July 31, 1943.
Bates, C. J., & Son. (See Bates, Hamilton C.)
Bates, Hamilton C., doing business as C. J. Bates & Son, Chester, Conn. Crochet-hooks and knitting needles. 400,816; Apr. 6; Serial No. 435,602; published Nov. 26, 1940. Class 40.
Battle Creek Food Company, The, Battle Creek, Mich. Prepared nut food. 170,860; renewed July 24, 1943.
Battle Creek Food Company, The, Battle Creek, Mich. Corn sugar. 171,529; renewed Aug. 7, 1943.
Beacon Chemical Corporation, Philadelphia, Pa. Cleanser for wood, metals, glass, etc. 400,868; Apr. 6; Serial No. 456,486; published Jan. 26, 1943. Class 4.
Becker, Christian, Inc., New York, N. Y. Balances and weighing scales. 171,827; renewed Aug. 14, 1943.
Behr-Manning Corporation. (See Barton, H. H. & Son, Co. Inc., assignor.)
Berry Brothers, Detroit, Mich. Varnishes. 170,770; renewed July 24, 1943.
Blake, Irene, Cosmetics, Inc., also doing business as Irene Blake, New York, N. Y. Hand cleanser. 400,852; Apr. 6; Serial No. 455,586; published Jan. 26, 1943. Class 4.
Bloch-Heller Company, Minneapolis, Minn. Men's shirts, slacks, ensemble suits, etc. 400,857; Apr. 6; Serial No. 455,902; published Jan. 26, 1943. Class 39.
Blue Ridge Spread Company, Dalton, Ga. Bath, beach, and lounging robes. 400,881; Apr. 6; Serial No. 456,709; published Jan. 26, 1943. Class 39.
Bombé Products. (See Sawyers, Ray L.)
Bond, Charles, Company, Philadelphia, Pa. Round leather belting and flat leather belting. 171,509; renewed Aug. 7, 1943.
Bonwit Teller, Inc., New York, N. Y. Women's and misses' blouses, sweaters, dresses, etc. 400,827; Apr. 6; Serial No. 449,719; published Jan. 19, 1943. Class 39.
Borgfeldt, George, & Co., assignors to Geo. Borgfeldt Corporation, New York, N. Y. Dolls. 171,046; renewed July 31, 1943.
Borgfeldt, George, & Co., assignor to Geo. Borgfeldt Corporation, New York, N. Y. Dolls. 171,584; renewed Aug. 7, 1943.
Boyd-Richardson Company, St. Louis, Mo. Men's hats. 400,865; Apr. 6; Serial No. 456,302; published Jan. 26, 1943. Class 39.
Brown Company, Portland, Maine, to Brown Company, Berlin, N. H. Paper products. 168,705; renewed May 29, 1943.
Brown Company, Portland, Maine, and Berlin, to Brown Company, Berlin, N. H. Fiber conduits for electrical purposes. 171,053; renewed July 31, 1943.
Burton Products, Inc., Paterson, N. J. Beer. 400,848; Apr. 6; Serial No. 454,711; published Jan. 26, 1943. Class 48.
Campbell, Joseph, Company, assignor to Campbell Soup Company, Camden, N. J. Spaghetti. 166,870–1; renewed Apr. 17, 1943.
Campbell Soup Company. (See Campbell, Joseph, Company, assignor.)
Carbolineum Wood Preserving Co., Milwaukee, Wis. Liquid wood preservative. 400,890; Apr. 6; Serial No. 456,843; published Jan. 26, 1943. Class 6.
Carter Dry Goods Co., Louisville, Ky. Percales. 171,452; renewed Aug. 7, 1943.

Carter Dry Goods Co., Louisville, Ky. Work shirts. 171,887; renewed Aug. 14, 1943.
Carthage Mills Incorporated, Cincinnati, Ohio. Printed felt-base floor covering. 400,916; Apr. 6. Class 20.
Celotex Corporation, The, Chicago, Ill. Expanded slag aggregate. 400,822; Apr. 6; Serial No. 448,407; published Jan. 26, 1943. Class 1.
Century Handkerchief Company. (See Engel, Arthur.)
Chicago Pharmacal Company, The, Chicago, Ill. Hematinic tonic. 400,902; Apr. 6; Serial No. 457,076; published Jan. 19, 1943. Class 6.
Chumlea, Leon W., doing business as Associated Laboratories, Lebanon, Ind. Chemical solution for treating fowls to facilitate plucking. 400,914; Apr. 6. Class 6.
Colgate-Palmolive-Peet Company. (See Whithouse Products Co., assignor.)
Congress of Industrial Organizations. (See International Union, United Automobile Works of America.)
Coulson, Chas. H., doing business as Coulson Heel Company, Hanover, Pa. Shoe heels. 170,731; renewed July 24, 1943.
Courtaulds, Limited, London, England. Hosiery. 400,901; Apr. 6; Serial No. 457,031; published Jan. 26, 1943. Class 39.
Da-Lite Screen Company, Inc., Chicago, Ill. Motion picture screens. 400,842; Apr. 6; Serial No. 453,733; published Jan. 26, 1943. Class 26.
Defender Photo Supply Co., Inc., Rochester, N. Y. Photo-
Defender Photo Supply Co., Inc., Rochester, N. Y. Photographic developing chemical. 400,923; Apr. 6. Class 6.
Deming Company, The, Salem, Ohio. Hand pumps, cylinders, spray pumps, etc. 400,853; Apr. 6; Serial No. 455,716; published Jan. 12, 1943. Class 23.
Disston, Henry, & Sons, Incorporated, Tacony, Philadelphia, Pa. Saws. 400,834; Apr. 6; Serial No. 450,733; published Jan. 12, 1943. Class 23.
Dorr Company, Inc., The, New York, N. Y. Apparatus for the treatment of solids suspended in liquids and more particularly for sewage sludge treating systems. 400,878; Apr. 6; Serial No. 456,652; published Jan. 29, 1943. Class 23.
Driver-Harris Company, Harrison, N. J. Chrome-iron-aluminum alloys. 400,889; Apr. 6; Serial No. 456,790; published Jan. 26, 1943. Class 14.
Duett Inc., Cincinnati, Ohio. Preparation for the treatment of athlete's foot and other infections of the skin. 400,897; Apr. 6; Serial No. 456,937; published Jan. 26, 1943. Class 6.
Du Pont, E. I., de Nemours and Company. (See Roessler & Hasslacher Chemical Company, The, assignor.)
Durham, Alton P., doing business as Herb Products Company, Anderson, S. C. Tonic laxative compound. 400,820; Apr. 6; Serial No. 445,260; published Jan. 19, 1943. Class 6.
Elematic Corporation, Blue Island, Ill. Pyrometer attachments. 400,843; Apr. 6; Serial No. 453,935; published Jan. 26, 1943. Class 26.
Elmhurst Packers, Inc. (See Ocean Shore Canning Co.)
Endo Products Inc., New York, N. Y. Narcotic preparation. 400,895; Apr. 6; Serial No. 456,921; published Jan. 19, 1943. Class 6.
Engel, A. (See Century Handkerchief Company.)
Engel, H., & Sons, New York, N. Y. Handkerchiefs. 165,017; renewed Feb. 27, 1943.
Eno, J. C., (U. S.), Limited, New York, N. Y. Medicinal preparation. 400,814; Apr. 6; Serial No. 426,402; published Dec. 24, 1940. Class 6.
Equipment Manufacturing Inc., Detroit, Mich. Electric battery chargers and parts thereof. 400,912–13; Apr. 6. Class 21.
Etteo Tool Co. Inc., Brooklyn, N. Y. Tapping attachments, multiple tapping heads, and tapping machines including parts thereof. 400,836; Apr. 6; Serial No. 451,930; published Jan. 26, 1943. Class 23.
Eureka Tea Company. (See Swanson Bros., Inc.)
Excelsior Wrapper Company, assignor, to American Excelsior Corporation, Chicago, Ill. Excelsior, excelsior products. 165,394; renewed Mar. 6, 1943.
Excelsior Wrapping Company, assignor to American Excelsior Corporation, Chicago, Ill. Excelsior, excelsior products. 161,132; renewed Nov. 7, 1942.
Fairchild Bros. & Foster, to Fairchild Bros. & Foster, New York, N. Y., successor. Artificially digested, food or peptone. 23,467; re-renewed Aug. 8, 1943.
Firestone Tire & Rubber Company, The, Akron, Ohio. Fishing tackle. 400,821; Apr. 6. Serial No. 448,318; published Jan. 26, 1943. Class 22.
First Texas Chemical Manufacturing Co., Dallas, Tex. Vitamin preparation. 400,903; Apr. 6; Serial No. 457,077; published Jan. 19, 1943. Class 6.
Foote & Jenks, assignor to Foote & Jenks, Inc., Jackson, Mich. Extracts for food-flavoring purposes. 168,389; renewed May 22, 1943.
Forstmann & Huffmann Company, assignor to Forstmann & Huffmann Company, assignor, by mesne assignments, to Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 165,687; renewed Mar. 20, 1943.
Franc-Strohmenger & Cowan, Inc., Troy, N. Y. Neckties. 400,900; Apr. 6; Serial No. 457,006; published Jan. 26, 1943. Class 39.
Gavaza, George Victor, doing business as The Automatic Siphon Filler Co., Beverly and Boston, to Siph-O Products Corporation, Boston, Mass., successor. Automatic siphons, bath sprays, faucet adapters, etc. 162,757; renewed Dec. 26, 1942.
Gillette Safety Razor Company, Boston, Mass. Safety razors. 400,896; Apr. 6; Serial No. 456,922; published Jan. 12, 1943. Class 23.
Goldfarb, Samuel J., New York, N. Y. Ladies' and misses' dresses and aprons. 400,861; Apr. 6; Serial No. 456,099; published Jan. 12, 1943. Class 39.
Goodson, J. F., & Company, trading as J. F. G. Coffee Co., Morristown, to J. F. Goodson & Company, doing business as JFG Coffee Co., Knoxville, Tenn. Coffee. 171,362; renewed Aug. 7, 1943.
Gotham Knitting Mills, assignor to Gotham Knitting Mills, Inc., New York, N. Y. Sweaters, scarfs, knitted suits, etc. 171,775; renewed Aug. 14, 1943.
Gotham Knitting Mills, Inc. (See Gotham Knitting Mills, Inc., assignor.)
Gottlieb, David E., Inc., New York, N. Y. Ladies' and misses' dresses. 400,886; Apr. 6; Serial No. 456,772; published Jan. 12, 1943. Class 39.
Grand Specialties Company, Chicago, Ill. Work retaining clamps, particularly C-clamps. 400,864; Apr. 6; Serial No. 456,239; published Dec. 22, 1942. Class 23.
Grasten Company, The, San Diego, Calif. Typewriter tables. 400,870; Apr. 6; Serial No. 456,531; published Jan. 26, 1943. Class 32.
Gross, Alexander S., & Bro., New York, N. Y. Ladies' and misses' dresses and suits. 400,862; Apr. 6; Serial No. 456,119; published Jan. 26, 1943. Class 39.
Grossmith, J., & Son, Limited, London, England. Perfumed soap. 169,545; renewed June 19, 1943.
Grossmith, J., & Son, Limited, London, England. Lavender water. 169,665; renewed June 26, 1943.
Gump, B. F., Co., Chicago, Ill. Milling machinery. 170,208; renewed July 10, 1943.
Haft, Morris W., & Brothers, New York, N. Y. Ladies' and misses' coats, suits, jackets, etc. 400,884; Apr. 6; Serial No. 456,740; published Jan. 12, 1943. Class 39.
Haft, Morris W., & Brothers, New York, N. Y. Ladies' and misses' coats, suits, jackets, etc. 400,907; Apr. 6; Serial No. 457,120; published Jan. 26, 1943. Class 39.
Harris Soap Company, Buffalo, N. Y. Soap in liquid, flake, powdered and cake form. 171,743; renewed Aug. 14, 1943.
Healy, Daniel J., assignor to D. J. Healy Shops, Detroit, Mich. Men's, women's and children's hose. 171,726; renewed Aug. 14, 1943.
Herb Products Company. (See Durham, Alton P.)
Hiller Bros. & Hiller, Inc., New York, N. Y. Juniors', misses', and women's coats and suits. 400,866; Apr. 6; Serial No. 456,390; published Jan. 5, 1943. Class 39.
Holly Molding Devices, Chicago, Ill. Sheets of waxed paper for meat and other foods. 400,915; Apr. 6. Class 37.
Humber Limited, Coventry, England. Bicycles, tricycles, motor trucks, etc. 170,590; renewed July 17, 1943.
Illinois Canning Co., to The Illinois Canning Company, Hoopeston, Ill., successor. Canned corn. 23,481; renewed Aug. 15, 1943.
Indianapolis Tent & Awning Company, Indianapolis, Ind. Awnings and tarpaulins. 170,015; renewed July 10, 1943.
International Hat Company, St. Louis, Mo. Light weight hot weather men's and boys' hats. 400,867; Apr. 6; Serial No. 456,423; published Jan. 19, 1943. Class 39.
International Union, United Automobile Workers of America, affiliated with the Congress of Industrial Organizations, Detroit, Mich. Tools and accessories thereof and parts therefor. 400,815; Apr. 6; Serial No. 429,774; published Jan. 26, 1943. Class 23.
J. F. G. Coffee Co. (See Goodson, J. F., & Company.)
Jack & Heintz, Inc., Bedford, Ohio. Wire twisting tool. 400,874–5; Apr. 6; Serial Nos. 456,603–4; published Jan. 19, 1943. Class 23.
Jacobs, E. H., Manufacturing Co. Inc., Danielson, Conn. Loom supplies. 400,904; Apr. 6; Serial No. 457,091; published Jan. 19, 1943. Class 23.
Johns-Manville Corporation, New York, N. Y. Bottom boards for foundry use. 400,877; Apr. 6; Serial No. 456,637; published Jan. 26, 1943. Class 50.
Kentucky Chemical Industries, Inc., Cincinnati, Ohio. Feeds for livestock and poultry. 400,885; Apr. 6; Serial No. 456,742; published Jan. 26, 1943. Class 46.
Kirk, Samuel, & Sons, Limited, Bradford, England. Piece goods. 169,989; renewed July 10, 1943.
Lane-Wells Company, doing business as Technicraft Engineering Company, Los Angeles, Calif. Ozone generator designed to sterilize water and other materials. 400,851; Apr. 6; Serial No. 455,192; published Jan. 26, 1943. Class 21.
Lansing Paint and Color Co., Lansing, and Lansing Township, to Lansing Paint and Color Company, Lansing, Mich. Paints, enamels, varnishes, etc., and colors in oil. 164,668; renewed Feb. 27, 1943.
Lazier, J. F., Manufacturing Company, Incorporated, St. Louis, Mo. Soft drinks. 171,050; renewed July 31, 1943.
Lelong, Lucien Inc., Chicago, Ill. Cologne. 400,887; Apr. 6; Serial No. 456,777; published Jan. 26, 1943. Class 6.

Les Fabriques D'Assortiments Réunies, Le Locle, Switzerland. Gauges and instruments; medical thermometers. 400,882; Apr. 6; Serial No. 456,718; published Jan. 26, 1943. Class 26.

Leys, Christie & Co., assignor to Leys, Christie & Co., Inc., New York, N. Y. Artificial pearls. 171,795; renewed Aug. 14, 1943.

Lindemann, A. J., & Hoverson Company, assignor, by mesne assignments, to A. J. Lindemann & Hoverson Company, Milwaukee, Wis. Electric stones, heaters, sadirons, etc. 171,019; renewed July 31, 1943.

Ling, Florence L. K., doing business as Ling Ranch, San Jose, Calif. Walnuts. 400,832. Apr. 6; Serial No. 450,313; published May 12, 1942. Class 46.

Malt Diastase Company, New York, to Malt-Diastase Company, Brooklyn, N. Y. Concentrated liquid malt extracts. 167,086; renewed Apr. 24, 1943.

Malt-Diastase Company, New York, to Malt-Diastase Company, Brooklyn, N. Y. Malt extracts. 168,921; renewed May 29, 1943.

Maritime Chemical & Repair Corporation, Brooklyn, N. Y. Chemical solvent compounds. 400,837; Apr. 6; Serial No. 452,077; published Jan. 19, 1943. Class 6.

Masonite Corporation, Chicago, Ill. Lignin plastic molding materials. 400,840; Apr. 6; Serial No. 452,750; published Aug. 18, 1942. Class 1.

McCaffrey Ruddock Tagline Corporation, Los Angeles, Calif. Spring operated mechanism for controlling the operation of material handling equipment. 400,841; Apr. 6; Serial No. 452,833; published Jan. 12, 1943. Class 23.

Merrick Scale Mfg. Company, Passaic, N. J. Automatic and continuous weighing apparatus, recording mechanism for weighing mechanism, and combined automatic weighing and weight-recording mechanism. 167,234; renewed Apr. 24, 1943.

Mica Insulator Company, New York, N. Y. Treated and untreated tapes for electrical insulation purposes. 171,086; renewed July 31, 1943.

Mid-West Shoe Supplies Company, St. Louis, Mo. Cement for adhering shoe parts together. 400,859; Apr. 6; Serial No. 455,951; published Jan. 26, 1943. Class 5.

Munsingwear, Inc., Minneapolis, Minn. Hosiery. 400,891; Apr. 6; Serial No. 456,854; published Jan. 19, 1943. Class 39.

Nickel, Edwin F., Inc., Versailles, Ohio. Burial vaults, mausoleums, and burial casket containers. 400,908; Apr. 6; Serial No. 457,139; published Jan. 26, 1943. Class 2.

Northern Paper Mills, Green Bay, Wis. Toilet paper. 169,174; repewed June 12, 1943.

Ocean Shore Canning Co., The, Halfmoon Bay, to Elmhurst Packers, Inc., Oakland, Calif., successor. Canned fruits and canned vegetables. 161,971; renewed Nov. 28, 1942.

Old Dutch Mills, Inc., New York, N. Y. Coffee. 170,220; renewed July 10, 1943.

Old Dutch Mills, Inc., New York, N. Y. Cocoa, tea and rice. 170,792; renewed July 24, 1943.

Pacific Engineering Corporation, Los Angeles, Calif. Portable adjustable scaffold. 400,846; Apr. 6; Serial No. 454,198; published Jan. 12, 1943. Class 23.

Parker, Chas. V., Co., Harrisburg, Ill. Wearing apparel. 171,716; renewed Aug. 14, 1943.

Petroleum Iron Works Company, Inc., The, Petroleum, Hubbard Township, Ohio, and Sharon, Pa. Sheet metal barrels, sheet metal drums, and sheet metal pails. 400,854; Apr. 6; Serial No. 455,869; published Jan. 26, 1943. Class 2.

Petroleum Iron Works Company, Inc., The, Petroleum, Hubbard Township, Ohio, and Sharon, Pa. Sheet metal barrels, sheet metal drums, sheet metal tanks, etc. 400,855; Apr. 6; Serial No. 455,870; published Jan. 26, 1943. Class 2.

Philco Corporation, Philadelphia, Pa. Sulphuric acid, electrolyte, and jar finishing solution. 400,835; Apr. 6; Serial No. 450,941; published Jan. 19, 1943. Class 6.

Pioneer Suspender Company, Philadelphia, Pa. Wallets and billfolds. 400,858; Apr. 6; Serial No. 455,929; published Jan. 26, 1943. Class 3.

Pittsburgh Plate Glass Company, Pittsburgh, Pa. Liquid and paste paints. 170,296; renewed July 10, 1943.

Pittsburgh Plate Glass Company, Pittsburgh, Pa. Varnish. 170,318; renewed July 10, 1943.

Pittsburgh Plate Glass Company, Pittsburgh, Pa. Liquid and paste paints. 170,768; renewed July 24, 1943.

Powell Knitting Company, The, Philadelphia, Pa. Hosiery. 171,460; renewed Aug. 7, 1943.

Powell Knitting Company, The, Philadelphia, Pa. Hosiery. 171,467; renewed Aug. 7, 1943.

Preacher, Henry M., doing business as Scott Drug Company, Kingstree, S. C. Liquid preparation. 400,876; Apr. 6; Serial No. 456,630; published Jan. 19, 1943. Class 6.

Premo Pharmaceutical Laboratories, Inc., New York, N. Y. Cough syrup and expectorant. 400,826; Apr. 6; Serial No. 449,018; published Jan. 26, 1943. Class 6.

Purcell, Isaac S., doing business as Asbestos Manufacturing Company, Michigan City, Ind. Clear preservative for wood. 400,924–5; Apr. 6. Class 6.

Quality Premium Distributors, Philadelphia, Pa. Dishes made of plastic material. 400,905; Apr. 6; Serial No. 457,105; published Jan. 26, 1943. Class 2.

Renart Sportswear Corp., New York, N. Y. Women's and girls' sweaters. 400,860; Apr. 6; Serial No. 455,958; published Jan. 26, 1943. Class 39.

Roberts, Weldon, Rubber Co., Newark, N. J. Discs, wheels, tablets, etc., for metal polishing and cleaning operations. 400,872–3; Apr. 6; Serial Nos. 456,548–9; published Jan. 26, 1943. Class 4.

Roessler & Hasslacher Chemical Company, The, New York, N. Y., assignor, by mesne assignments, to E. I. du Pont de Nemours and Company, Wilmington, Del. Composition of matter for use in electroplating. 165,603; renewed Mar. 13, 1943.

Rogers, J. J., & Sons, Tupelo, Miss. Wheat flour. 400,839; Apr. 6; Serial No. 452,459; published July 21, 1942. Class 46.

Rogerson, Robert, to Bob Rogerson Company, Chicago, Ill., successor. Salve for the treatment of blood poison and a healing salve. 165,739; renewed Mar. 20, 1943.

S. A. Fabrica Argentina de Alpargatas, Buenos Aires, Argentina. Men's and women's jute or hemp soled fabric shoes. 400,847; Apr. 6; Serial No. 454,465; published Jan. 26, 1943. Class 39.

S. & G. Rubber Company, Inc. (See Zales Bros.)

Saks & Company, New York, N. Y. Men's outer shirts. 400,844; Apr. 6; Serial No. 454,148; published Jan. 5, 1943. Class 39.

Sandoz Chemical Works, Inc., New York, N. Y. Medicinal preparation. 400,893; Apr. 6; Serial No. 456,905; published Jan. 19, 1943. Class 6.

San Francisco Sulphur Co., San Francisco, Calif. Sulphur. 164,495; renewed Feb. 20, 1943.

San Francisco Sulphur Co., San Francisco, Calif. Sulphur. 165,497; renewed Mar. 13, 1943.

Santa Paula Citrus Fruit Association, Santa Paula, Calif. Fresh lemons. 171,436; renewed Aug. 7, 1943.

Sawyers, Ray L., doing business as Bombé Products, Kansas City, Mo. Ointment for use in the treatment of itching skin, a nerve sedative, diuretic pills, etc. 400,888; Apr. 6; Serial No. 456,779; published Jan. 26, 1943. Class 6.

Schreiber, A. H., & Co., New York, N. Y. Ladies' panties. 400,898; Apr. 6; Serial No. 456,963; published Jan. 26, 1943. Class 39.

Scott Drug Company. (See Preacher, Henry M.)

Sears, Peggie, assignor to Floyd A. Sears, Binghamton, N. Y. Women's sportswear. 400,823; Apr. 6; Serial No. 448,529; published Jan. 19, 1943. Class 39.

Seederer-Kohlbusch, Inc., Jersey City, N. J. Precision balances. 400,845; Apr. 6; Serial No. 454,149; published Jan. 26, 1943. Class 26.

Selby Shoe Company, Portsmouth, Ohio. Shoes. 400,850; Apr. 6; Serial No. 455,167; published Nov. 3, 1942. Class 39.

Seymour Manufacturing Company, The, Seymour, Conn. Metals. 171,833; renewed Aug. 14, 1943.

Seymour Manufacturing Company, The, Seymour, Conn. Metal alloys in various forms. 171,834; renewed Aug. 14, 1943.

Sharp & Dohme, Incorporated, Philadelphia, Pa. Pharmaceutical preparations. 400,909; Apr. 6; Serial No. 457,158; published Jan. 26, 1943. Class 6.

Shull, William A., doing business as The Velvetta Mfg. Co., Philadelphia, Pa. Insecticide. 400,911; Apr. 6; Serial No. 457,174; published Jan. 26, 1943. Class 6.

Siph-O Products Corporation. (See Gavaza, George V.)

Smith & Egge Manf'g. Co., The, Bridgeport, assignor to Turner & Seymour Manufacturing Company, Torrington, Conn. Chains, Sheet-metal. 171,774; renewed Aug. 14, 1943.

Smith, James H., Portland, Maine. Long handled implements for manipulating logs in an open fireplace. 400,824; Apr. 6; Serial No. 448,710; published Jan. 19, 1943. Class 23.

Southern Saw Works, Atlanta, Ga. Saws. 171,763; renewed Aug. 14, 1943.

Staffel, Ferd Co., San Antonio, Tex. Medicinal preparation. 400,833; Apr. 6; Serial No. 450,348; published Mar. 31, 1942. Class 6.

Standard Pool Cleaner Company, Canton, Ohio. Gravity suction or pump operated vacuum cleaners. 400,825; Apr. 6; Serial No. 448,989; published Jan. 19, 1943. Class 23.

Stanley Home Products, Inc., Westfield, Mass. Brooms. 400,830; Apr. 6; Serial No. 450,032; published June 2, 1942. Class 29.

Steele-Wedeles Co., Chicago, Ill. Miscellaneous groceries. 171,139; renewed July 31, 1943.

Summerbell Roof Structures, Los Angeles, Calif. Roof trusses and laminated wooden arches. 400,919; Apr. 6. Class 12.

Superior Steel Corporation, Carnegie and Pittsburgh, Pa. Metal strip or sheet material. 400,883; Apr. 6; Serial No. 456,734; published Jan. 26, 1943. Class 14.

Sussberg & Feinberg, Inc., New York, N. Y. Women's and misses' lingerie. 400,879; Apr. 6; Serial No. 456,663; published Jan. 19, 1943. Class 39.

Swanson Bros., Inc., also doing business as Eureka Tea Company, Chicago, Ill. Fluorescent electric lamps. 400,918; Apr. 6. Class 21.

Sylvia Originals, New York, N. Y. Hostess gowns. 400,863; Apr. 6; Serial No. 456,207; published Jan. 12, 1943. Class 39.

Technicraft Engineering Company. (See Lane-Wells Company.)

Tin-Kote Laboratories, Revere, Mass. Tinning and soldering compound. 400,880; Apr. 6; Serial No. 456,676; published Jan. 19, 1943. Class 6.

Tivoli Brewing Company, Detroit, Mich. Beer. 400,818; Apr. 6; Serial No. 442,541; published Jan. 26, 1943 Class 48.

Tobin, Edith D., doing business as Jack Tobin, Philadelphia, Pa. Ladies' and misses' dresses. 400,849; Apr. 6; Serial No. 454,785; published Nov. 24, 1942. Class 39.

Ton-Tex Corporation, Grand Rapids, Mich., and New York, N. Y. Transmission belting, conveyer belting, strapping for mechanical use and non-metallic washers. 400,899; Apr. 6; Serial No. 456,992; published Jan. 26, 1943. Class 35.

Turner & Seymour Manufacturing Company, The. (See Smith & Egge Manf'g Co., The, assignor.)

United Chemical Company, Inc., Kansas City, Mo. Disinfectant. 400,922; Apr. 6. Class 6.

Valle, M., y Ca., Inc., assignor, by mesne assignments, to The American Tobacco Company, New York, N. Y. Cigars. 167,096; renewed Apr. 24, 1943.

Veit & Young, Philadelphia, Pa. Dies, jigs, cartridge loading machines, etc. 400,828; Apr. 6; Serial No. 449,871; published Jan. 19, 1943. Class 23.

Velvetta Mfg. Co., The. (See Shull, William A.)

Victor Fruit Growers, Inc., to Victor Fruit Growers, Inc., Victor, Calif., successor. Fresh grapes. 166,226; renewed Mar. 27, 1943.

Vogue Placket Co., New York, N. Y. Button and buttonhole tape. 400,871; Apr. 6; Serial No. 456,547; published Jan. 19, 1943. Class 40.

Walters "Oxi" Corporation, Gary, Ind. Crystals used for removing soot, carbon scale, slag and the like. 400,856; Apr. 6; Serial No. 455,877; published Jan. 19, 1943. Class 6.

Walton, Charles, & Son, to Charles Walton & Son, Inc., Needham Heights, Mass., successor. Seamless elastic hosiery for sprains, varicose veins, weak knees, etc. 166,482; renewed Apr. 3, 1943.

Warwick Cheinical Company, West Warwick, R. I. Chemicals for finishing textile fabrics. 400,917; Apr. 6. Class 6.

Weidner, Paul R., Woburn, Mass., to Paul R. Weidner, Dorchester, Mass. Canned fruits, canned vegetables, dried fruits, etc. 170,150; renewed July 10, 1943.

Weinhaus, Samuel, Company, Inc., The, Pittsburgh, Pa. Wallets, pass cases, letter cases, etc. 400,892; Apr. 6; Serial No. 456879; published Jan. 26, 1943. Class 3.

Wendt, Ivar, Seattle, Wash. Canned crab meat. 400,920; Apr. 6. Class 46.

Whithouse Products Co., Chicago, Ill., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J., Compound for cleaning hands and the like. 171,877; renewed Aug. 14, 1943.

Whiting Leather & Belting Co., New York, N. Y. Leather belting. 400,926; Apr. 6. Class 35.

Wilson Brothers, Chicago, Ill. Men's dress and negligee shirts, pyjamas, and underwear of textile fabric. 171,242; renewed July 31, 1943.

Wilson Manufacturing Corp., New York, N. Y. Sweaters, outer shirts, and trousers for men. 400,829; Apr. 6; Serial No. 448,872; published Jan. 19, 1943. Class 39

Wilson, Owen C., Boone, N. C. Preparation for coloring and preserving meat. 400,921; Apr. 6. Class 6.

Winthrop Chemical Company, Inc., New York, N. Y. Pentavalent antimony preparation. 400,894; Apr. 6; Serial No. 456,911; published Jan. 26, 1943. Class 6.

Wrigley, Wm., Jr., Company, assignor to Wm. Wrigley Jr. Company, Chicago, Ill. Sugar-coated chewing gum. 167,091; renewed Apr. 24, 1943.

Xana Inc., New York, N. Y. Brassières, corsets, and ladies' nightgowns. 400,831; Apr. 6; Serial No. 450,040; published Apr. 7, 1942. Class 39.

Yates, George, doing business as Yates Manufacturing Company, Glendale, Calif. Clamps for temporarily holding sheet metal and analogous members together while they are in the process of being permanently secured. 400,819; Apr. 6; Serial No. 443,315; published Jan. 12, 1943. Class 23.

York Pharmacal Company, St. Louis, Mo. Cigarette lighter fluid. 400,910; Apr. 6; Serial No. 457,181; published Jan. 26, 1943. Class 6.

Zales Bros., New York, assignor, by mesne assignments, to S. & G. Rubber Company, Inc., Suffern, N. Y. Notions. 168,909; renewed May 29, 1943.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Excelsior, excelsior products. Excelsior Wrapping Company. 161,132; re-renewed Nov. 7, 1942.

Excelsior, excelsior products. Excelsior Wrapping Company. 165,394; renewed Mar. 6, 1943.

Lignin plastic molding materials. Masonite Corporation. 400,840; Apr. 6; Serial No. 452,750; published Aug. 18, 1942.

Slagg aggregate, Expanded. Celotex Corporation. 400,822; Apr. 6; Serial No. 448,407; published Jan. 26, 1943.

CLASS 2

Barrels, sheet metal drums, and sheet metal pails, Sheet metal. Petroleum Iron Works Company. 400,854; Apr. 6; Serial No. 455,869; published Jan. 26, 1943.

Barrels, sheet metal drums, sheet metal tanks, etc., Sheet metal. Petroleum Iron Works Company. 400,855; Apr. 6; Serial No. 455,870; published Jan. 26, 1943.

Dishes made of plastic material. Quality Premium Distributors. 400,905; Apr. 6; Serial No. 457,105; published Jan. 26, 1943.

Vaults, mausoleums, and burial casket containers, Burial. Edwin F. Nickol, Inc. 400,908; Apr. 6; Serial No. 457,139; published Jan. 26, 1943.

CLASS 3

Wallets and billfolds. Pioneer Suspender Company. 400,858; Apr. 6; Serial No. 455,929; published Jan. 26, 1943.

Wallets, pass cases, letter cases, etc. Samuel Weinhaus Company. 400,892; Apr. 6; Serial No. 456,879; published Jan. 26, 1943.

CLASS 4

Cleanser for wood, metals, glass, etc. Beacon Chemical Corporation. 400,868; Apr. 6; Serial No. 456,486; published Jan. 26, 1943.

Cleanser, Hand. Irene Blake Cosmetics, Inc. 400,852; Apr. 6; Serial No. 455,586; published Jan. 26, 1943.

Compound for cleaning hands and the like. Whithouse Products Co. 171,877; renewed Aug. 14, 1943.

Discs, wheels, tablets, etc., for metal polishing and cleaning operations. Weldon Roberts Rubber Co. 400,872–3; Apr. 6; Serial Nos. 456,548–9; published Jan. 26, 1943.

Papers and cloths, Abrasive. H. H. Barton & Son Co. Inc. 171,082; renewed July 31, 1943.

Soap, Liquid, flake, powder and cake form. Harris Soap Company. 171,743; renewed Aug. 14, 1943.

Soap, Perfumed. J. Grossmith & Son, Limited. 169,545; renewed June 19, 1943.

CLASS 5

Cement for adhering shoe parts together. Mid-West Shoe Supplies Company. 400,859; Apr. 6; Serial No. 455,951; published Jan. 26, 1943.

CLASS 6

Chemical solution for treating fowls to facilitate plucking. L. W. Chumlea. 400,914; Apr. 6.

Chemical solvent compounds. Maritime Chemical & Repair Corporation. 400,837; Apr. 6; Serial No. 452,077; published Jan. 19, 1943.

Chemicals for finishing textile fabrics. Warwick Chemical Company. 400,917; Apr. 6.

Cologne. Lucien Lelong Inc. 400,887; Apr. 6; Serial No. 456,777; published Jan. 26, 1943.

Coloring and preserving meat. Preparation for. O. C. Wilson. 400,921; Apr. 6.

Composition of matter for use in electroplating. Roessler & Hasslacher Chemical Company. 165,603; renewed Mar. 13, 1943.

Cosmetic or nail cleansing treatment or finger tip moulding treatment. G. L. Ager. 400,869; Apr. 6; Serial No. 456,502; published Jan. 19, 1943.

Cough syrup and expectorant. Cremo Pharmaceutical Laboratories, Inc. 400,826; Apr. 6; Serial No. 449,018; published Jan. 26, 1943.

Crystals used for removing soot, carbon scale, slag and the like. Walters "Oxi" Corporation. 400,856; Apr. 6; Serial No. 455,877; published Jan. 19, 1943.

Dentifrice and mouth powder. Acme Laboratories, Inc. 400,838; Apr. 6; Serial No. 452,209; published Aug. 11, 1942.

Disinfectant. United Chemical Company. 400,922; Apr. 6.

Fluid, Cigarette lighter. York Pharmacal Company. 400,910; Apr. 6; Serial No. 457,181; published Jan. 26, 1943.

Hematinic tonic. Chicago Pharmacal Company. 400,902; Apr. 6; Serial No. 457,076; published Jan. 19, 1943.

Insecticide. W. A. Shull. 400,911; Apr. 6; Serial No. 457,174; published Jan. 26, 1943.

Lavender water. J. Grossmith & Son, Limited. 169,665; renewed June 26, 1943.

Liquid preparation. H. M. Preacher. 400,876; Apr. 6; Serial No. 456,630; published Jan. 19, 1943.
Medicinal preparation. J. Baalmann. 170,830; renewed July 24, 1943.
Medicinal preparation. J. C. Eno (U. S.), Limited. 400,814; Apr. 6; Serial No. 426,402; published Dec. 24, 1940.
Medicinal preparation. F. Staffel Co. 400,833; Apr. 6; Serial No. 450,348; published Mar. 31, 1942.
Medicinal preparation. Sandoz Chemical Works, Inc. 400,893; Apr. 6; Serial No. 456,905; published Jan. 19, 1943.
Medicinal vitamin preparations. American Home Products Corporation. 400,906; Apr. 6; Serial No. 457,109; published Jan. 19, 1943.
Medicine, Asthma. Asthma-Tol Co. 169,990; renewed July 10, 1943.
Narcotic preparation. Endo Products Inc. 400,895; Apr. 6; Serial No. 456,921; published Jan. 19, 1943.
Ointment for use in the treatment of itching skin, a nerve sedative, diuretic pills, etc. R. L. Sawyers. 400,888; Apr. 6; Serial No. 456,779; published Jan. 26, 1943.
Pentavalent antimony preparation. Winthrop Chemical Company. 400,894; Apr. 6; Serial No. 456,911; published Jan. 26, 1943.
Pharmaceutical preparations. Sharp & Dohme, Incorporated. 400,909; Apr. 6; Serial No. 457,158; published Jan. 26, 1943.
Photographic developing chemical. Defender Photo Supply Co. 400,923; Apr. 6.
Preparation for the treatment of athlete's foot and other infections of the skin. Duett Inc. 400,897; Apr. 6; Serial No. 456,937; published Jan. 26, 1943.
Preservative for wood, Clear. I. S. Purcell. 400,924–5; Apr. 6.
Salve for the treatment of blood poison and a healing salve. R. Rogerson. 165,739; renewed Mar. 20, 1943.
Sulphur. San Francisco Sulphur Co. 164,495; renewed Feb. 20, 1943.
Sulphur. San Francisco Sulphur Co. 165,497; renewed Mar. 13, 1943.
Sulphuric acid, electrolyte, and jar finishing solution. Philco Corporation. 400,835; Apr. 6; Serial No. 450,941; published Jan. 19, 1943.
Tinning and soldering compound. Tin-Kote Laboratories. 400,880; Apr. 6; Serial No. 456,676; published Jan. 19, 1943.
Tonic laxative compound. A. P. Durham. 400,820; Apr. 6; Serial No. 445,260; published Jan. 19, 1943.
Vitamin preparation. First Texas Chemical Manufacturing Co. 400,903; Apr. 6; Serial No. 457,077; published Jan. 19, 1943.
Wood preservatives, Liquid. Carbolineum Wood Preserving Co. 400,890; Apr. 6; Serial No. 456,843; published Jan. 26, 1943.

CLASSES 6 AND 46

Food or peptone, Artificially digested. Fairchild Bros. & Foster. 23,467; re-renewed Aug. 8, 1943.

CLASS 11

Typewriter ribbons and carbon paper. Columbia Ribbon & Carbon Mfg. Co. 168,426; renewed May 22, 1943.

CLASS 12

Roof trusses and laminated wooden arches. Summerbell Roof Structures. 400,919; Apr. 6.

CLASS 13

Chains, Sheet-metal. Smith & Egge Manf'g Co. 171,774; renewed Aug. 14, 1943.
Siphons, bath sprays, faucet adapters, etc., Automatic. G. V. Gavaza. 162,757; renewed Dec. 26, 1942.

CLASS 14

Chrome-iron-aluminum alloys. Driver-Harris Company. 400,889; Apr. 6; Serial No. 456,790; published Jan. 26, 1943.
Metal alloys in various forms. Seymour Manufacturing Company. 171,834; renewed Aug. 14, 1943.
Metal strip or sheet material. Superior Steel Corporation. 400,883; Apr. 6; Serial No. 456,734; published Jan. 26, 1943.
Metals. Seymour Manufacturing Company. 171,833; renewed Aug. 14, 1943.

CLASS 16

Paints, enamels, varnishes, etc., and colors in oil. Lansing Paint and Color Co. 164,668; renewed Feb. 27, 1943.
Paints, Liquid and paste. Pittsburgh Plate Glass Company. 170,296; renewed July 10, 1943.
Paints, Liquid and paste. Pittsburgh Plate Glass Company. 170,768; renewed July 24, 1943.
Varnish. Pittsburgh Plate Glass Company. 170,318; renewed July 10, 1943.
Varnishes. Berry Brothers. 170,770; renewed July 24, 1943.

CLASS 17

Cigars. M. Valle y Ca., Inc. 167,096; renewed Apr. 24, 1943.

CLASS 19

Bicycles, tricycles, motor trucks, etc. Humber Limited. 170,590; renewed July 17, 1943.

CLASS 20

Floor covering, Printed felt-base. Carthage Mills Incorporated. 400,9[illegible]; Apr. 6.

CLASS 21

Electric battery chargers and parts thereof. Equipment Manufacturing Inc. 400,912–13; Apr. 6.
Electric stoves, heaters, sadirons, etc. A. J. Lindemann & Hoverson Company. 171,019; renewed July 31, 1943.
Fiber conduits for electrical purposes. Brown Company. 171,053; renewed July 31, 1943.
Fluorescent electric lamps. Swanson Bros., Inc. 400,918; Apr. 6.
Ozone generator designed to sterilize water and other materials. Lane-Wells Company. 400,851; Apr. 6; Serial No. 455,192; published Jan. 26, 1943.
Tapes for electrical insulation purposes, Treated and untreated. Mica Insulator Company. 171,086; renewed July 31, 1943.

CLASS 22

Dolls. G. Borgfeldt & Co. 171,046; renewed July 31, 1943.
Dolls. G. Borgfeldt & Co. 171,584; renewed Aug. 7, 1943.
Fishing tackle. Firestone Tire & Rubber Company. 400,821; Apr. 6; Serial No. 448,318; published Jan. 26, 1943.

CLASS 23

Apparatus for the treatment of solids suspended in liquids and more particularly for sewage sludge treating systems. Dorr Company. 400,878; Apr. 6; Serial No. 456,652; published Jan. 29, 1943.
Clamps for temporarily holding sheet metal and analogous members together while they are in the process of being permanently secured. G. Yates. 400,819; Apr. 6; Serial No. 443,315; published Jan. 12, 1943.
Clamps, particularly C-clamps, Work retaining. Grand Specialties Company. 400,864; Apr. 6; Serial No. 456,239; published Dec. 22, 1942.
Cleaners, Gravity suction or pump operated vacuum. Standard Pool Cleaner Company. 400,825; Apr. 6; Serial No. 448,989; published Jan. 19, 1943.
Dies, jigs, cartridge loading machines, etc. Veit & Young. 400,828; Apr. 6; Serial No. 449,871; published Jan. 19, 1943.
Implements for manipulating logs in an open fireplace, Long handled. J. H. Smith. 400,824; Apr. 6; Serial No. 448,710; published Jan. 19, 1943.
Loom supplies. E. H. Jacobs Manufacturing Co. 400,904; Apr. 6; Serial No. 457,091; published Jan. 19, 1943.
Machinery, Milling. B. F. Gump Co. 170,208; renewed July 10, 1943.
Mechanism for controlling the operation of material handling equipment, Spring operated. McCaffrey Ruddock Tagline Corporation. 400,841; Apr. 6; Serial No. 452,833; published Jan. 12, 1943.
Pumps, cylinders, spray pumps, Hand. Deming Company. 400,853; Apr. 6; Serial No. 455,716; published Jan. 12, 1943.
Razors, Safety. Gillette Safety Razor Company. 400,896; Apr. 6; Serial No. 456,922; published Jan. 12, 1943.
Saws. H. Disston & Sons, Incorporated. 400,834; Apr. 6; Serial No. 450,733; published Jan. 12, 1943.
Saws. Southern Saw Works. 171,763; renewed Aug. 14, 1943.
Scaffold, Portable adjustable. Pacific Engineering Corporation. 400,846; Apr. 6; Serial No. 454,198; published Jan. 12, 1943.
Tapping attachments, multiple tapping heads, and tapping machines including parts thereof. Etco Tool Co. Inc. 400,836; Apr. 6; Serial No. 451,930; published Jan. 26, 1943.
Tool, Wire twisting. Jack & Heintz, Inc. 400,874–5; Apr. 6; Serial Nos. 456,603–4; published Jan. 19, 1943.
Tools and accessories thereof and parts therefor. International Union, United Automobile Workers of America, affiliated with the Congress of Industrial Organizations. 400,815; Apr. 6; Serial No. 429,774; published Jan. 26, 1943.

CLASS 24

Washing and wringing machines, clothes washing machine, clothes wringers, and ironing machine, Clothes. Apex Electrical Manufacturing Company. 164,962; renewed Feb. 27, 1943.

CLASS 26

Gauges and instruments; medical thermometers. Les Fabriques d'Assortiments Réunies. 400,882; Apr. 6; Serial No. 456,718; published Jan. 26, 1943.
Motion picture screens. Da-Lite Screen Company. 400,842; Apr. 6; Serial No. 453,733; published Jan. 26, 1943.
Precision balances. Seederer-Kohlbusch, Inc. 400,845; Apr. 6; Serial No. 454,149; published Jan. 26, 1943.
Pyrometer attachments. Elematic Corporation. 400,843; Apr. 6; Serial No. 453,935; published Jan. 26, 1943.
Scales, Balances and weighing. Christian Becker, Inc. 171,827; renewed Aug. 14, 1943.

Weighing apparatus, recording mechanism for weighing mechanism, and combined automatic weighing and weight-recording mechanism, Automatic and continuous. Merrick Scale Mfg. Company. 167,234; renewed Apr. 24, 1943.

CLASS 28

Pearls, Artificial. Leys, Christie & Co. 171,795; renewed Aug. 14, 1943.

CLASS 29

Brooms. Stanley Home Products, Inc. 400,830; Apr. 6; Serial No. 450,032; published June 2, 1942.

CLASS 32

Tables, Typewriter. Grasten Company. 400,870; Apr. 6; Serial No. 456,531; published Jan. 26, 1943.

CLASS 35

Belting and flat leather belting, Round leather. Charles Bond Company. 171,509; renewed Aug. 7, 1943.
Belting, conveyer belting, strapping for mechanical use and non-metallic washers, Transmission. Ton-Tex Corporation. 400,899; Apr. 6; Serial No. 456,992; published Jan. 26, 1943.
Belting, Leather. Whiting Leather & Belting Co. 400,926; Apr. 6.

CLASS 37

Paper for meat and other foods, Sheets of waxed. Holly Molding Devices. 400,915; Apr. 6.
Paper products. Brown Company. 168,705; renewed May 29, 1943.
Paper, Toilet. Northern Paper Mills. 169,174; renewed June 12, 1943.
Paper, Wrapping. Alling & Cory Company. 171,001; renewed July 31, 1943.
Pencils and pencil leads, Lead. American Lead Pencil Company. 400,817; Apr. 6; Serial No. 438,601; published Jan. 26, 1943.

CLASS 39

Apparel, Wearing. C. V. Parker Co. 171,716; renewed Aug. 14, 1943.
Blouses, sweaters, dresses, etc., Women's and misses'. Bonwit Teller, Inc. 400,827; Apr. 6; Serial No. 449,719; published Jan. 19, 1943.
Brassières, corsets and ladies' nightgowns. Nana Inc. 400,831; Apr. 6; Serial No. 450,040; published Apr. 7, 1942.
Coats and suits. Hiller Bros. & Hiller, Inc. 400,866; Apr. 6; Serial No. 456,390; published Jan. 5, 1943.
Coats, suits, jackets, etc., Ladies' and misses'. Morris W. Haft & Brothers. 400,884; Apr. 6; Serial No. 456,740; published Jan. 12, 1943.
Coats, suits, jackets, etc., Ladies' and misses'. Morris W. Haft & Brothers. 400,907; Apr. 6; Serial No. 457,120; published Jan. 26, 1943.
Dresses and aprons, Ladies' and misses'. S. J. Goldfarb. 400,861; Apr. 6; Serial No. 456,099; published Jan. 12, 1943.
Dresses and suits, Ladies' and misses'. Alexander S. Gross & Bro. 400,862; Apr. 6; Serial No. 456,119; published Jan. 26, 1943.
Dresses, Ladies' and misses'. David E. Gottlieb Inc. 400,886; Apr. 6; Serial No. 456,772; published Jan. 12, 1943.
Dresses, Ladies' and misses'. E. D. Tobin. 400,849; Apr. 6; Serial No. 454,785; published Nov. 24, 1942.
Gowns, Hostess. Sylvia Originals. 400,863; Apr. 6; Serial No. 456,207; published Jan. 12, 1943.
Handkerchiefs. H. Engel & Sons. 165,017; renewed Feb. 27, 1943.
Hats, Light weight hot weather men's and boys'. International Hat Company. 400,867; Apr. 6; Serial No. 456,423; published Jan. 19, 1943.
Hats, Men's. Boyd-Richardson Company. 400,865; Apr. 6; Serial No. 456,302; published Jan. 26, 1943.
Hose, Men's, women's, and children's. D. J. Healy. 171,726; renewed Aug. 14, 1943.
Hosiery. Courtaulds, Limited. 400,901; Apr. 6; Serial No. 457,031; published Jan. 26, 1943.
Hosiery. Powell Knitting Company. 171,460; renewed Aug. 7, 1943.
Hosiery. Munsingwear, Inc. 400,891; Apr. 6; Serial No. 456,854; published Jan. 19, 1943.
Hosiery. Powell Knitting Company. 171,467; renewed Aug. 7, 1943.
Lingerie, Women's and misses'. Sussberg & Feinberg, Inc. 400,879; Apr. 6; Serial No. 456,663; published Jan. 19, 1943.
Neckties. Franc-Strohmenger & Cowan, Inc. 400,900; Apr. 6; Serial No. 457,006; published Jan. 26, 1943.
Panties, Ladies'. A. H. Schreiber Co. 400,898; Apr. 6; Serial No. 456,963; published Jan. 26, 1943.
Robes, Bath, beach, and lounging. Blue Ridge Spread Company. 400,881; Apr. 6; Serial No. 456,709; published Jan. 26, 1943.
Shirts, Men's outer. Saks & Company. 400,844; Apr. 6; Serial No. 454,148; published Jan. 5, 1943.
Shirts, pyjamas, and underwear of textile fabric, Men's dress and negligee. Wilson Brothers. 171,242; renewed July 31, 1943.
Shirts, slacks, ensemble suits, etc., Men's. Bloch-Heller Company. 400,857; Apr. 6; Serial No. 455,902; published Jan. 26, 1943.
Shirts, Work. Carter Dry Goods Co. 171,887; renewed Aug. 14, 1943.
Shoe heels. C. H. Coulson. 170,731; renewed July 24, 1943.
Shoes. Selby Shoe Company. 400,850; Apr. 6; Serial No. 455,167; published Nov. 3, 1942.
Shoes, Men's and women's jute or hemp soled fabric. S. A. Fabrica Argentina De Alpargatas. 400,847; Apr. 6; Serial No. 454,465; published Jan. 26, 1943.
Sportswear, Women's. P. Sears. 400,823; Apr. 6; Serial No. 448,529; published Jan. 19, 1943.
Sweaters, scarfs, knitted suits, etc. Gotham Knitting Mills, Inc. 171,775; renewed Aug. 14, 1943.
Sweaters, outer shirts, and trousers for men. Wilson Manufacturing Corp. 400,829; Apr. 6; Serial No. 449,872; published Jan. 19, 1943.
Sweaters, Women's and girls'. Renart Sportswear Corp. 400,860; Apr. 6; Serial No. 455,958; published Jan. 26, 1943.

CLASS 40

Hooks and knitting needles, Crochet. H. C. Bates. 400,816; Apr. 6; Serial No. 435,602; published Nov. 26, 1940.
Notions. Zales Bros. 168,909; renewed May 29, 1943.
Tape, Button and buttonhole. Vogue Placket Co. 400,871; Apr. 6; Serial No. 456,547; published Jan. 19, 1943.

CLASS 42

Percales. Carter Dry Goods Co. 171,452; renewed Aug. 7, 1943.
Piece goods. Samuel Kirk & Son, Limited. 169,989; renewed July 10, 1943.
Piece goods, Woolen. Forstmann & Huffmann Company. 165,687; renewed Mar. 20, 1943.

CLASS 44

Elastic hosiery for sprains, varicose veins, weak knees, etc., Seamless. Charles Walton & Son. 166,482; renewed Apr. 3, 1943.

CLASS 45

Soft drinks. J. F. Lazier Manufacturing Company. 171,050; renewed July 31, 1943.

CLASS 46

Canned corn. Illinois Canning Co. 23,481; re-renewed Aug. 15, 1943.
Canned crab meat. I. Wendt. 400,920; Apr. 6.
Canned fruits and canned vegetables. Ocean Shore Canning Co. 161,971; renewed Nov. 28, 1942.
Canned fruits, canned vegetables, dried fruits, etc. P. R. Weidner. 170,150; renewed July 10, 1943.
Cocoa, tea, and rice. Old Dutch Mills, Inc. 170,792; renewed July 24, 1943.
Coffee. Old Dutch Mills, Inc. 170,220; renewed July 10, 1943.
Coffee. J. F. Goodson & Company. 171,362; renewed Aug. 7, 1943.
Extracts for food-flavoring purposes. Foote & Jenks. 168,389; renewed May 22, 1943.
Feeds for livestock and poultry. Kentucky Chemical Industries, Inc. 400,885; Apr. 6; Serial No. 456,742; published Jan. 26, 1943.
Flour, Wheat. J. J. Rogers & Sons. 400,839; Apr. 6; Serial No. 452,459; published July 21, 1942.
Grapes, Fresh. Victor Fruit Growers, Inc. 166,226; renewed Mar. 27, 1943.
Groceries, Miscellaneous. Steele-Wedeles Co. 171,139; renewed July 31, 1943.
Gum, Sugar-coated chewing. Wm. Wrigley Jr. Company. 167,091; renewed Apr. 24, 1943.
Lemons, Fresh. Santa Paula Citrus Fruit Association. 171,436; renewed Aug. 7, 1943.
Nut food, Prepared. Battle Creek Food Company. 170,860; renewed July 24, 1943.
Spaghetti. Joseph Campbell Company. 166,870–1; renewed Apr. 17, 1943.
Sugar, Corn. Battle Creek Food Company. 171,529; renewed Aug. 7, 1943.
Walnuts. F. L. K. Ling. 400,832; Apr. 6; Serial No. 450,313; published May 12, 1942.

CLASS 48

Beer. Tivoli Brewing Company. 400,818; Apr. 6; Serial No. 442,541; published Jan. 26, 1943.
Beer. Burton Products, Inc. 400,848; Apr. 6; Serial No. 454,711; published Jan. 26, 1943.
Concentrated liquid malt extracts, Malt-Diastase Company. 167,086; renewed Apr. 24, 1943.
Malt extracts, Malt-Diastase Company. 168,921; renewed May 29, 1943.

CLASS 50

Awnings and tarpaulins. Indianapolis Tent & Awning Company. 170,015; renewed July 10, 1943.
Boards for foundry use, Bottom. Johns-Manville Corporation. 400,877; Apr. 6; Serial No. 456,637; published Jan. 26, 1943.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 6TH DAY OF APRIL, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

General Electric Company. (See Wyman, Bryce W., assignor.)

Sullivan, James F., Columbus, Ohio. Weighing scale. Re. 22,297; Apr. 6.

Wyman, Bryce W., Yeadon, Pa., assignor to General Electric Company. Gas blast circuit breaker. Re. 22,298; Apr. 6.

LIST OF DESIGN PATENTEES

Advertising Displays, Inc. (See Austin, Charles D., assignor.)

Austin, Charles D., Cincinnati, Ohio, assignor to Advertising Displays, Inc., Covington, Ky. Reading glass. 135,421; Apr. 6.

Austin, Charles D., Cincinnati, Ohio, assignor to Advertising Displays, Inc., Covington, Ky. Illuminable magnifying glass. 135,422; Apr. 6.

Bell Aircraft Corporation. (See Woods, Robert J., assignor.)

Bezborodko, David, New York, N. Y. Folding mirror or similar article. 135,404; Apr. 6.

Borten, Isidore, New Haven, Conn. Cap. 135,435; Apr. 6.

Brunswick-Balke-Collender Company, The. (See Kennedy, Robert E., assignor.)

Campbell, Sterling H., and F. H. Pietzsch, assignors to Railway Devices Company, St. Louis, Mo. Transitional angle cock holder. 135,423; Apr. 6.

Cashin, Bonnie, New York, N. Y. Dress. 135,449; Apr. 6.

Cashin, Bonnie, New York, N. Y. Dress. 135,450; Apr. 6.

Cashin, Bonnie, New York, N. Y. Dress. 135,451; Apr. 6.

Cashin, Bonnie, New York, N. Y. Dress. 135,452; Apr. 6.

Cashin, Bonnie, New York, N. Y. Dress. 135,453; Apr. 6.

Crosman, Loring P., South Orange, assignor to Monroe Calculating Machine Company, Orange, N. J. Listing calculator. 135,442; Apr. 6.

Decker, Sol, Chicago, Ill. Casing for hearing aids. 135,443; Apr. 6.

De Long, Arthur R., Chicago, Ill. Bread slicing board. 135,413; Apr. 6.

Du Pont, Edmund. (See Grant, H. C., Jr., and Du Pont.)

Exhibit Supply Company, The. (See Meyer, John F., assignor.)

Forst, John G., Albany, N. Y. Game board. 135,414; Apr. 6.

Grant, Harry C., Jr., New York, N. Y., and E. Du Pont, assignors to Specialties Development Corporation, Bloomfield, N. J. Flame operated switch or similar article. 135,444; Apr. 6.

Halpert, Percy, Kew Gardens, and J. B. Schaefer, Glen Head, assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Automatic pilot indicator for aircraft. 135,415; Apr. 6.

Hat Corporation of America. (See Maxwell, P. M., and Russy, assignors.)

Heimerman, Olive L., Fond du Lac, Wis. Apron. 135,445; Apr. 6.

Hettrick Manufacturing Company, The. (See Smith, William I., assignor.)

Hull, David B., Bethesda, Md. Follower block for a filing drawer. 135,416; Apr. 6.

Jantzen Knitting Mills. (See Scriggins, Edwin P., assignor.)

Judd, Clifford W., Rochester, N. Y. Toy vehicle. 135,424; Apr. 6.

Karoff, Mary S., New York, N. Y. Bag or similar article. 135,446; Apr. 6.

Kellett, Rayford, and F. C. Robinson, Leavenworth, Kans. Jewelry finding or similar article. 135,436; Apr. 6.

Kennedy, Robert E., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Combined bowling alley bed and approach or similar article. 135,447; Apr. 6.

Lake, William W., et al. (See Wade, John L., assignor.)

Maxwell, Paul M., Manhasset, N. Y., and W. J. Russy, Jersey City, N. J., assignors to Hat Corporation of America, Norwalk, Conn. Cap. 135,437; Apr. 6.

Maxwell, Paul M., Manhasset, N. Y., and W. J. Russy, Jersey City, N. J., assignors to Hat Corporation of America, Norwalk, Conn. Cap. 135,439; Apr. 6.

McLaren, Roy W., Oaklyn, N. J. Aligning and holding bracket for plate welding operations. 135,425; Apr. 6.

Monroe Calculating Machine Company. (See Crosman, Loring P., assignor.)

Meyer, John F., assignor to The Exhibit Supply Company, Chicago, Ill. Amusement apparatus. 135,407; Apr. 6.

Meyer, John F., assignor to The Exhibit Supply Company, Chicago, Ill. Amusement apparatus. 135,410; Apr. 6.

Meyer, John F., assignor to The Exhibit Supply Company, Chicago, Ill. Amusement apparatus. 135,411; Apr. 6.

Meyer, John F., assignor to The Exhibit Supply Company, Chicago, Ill. Cabinet for an amusement apparatus. 135,405; Apr. 6.

Meyer, John F., assignor to The Exhibit Supply Company, Chicago, Ill. Cabinet for an amusement apparatus. 135,406; Apr. 6.

Meyer, John F., assignor to The Exhibit Supply Company, Chicago, Ill. Cabinet for an amusement apparatus. 135,408; Apr. 6.

Meyer, John F., assignor to The Exhibit Supply Company, Chicago, Ill. Cabinet for an amusement apparatus. 135,409; Apr. 6.

Meyer, John F., assignor to The Exhibit Supply Company, Chicago, Ill. Cabinet for a vending machine. 135,412; Apr. 6.

Norris, Lannie F., Minneapolis, Minn. Milk can. 135,454; Apr. 6.

Oppenheim, Ruth C., New York, N. Y. Table scarf or similar article. 135,438; Apr. 6.

Otto, William H., San Francisco, Calif. Hubcap tool. 135,426; Apr. 6.

Pietzsch, Frank H. (See Campbell, S. H., and Pietzsch.)

Railway Devices Company. (See Campbell, S. H., and Pietzsch, assignors.)

Reid, Volney L., Rutherfordton, N. C. Pin or similar article. 135,427; Apr. 6.

Robinson, Frank C. (See Kellett, R., and Robinson.)

Russy, Wilhemina J. (See Maxwell, P. M., and Russy.)

Sager, Solomon M., Chicago, Ill. Fountain pen section or similar article. 135,448; Apr. 6.

Schaefer, Joseph B. (See Halpert, P., and Schaefer.)

Schoenfeld, Harry, New York, N. Y. Handbag. 135,428; Apr. 6.

Scriggins, Edwin P., East Orange, N. J., assignor to Jantzen Knitting Mills, Portland, Oreg. Panty-girdle. 135,440; Apr. 6.

Seigh, Wallace D., Johnstown, Pa. Fruit juice extractor. 135,429; Apr. 6.

Sherman, William, New York, N. Y. Combined slipper and sock. 135,432; Apr. 6.

Smith, William I., Goshen, Ind., assignor to The Hettrick Manufacturing Company, Toledo, Ohio. Chaise longue. 135,417; Apr. 6.

Specialties Development Corporation. (See Grant, H. C., Jr., and Du Pont, assignors.)

Sperry Gyroscope Company. (See Halpert, P., and Schaefer, assignors.)

Staley, Harry M., Toledo, Ohio. Knife sharpener. 135,441; Apr. 6.

Stamets, William E., Galesburg, Ill. Medal or the like. 135,430; Apr. 6.

Swanson, Ray, et al. (See Wade, John L., assignor.)

Turner, William J., Northport, N. Y. Ruler. 135,418; Apr. 6.

Wade, John L., assignor of one-third to R. Swanson, Los Angeles, and one-third to W. W. Lake, Pasadena, Calif. Butter mold or similar article. 135,419; Apr. 6.

Wiener, Jack, New York, N. Y. Embroidered lace. 135,433; Apr. 6.

Woods, Robert J., Grand Island, assignor to Bell Aircraft Corporation, Buffalo, N. Y. Helicopter. 135,434; Apr. 6.

Zimmerman, Jack, New York, N. Y. Separable fur scarf. 135,420; Apr. 6.

Zinaman, Murray, New York, N. Y. Slip. 135,431; Apr. 6.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 6TH DAY OF APRIL, 1943

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Acme Steel Company. (See Childress, William C., assignor.)
Acme Steel Company. (See Morse, Lulan S. and Clarence W., assignors.)
Actiengesellschaft Joh. Jacob Rieter & Cie. (See Oetlli, J., and Hess, assignors.)
Adams, Paul G. (See Lewis, R. H., and Adams.)
Ahrndt, Arthur H., assignor to U. S. Slicing Machine Company, La Porte, Ind. Bread slicer. 2,315,761; Apr. 6.
Aldeen, Gedor W., assignor to American Cabinet Hardware Corp., Rockford, Ill. Hinge construction and making same. 2,315,488; Apr. 6.
Alien Property Custodian. (See Beeg, Hermann, and Weichert.)
Alien Property Custodian. (See Bertram, Simon H.)
Alien Property Custodian. (See Lautrette, Jean A., assignor.)
Alien Property Custodian. (See Mulder, Cornelis A. H.)
Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company, Electric drive. 2,315,489; Apr. 6.
Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company, Electric drive. 2,315,490; Apr. 6.
Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company, Electric drive. 2,315,491; Apr. 6.
Allied Chemical & Dye Corporation. (See Cline, Edwin L., assignor.)
Allied Chemical & Dye Corporation. (See Miller, Alfred, assignor.)
Allis-Chalmers Manufacturing Company. (See Montgomery, Terrill B., assignor.)
Almond, T. R., Manufacturing Co. (See Hubbell, Minott P., assignor.)
American Cabinet Hardware Corp. (See Aldeen, Gedor W., assignor.)
American Can Company. (See Jordan, Warren D., assignor.)
American Can Company. (See McCann, Leland R., assignor.)
American Can Company. (See Taylor, Russell C., assignor.)
American Engineering Company. (See Lamond, Robert C., assignor.)
American Locomotive Company. (See Gunter, Addison Y., assignor.)
American Optical Company. (See Beitel, Robert J., Jr., assignor.)
American Rolling Mill Company, The. (See Hudson, Edwin B., assignor.)
American Steel and Wire Company of New Jersey, The. (See Brickman, Alan E., assignor.)
American Swiss Company. (See Rightmyer, Holden W., assignor.)
Anaconda Wire and Cable Company. (See Rosch, Samuel J., assignor.)
Andersag, Hans. (See Salzer, W., and Andersag.)
Anderson, Clarence T. (See Dean, R. S., and Anderson.)
Anderson, John A., assignor to Standard Oil Company, Chicago, Ill. Lubricant. 2,316,089; Apr. 6.
Anderson, John E., Portland, assignor to United Aircraft Corporation, East Hartford, Conn. Propeller blade mounting. 2,315,574; Apr. 6.
Anderson, Paul E., and Jon Joseph Yolles (also known as Jack Yolles, or Jacob Yolles), Dayton, Ohio. Leadin insulator. 2,315,492; Apr. 6.
Apex Railway Products Co. (See Lave, Roy E., assignor.)
Armentrout, Gerald E., Flint, Mich., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Simulating hammered metal. 2,316,041; Apr. 6.
Armour and Company. (See Ralston, A. W., and Pool, assignors.)
Arutunoff, Armais, assignor to Reda Pump Company, Bartlesville, Okla. Submergible electric motor for deep well pumps. 2,315,917; Apr. 6.
Atlantic Refining Company, The. (See Ferris, Seymour W., assignor.)
Atlantic Refining Company, The. (See Reuter, Raymond, assignor.)
Atlas Powder Company. (See Goepp, Rudolph M., Jr., assignor.)
Atwood Vacuum Machine Company, The. (See Miller, Kay, assignor.)
Austad, Grover R., Salt Lake City, Utah. Detachable fishing fly or lure. 2,315,575; Apr. 6.

Automatic Electrical Devices, Inc. (See Moorefield, William P., assignor.)
Auzin, John M., Warwick, R. I., assignor to Davol Rubber Company. Sealing of seamed rubber articles. 2,315,576; Apr. 6.
Ax, Georg B., and K. H. Grunewald, Finspong, O. A. Wiberg, Borggard, and E. Öman, Stocksund, Sweden, said Ax, said Grunewald and said Wiberg assignors to said Öman. Method of and apparatus for separating crystals from solutions. 2,315,762; Apr. 6.
Ayers, Edgar H., Schenectady, N. Y., assignor to General Electric Company. Control device. 2,315,918; Apr. 6.
Ayers, Fred L., Watertown, Mass., assignor of one-half to N. Elkin, Philadelphia, Pa. Insole taping machine. 2,315,493; Apr. 6.
Ayers, Fred L., Watertown, Mass., assignor of one-half to N. Elkin, Philadelphia, Pa. Making shoe innersoles. 2,315,494; Apr. 6.
Babcock, David L., assignor to Eastman Kodak Company, Rochester, N. Y. Motor control for projectors. 2,315,919; Apr. 6.
Bach, Hermann, Berlin, Germany, assignor to Infilco Incorporated. Treatment of sludge. 2,315,577; Apr. 6.
Bacon, Henry M., assignor to The Dayton Rubber Manufacturing Company, Dayton, Ohio. Lug strap. 2,315,763; Apr. 6.
Bader, Glenn M., Rochester, N. Y. Detergent dispensing device. 2,315,890; Apr. 6.
Bagley, William H., Jr., assignor to Electro Bearing Company, Detroit, Mich. Bearing. 2,316,119; Apr. 6.
Bailey Meter Company. (See Junkins, J. D. Ryder and Luhrs, assignors.)
Baker & Company, Inc. (See Sivil, C. S., Liebig and Low, assignors.)
Baker, Edward G., and T. Obszarny, assignors to Guardian Electric Manufacturing Co., Chicago, Ill. Impulse operated selector switch for alternating and direct current. 2,315,920; Apr. 6.
Baker, John G., Evansville, Wis., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Apparatus for balancing. 2,315,578; Apr. 6.
Baker Oil Tools, Inc. (See Baker, Reuben C., assignor.)
Baker Oil Tools, Inc. (See Burt, C. E., Sutter and Ragan, assignors.)
Baker, Reuben C., Coalinga, assignor to Baker Oil Tools, Inc., Los Angeles, Calif. Well packer apparatus. 2,315,921; Apr. 6.
Barber-Colman Company. (See Greenlee, T. K., Bohn, and O'Day, assignors.)
Bare, Paul O. (See Fox, A. L., and Bare.)
Barnes Drill Co. (See Johnson, Albert M., assignor.)
Barnes Products, Incorporated. (See King, Bert W., assignor.)
Barnes, Thomas D., West Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electrical measuring device. 2,315,579; Apr. 6.
Barron, Hyman W. (See La Guardia, F. H., Rochester, Barron, and Gibala.)
Barron, Hyman W. (See Rochester, T. W., Barron, and Gibala.)
Bashore, Quinter E., Covina, Calif. Increasing the resistance of plant life to frost damage. 2,315,764; Apr. 6.
Battelle Memorial Institute. (See Faust, Charles L., assignor.)
Baudry, Rène A. (See Pollard, E. L., and Baudry.)
Baudry, Rène A. (See Tichvinsky, L. M., and Baudry.)
Bayer, Otto. (See Doser, A., Bayer, and Hintzmann.)
Bayer, Otto. (See Nadler, F., Wegler, and Bayer.)
Bazant, William. (See Tascher, E. S., and Bazant.)
Bean, Frederic R., assignor to Eastman Kodak Company, Rochester, N. Y. Preparation of n-monomethyl-p-amino-phenol. 2,315,922; Apr. 6.
Beech-Nut Packing Company. (See McBean, Douglas M., assignor.)
Beeg, Hermann, Magdeburg, and K. Weichert, Lenna, Germany; vested in the Alien Property Custodian. Purifying phosphoric acid esters. 2,315,495; Apr. 6.
Behnisch, Robert, Wuppertal-Elberfeld, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Manufacture of phytyl bromide. 2,315,580; Apr. 6.

Beitel, Robert J., Jr., assignor to American Optical Company, Southbridge, Mass. Adjustable perimeter target. 2,316,042; Apr. 6.
Bell Telephone Laboratories, Incorporated. (See Blair, Royer R., assignor.)
Bell Telephone Laboratories, Incorporated. (See Frosch, Carl J., assignor.)
Bell Telephone Laboratories, Incorporated. (See Hickman, Clarence N., assignor.)
Bell Telephone Laboratories, Incorporated. (See Holden, W. H. T., and Schimpf, assignors.)
Bell Telephone Laboratories, Incorporated. (See Ives, Herbert E., assignor.)
Bell Telephone Laboratories, Incorporated. (See Mallina, R. F., and Seigmund, assignors.)
Bell Telephone Laboratories, Incorporated. (See Pfleger, Kenneth W., assignor.)
Bellows, Guy, Jr., Erie, Pa., assignor to General Electric Company. Electric control system and apparatus. 2,315,923; Apr. 6.
Bendix Aviation Corporation. (See Nardone, Romeo M., assignor.)
Bendix Aviation Corporation. (See Sekella, Michael, assignor.)
Benoit, Leon. (See Coyle, Joseph L., assignor.)
Benson, Bernhart A., assignor to Chicago Electric Manufacturing Company, Chicago, Ill. Electric washing machine. 2,315,684; April 6.
Berenson, Henry J., assignor to Mueller Can & Tube Co., St. Paul, Minn. Powder sprayer. 2,315,581; Apr. 6.
Berkeley Pump Corporation. (See Rhoda, Ralph, assignor.)
Bertram, Simon H., The Hague, Netherlands; vested in the Alien Property Custodian. Preventing rubber objects from sticking together and improving the quality and durability of raw rubber in a divided state. 2,315,924; Apr. 6.
Bescherer, Palmer, assignor to York Safe and Lock Company, York, Pa. Label holder. 2,315,925; Apr. 6.
Bettendorf Company, The. (See Kottmann, A. A., and Vollmer, assignors.)
Bettendorf Company, The. (See Mohl, Harold H., assignor.)
Billings & Spencer Company, The. (See Kuehn, Raymond L., assignor.)
Billings, Edmund, Weston, and H. H. Offutt, Winchester, assignors to Godfrey L. Cabot, Inc., Boston, Mass. Treatment of pigments or the like. 2,316,043; Apr. 6.
Bindler, Jakob, assignor to the firm of J. R. Geigy A. G., Basel, Switzerland. Manufacture of quaternary acylcyanognanidines. 2,315,765; Apr. 6.
Birch, George W. (See Crowell, W. S., and Birch.)
Bissell, Addison G. (See Crecca, J. D., and Bissell.)
Bivens, Maurice E., Schenectady, N. Y., assignor to General Electric Company. Electric valve circuit. 2,315,926; Apr. 6.
Blair, Royer R., Scotch Plains, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electronic apparatus. 2,316,044; Apr. 6.
Blazek, John Y., Bedford, G. E. Sears and V. R. Roy, Cleveland, Ohio, assignors to Lempco Products, Inc. Apparatus for resurfacing. 2,315,591; Apr. 6.
Blodgett, Herbert C., assignor to Overhead Door Corporation, Hartford City, Ind. Motor control. 2,315,582; Apr. 6.
Blodgett, Herbert C., assignor to Overhead Door Corporation, Hartford City, Ind. Reversing switch. 2,315,583; Apr. 6.
Blomquist, Theodore M. (See Stacey, R. W., and Blomquist.)
Bock, Louis H., Huntingdon Valley, and A. L. Houk, assignors to Röhm & Haas Company, Philadelphia, Pa. Water-soluble carboxyethyl starch ethers. 2,316,128; Apr. 6.
Bock, Louis H., Huntingdon Valey, and A. L. Houk, assignors to Röhm & Haas Company, Philadelphia, Pa. Cyanoethyl starch ethers. 2,316,129; Apr. 6.
Bohmer, Clarence L., Columbus, Ohio, and C. Gerst, Detroit, Mich., assignors to The Jaeger Machine Company, Columbus, Ohio. Power take-off. 2,316,130; Apr. 6.
Bohn, Gerald W. (See Greenlee, T. K., Bohn, and O'Day.)
Bolling, Carl. (See Turek, J. R., and Bolling.)
Booth, Alice L., executrix. (See Booth, Levis M.)
Booth, Lewis M., deceased, by A. L. Booth, Plainfield, N. J. Manufacturing paper and board. 2,315,892; Apr. 6.
Border, Lawson E., Wood River, Ill., assignor to Shell Development Company, San Francisco, Calif. Solutizer process for the removal of mercaptans. 2,315,766; Apr. 6.
Borglin, Joseph N., assignor to Hercules Powder Company, Wilmington, Del. Tall-oil refining. 2,315,584; Apr. 6.
Bostwick, Myron A., Budd Lake, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Network distribution system. 2,315,585; Apr. 6.
Bouget, Yves A., West Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Tool. 2,315,586; Apr. 6.
Bower Roller Bearing Company. (See Johnson, Glen F., assignor.)
Bowers, Claude E., Los Angeles, Calif. Cable connector. 2,315,685; Apr. 6.

Bowser, S. F., Company. (See Nahm, Eugene A., assignor.)
Boynton, Alexander, San Antonio, Tex. Perforator for wells. 2,315,496; Apr. 6.
Brack, Joseph L., assignor to Pullman-Standard Car Manufacturing Company, Chicago, Ill. Washbasin. 2,315,927; Apr. 6.
Brack, Joseph L., assignor to Pullman-Standard Car Manufacturing Company, Chicago, Ill. Washbasin. 2,315,928; Apr. 6.
Bradshaw, William M., Summit, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electrical instrument. 2,315,587; Apr. 6.
Braga, Frank J., Hudson, Mass. Making stitchdown shoes. 2,316,045; Apr. 6.
Brennan, Joseph H., Niagara Falls, N. Y., assignor to Haynes Stellite Company. Nickel-base alloy. 2,315,497; Apr. 6.
Brickman, Alan E., Monongahela, Pa., assignor to The American Steel and Wire Company of New Jersey. Top seal for pavement joints. 2,315,588; Apr. 6.
Bridges, Cole, Calais, Maine. Cleaning hard or frozen berries. 2,315,929; Apr. 6.
Brooker, Leslie G. S., and G. H. Keyes, assignors to Eastman Kodak Company, Rochester, N. Y. Polymethine dye intermediate and preparation. 2,315,498; Apr. 6.
Brooks, Stephen H., New York, N. Y. Power transmission. 2,315,589; Apr. 6.
Brown, George B., Martinsville, and P. D. Cannon, Warren Township, Somerset County, N. J., assignors to Johns-Manville Corporation, New York, N. Y. Insulating covering. 2,315,837; Apr. 6.
Brown Instrument Company, The. (See Jones, Harry S., assignor.)
Brown Instrument Company, The. (See Weigman, E. C., Trumbower, and Moore, assignors.)
Brustowsky, Morris, Brooklyn, N. Y., assignor to U. S. Slicing Machine Company, La Porte, Ind. Bread slicing machine. 2,315,767; Apr. 6.
Bryce, James W., Glen Ridge, N. J., assignor to International Business Machines Corporation, New York, N. Y. Combined multiplying and dividing machine with result checking device therefor. 2,315,686; Apr. 6.
Bryon, Benn Adelmer, Saugerties, N. Y. Wheel traction device. 2,315,838; Apr. 6.
Bucknam, George, et al. (See Ross, Charles, assignor.)
Buckwalter, Tracy V., Massillon, assignor to The Timken Roller Bearing Company, Canton, Ohio. Truck. 2,316,046; Apr. 6.
Budd Induction Heating, Inc. (See Somes, Howard E., assignor.)
Buell, Albert E. (See Schulze, W. E., and Buell.)
Builder-Thompson Engineering and Research Corporation. (See Thompson, Tom H., assignor.)
Burk, Robert E., and E. C. Hughes, Cleveland Heights, assignors to The Standard Oil Company, Cleveland, Ohio. Catalytic treatment of non-benzenoid hydrocarbons. 2,315,839; Apr. 6.
Burke, Edmund P., Los Angeles, Calif. Construction unit. 2,315,687; Apr. 6.
Burke, Marjory N., Whitegate, near Northwich, England. Lady's suspender garment. 2,315,930; Apr. 6.
Burnette, Algernon R., assignor to J. E. Fox, New York, N. Y. Refrigerating apparatus. 2,315,768; Apr. 6.
Burt, Clarence E., Los Angeles, T. Sutter, Huntington Park, and T. M. Ragan, Downey, assignors to Baker Oil Tools, Inc., Los Angeles, Calif. Liner hanger apparatus. 2,315,931; Apr. 6.
Burt, F. N., Company. (See McCarthy, J. W., and Holly, assignors.)
Burt, F. N., Company. (See Nyden, Robert, assignor.)
Burt, Robert V., and N. Macneale, assignors to The Procter & Gamble Company, Cincinnati, Ohio. Container filling device and method. 2,315,932; Apr. 6.
Burtner, Robert R. (See Cusic, J. W., and Burtner.)
Butts, Dannie J., Alhambra, Calif., E. L. Butts, executrix of said Dannie J. Butts, deceased, assignor to E. L. Butts, Los Angeles, Calif. Collapsible frame. 2,315,933; Apr. 6.
Butts, Ethel L., executrix. (See Butts, Dannie J., assignor.)
Cabot, Godfrey L., Inc. (See Billings, E., and Offutt, assignors.)
Cairns, Edward, Montclair, N. J. Hat blocking apparatus. 2,316,047; Apr. 6.
Campfield, Allen C. (See Lee, J. O., and Campfield.)
Cannon, Phillip D. (See Brown, G. B., and Cannon.)
Cantrell, Cyrus D., Jr., Bartlesville, Okla., assignor to Phillips Petroleum Company. Coring apparatus. 2,315,590; Apr. 6.
Cantzler, Adolf, and H. Krekeler, Mannheim, Germany, assignors to Standard Catalytic Company. Production of paraffin-olefine mixtures. 2,315,499; Apr. 6.
Cardwell, Harland W., assignor to Cardwell Manufacturing Company, Inc., Wichita, Kans. Multispeed drive. 2,316,131; Apr. 6.
Cardwell Manufacturing Company. (See Cardwell, Harland W., assignor.)
Carew, Herman, Easton, Pa., assignor to Dixie-Vortex Company, Chicago, Ill. Paper dish and base therefor. 2,315,591; Apr. 6.
Cargill, William W., Madison, Wis., assignor to Ray-O-Vac Company. Leakproof dry cell. 2,315,592; Apr. 6.

Carney, William J., Chicago, Ill. Bolt and rivet making machine. 2,315,769; Apr. 6.

Carter, Leslie F., Leonia, N. J. Gyro vertical. 2,315,500; Apr. 6.

Cartland, George F., and M. H. Kuizenga, assignors to The Upjohn Company, Kalamazoo, Mich. Diethyl acetate of corticosterone. 2,316,142; Apr. 6.

Casanova, Louis A. (See Cox, J. H., and Casanova.)

Case, J. I., Company. (See Thompson, W. G., and Kerr, assignors.)

Casey, Cora M., executrix. (See Gibson, H. V., and Casey.)

Casey, Elmer E. (See Gibson, H. V., and Casey.)

Cassen, Benedict, Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Protecting rotating anode X-ray tubes. 2,315,593; Apr. 6.

Celanese Corporation of America. (See Croft, Cyril M., assignor.)

Certain-teed Products Corporation. (See MacNutt, Arthur D., assignor.)

Chalupa, Joseph F., Norwood, and W. H. Lloyd, Philadelphia, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Turbine blade shroud fastening apparatus. 2,315,594; Apr. 6.

Chambers, E. Curtis, et al. (See Stephenson, William E., assignor.)

Chambers, Perry O., assignor to Safety Vulcanizer Company, Chicago, Ill. Tire vulcanizing equipment. 2,315,934; Apr. 6.

Chance, A. B., Company. (See Hubbard, David C., assignor.)

Chance, A. B., Company. (See Isbell, Jackson T., assignor.)

Chapin, Eudell, Omaha, Nebr. Draftsman's implement. 2,315,893; Apr. 6.

Chappory, Andrew, Brooklyn, assignor to National Biscuit Company, New York, N. Y. Display rack. 2,315,595; Apr. 6.

Chicago Development Company. (See Dean, R. S., and Anderson, assignors.)

Chicago Electric Manufacturing Company. (See Benson, Bernhart A., assignor.)

Chicago Electric Manufacturing Company. (See Ebert, Edward A., assignor.)

Child, William C., Westfield, N. J., assignor to Standard Oil Development Company. Stabilizing heavy fuel oil. 2,315,935; Apr. 6.

Childress, William C., Oak Park, assignor to Acme Steel Company, Chicago, Ill. Sealing device. 2,315,596; Apr. 6.

Ciba Pneumatic Products Incorporated. (See Ruzicka, Leopold, assignor.)

Clarke, Arthur S., Jamestown, R. I. Fish lure. 2,316,048; Apr. 6.

Clarke, Gerard J. (See Malm, C. J., and Clarke.)

Cleveland, Arch B., Los Angeles, Calif. Recapping and retreading mold. 2,315,770; Apr. 6.

Cline, Edwin L., Philadelphia, Pa., assignor, by mesne assignments, to Allied Chemical & Dye Corporation. Treatment of resin oils of the coumarone-indene-styrene homologue type. 2,315,771; Apr. 6.

Closs, Carl H., Denver, Colo. Means for exterminating insects. 2,315,772; Apr. 6.

Cloud, Gould H. (See Miller, P., and Cloud.)

Cobb, Leland D., Forestville, Conn., assignor to General Motors Corporation, Detroit, Mich. Top roll loading device. 2,315,936; Apr. 6.

Colgate-Palmolive-Peet Company. (See Ross, J., and Miles, assignors.)

Cone Automatic Machine Company Inc. (See Miller, Carroll E., assignor.)

Connor, Richard, Steubenville, Ohio. Machine for bending pipes and the like. 2,316,049; Apr. 6.

Conrad, Frank, Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Voting machine. 2,315,597; Apr. 6.

Corbett, Francis P., Drexel Hill, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Turbine blade construction. 2,315,598; Apr. 6.

Cosmocolor Corporation. (See Gillmore, Otto C., assignor.)

Cotton Research Foundation. (See Olcott, Harold S., assignor.)

Couch, Rhea R. (See Trimble, H. M., and Couch.)

Courtaulds Limited. (See Wilcock, C. C., and Tattersfield, assignors.)

Couzens, William M., South Gate, assignor to Gaffers and Sattler, Los Angeles, Calif. Burner control system. 2,315,773; Apr. 6.

Couzens, William M., South Gate, assignor to Gaffers and Sattler, Los Angeles, Calif. Burner control system. 2,315,774; Apr. 6.

Cox, Joseph H., Forest Hills, and L. A. Casanova, Wilkinsburg, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Vapor electric system. 2,315,599; Apr. 6.

Coxe, Charles D., Bridgeport, Conn., assignor to Remington Arms Company, Inc. Formation of metal shapes. 2,316,144; Apr. 6.

Coyle, Joseph L., London, Ontario, Canada, assignor to Leon Benoit, New York, N. Y. Holder for eggs or the like. 2,316,050; Apr. 6.

Cramer, Raymond H., Newark, N. J., assignor to General Motors Corporation, Detroit, Mich. Chucking mechanism. 2,315,937; Apr. 6.

Crane, Carl J., Shreveport, La., G. V. Holloman and R. K. Stout, Dayton, Ohio. Automatic glide and/or climb control. 2,315,501; Apr. 6.

Crane Co. (See Turek, J. R., and Bolling, assignors.)

Crawford, Thurston, Columbus, Ga. Bus. 2,315,688; Apr. 6.

Crecca, John D., U. S. Navy, and A. G. Bissell, Washington, D. C. Subaqueous end-welding device. 2,315,502; Apr. 6.

Creel, William H. (See Drennan, H. E., Hiatt, and Creel.)

Creel, William H. (See Yonker, M. P., and Creel.)

Crites, Wilbur J., Bartlesville, Okla., assignor to Phillips Petroleum Company. Borehole thermometer. 2,315,840; Apr. 6.

Crites, Wilbur J., Bartlesville, Okla., assignor to Phillips Petroleum Company. Well pump. 2,315,841; Apr. 6.

Croft, Cyril M., Cumberland, Md., assignor to Celanese Corporation of America. Fabric treatment. 2,315,600; Apr. 6.

Crom, John M., Jackson Heights, N. Y. Concrete construction. 2,315,894; Apr. 6.

Crom, John M., Jackson Heights, N. Y. Concrete construction. 2,315,895; Apr. 6.

Crouch, Wentworth W., assignor to Eastman Kodak Company, Rochester, N. Y. Two compartment container. 2,315,938; Apr. 6.

Crowell, Walter S., Melrose Park, and G. W. Birch, Upper Darby, assignors to The S. S. White Dental Manufacturing Company, Philadelphia, Pa. Molding composite resins. 2,315,503; Apr. 6.

Cullmann, Charles R., et al. (See Moyle, Randall, assignor.)

Curtis, Lorin W., Verona, assignor to Tung-Sol Lamp Works Inc., Newark, N. J. Miniature incandescent lamp. 2,315,504; Apr. 6.

Cusic, John W., Chicago, and R. R. Burtner, Skokie, assignors to G. D. Searle & Co., Chicago, Ill. Antispasmodic agents. 2,316,051; Apr. 6.

Dach, Max, Flushing, N. Y. Moisture removing device for air compressor systems. 2,316,052; Apr. 6.

D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Triazine derivatives. 2,315,939; Apr. 6.

D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Diazine derivatives. 2,315,940; Apr. 6.

D'Amato, Celestino G., Philadelphia, Pa. Course stick. 2,315,941; Apr. 6.

Dane, Elisabeth, Munich, Germany, assignor to Schering Corporation, Bloomfield, N. J. Hydrogenated phenanthrene compounds and making the same. 2,315,505; Apr. 6.

Danner, Philip S., and R. C. Mithoff, Berkeley, assignors to Standard Oil Company of California, San Francisco, Calif. Catalytic treatment of petroleum hydrocarbons. 2,315,506; Apr. 6.

D'Arcey, Alfred C., Milton, assignor to Mason-Neilan Regulator Co., Boston, Mass. Control valve. 2,315,775; Apr. 6.

Dariano, Anthony, San Jose, Calif. Paint strainer. 2,315,842; Apr. 6.

Da Roza, Francis G. (See Hill, F. E., and da Roza.)

Davey, Paul H., Kent, Ohio. Shield. 2,316,055; Apr. 6.

Davidson, Richard W., West Englewood, N. J., assignor to International Business Machines Corporation, New York, N. Y. Typewriting machine. 2,315,689; Apr. 6.

Davies, James A., Media, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Turbine shroud fastening. 2,315,601; Apr. 6.

Davis, Bert, assignor to Synchrone Manufacturing Company, Columbus, Ohio. Anchor for clotheslines or the like. 2,316,053; Apr. 6.

Davis, Clyde O., and W. S. Pilcher, Woodbury, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Perforating apparatus. 2,316,054; Apr. 6.

Davis, Ernest, assignor to The Prosperity Company, Inc., Syracuse, N. Y. Sleeve press. 2,315,690; Apr. 6.

Davis, Herbert L. (See Webb, Edwin Y., Jr., assignor.)

Davol Rubber Company. (See Auzin, John M., assignor.)

Dawson, John W., Auburndale, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Control apparatus. 2,315,602; Apr. 6.

Dayton Rubber Manufacturing Company, The. (See Bacon, Henry M., assignor.)

Dean, Reginald S., and C. T. Anderson, Salt Lake City, Utah, assignors to Chicago Development Company, Chicago, Ill. Copper-base alloy. 2,315,507; Apr. 6.

Dearing, William C., and K. D. Meiser, Toledo, Ohio. Formaldehyde-urea adhesive. 2,315,776; Apr. 6.

De Baufre, William L., Lincoln, Nebr. Method and apparatus for rectifying fluid mixtures. 2,316,056; Apr. 6.

Deere & Company. (See White, Charles H., assignor.)

Defiance Machine Works, Inc. (See Snyder, Willis J., assignor.)

Deist, Joy W., Mount Lebanon, assignor to Dravo Corporation, Pittsburgh, Pa. Luffing crane. 2,315,942; Apr. 6.

De Lanty, Loren J., Spring Valley, N. Y., assignor to Sperry Products, Inc., Hoboken, N. J. Testing tubes. 2,315,943; Apr. 6.

De Laval Separator Company, The. (See Hapgood, Cyrus H., assignor.)

Denneen, Francis S., Cleveland, and W. C. Dunn, Shaker Heights, assignor to The Ohio Crankshaft Company, Cleveland, Ohio. Controlling inductive heating. 2,315,508; Apr. 6.

Denneen, Francis S., Cleveland, and W. C. Dunn, Shaker Heights, assignors to The Ohio Crankshaft Company, Cleveland, Ohio. Apparatus for heat treating. 2,315,509; Apr. 6.

Denton, George A., Flagstaff, Ariz. Automatic beverage brewer. 2,315,777; Apr. 6.

Dick, Burns, Ferguson, assignor to Wagner Electric Corporation, St. Louis, Mo. Sealing means for pistons. 2,315,944; Apr. 6.

Dickinson, Arthur H., Scarsdale, assignor to International Business Machines Corporation, New York, N. Y. Perforating machine. 2,315,691; Apr. 6.

Dickson Wire & Cable Corporation. (See Piliero, J., and Goldberg, assignors.)

Dietz, Robert H. (See Martin, E. J., and Dietz.)

Distillation Products, Inc. (See Hickman, K. C. D., and Gray, assignors.)

Ditchfield, Frank, assignor to The Youngstown Steel Door Company, Cleveland, Ohio. Closure. 2,315,692; Apr. 6.

Dixie-Vortex Company. (See Carew, Herman, assignor.)

Dixon, Paul W., et al. (See Ross, Charles, assignor.)

Dodge, Milton L. (See Smith, John F., assignor.)

Dodge, Ronald D., Rochester, and J. E. Wood, Odessa, assignors to International Business Machines Corporation, New York, N. Y. Typewriting machine. 2,315,693; Apr. 6.

Doser, Arnold, Cologne, O. Bayer and K. Hintzmann, Leverkusen I. G. Werk, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y. Textile material. 2,316,057; Apr. 6.

Douglas, Leslie A., San Antonio, Tex. Testing subterranean strata for liquid and gaseous content. 2,315,694; Apr. 6.

Downey, Reginald L., Scotia, N. Y., assignor to General Electric Company. Calibrating device. 2,315,945; Apr. 6.

Dravo Corporation. (See Deist, Joy W., assignor.)

Dravo Corporation. (See Schwartz, Daniel M., assignor.)

Drennan, Harry E., Phillips, Tex., W. G. Hiatt and W. H. Creel, Bartlesville, Okla., assignors to Phillips Petroleum Company. Degassing liquids. 2,315,843; Apr. 6.

Dumas, Ellsworth O., Scottville, Mich. Radio speaker unit support. 2,315,896; Apr. 6.

Du Mont, Allen B., Laboratories, Inc. (See Geohegan, William A., assignor.)

Duncan, George R., Washington, assignor to Star Bucket Pump Company, St. Louis, Mo. Combination refrigerator and aerator. 2,315,603; Apr. 6.

Dunn, William C. (See Denneen, F. S., and Dunn.)

Du Pont, E. I., de Nemours & Company. (See Armentrout, Gerald E., assignor.)

Du Pont, E. I., de Nemours & Company. (See Davis, C. O., and Pilcher, assignors.)

Du Pont, E. I., de Nemours & Company. (See Ferm, E. W., and Hull, assignors.)

Du Pont, E. I., de Nemours & Company. (See Fox, Arthur L., assignor.)

Du Pont, E. I., de Nemours & Company. (See Fox, A. L., and Bare, assignors.)

Du Pont, E. I., de Nemours & Company. (See Krister, Charles J., assignor.)

Du Pont, E. I., de Nemours & Company. (See Marasco, Martin, assignor.)

Du Pont, E. I., de Nemours & Company. (See Somers, N. C., and Woodings, Jr., assignors.)

Du Pont, E. I., de Nemours & Company. (See Sorenson, Ben E., assignor.)

Du Pont, E. I., de Nemours & Company. (See Turnbull, Norris, assignor.)

Du Pont, E. I., de Nemours & Company. (See Wernlund, Christian J., assignor.)

Du Pont, E. I., de Nemours & Company. (See Wilson, Howard R., assignor.)

Durdin, Augustus C., Jr., Lincolnwood, Ill. Vacuum condensation pump. 2,315,946; Apr. 6.

Eastman Kodak Company. (See Babcock, David L., assignor.)

Eastman Kodak Company. (See Bean, Frederic R., assignor.)

Eastman Kodak Company. (See Brooker, Leslie G. S., and Keyes, assignors.)

Eastman Kodak Company. (See Crouch, Wentworth W., assignor.)

Eastman Kodak Company. (See Knott, Edward B., assignor.)

Eastman Kodak Company. (See Malm, C. J., and Clarke, assignors.)

Eastman Kodak Company. (See Malm, Carl J., assignor.)

Eastman Kodak Company. (See Mihalyi, Joseph, assignor.)

Eastman Kodak Company. (See Riddell, William A., assignor.)

Eastman Kodak Company. (See Wengel, Raymond W., assignor.)

Ebert, Edward A., Buffalo, N. Y., assignor to Chicago Electric Manufacturing Company, Chicago, Ill. Seal for washing machines or the like. 2,315,604; Apr. 6.

Economy Valve Company. (See Osterkorn, Frederick N., assignor.)

Edison-Splitdorf Corporation. (See Nowosielski, Edward B., assignor.)

Edmonson, Rober E., Beaumont, Tex. Cardboard box top construction. 2,315,947; Apr. 6.

Ehrenfeld, Hugo J., New York, N. Y. Venetian blind structure. 2,315,605; Apr. 6.

Eitel-McCullough, Inc. (See Eitel, W. W., and McCullough, assignors.)

Eitel, William W., San Bruno, and J. A. McCullough, Millbrae, assignors to Eitel-McCullough, Inc., San Bruno, Calif. Electronic tube. 2,315,510; Apr. 6.

Elberty, Robert S., Jr., assignor to Landis Tool Company. Waynesboro, Pa. Adjustable speed drive. 2,315,511; Apr. 6.

Electro Bearing Company. (See Bagley, William H., Jr., assignor.)

Elkin, Newton. (See Ayers, Fred L., assignor.)

Emerson, Roy B., Chicago, Ill. Chlorine feeding device. 2,315,512; Apr. 6.

Esnard, Miguel, Matanzas, Cuba. Valve stem for faucets. 2,315,948; Apr. 6.

Evans, Robert D., Swissvale, and A. C. Monteith, Wilkinsburg, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electrical system. 2,315,606; Apr. 6.

Fageol, Robley G. (See Leibing, W. E., and Fageol.)

Fairbanks, Morse & Co. (See Hadley, Harlan A., assignor.)

Fairchild Aviation Corporation. (See Kuebert, E. J., and Penfold, assignors.)

Faust, Charles L., assignor to Battelle Memorial Institute, Columbus, Ohio. Polishing metals. 2,315,695; Apr. 6.

Faust, Charles L., assignor to Battelle Memorial Institute, Columbus, Ohio. Polishing of metal surfaces. 2,315,696; Apr. 6.

Fergusson, Alan R., Larchmont, N. Y. Nested serving device. 2,315,608; Apr. 6.

Ferm, Eric W., Clarksburg, W. Va., and R. O. Hull, Lakewood, Ohio, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Anode. 2,315,607; Apr. 6.

Ferrando, Francesco, and Giuseppe Ferrando, Menlo Park, Calif. Sprinkler head. 2,315,844; Apr. 6.

Ferrando, Giuseppe. (See Ferrando, (Francesco, and Giuseppe).

Ferris, Seymour W., Mount Holly, N. J., assignor to The Atlantic Refining Company, Philadelphia, Pa. Wear test method and composition. 2,315,845; Apr. 6.

Fielder, Frederick D., Sharon, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Ground fault neutralizer. 2,315,609; Apr. 6.

Fischer, Albert C., Chicago, Ill. Fertilizing by cartridges. 2,315,949; Apr. 6.

Fitz Gerald, Charles R., Worcester, Mass. Anchoring device. 2,315,513; Apr. 6.

Fitzloff, Frank A., Spencer, Iowa. Attachment for corn pickers. 2,315,950; Apr. 6.

Flanders, Warren B., Philadelphia, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Turbine blade shroud fastening. 2,315,610; Apr. 6.

Flesch, John. (See Stewart, Burns E., assignor.)

Flygare, Carl G., and H. A. Silven, assignors to Norton Company, Worcester, Mass. Car wheel grinding machine. 2,316,058; Apr. 6.

Folke, Bengt E., Mamaroneck, assignor to Nathan Manufacturing Company, New York, N. Y. Lubricating system. 2,315,778; Apr. 6.

Folmer Graflex Corporation, The (See Olson, Harold T., assignor.)

Folmer Graflex Corporation, The. (See Smith, Byron L., assignor.)

Ford, George E., assignor to Rochester Manufacturing Co., Inc., Rochester, N. Y. Thermometer. 2,315,779; Apr. 6.

Fox, Arthur L., Woodstown, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of organic sulphinic acids. 2,315,514; Apr. 6.

Fox, Arthur L., Woodstown, N. J., and P. O. Bare, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Condensation products of diaryl ether sulphonic acids with formaldehyde. 2,315,951; Apr. 6.

Fox, John E. (See Burnette, Algernon R., assignor.)

Fox, Raymond S. (See Terry, S. B., and Fox.)

Fragen, Nathan. (See Geckler, R. D., and Fragen.)

Franck, Clarence C., Swarthmore, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Turbine blade shroud fastening. 2,315,611; Apr. 6.

Franck, Clarence C., Swarthmore, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Turbine shrouding. 2,315,612; Apr. 6.

French, Thomas, & Sons, Ltd. (See Gibbons, Edwin J., assignor.)

Fretter, Nathan F., Royal Oak, Mich. Sealing means. 2,316,059; Apr. 6.

Frey, Charles N. (See Johnston, W. R., Stokes, Kennedy and Frey.)

Frey, Frederick E. (See Oberfell, G. G., and Frey.)

Friden Calculating Machine Co. (See Friden, Carl M., assignor.)

Friden, Carl M., Pleasanton, Calif., assignor to Friden Calculating Machine Co., Inc. Calculating machine. 2,315,780; Apr. 6.

Fritzsch, Frank A.; assignor to The Lodge & Shipley Machine Tool Company, Cincinnati, Ohio. Taper mechanism. 2,315,846; Apr. 6.

Frosch, Carl J., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Polyhexahydro-hydroquinone sebacate. 2,315,613; Apr. 6.

Fullerton, George H., Laurel Park, N. C., and T. V. Moss, Hunting Valley, Ohio. Cordlike product. 2,316,060; Apr. 6.

Fulton Stuffer Corporation. (See Giglio, Anthony, assignor.)

Furer, Bernard, assignor to Picardy Mills, Inc., Brooklyn, N. Y. Combined folding and feeding stitching device. 2,316,061; Apr. 6.

Furman, Frank J. (See Mills, A. W., Furman, and Rabenda.)

Futrell, David C., North Little Rock, Ark. Nipple sterilizer. 2,316,145; Apr. 6.

Gaffers and Sattler. (See Couzens, William M., assignor.)

Garretson, Owen L., Detroit, Mich., assignor to Phillips Petroleum Company. High vapor pressure fuel vaporizer-carburetor combination. 2,315,847; Apr. 6.

Gaynor, James W. (See Loane, C. M., and Gaynor.)

Gaynor, James W. (See Loane, C. M., Gaynor, and Mixon.)

Gaynor, James W., Chicago, Ill., and C. M. Loane, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill. Lubricant. 2,316,087; Apr. 6.

Geckler, Richard D., Whiting, and N. Fragen, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill. Producing toluene. 2,316,126; Apr. 6.

Geigy, J. R., A. G. (See Bindler, Jakob, assignor.)

General Aircraft Corporation. (See Koppen, Otto C., assignor.)

General Aniline & Film Corporation. (See Doser, A., Bayer, and Hintzmann, assignors.)

General Aniline & Film Corporation. (See Lessler, Lew W., assignor.)

General Aniline & Film Corporation. (See Nadler, F., Wegler, and Bayer, assignors.

General Aniline & Film Corporation. (See Trump, Frederick O., assignor.)

General Aniline & Film Corporation. (See Zervas, Paul, assignor.)

General Chemical Company. (See Knapp, William A., assignor.)

General Electric Company. (See Alexanderson, Ernst F. W., assignor.)

General Electric Company. (See Ayers, Edgar H., assignor.)

General Electric Company. (See Belfows, Guy, Jr., assignor.)

General Electric Company. (See Bivens, Maurice E., assignor.)

General Electric Company. (See D'Alelio, Gaetano F., assignor.)

General Electric Company. (See Downey, Reginald L., assignor.)

General Electric Company. (See Hottenroth, Frederick W., Jr., assignor.)

General Electric Company. (See Ludbrook, Leslie C., assignor.)

General Electric Company. (See Thumim, Carl, assignor.)

General Electric Company. (See Weed, James M., assignor.)

General Electric Company. (See Weil, Fritz, assignor.)

General Electric Company. (See Whitely, A. L., and Higgins, assignors.)

General Electric X-ray Corporation. (See Grobe, Julius J., assignor.)

General Motors Corporation. (See Cobb, Leland D., assignor.)

General Motors Corporation. (See Cramer, Raymond H., assignor.)

General Motors Corporation. (See Haeger, Frank W., assignor.)

General Motors Corporation. (See Hill, F. E., and da Roza, assignors.)

General Motors Corporation. (See Martin, E. J., and Dietz, assignors.)

General Motors Corporation. (See Owens, J. C., and Schomer, assignors.)

General Motors Corporation. (See Rippingille, Edward V., assignor.)

General Motors Corporation. (See Smith, Nelson J., assignor.)

Goehegan, William A., New York, N. Y., assignor to Allen B. Du Mont Laboratories, Inc., Passaic, N. J. Cathode-ray oscilliograph. 2 315,848; Apr. 6.

Gerke, Roscoe H., Nutley, N. J., assignor to United States Rubber Company, New York, N. Y. Manufacture of rubber. 2,315,849; Apr. 6.

Gerke, Roscoe H., Nutley, N. J., assignor to United States Rubber Company, New York, N. Y. Manufacture of rubber. 2,315,850; Apr. 6.

Gerow, Theron G., assignor to Kensington Steel Company, Chicago, Ill. Rack and pinion for excavating shovel handles. 2,315,781; Apr. 6.

Gerst, Chris. (See Bohmer, C. I., and Gerst.)

Gibala, John T. (See La Guardia, F. H., Rochester, Barron, and Gibala.)

Gibala, John T. (See Rochester, T. W., Barron, and Gibala.)

Gibbons, Edwin J., East Providence, R. I., assignor to Thomas French & Sons, Ltd., New York, N. Y. Woven cartridge belt. 2,315,782; Apr. 6.

Gibson, Herschel V., and E. E. Casey, deceased, assignors to Williams Oil-O-Matic Heating Corporation, Bloomington, Ill.; C. M. Casey, executrix of E. E. Casey. Dispensing apparatus. 2,315,515; Apr. 6.

Giglio, Anthony, assignor to Fulton Stuffer Corporation, Boston, Mass. Apparatus for forming meat loaf. 2,315,952; Apr. 6.

Gillette Safety Razor Company. (See Testi, Nicholas, assignor.)

Gilmore, Otto C., Van Nuys, assignor to Cosmocolor Corporation, Los Angeles, Calif. Color photography. 2,315,783; Apr. 6.

Gingo, Stephen L., McKeesport, Pa. Nonskid attachment for shoes. 2,316,062; Apr. 6.

Ginsberg, Philip L., New York, N. Y. Vascular exerciser. 2,315,997; Apr. 6.

Glaskowsky, Nicholas A., assignor to Stanley Home Products, Inc., Westfield, Mass. Deodorizing device. 2,315,697; Apr. 6.

Glasser, Albert A., Los Angeles, Calif. Nursing brassière. 2,315,614; Apr. 6.

Gluckmann, William, Jamaica, N. Y. Trousers supporting means. 2,315,698; Apr. 6.

Goepp, Rudolph M., Jr., New Castle, assignor to Atlas Powder Company, Wilmington, Del. Crystallization of sorbitol. 2,315,699; Apr. 6.

Goldberg, Nathan. (See Pillero, J., and Goldberg.)

Goldman, Joseph, New Brunswick, N. J., assignor, by mesne assignments, to Santee Mills. Stay strip. 2,315,851; Apr. 6.

Goodale, Elmer D., Bayside, Long Island, New York, N. Y., assignor to Radio Corporation of America. Electrical circuit. 2,315,784; Apr. 6.

Goodrich, B. F., Company, The. (See Semon, Waldo L., assignor.)

Goodspeed, Edwin W. (See Thompson, J. S., and Goodspeed.)

Gordon, Wallace E., Wilmington, Del., and J. E. Williamson, Stratford, Conn., assignors to Remington Arms Company, Inc. Inhibiting corrosion. 2,315,852; Apr. 6.

Gosebrink, Frederick J. (See Moyle, Randall, assignor.)

Goudie, Charles R., Kansas City, Mo. Doorway closure. 2,315,953; Apr. 6.

Grand Rapids Fibre Cord Company. (See Sackner, Wade E., assignor.)

Gray, Edward L. B. (See Hickman, K. C. D., and Gray.)

Gray, Marshall, St. Louis, Mo. Removable stanchions for protective railings. 2,315,516; Apr. 6.

Greenleaf, William H., Chicago, Ill. Safety shaving device. 2,315,785; Apr. 6.

Greenlee, Theodore K., Rockford, Ill., and G. W. Bohn and C. N. O'Day, Port Washington, N. Y., assignors to Barber-Colman Company, Rockford, Ill. Condition control system. 2,315,517; Apr. 6.

Gressle, Charles W. (See Van Halteren, A. S., and Gressle.)

Griffin, James H. (See Waldron, F. B., and Griffin.)

Grobe, Julius J., Oak Park, assignor to General Electric X-Ray Corporation, Chicago, Ill. Tube casing and support. 2,315,786; Apr. 6.

Grobe, Julius J., Oak Park, assignor to General Electric X-Ray Corporation, Chicago, Ill. Tube casing and support. 2,315,787; Apr. 6.

Grove Silk Company. (See Stuewer, Reinhold F., assignor.)

Gruenhut, Alfred, assignor, by mesne assignments, to G. Israel, New York, N. Y. Automatic rewind film carrier. 2,315,954; Apr. 6.

Grunewald, Kurt H. (See Ax, G. B., Grunewald, Wiberg, and Oman.)

Guardian Electric Manufacturing Co. (See Baker, E. G., and Obszarny, assignors.)

Guhl, Henry C., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Molded article. 2,315,615; Apr. 6.

Gunter, Addison Y., Larchmont, assignor to American Locomotive Company, New York, N. Y. Heat exchanger. 2,316,063; Apr. 6.

Gutzwiller, Ernst, Basel, assignor to the firm of Sandoz Ltd., Fribourg, Switzerland. Arylamino anthraquinone dyestuffs and their manufacture. 2,315,788; Apr. 6.

Gwynn, Marion H., Mountain Lakes, N. J. Activating catalytic surfaces. 2,315,518; Apr. 6.

Hadley, Harlan A., River Edge, N. J., assignor to Fairbanks, Morse & Co., Chicago, Ill. Automatic dial scale. 2,315,789; Apr. 6.

Haeger, Frank W., Lansing, assignor to General Motors Corporation, Detroit, Mich. Mass centering machine. 2,315,998; Apr. 6.

Hake, Donald S., and H. D. Prior, Niagara Falls, assignors to The Titanium Alloy Manufacturing Company, New York, N. Y. Treatment of zirconium oxide. 2,315,519; Apr. 6.

Hake, Donald S., and H. D. Prior, Niagara Falls, assignors to The Titanium Alloy Manufacturing Company, New York, N. Y. Preparation of zirconium oxide. 2,315,520; Apr. 6.

Hall, James R., Chester, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Turbine blade locking piece. 2,315,616; Apr. 6.

Hallenscheid, Gustave A., Los Angeles, Calif. Bathroom fixture and the like. 2,315,955; Apr. 6.

Hallwood, Nathan A., Calumbus, Ohio. Merchandise exhibiting means. 2,315,790; Apr. 6.

Hans, Raymond, Pascagoula, Miss. Safety trolley plow. 2,316,064; Apr. 6.

Hansell, Clarence W., Port Jefferson, N. Y., assignor to Radio Corporation of America. Replaceable fitting. 2,315,897; Apr. 6.

Hapgood, Cyrus H., Nutley, N. J., assignor to The De Laval Separator Company, New York, N. Y. Cow milking apparatus. 2,316,065; Apr. 6.

Hardy, George E., Stelton, assignor to Johnson & Johnson, New Brunswick, N. J. Plaster bandage. 2,315,484; Apr. 6.

Harrison, Henry, Brooklyn, N. Y. Display stand. 2,315,617; Apr. 6.

Harshaw Chemical Company, The. (See Lind, R., Harshaw, and Long, assignors.)

Harshaw, William J. (See Lind, R., Harshaw, and Long.)

Hart, Charles W., United States Navy. Torque wrench. 2,315,521; Apr. 6.

Hauge, Henry, Buxton, N. Dak. Windrow turning machine. 2,315,522; Apr. 6.

Hawk, Howard B., et al. (See Stephenson, William E., assignor.)

Haymond, Paul, Fairmont, W. Va. Control apparatus. 2,316,066; Apr. 6.

Haynes Stellite Company. (See Brennan, Joseph H., assignor.)

Head, Wrightson & Company, Limited. (See Lake, Norman C., assignor.)

Heath, Chadwick N. (See Heath, Frederick, assignor.)

Heath, Frederick, Tacoma, Wash., assignor to C. N. Heath, Decatur, Ga. Making reinforced concrete floors. 2,315,956; Apr. 6.

Hehemann, Frederick H., assignor to The Lunkenheimer Company, Cincinnati, Ohio. Silicon brass rod. 2,315,700; Apr. 6.

Helenek, Joseph. (See Watral, H. J., and Helenek.)

Hellyar, Edwin G. (See Lucia, L. V., and Horndahl, assignors.)

Herbener, Henry M., Thomasville, Ga. Girdle or like garment. 2,315,701; Apr. 6.

Herbener, Henry M., Thomasville, Ga. Bill folder. 2,315,702; Apr. 6.

Hercules Powder Company. (See Borglin, Joseph N., assignor.)

Hercules Powder Company. (See Scrutchfield, Paul H., assignor.)

Hercules Powder Company. (See Smith, Roscoe B., assignor.)

Hess, Heinrich. (See Oettli, J., and Hess.)

Hewlett, Amiot P., Summit, N. J., assignor to Standard Oil Development Company. Color stabilization of light distillates. 2,315,957; Apr. 6.

Hiatt, Hayden H., and O. L. Kramer, Los Angeles, Calif. Spring seat construction. 2,315,791; Apr. 6.

Hiatt, W. G. (See Drennan, H. E., Hiatt, and Creel.)

Hickman, Clarence N., Jackson Heights, assignor to Bell Telephone Laboratories Incorporated, New York, N. Y. Threading rolling mills. 2,316,067; Apr. 6.

Hickman, Kenneth C. D., and E. Le B. Gray, assignors to Distillation Products, Inc., Rochester, N. Y. Vitamin D distillation process and product. 2,316,068; Apr. 6.

Higgin Products, Inc. (See Swormstedt, Frank W., assignor.)

Higgins, Bertram G. (See Whiteley, A. L., and Higgins.)

Hill, Frank E., Detroit, and F. G. da Roza, Ferndale, assignors to General Motors Corporation, Detroit, Mich. Control system. 2,315,958; Apr. 6.

Hintzmann, Karl. (See Doser, A., Bayer, and Hintzmann.)

Hirschfeld, Walter H., assignor to M. Levey, Chicago, Ill. Motion picture projector. 2,315,703; Apr. 6.

Hoch, Walter A., Forest Hills, assignor to New York Pressing Iron Company, Inc., New York, N. Y. Garment pressing machine. 2,315,704; Apr. 6.

Hocher, Andrew A., Etna, Pa., assignor to Hubbard and Company. End fitting for street lights. 2,316,069; Apr. 6.

Hodgins, Theodore S. (See Hovey, A. G., Hodgins, and Meeske.)

Hodgson, Joseph H., Westport, Conn., assignor to Remington Arms Company, Inc. Ammunition. 2,315,853; Apr. 6.

Hoffman-La Roche Inc. (See Warnat, Kurt, assignor.)

Holden, William H. T., Woodside, and L. G. Schimpf, St. George, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Testing and selecting system. 2,315,705; Apr. 6.

Holley, Earl, et al. (See Udale, Stanley M., assignor.)

Holley, George M., et al. (See Udale, Stanley M., assignor.)

Holloman, George V. (See Crane, C. J., Holloman, and Stout.)

Holly, Herve C. (See McCarthy, J. W., and Holly.)

Holm, Carl B., Englewood, N. J., assignor to International Braid Company. Display box. 2,315,999; Apr. 6.

Holt, Edman F., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind. Welding electrode holder. 2,315,854; Apr. 6.

Hopkes, Henry, Grosse Pointe, assignor to No-Sag Spring Company, Detroit, Mich. Spring construction. 2,315,706; Apr. 6.

Hopwood, John M. (See Sengstaken, Charles W., assignor.)

Horndahl, Eric W. (See Lucia, L. V., and Horndahl.)

Horstmann, John H. G., Bath, England. Safety shutoff device for gas valves. 2,315,959; Apr. 6.

Horton, Erwin C., Hamburg, and A. C. Scinta, assignors to Trico Products Corporation, Buffalo, N. Y. Windshield cleaner. 2,316,070; Apr. 6.

Hoshor, Perry W., Albuquerque, N. Mex. Device for correcting the uneven wear of brake shoes. 2,315,707; Apr. 6.

Hoss, Arthur B., Milwaukee, Wis. Adapter. 2,315,792; Apr. 6.

Hotcan Corporation. (See Katz, Leo, assignor.)

Hottenroth, Frederick W., Jr., Schenectady, N. Y., assignor to General Electric Company. Circuit controller. 2,315,960; Apr. 6.

Houdaille-Hershey Corporation. (See Jandus, Herbert S., assignor.)

Houk, Alva L. (See Bock, L. H., and Houk.)

Hovey, Al G., Birmingham, T. S. Hodgins and C. J. Meeske, Royal Oak, assignors to Reichhold Chemicals, Inc., Detroit, Mich. Polyester resins from phthalic anydride pentaerythritol and soya bean oil. 2,315,708; Apr. 6.

Howland, Louis H., Cheshire, Conn., assignor to United States Rubber Company, New York, N. Y. Manufacture of rubber. 2,315,855; Apr. 6.

Howland, Louis H., Cheshire, Conn., assignor to United States Rubber Company, New York, N. Y. Manufacture of rubber. 2,315,856; Apr. 6.

Howland, Louis, Cheshire, Conn., assignor to United States Rubber Company, New York, N. Y. Manufacture of rubber. 2,315,857; Apr. 6.

Hubbard and Company. (See Hocher, Andrew A., assignor.)

Hubbard, David C., assignor to A. B. Chance Company, Centralia, Mo. Conductor-insulator clamp. 2,315,961; Apr. 6.

Hubbard Spool Company. See Tucker, George G., Jr., assignor.)

Hubbell, Harvey, Incorporated. (See Hubbell, Harvey, assignor.)

Hubbell, Harvey, Long Hill, assignor to Harvey Hubbell, Incorporated, Bridgeport, Conn. Electrical receptacle. 2,315,523; Apr. 6.

Hubbell, Minott P., assignor to T. R. Almond Manufacturing Co., Ashburnham, Mass. Positive drive chuck. 2,315,524; Apr. 6.

Hudson, Edwin B., assignor to The American Rolling Mill Company, Middletown, Ohio. Off-gauge totalizer. 2,315,709; Apr. 6.

Huffstutter, John W., Sharon, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit interrupter. 2,315,618; Apr. 6.

Hughes, Everett C. (See Burk, R. E. and Hughes.)

Hull, Richard O. (See Ferm, E. W., and Hull.)

Hulsberg, William E., assignor to Universal Oil Products Company, Chicago, Ill. Reaction vessel. 2,315,525; Apr. 6.

Hutcheson, John A., and R. Lee, Catonsville, Md., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Constant voltage rectifier 2,315,619; Apr. 6.

Indge, Herbert S., Westboro, assignor to Norton Company, Worcester, Mass. Lapping machine. 2,315,859; Apr. 6.

Infilco Incorporated. (See Bach, Hermann, assignor.)

Inland Steel Company. (See Method, Harold S., assignor.)

International Braid Company. (See Holm, Carl B., assignor.)

International Business Machines Corporation. (See Byrce, James W., assignor.)

International Business Machines Corporation. (See Davidson, Richard W., assignor.)

International Business Machines Corporation. (See Dickinson, Arthur H., assignor.)

International Business Machines Corporation. (See Dodge, R. D., and Wood, assignors.)

International Business Machines Corporation. (See Mills, A. W., Furman, and Rabenda, assignors.)

International Business Machines Corporation. (See Nichols, Harry J., assignor.)

International Business Machines Corporation. (See Paris, Robert E., assignor.)

International Business Machines Corporation. (See Shafer, Orville B., assignor.)

International Business Machines Corporation. (See Smathers, James F., assignor.)

International Business Machines Corporation. (See von Reppert, Richard, assignor.)

Interstate Vending Machine Company of St. Louis. (See Niewoehner, Fred, assignor.)

Isbell, Jackson T., assignor to A. B. Chance Company, Centralia, Mo. Pocket facing protector. 2,315,620; Apr. 6.

Israel, Gertrude. (See Gruenhut, Alfred, assignor.)

Ives, Herbert E., Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron camera. 2,315,621; Apr. 6.

Ivie, Horace L. (See Ivie, James O. and Horace L.)

Ivie, James O. and H. L., Salt Lake City, Utah. Actuating means for scoreboard indicia. 2,315,622; Apr. 6.

Jacobi, William H., Wilkinsburg, assignor, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Insulating bushing. 2,315,623; Apr. 6.

Jacobs, F. L., Co. (See Westrope, Frederick J., assignor.)

Jacobson, Frank H., Minneapolis, Minn. Separating machine. 2,315,712; Apr. 6.

Jaeger, Gebhard, assignor to The Jaeger Machine Company, Columbus, Ohio. Water supply tank for concrete mixers. 2,316,132; Apr. 6.

Jaeger Machine Company, The. (See Visser, Gerrit A., assignor.)

Jaeger Machine Company, The. (See Jaeger, Gebhard, assignor.)

Jaeger Machine Company, The. (See Bohmer, C. I., and Gerst, assignors.)

James, Alfred O., Detroit, Mich. Automatic crankcase oil filler. 2,316,000; Apr. 6.

Jandus, Herbert S., assignor to Hondaille-Hershey Corporation, Detroit, Mich. Brake lever. 2,315,962; Apr. 6.

Jandus, Herbert S., assignor to Hondaille-Hershey Corporation, Detroit, Mich. Automobile wheel lock. 2,315,963; Apr. 6.

Jasco, Incorporated. (See Stahly, Eldon E., assignor.)

Jay, Benjamin F., New York, N. Y. Musical educational device. 2,315,793; Apr. 6.

Johns Manville Corporation. (See Brown, G. B., and Cannon, assignors.)

Johnson, Albert M., assignor to Barnes Drill Co., Rockford, Ill. Method of an apparatus for honing. 2,315,794; Apr. 6.

Johnson, Conrad B., Eau Claire, and R. B. Trautman, Minneapolis, Minn. Artificial limb. 2,315,795; Apr. 6.

Johnson, Fred J., Rockville Centre, N. Y. Molded article, binder, and manufacturing the same. 2,315,713; Apr. 6.

Johnson, George C., et al. (See Starrett, Ruppert M., assignor.)

Johnson, Glen F., assignor to Bower Roller Bearing Company, Detroit, Mich. Lapping machine. 2,316,071; Apr. 6.

Johnson, Harry H., Kansas City, Mo. Cigarette package having means for attaching matches thereto. 2,315,964; Apr. 6.

Johnson & Johnson. (See Hardy, George E., assignor.)

Johnson, William A. (See Tawney, G. L., and Johnson.)

Johnston, William R., Bronx, W. E. Stokes, Brooklyn, M. H. Kennedy, New York, and C. N. Frey, Scarsdale, assignors to Standard Brands Incorporated, New York, N. Y. Fruit compositions and preservation. 2,315,858; Apr. 6.

Jones, Edward Le R., III, Tucson, Ariz. Exercising device. 2,315,485; Apr. 6.

Jones, Harry S., Washington, D. C., assignor to The Brown Instrument Company, Philadelphia, Pa. Measuring apparatus. 2,315,714; Apr. 6.

Jones, Walter L., Webster Groves, Mo. Card selector. 2,315,869; Apr. 6.

Jordan, Warren D., Waukegan, Ill., assignor to American Can Company, New York, N. Y. Key assembling machine. 2,315,526; Apr. 6.

Judisch, Carl H., assignor to The Whitney Blake Company, New Haven, Conn. Connector plug. 2,316,072; Apr. 6.

Junkins, Raymond D., Cleveland Heights, J. D. Ryder, University Heights, and J. F. Luhrs, Cleveland Heights, Ohio, assignor to Bailey Meter Company. Control system. 2,315,527; Apr. 6.

Kalio, Inc. (See Verbeek, Arnold F., assignor.)

Katz, Leo, Hollywood, assignor to Hotcan Corporation, Los Angeles, Calif. Self-heating food container. 2,315,528; Apr. 6.

Kaufman, John J., Elkins Park, assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa. Loom harness. 2,315,796; Apr. 6.

Kay Manufacturing Company. (See Krakauer, Abraham, assignor.)

Kay Manufacturing Corporation. (See Krakauer, Phillip, assignor.)

Kearney, James R., Corporation. (See Tallman, Oscar F., assignor.)

Keeton, Melvin, et al. (See Moyle, Randall, assignor.)

Kellogg, Frank A., Aurora, Ill. Metal clamp. 2,316,073; Apr. 6.

Kelso, Charles D., Calumet City, assignor to Standard Oil Company, Chicago, Ill. Phosphorus sulphide-hydrocarbon reaction product. 2,315,529; Apr. 6.

Kelso, Charles D., Calumet City, Ill., and L. W. Mixon, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill. Lubricants. 2,316,085; Apr. 6.

Kelso, Charles D., Calumet City, Ill., and L. W. Mixon, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill. Lubricant. 2,316,090; Apr. 6.

Kendall, Marcus T. (See Ryan, W. J., and Kendall.)

Kennedy, Margaret H. (See Johnston, W. R., Stokes, Kennedy, and Frey.)

Kensington Steel Company. (See Gerow, Theron G., assignor.)

Kerr, Bartlett M. (See Thompson, W. G., and Kerr.)

Keyes, Grafton H. (See Brooker, L. G. S., and Keyes.)

Kieckhefer Container Company. (See Kieckhefer, Herbert M., assignor.)

Kieckhefer, Herbert M., Riverton, assignor to Kieckhefer Container Company, Delair, N. J. Egg container. 2,315,624; Apr. 6.

Kimbrough, Frank R., Richmond, Va. Combined casting and stationary float. 2,316,074; Apr. 6.

King, Aden J., assignor to King Laboratories Inc., Syracuse, N. Y. Getter for vacuum tubes. 2,316,127; Apr. 6.

King, Bert W., assignor to Barnes Products, Incorporated, Detroit, Mich. Scale chart. 2,315,710; Apr. 6.

King, George E., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Protective control system. 2,315,625; Apr. 6.

King, Joseph M., Detroit, Mich. Fluid temperature controller. 2,316,075; Apr. 6.

King Laboratories Inc. (See King, Aden J., assignor.)

Kinnear Manufacturing Company, The. (See McCloud, Edward H., assignor.)

Kinzie, Phillip A., Denver, Colo. Seal means for tube valves. 2,315,797; Apr. 6.

Kitzmiller, Frank Y., Reading, Pa. Fabric drying and shaping apparatus and method. 2,316,001; Apr. 6.

Knapp, William A., assignor to General Chemical Company, New York, N. Y. Insecticide and method of using. 2,315,965; Apr. 6.

Knoebel, Haines L., assignor to Philco Radio and Television Corporation, Philadelphia, Pa. Limited range wireless transmitter. 2,316,076; Apr. 6.

Knott, Edward B., Wealdstone, England, assignor to Eastman Kodak Company, Rochester, N. Y. Photographic emulsion. 2,315,966; Apr. 6.

Knowlton, Eben. (See Norden, Axel G., assignor.)

Knowlton, Eben, Cold Spring Harbor, N. Y. Building construction. 2,315,967; Apr. 6.

Koether, Emil A., Baltimore, Md., assignor, by mesne assignments, to Standard Oil Company of California, San Francisco, Calif. Packing ring or bearing element. 2,315,798; Apr. 6.

Koivisto, Onnie G., Bovey, Minn. Necktie knot protector. 2,316,002; Apr. 6.

Koppen, Otto C., Newton, Mass., assignor to General Aircraft Corporation, Dover, Del. Airplane engine mount. 2,316,077; Apr. 6.

Kottmann, Arthur A., Davenport, Iowa, and E. C. Vollmer, Rock Island, Ill., assignors, by mesne assignments, to The Bettendorf Company. Slicing machine. 2,315,711; Apr. 6.

Kovats, John, et al. (See Starrett, Rupert M., assignor.)

Kovats, John J., et al. (See Starrett, Rupert M., assignor.)

Krakauer, Abraham, assignor to Kay Manufacturing Corporation, Brooklyn, N. Y. Folding couch bed. 2,315,969; Apr. 6.

Krakauer, Phillip, assignor to Kay Manufacturing Corporation, Brooklyn, N. Y. Edge roll for mattresses. 2,315,968; Apr. 6.

Kramer, Otto L. (See Hiatt, H. H., and Kramer.)

Krekeler, Hans. (See Cantzler, Adolf, and Krekeler.)

Kriechbaum, John P., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control apparatus. 2,316,003; Apr. 6.

Krilow, James E., Atlantic City, N. J. Knife. 2,315,898; Apr. 6.

Krister, Charles J., Cleveland, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Colorstable molasses. 2,315,626; Apr. 6.

Krocker, Adolf G., Waco, Tex. Sash cord guide. 2,315,970; Apr. 6.

Kuebert, Edward J., Bellmore, and H. F. Penfold, Hollis, assignors to Fairchild Aviation Corporation, Jamaica, N. Y. Compensating device. 2,316,004; Apr. 6.

Kuehn, Raymond L., Hartford, Conn., assignor to The Billings & Spencer Company. Machine tool. 2,315,899; Apr. 6.

Kuizenga, Marvin H. (See Cartland, G. F., and Kuizenga.)

Lachle, Frank B., San Mateo, assignor to The Schwarz Engineering Company, Inc., San Francisco, Calif. Recovery of sorbed oil. 2,316,005; Apr. 6.

La Guardia, Fiorello H., New York, T. W. Rochester, Tuckahoe, H. W. Barron, Laurelton, and J. T. Gibala, Little Neck, N. Y. Safety device for handling explosives. 2,315,799; Apr. 6.

Laird, R. H., Manufacturing Company, The. (See Wexler, Irving, assignor.)

Lake, Norman C., Stockton-on-Tees, assignor to Head, Wrightson & Company, Limited, Thornaby-on-Tees, England. Machine for stretching metals. 2,315,971; Apr. 6.

Lamb, George E., Hoquiam, Wash. Conveyer. 2,315,627; Apr. 6.

Lamond, Robert C., assignor to American Engineering Company, Philadelphia, Pa. Hoisting apparatus. 2,315,628; Apr. 6.

Landis Tool Company. (See Elberty, Robert S., Jr., assignor.)

Lapointe Machine Tool Company, The. (See Phaneuf, Wilrose J., assignor.)

Larson, Carl M. (See O'Connell, G. A., and Larson.)

Lautrette, Jean A., Paris, France; vested in the Alien Property Custodian. Treatment of crankcase oil. 2,315,861; Apr. 6.

Lave, Roy E., Homewood, assignor to Apex Railway Products Co., Chicago, Ill. Hinge construction. 2,315,801; Apr. 6.

Lawrence, Charles K. (See Vingee, R. A., and Lawrence.)

Le Bus, Franklin L., Longview, Tex. Wall core scraper. 2,315,629; Apr. 6.

Ledbetter, Ila. (See Ledbetter, William H. and Ila.)

Ledbetter, William H. and I., Muskegon, Mich. Table cabinet. 2,315,862; Apr. 6.

Lee, John O., and A. C. Campfield, Swannanoa, N. C. Pattern mechanism for looms. 2,315,863; Apr. 6.

Lee, Reuben. (See Hutcheson, J. A., and Lee.)

Leibing-Fageol Company. (See Leibing, William E., assignor.)

Leibing-Fageol Company. (See Leibing, W. E., and Fageol, assignors.)

Leibing, William E., San Rafael, Calif., assignor to Leibing-Fageol Company, Detroit, Mich. Fuel supply control means. 2,315,715; Apr. 6.

Leibing, William E., assignor to Leibing-Fageol Company, Detroit, Mich. Carburetor. 2,315,716; Apr. 6.

Leibing, William E., San Rafael, Calif., and R. D. Fageol, Grosse Pointe Farms, assignors to Leibing-Fageol Company, Detroit, Mich. Carburetor. 2,315,717; Apr. 6.

Lempco Products, Inc. (See Blazek, J. Y., Sears, and Roy, assignors.)

Lessler, Lew W., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Shutter release for folding cameras. 2,316,006; Apr. 6.

Levey, Max. (See Hirschfeld, Walter H., assignor.)

Lewis, Lloyd V., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,315,864; Apr. 6.

Lewis, Robert H., West Orange, and P. G. Adams, Bloomfield, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Braking device for cumulative demand registers. 2,315,630; Apr. 6.

Liebig, Edward O. (See Sivil, C. S., Liebig, and Low.)

Liipfert, William J., assignor to Woolfolk Chemical Works, Limited, Fort Valley, Ga. Mopping compound. 2,315,718; Apr. 6.

Lind, Rudolf, Euclid, W. J. Harshaw, Shaker Heights and K. E. Long, South Euclid, assignors to The Harshaw Chemical Company, Elyria, Ohio. Nickel plating. 2,315,802; Apr. 6.

Lindfelt, Edward C., Des Moines, Iowa. Garment. 2,315,972; Apr. 6.

Linnhoff, Wolfgang. (See Stoeckly, J. J., and Linnhoff.)

Lipari, Charles, Brooklyn, N. Y. Safety night light glass. 2,315,803; Apr. 6.

Lloyd, William H. (See Chalupa, J. F., and Lloyd.)

Lloyd, William H., Philadelphia, and J. A. Rydmark, Lansdowne, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Turbine blade locking apparatus. 2,315,631; Apr. 6.

Loane, Clarence M. (See Gaynor, J. W., and Loane.)

Loane, Clarence M., Hammond, Ind., and J. W. Gaynor, assignors to Standard Oil Company, Chicago, Ill. Lubricant. 2,316,078; Apr. 6.

Loane, Clarence M., Hammond, Ind., and J. W. Gaynor, assignors to Standard Oil Company, Chicago, Ill. Lubricant. 2,316,079; Apr. 6.

Loane, Clarence M., Hammond, Ind., and J. W. Gaynor, assignors to Standard Oil Company, Chicago, Ill. Lubricant. 2,316,080; Apr. 6.

Loane, Clarence M., Hammond, Ind., and J. W. Gaynor, assignors to Standard Oil Company, Chicago, Ill. Lubricant. 2,316,081; Apr. 6.

Loane, Clarence M., Hammond, Ind., and J. W. Gaynor, assignors to Standard Oil Company, Chicago, Ill. Lubricant. 2,316,082; Apr. 6.

Loane, Clarence M., Hammond, Ind., J. W. Gaynor, Chicago, Ill., and L. W. Mixon, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill. Lubricant. 2,316,083; Apr. 6.

Loane, Clarence M., Hammond, Ind., J. W. Gaynor, Chicago, Ill., and L. W. Mixon, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill. Lubricant. 2,316,084; Apr. 6.

Loane, Clarence M., Hammond, Ind., and J. W. Gaynor, assignors to Standard Oil Company, Chicago, Ill. Lubricant. 2,316,085; Apr. 6.

Lockett, William J., Los Angeles, Calif., assignor to Thompson Products, Incorporated, Cleveland, Ohio. Booster pump throat. 2,316,007; Apr. 6.

Lodge & Shipley Machine Tool Company, The. (See Fritzch, Frank A., assignor.)

Long, Kenneth E. (See Lind, R., Harshaw and Long.)

Long, Stewart D., Laurel, Md. Grenade gun. 2,315,753; Apr. 6.

Low, Robert St. C. (See Sivil, C. S., Liebig and Low.)

Loyd, Vernon J., East Chicago, Ind., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Sweetening oils. 2,315,530; Apr. 6.

Loyd, Vernon J., East Chicago, Ind., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Treating oils. 2,316,092; Apr. 6.

Lucht, Victor F., Washington, D. C. Fluid brake. 2,315,531; Apr. 6.

Lucia, Louis V., West Hartford, and E. W. Horndahl, Norwichtown, assignors, by mesne assignments, to E. G. Hellyar, Norwich, Conn., as nominee for J. B. Martin Company. Shipping container. 2,315,532; Apr. 6.

Ludbrook, Leslie C., near Rugby, England, assignor to General Electric Company. Electric control circuits. 2,316,008; Apr. 6.

Luhrs, John F. (See Junkins, R. D., Ryder and Luhrs.)

Luis, James. (See Pickens, Scott, assignor.)

Lunkenheimer Company, The. (See Hehemann, Frederick H., assignor.)

Lupfer, Robert N., assignor to The Springfield Leather Products Co., Springfield, Ohio. Cigarette case. 2,316,900; Apr. 6.

Macdonald, Laurie S. (See Sabel, I., and Macdonald.)

Maclaren, Owen F., West Drayton, assignor to Maclaren Undercarriage Company Limited, London, England. Endless track element for aircraft and land vehicles. 2,315,901; Apr. 6.

Maclaren Undercarriage Company Limited. (See Maclaren, Owen F., assignor.)

MacLaurin-Jones Co. (See MacLaurin, John, assignor.)

MacLaurin, John W., assignor to MacLaurin-Jones Co., Brookfield, Mass. Decalcomania papers. 2,316,120; Apr. 6.

Macneale, Neil. (See Burt, R. V., and Macneale.)

MacNutt, Arthur D., Kenmore, assignor to Certain-Teed Products Corporation, New York, N. Y. Insulating covering. 2,316,093; Apr. 6.

Madland, Thorvald, Chicago, Ill., assignor to The Youngstown Steel Door Company, Cleveland, Ohio. Car door. 2,315,719; Apr. 6.

Mallina, Rudolph F., Hastings on Hudson, N. Y., and H. O. Siegmund, West Orange, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrical connecting device. 2,315,720; Apr. 6.

Malm, Carl J., assignor to Eastman Kodak Company, Rochester, N. Y. Preparing cellulose for esterification. 2,315,973; Apr. 6.

Malm, Carl J., and G. J. Clarke, assignors to Eastman Kodak Company, Rochester, N. Y. Coating. 2,315,974; Apr. 6.

Malmstead, Lilyan, New York, N. Y. Combination brassière and girdle. 2,315,975; Apr. 6.

Mallory, P. R., & Co. (See Holt, Edman F., assignor.)

Malone, Homer E., assignor to Perfex Corporation, Milwaukee, Wis. Control device. 2,315,533; Apr. 6.

Marasco, Martin, New Brunswick, N. J., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of ammonium thiosulphates. 2,315,534; Apr. 6.

Martin, Edward J., Pleasant Ridge, and R. H. Dietz, Birmingham, assignors to General Motors Corporation, Detroit, Mich. Barometric device. 2,316,009; Apr. 6.

Martin, J. B., Company. (See Lucia, L. V., and Horndahl.)

Martin, Otis C., Los Angeles, Calif. Matrix element for making light transmitting screens. 2,315,721; Apr. 6.

Martindill, Donald M., Manistee, Mich. Amplifying leverage for vehicle brakes. 2,315,632; Apr. 6.

Mason-Neilan Regulator Co. (See D'Arney, Alfred C., assignor.)

Massoline, Peter D., Jersey City, N. J. Regenerated cellulose tubing, and making the same. 2,315,804; Apr. 6.

Matthews, J. H., & Company. (See Nunnally, Benjamin L., assignor.)

May, John W., Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Breaker mechanism. 2,315,633; Apr. 6.

Maynes, Emma C. et al. (See Zelbulske, Edward A., assignor.)

Maynes, Hyla F., et al. (See Zebulske, Edward A., assignor.)

Mayo, Frank V., Stockton, and W. H. Misson, Los Altos, Calif. Fluid meter. 2,315,805; Apr. 6.

McBean, Douglas M., Rochester, assignor to Beech-Nut Packing Company, Canajoharie, N. Y. Machine for filling containers. 2,315,865; Apr. 6.

McBean, Douglas M., Rochester, assignor to Beech-Nut Packing Company, Canajoharie, N. Y. Filling machine. 2,315,866; Apr. 6.

McCall, Harold C., Columbus, Ohio. Expansible core mold. 2,315,634; Apr. 6.

McCann, Leland R., Hawthorne, N. J., assignor to American Can Company, New York, N. Y. Blank feeder for can bodymakers. 2,315,535; Apr. 6.

McCarthy, John W., and H. C. Holly, Lockport, assignors to F. N. Burt Company, Inc., Buffalo, N. Y. Powder container. 2,315,635; Apr. 6.

McCloud, Edward H., assignor to The Kinnear Manufacturing Company, Columbus, Ohio. Locking device. 2,315,722; Apr. 6.

McCluer, John D., Charlotte, N. C., assignor to The Union Switch and Signal Company, Swissvale, Pa. Electrical rectifier. 2,315,867; Apr. 6.

McCollum, Henry J. De N., Chicago, Ill. Automobile heater. 2,315,636; Apr. 6.

McCullough, Ira J. (See Stafford, Guy N., assignor.)

McCullough, Jack A. (See Eitel, W. W., and McCullough.)
McGreevy, Dennis. New Orleans, La. Caliper. 2,315,806; Apr. 6.
McKinnis, Ronald B., assignor to Sunshine Foods, Inc., Winter Haven, Fla. Apparatus for treating foods. 2,316,094; Apr. 6.
McLaren, Frederick H., Munster, Ind., assignor to Standard Oil Company, Chicago, Ill. Lubricant. 2,316,086; Apr. 6.
McNeill, Harry L., Denver, Colo. Classification method and appaartus. 2,315,536; Apr. 6.
McShane, Phelan, Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Variable voltage control system 2,315,637; Apr. 6.
Mead, John H., Jr., Scottsbluff, Nebr. Vaccinating syringe. 2,316,095; Apr. 6.
Mead, Lawrence C., Whittier, Calif. Pipe wrench. 2,315,807; Apr. 6.
Meeske, Charles J. (See Hovey, A. G., Hodgins and Meeske.)
Meiser, Kenneth D. (See Dearing, W. C., and Meiser.)
Metal Carbides Corporation. (See Ritz, John A., assignor.)
Metcalf, Arthur G. B., Milton, Mass., assignor to North American Holding Corporation, Syracuse, N. Y. Grading machine. 2,315,868; Apr. 6.
Method, Harold S., East Chicago, Ind., assignor to Inland Steel Company, Chicago, Ill. Apparatus for operating on sheet material. 2,315,976; Apr. 6.
Metzger, Reinhardt, F., Glendale, Long Island, N. Y. Eyeglass. 2,316,096; Apr. 6.
Mihalyi, Joseph, assignor to Eastman Kodak Company, Rochester, N. Y. Depth of field indicator for cameras. 2,315,977; Apr. 6.
Miles, Gilbert De W. (See Ross, J., and Miles.)
Miller, Alfred, Orchard Park, N. Y., assignor to Allied Chemical & Dye Corporation. Benzacridonyl anthraquinone dyestuffs. 2,315,537; Apr. 6.
Miller, Carroll E., assignor to Cone Automatic Machine Company Inc., Windsor, Vt. Stock handling mechanism for automatic lathes. 2,316,010; Apr. 6.
Miller, Kay, assignor to The Atwood Vacuum Machine Company, Rockford, Ill. Preselective transmission. 2,315,808; Apr. 6.
Miller, Lloyd G., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Heel-seat fitting machine. 2,315,638; Apr. 6.
Miller, Pharis, Elizabeth, N. J., assignor to Standard Oil Development Company. Motor fuel. 2,316,012; Apr. 6.
Miller, Pharis, and G. H. Cloud, Elizabeth, N. J., assignors to Standard Oil Development Company. Fuels for internal combustion engines. 2,316,011; Apr. 6.
Mills, Albert W., and F. J. Furman, Endicott, and E. J. Rabenda, Binghamton, assignors to International Business Machines Corporation, New York, N. Y. Record controlled machine. 2,315,723; Apr. 6.
Minneapolis-Honeywell Regulator Company. (See Kriechbaum, John P., assignor.)
Missien, Edward J. (See Weyandt, C. S., and Missien.)
Misson, William H. (See Mayo, F. V., and Misson.)
Mithoff, Robert C. (See Danner, P. S., and Mithoff.)
Mixon, Lawson W. (See Kelso, C. D., and Mixon.)
Mixon, Lawson W. (See Loane, C. M., Gaynor, and Mixon.)
Moeller, Axel, Racine, Wis. Bottle stopper. 2,315,538; Apr. 6.
Mohl, Harold H., Davenport, Iowa, assignor, by mesne assignments, to The Bettendorf Company. Blade spacer. 2,315,724; Apr. 6.
Mohr, Lloyd, assignor to R. V. Pilliod, Swanton, Ohio. Plowshare. 2,316,097; Apr. 6.
Möller, Göran A., Lidkoping, Sweden. Metalization, especially aluminization of iron articles. 2,315,725; Apr. 6.
Monahan, John C., Royal Oak, assignor to Gar Wood Industries, Inc., Detroit, Mich. Hydraulic drive for reels. 2,315,639; Apr. 6.
Monteith, Alexander C. (See Evans, R. D., and Monteith.)
Montgomery, Terryl B., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Control system and method. 2,315,869; Apr. 6.
Moore, Coleman B. (See Wiegmann, E. C., Trumbower, and Moore.)
Moorefield, William P., assignor, by mesne assignments, to Automatic Electrical Devices, Inc., St. Petersburg, Fla. Photographic timing device. 2,315,978; Apr. 6.
Morris, Lloyd C. (See Schulze, W. A., and Morris.)
Morse, Clarence W. (See Morse, Lulan S., and Clarence W.)
Morse, Lulan S., and C. W. Morse, Santa Monica, Calif., assignors to Acme Steel Company, Chicago, Ill. Venetian blind slat. 2,315,640; Apr. 6.
Moss, Eric B., and V. J. S. Russell, assignors to S. Smith & Sons (Motor Accessories) Limited, London, England. Heating apparatus. 2,316,098; Apr. 6.
Moss, Theron V. (See Fullerton, G. H., and Moss.)
Mosser, James K., Springfield, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Turbine blade shroud fastening. 2,315,641; Apr. 6.
Mosser, James K., Springfield, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Turbine blade shroud fastening. 2,315,642; Apr. 6.
Motor Wheel Corporation. (See Van Halteren, A. S., and Gressle, assignors.)
Moxley, William M., Kansas City, Mo. Combined battery and cover retaining means for electric hand lanterns. 2,315,726; Apr. 6.
Moyle, Randall, Mehlville, assignor of one-fourth to M. Keeton, one-fourth to C. R. Cullmann, and one-fourth to F. J. Gosebrink, St. Louis, Mo. Hot-air furnace. 2,315,809; Apr. 6.
Mueller Can & Tube Co. (See Berenson, Henry J., assignor.)
Mueller, Otto, Dearborn, assignor to The Murray Corporation of America, Detroit, Mich. Securing cross members to frames. 2,315,643; Apr. 6.
Mulder, Cornelis A. H., Utrecht, Netherlands; vested in the Alien Property Custodian. Power transmission system. 2,315,486; Apr. 6.
Mulholland, Thomas, Pittsburgh, Pa. Pipe thread protector. 2,316,013; Apr. 6.
Murray Corporation of America, The. (See Mueller, Otto, assignor.)
Myers, Frederick J., assignor to The Resinous Products & Chemical Company, Philadelphia, Pa. Linoleumlike products. 2,316,099; Apr. 6.
Nadler, Friedrich, Cologne-Mulheim, R. Wegler, Leverkusen-Schlebush, and O. Bayer, Leverkusen-I. G. Werk, Germany, assignors to General Aniline & Film Corporation, New York, N. Y. Isoalkylamine salts of organic sulphonic or carboxylic acids. 2,315,870; Apr. 6.
Nahm, Eugene A., Baldwin, N. Y., assignor to S. F. Bowser & Company, Incorporated, Fort Wayne, Ind. Conduit closure. 2,315,644; Apr. 6.
Nardone, Romeo M., Westwood, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind. Engine starting mechanism. 2,316,121; Apr. 6.
Nardone, Romeo M., Westwood, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind. Engine starting mechanism. 2,316,122; Apr. 6.
Nathan Manufacturing Company. (See Folke, Bengt E., assignor.)
National Biscuit Company. (See Chappory, Andrew, assignor.)
National Biscuit Company. (See Tascher, E. S., and Bazant, assignors.)
National Gypsum Company. (See Richardson, Charles D., assignor.)
Nelson, Arvid, Syracuse, N. Y. Folding walking and skating guard. 2,316,100; Apr. 6.
Nelson, Emil A., St. Clair Shores, Mich. Rolling sheet metal and apparatus therefor. 2,315,810; Apr. 6.
Nelson, Victor B., Rockford, Ill. Fishing rod. 2,315,539; Apr. 6.
Newhouse, Walter F., Benton Harbor, Mich. Machine and performing successive operations on materials. 2,315,540; Apr. 6.
Newton, Edwin E., Montreal, C. A. Peachey, Ville La Salle, and F. R. Reevely, St. Lambert, Quebec, Canada, assignors to Western Electric Company, Incorporated, New York, N. Y. Coating strands. 2,315,645; Apr. 6.
New York Pressing Iron Company. (See Hoch, Walter A., assignor.)
Nichols, Harry J., Point Pleasant, N. J., assignor to International Business Machines Corporation, New York, N. Y. Communication system. 2,315,727; Apr. 6.
Nichols, Harry J., Point Pleasant, N. J., assignor to International Business Machines Corporation, New York, N. Y. Communication system. 2,315,728; Apr. 6.
Niewoehner, Fred, New York, N. Y., assignor to Interstate Vending Machine Company of St. Louis, St. Louis, Mo. Vending machine. 2,315,811; Apr. 6.
Niles-Bement-Pond Company. (See Terry, S. B., and Fox, assignors.)
Norden, Axel G., Valley Stream, assignor to Eben Knowlton, New York County, N. Y. Weather strip. 2,315,979; Apr. 6.
Norred, John, Chicago, Ill. Life preserver. 2,316,101; Apr. 6.
North American Holding Corporation. (See Metcalf, Arthur G. B., assignor.)
North American Rayon Corporation. (See Stoeckly, J. J., and Linnhoff, assignors.)
Norton Company. (See Flygare, C. G., and Silven, assignors.)
Norton Company. (See Indge, Herbert S., assignor.)
No-Sag Spring Company. (See Hopkes, Henry, assignor.)
Novick, Abraham, Flushing, assignor to F. L. Smithe Machine Co., Inc., New York, N. Y. Sheet feeding apparatus. 2,315,646; Apr. 6.
Nowosielski, Edward B., Bloomfield, assignor to Edison-Splitdorf Corporation, West Orange, N. J. Magneto construction. 2,315,902; Apr. 6.
Nunnally, Benjamin L., Scarsdale, N. Y., assignor to Jas. H. Matthews & Company, Pittsburgh, Pa. Combination printing roll and core support. 2,315,729; Apr. 6.
Nyden, Robert, Manhasset, assignor to F. N. Burt Company, Inc., Buffalo, N. Y. Container. 2,315,647; Apr. 6.
Nyden, Robert, Manhasset, assignor to F. N. Burt Company, Inc., Buffalo, N. Y. Container. 2,315,648; Apr. 6.
Oberfell, George G., and F. E. Frey, Bartlesville, Okla., assignors to Phillips Petroleum Company. Treating monohalides. 2,315,871; Apr. 6.
Obszarny, Thedore. (See Baker, E. G., and Obszarny.)

O'Connell, Gerald A., and C. M. Larson, De Kalb, Ill. Piano-vibraphone. 2,315,812; Apr. 6.
O'Day, Cortland N. (See Greenlee, T. K., Bohn, and O'Day.)
Oettli, Jakob, and H. Hess, assignors to Actiengesellschaft Joh. Jacob Rieter & Cie., Winterthur, Switzerland. Weighting device. 2,315,813; Apr. 6.
Offutt, Harold H. (See Billings, E., and Offutt.)
Ohio Crankshaft Company, The. (See Denneen, F. S., and Dunn, assignors.)
Olcott, Charles A., West Milford, N. J. Centrifuge basket. 2,315,980; Apr. 6.
Olcott, Harold S., Pittsburgh, Pa., assignor to Cotton Research Foundation. Treatment of cottonseed residue. 2,316,014; Apr. 6.
Olson, Harold T., assignor to The Folmer Graflex Corporation, Rochester, N. Y. Filter mount for photographic cameras. 2,315,981; Apr. 6.
Oman, Erik. (See Ax, G. B., Grunewald, Wiberg and Oman.)
Ormond, John J., assignor of two-thirds to J. D. Ramsey, Boston, Mass. Engraving. 2,315,903; Apr. 6.
Orthwine, Rudolf, New York, N. Y. Screen printing press. 2,315,730; Apr. 6.
Osterkorn, Frederick N., Freehold, N. J., assignor to Economy Valve Company. Heating system. 2,315,541; Apr. 6.
Overhead Door Corporation. (See Blodgett, Herbert C., assignor.)
Owens, John C., Grand Blanc, and R. A. Schomer, Flint, assignors to General Motors Corporation, Detroit, Mich. Conveyer control. 2,316,015; Apr. 6.
Packie, John W., Green Village, N. J., assignor to Standard Oil Development Company. Removal of entrained particles from vapors. 2,316,016; Apr. 6.
Pangborn Corporation. (See Rosenberger, William A., assignor.)
Paris, Robert E., assignor to International Business Machines Corporation, New York, N. Y. Paper feeding device. 2,315,731; Apr. 6.
Parker Rust-Proof Company. (See Thompson, J. S., and Goodspeed, assignors.)
Parker, William W., Irwin, and H. P. Peters, Forest Hills, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Selective circuit metering device. 2,315,649; Apr. 6.
Patch, Orin G., Coulee Dam, Wash. Porous concrete construction and method of making the same. 2,315,732; Apr. 6.
Peachey, Cyril A. (See Newton, E. E., Peachey and Reevely.)
Pearson, Andrew, Bessels Green, Sevenoaks, England, assignor, by mesne assignments, to The Sink and Float Corporation, New York, N. Y. Heavy liquid or suspension. 2,315,650; Apr. 6.
Peebles, Maybel W., and J. C. and J. M. Waite, Albuquerque, N. Mex. Method and apparatus for reproducing the surface contour of patterns in plastics. 2,316,143; Apr. 6.
Penfold, Hilliard F. (See Kuebert, E. J., and Penfold.)
Peremi, Edmund, and L. Toth, Manhasset, N. Y. Window. 2,315,542; Apr. 6.
Perfex Corporation. (See Malone, Homer E., assignor.)
Peshai, Carl M., assignor of one-half to B. S. Wisniewski, Milwaukee, Wis. Game apparatus. 2,315,872; Apr. 6.
Peters, Herbert P. (See Parker, W. W., and Peters.)
Peterson, Clarance H., assignor of 50% to G. W. Peterson, Oakland, Calif. Adjustable screen. 2,315,651; Apr. 6.
Peterson, George W. (See Peterson, Clarence H., assignor.)
Peterson, Harold O., Riverhead, N. Y., assignor to Radio Corporation of America. Frequency control. 2,316,017; Apr. 6.
Pfleger, Kenneth W., Arlington, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Impulse repeater. 2,315,733; Apr. 6.
Phaneuf, Wilrose J., assignor to The Lapointe Machine Tool Company, Hudson, Mass. Circular broaching cutter. 2,315,982; Apr. 6.
Philco Radio and Television Corporation. (See Knoebel, Haines L., assignor.)
Philco Radio and Television Corporation. (See Thompson, M. L. and E. O., assignors.)
Phillips Petroleum Company. (See Cantrell, Cyrus D., Jr., assignor.)
Phillips Petroleum Company. (See Crites, Wilbur J., assignor.)
Phillips Petroleum Company. (See Drennan, H. E., Hiatt, and Creel, assignors.)
Phillips Petroleum Company. (See Garretson, Owen L., assignor.)
Phillips Petroleum Company. (See Oberfell, G. G., and Frey, assignors.)
Phillips Petroleum Company. (See St. Clair, Theodore A., assignor.)
Phillips Petroleum Company. (See Schulze, W. A., and Buell, assignors.)
Phillips Petroleum Company. (See Schulze, W. A., and Morris, assignors.)
Phillips Petroleum Company. (See Schulze, W. A., Ruoho and Short, assignors.)
Phillips Petroleum Company. (See Thomas, Rosswell W., assignor.)
Phillips Petroleum Company. (See Trimble, H. M., and Couch, assignors.)
Phillips Petroleum Company. (See Youker, M. P., and Creel, assignors.)
Picardy Mills, Inc. (See Furer, Bernard, assignor.)
Pickens, Scott, Portland, assignor of one-third to J. Luis, Klamath Falls, Oreg. Adjusting device for stripping blades. 2,315,652; Apr. 6.
Pilcher, William S. (See Davis, C. O., and Pilcher.)
Pillero, James, Long Island City, and N. Goldberg, New York, assignors, by mesne assignments, to Dickson Wire & Cable Corporation, Long Island City, N. Y. Spring structure. 2,315,543; Apr. 6.
Pilkington Brothers Limited. (See Waldron, F. B., and Griffin, assignors.)
Pilliod, Raymond V. (See Mohr, Lloyd, assignor.)
Pitney-Bowes Postage Meter Company. (See Thatcher, Linden A., assignor.)
Pizzi, Albert L., Newark, and W. R. Quackenbush, Elizabeth, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Arbor chucking device. 2,315,904; Apr. 6.
Plummer, Lloyd F., assignor to I. B. Williams and Sons, Inc., Dover, N. H. Belt. 2,316,018; Apr. 6.
Pollard, Ernest I., Wilkinsburg, and R. A. Baudry, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Ventilated machine. 2,315,653; Apr. 6.
Pool, William O. (See Ralston, A. W., and Pool.)
Preston, Frank W., Paterson, N. J. Lacing equipment. 2,316,102; Apr. 6.
Prior, Harold D. (See Hake, D. S., and Prior.)
Procter & Gamble Company, The. (See Burt, R. V., and Macneale, assignors.)
Prosperity Company, The. (See Davis, Ernest, assignor.)
Pullman-Standard Car Manufacturing Company. (See Brack, Joseph L., assignor.)
Putman, Henry V., Sharon, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Core. 2,315,654; Apr. 6.
Quackenbush, Willis R. (See Pizzi, A. L., and Quackenbush.)
Rabenda, Edward J. (See Mills, A. W., Furman and Rabenda.)
Radio Corporation of America. (See Goodale, Elmer D., assignor.)
Radio Corporation of America. (See Hansell, Clarence W., assignor.)
Radio Corporation of America. (See Peterson, Harold O., assignor.)
Radio Corporation of America. (See Robert, Walter Van B., assignor.)
Radio Corporation of America. (See Sheaffer, Charles F., assignor.)
Ragan, Thomas M. (See Burt, C. E. Sutter, and Ragan.)
Ramsey, Joseph D. (See Ormond, John J., assignor.)
Ray-O-Vac Company. (See Cargill, William W., assignor.)
Ralston, Anderson W., and W. O. Pool, Chicago, Ill., assignors to Armour and Company. Treating water. 2,315,734; Apr. 6.
Reda Pump Company. (See Arutunoff, Armais, assignor.)
Redding, Arnold H., Rutledge, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Turbine blade shroud fastening. 2,315,655; Apr. 6.
Reed, Jesse O., Washington, D. C., assignor to Claude R. Wickard, as Secretary of Agriculture of the United States of America, and his successors in office. Hanger. 2,316,103; Apr. 6.
Reese, Edgar G., Junction, Tex. Device for testing fluids. 2,316,019; Apr. 6.
Reevely, Frederick R. (See Newton, E. E., Peachey, and Reevely.)
Reiss, Louis P., Marshall, Tex. Noncondensable gas purger. 2,316,104; Apr. 6.
Reichhold Chemicals, Inc. (See Hovey, A. G., Hodgins, and Meeske, assignors.)
Reidbord, Samuel J. and Z., Pittsburgh, Pa. Pocket for clothing. 2,315,814; Apr. 6.
Reidbord, Zelik. (See Reidbord, Samuel J. and Zelik.)
Remington Arms Company. (See Coxe, Charles D., assignor.)
Remington Arms Company. (See Gordon, W. E., and Williamson, assignors.)
Remington Arms Company. (See Hodgson, Joseph H., assignor.)
Resinous Products & Chemical Company, The. (See Myers, Frederick J., assignor.)
Reuter, Raymond, Medford Lakes, N. J., assignor to The Atlantic Refining Company, Philadelphia, Pa. Addition agent for lubricating oil and making same. 2,315,544; Apr. 6.
Rhoda, Ralph, assignor to Berkeley Pump Corporation, Berkeley, Calif. Dual pressure pumping system. 2,315,656; Apr. 6.
Rice, Loyd B., et al. (See Ross, Charles, assignor.)
Richards, Philip, Fresno, Calif. Portable folding hoist. 2,315,873; Apr. 6.
Richardson, Charles D., Alexandria, Ind., assignor to National Gypsum Company, Buffalo, N. Y. Method of and apparatus for blowing mineral wool. 2,315,735; Apr. 6.

Ridbo Laboratories, Inc. (See Ridgway, Eric O., assignor.)
Riddell, William A., assignor to Eastman Kodak Company, Rochester, N. Y. Automatic shutter. 2,316,020; Apr. 6.
Ridgway, Eric O., Upper Montclair, assignor to Ridbo Laboratories, Inc., Nutley, N. J. Treating cellulosic material. 2,315,545; Apr. 6.
Rightmyer, Holden W., assignor to The American Swiss Company, Toledo, Ohio, Vehicle door latch. 2,315,815; Apr. 6.
Ritz, John A., assignor, by mesne assignments, to Metal Carbides Corporation, Youngstown, Ohio. Making composite metal strips. 2,315,657; Apr. 6.
Rippingille, Edward V., assignor to General Motors Corporation, Detroit, Mich. Air log. 2,316,021; Apr. 6.
Rippingille, Edward V., assignor to General Motors Corporation, Detroit, Mich. Propeller hub and rudder post construction. 2,316,022; Apr. 6.
Roberts, Walter van B., Princeton, N. J., assignor to Radio Corporation of America. Negative resistance device. 2,315,658; Apr. 6.
Rochester Manufacturing Co. (See Ford, George E., assignor.)
Rochester, Thomas W. (See La Guardia, F. H., Rochester, Barron, and Gibala.)
Rochester, Thomas W., Tuckahoe, H. W. Barron, Laureleton, and J. T. Gibala, Little Neck, N. Y. Apparatus for handling explosives. 2,315,800; Apr. 6.
Rodgers Hydraulic Incorporated. (See Rodgers, James S., assignor.)
Rodgers, James S., assignor to Rodgers Hydraulic Incorporated, St. Louis Park, Minn. Pressure applying apparatus. 2,315,816; Apr. 6.
Roeder, Lucille L., Chicago, Ill. Sanitary toilet cover. 2,316,105; Apr. 6.
Röhm & Haas Company. (See Bock, L. H., and Houk, assignors.)
Röhm & Haas Company. (See Trommsdorff, Ernst, assignor.)
Rope Soles, Inc. (See Wilpan, Charles L., assignor.)
Rosch, Samuel J., Yonkers, assignor to Anaconda Wire and Cable Company, New York, N. Y. Electric cable. 2,315,736; Apr. 6.
Rosen, Oscar E., Detroit, Mich. Driving means for the slides of machine tools. 2,316,106; Apr. 6.
Rosenberger, William A., assignor to Pangborn Corporation, Hagerstown, Md. Abrading apparatus. 2,315,546; Apr. 6.
Ross, Charles, San Diego, assignor of one-half to L. B. Rice, La Jolla, and one-eighth to J. M. Sachs and P. W. Dixon, one-eighth to G. Bucknam and one-sixteenth to W. S. Severson, San Diego, Calif. Recording device. 2,315,737; Apr. 6.
Ross, John, Manhasset, and G. De W. Miles, New York, N. Y., assignors to Colgate-Palmolive-Peet Company, Jersey City, N. J. Method and apparatus for foam determination. 2,315,983; Apr. 6.
Roy, Vernon R. (See Blazek, J. Y., Sears, and Roy.)
Ruben, Zorro D., Chicago, Ill. Engine. 2,316,107; Apr. 6.
Ruoho, Armas A. (See Schulze, W. A., Ruoho, and Short.)
Ruprecht, Louis. (See Sheldon, William M., assignor.)
Russell, Francis H., Arlington, Mass. Machine for the assembly of freshly prepared food. 2,315,659; Apr. 6.
Russell, Victor J. S. (See Moss, E. B., and Russell.)
Ruthruff, Robert F., Chicago, Ill. Alkylation process and catalyst therefor. 2,316,108; Apr. 6.
Ruzicka, Leopold, Zurich, Switzerland, assignor, by mesne assignments, to Ciba Pharmaceutical Products, Incorporated, Summit, N. J. Enolesters of the saturated and unsaturated pregnane-20-ones and conversion of acetylene derivatives. 2,315,817; Apr. 6.
Ryan, James M., Pearsall, Tex. Gas and oil burner. 2,315,547; Apr. 6.
Ryan, William J., Wilmington, and M. T. Kendall, Long Beach, Calif., assignors, by mesne assignments, to The Texas Company, New York, N. Y. Treatment of cracked hydrocarbon distillates. 2,315,738; Apr. 6.
Ryder, John D. (See Junkins, R. D., Ryder, and Luhrs.)
Rydmark, Josef A. (See Lloyd, W. H., and Rydmark.)
Sabel, Isadore, Philadelphia, Pa., and L. S. Macdonald, Brockton, Mass. Golf shoe. 2,315,874; Apr. 6.
Sachs, John M., et al. (See Ross, Charles, assignor.)
Sackner, Wade E., assignor to Grand Rapids Fibre Cord Company, Grand Rapids, Mich. Filler strip. 2,315,818; Apr. 6.
Safety Vulcanizer Company. (See Chambers, Perry O., assignor.)
Sahr, Benjamin F., Hutchinson, Minn. Clamp for dental impression trays. 2,315,660; Apr. 6.
St. Clair, Theodore A., Pontiac, Mich., assignor to Phillips Petroleum Company. Charge former. 2,315,879; Apr. 6.
Sale, William H., Sandston, Va. Supporting bracket for valves. 2,315,739; Apr. 6.
Salzer, Walter, and H. Andersag, Wuppertal-Elberfeld, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. Manufacture of nitrile compounds. 2,315,661; Apr. 6.
Sandoz Ltd. (See Gutzwiller, Ernst, assignor.)
Santee Mills. (See Goldman, Joseph, assignor.)
Satchwell, Leonard, Slough, England. Temperature regulator. 2,315,984; Apr. 6.
Sauer, Henry J., Oakland, Calif. Tire removing tool. 2,316,023; Apr. 6.
Schaaff, Louis W., Jackson Heights, assignor to Waldes Koh-I-Noor, Inc., Long Island City, N. Y. Slide fastener. 2,316,133; Apr. 6.
Schering Corporation. (See Dane, Elisabeth, assignor.)
Schimpf, Luther G. (See Holden, W. H. T., and Schimpf.)
Schlesman, Carleton H., Camden, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Exploring operating structures. 2,315,819; Apr. 6.
Schoenky, August R., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Machine for operating upon work. 2,315,548; Apr. 6.
Schomer, Raymond A. (See Owens, J. C., and Schomer.)
Schoonmaker, James M., Jr., Sewickley, and F. Stockton, assignors to Standard Steel Spring Company, Coraopolis, Pa. Protected metal article and producing the same. 2,315,740; Apr. 6.
Schulze, Walter A., A. A. Ruoho, and G. H. Short, Bartlesville, Okla., assignors to Phillips Petroleum Company. Treatment of hydrocarbons. 2,315,662; Apr. 6.
Schulze, Walter A., A. A. Ruoho, and G. H. Short, Bartlesville, Okla., assignors to Phillips Petroleum Company. Treatment of hydrocarbons. 2,315,663; Apr. 6.
Schulze, Walter A., and A. E. Buell, Bartlesville, Okla., assignors to Phillips Petroleum Company. Sweetening sour hydrocarbon oil. 2,315,820; Apr. 6.
Schulze, Walter A., and L. C. Morris, Bartlesville, Okla., assignors to Phillips Petroleum Company. Treating hydrocarbons. 2,315,875; Apr. 6.
Schwartz, Daniel M., assignor to Dravo Corporation, Pittsburgh, Pa. Clamshell bucket. 2,315,985; Apr. 6.
Schwarz Engineering Company, The. (See Lachle, Frank B., assignor.)
Scinta, Anthony C. (See Horton, E. C., and Scinta.)
Scrutchfield, Paul H., assignor to Hercules Powder Company, Wilmington, Del. Separating cineoles from hydrocarbons. 2,315,986; Apr. 6.
Searle, G. D. & Co. (See Cusic, J. W., and Burtner, assignors.)
Sears, Gilbert E. (See Blazek, J. Y., Sears and Roy.)
Secretary of Agriculture of the United States of America Claude R. Wickard, and to his successors in office. (See Reed, Jesse O., assignor.)
Sekella, Michael, Elmira Heights, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Static fuse testing machine. 2,316,134; Apr. 6.
Semon, Waldo L., Silver Lake, assignor, by mesne assignments, to The B. F. Goodrich Company, Akron, Ohio. Purifying fatty acids. 2,315,664; Apr. 6.
Sengstaken, Charles W., Scarsdale, N. Y., assignor to John M. Hopwood, Mount Lebanon, Pa. Feed water control system for boiler furnaces. 2,315,665; Apr. 6.
Severson, Wesley S., et al. (See Ross, Charles, assignor.)
Sewell, Benjamin W., Tulsa, Okla., assignor to Standard Oil Development Company. Method and means for taking cores. 2,316,024; Apr. 6.
Shafer, Orville B., Owego, assignor to International Business Machines Corporation, New York, N. Y. Verifying machine. 2,315,741; Apr. 6.
Sheaffer, Charles F., Tulsa, Okla., assignor to Radio Corporation of America. Modulation system. 2,316,123; Apr. 6.
Sheldon, William M., Springfield, assignor to Louis Ruprecht, Montclair, N. J. Apparatus for impact pulverizing. 2,316,124; Apr. 6.
Shell Development Company. (See Border, Lawson E., assignor.)
Shipman, Frank M., Louisville, Ky. Wooden aging barrel. 2,315,742; Apr. 6.
Shobert, Erle I., II, assignor to Stackpole Carbon Company, St. Marys, Pa. Generator regulator. 2,315,821; Apr. 6.
Short, Graham H. (See Schulze, W. A., Ruoho and Short.)
Short, Graham H. (See Schulze, W. A., Ruoho and Short.)
Sieg, Herman F., Pittsburgh, Pa. Path-making device. 2,315,743; Apr. 6.
Siegmund, Humphreys O. (See Mallina, R. F., and Siegmund.)
Silven, Herbert A. (See Flygare, C. G., and Silven.)
Singer, Grover C., Brownsville, Tex. Incandescent electric lamp. 2,315,549; Apr. 6.
Sink and Float Corporation, The. (See Pearson, Andrew, assignor.)
Sivil, Cecil S., Roselle, E. O. Liebig, North Arlington, and R. St. Clair Low, assignors to Baker & Company, Inc., Newark, N. J. Casting of metal alloys. 2,315,876; Apr. 6.
Skeen, John R., Philadelphia, Pa., assignor to The United Gas Improvement Company. Treatment in gas distribution systems. 2,315,550; Apr. 6.
Skeen, John R., Philadelphia, Pa., assignor to The United Gas Improvement Company. Treatment in gas distribution systems. 2,315,551; Apr. 6.
Skeen, John R., Philadelphia, Pa., assignor to The United Gas Improvement Company. Treatment in gas distribution systems. 2,315,552; Apr. 6.

Skeen, John R., Philadelphia, Pa., assignor to The United Gas Improvement Company. Treatment in gas distribution systems. 2,315,553; Apr. 6.
Skeen, John R., Philadelphia, Pa., assignor to The United Gas Improvement Company. Treatment in gas distribution systems. 2,315,554; Apr. 6.
Skeen, John R., Philadelphia, Pa., assignor to The United Gas Improvement Company. Treatment in gas distribution systems. 2,315,555; Apr. 6.
Skeen, John R., Philadelphia, Pa., assignor to The United Gas Improvement Company. Treatment of gas distribution systems. 2,316,140; Apr. 6.
Skvortzoff, Alexander A., Sharon, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Transformer bushing. 2,315,666; Apr. 6.
Smathers, James F., Rochester, assignor to International Business Machines Corporation, New York, N. Y. Typewriting machine. 2,315,744; Apr. 6.
Smith, Byron L., East Rochester, assignor to The Folmer Graflex Corporation, Rochester, N. Y. Photographic cut film holder and identifying stencil or tab therefor. 2,315,987; Apr. 6.
Smith, F. L., Machine Co. (See Novick, Abraham, assignor.)
Smith, Frank E., San Jose, Calif. Nut cracking mechanism. 2,316,025; Apr. 6.
Smith, Harry M., Valley, Nebr. Interlocking silt accumulator assemblage. 2,315,822; Apr. 6.
Smith, John F., Quincy, assignor to Milton L. Dodge, Newburyport, Mass. Shoe upper pressing and shaping machine. 2,316,125; Apr. 6.
Smith, Nelson J., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,315,667; Apr. 6.
Smith, Roscoe B., assignor to Hercules Powder Company, Wilmington, Del. Shunt for electric blasting caps. 2,315,823; Apr. 6.
Smith, S., & Sons (Motor Accessories) Limited. (See Moss, E. B., and Russell, assignors.)
Snyder, Willis J., assignor to Defiance Machine Works, Inc., Defiance, Ohio. Machine tool. 2,315,877; Apr. 6.
Socony-Vacuum Oil Company. (See Loyd, Vernon J., assignor.)
Socony-Vacuum Oil Company. (See Schlesman, Carleton H., assignor.)
Soday, Frank J., Upper Darby, Pa., assignor to The United Gas Improvement Company. Producing hydroxy-diaryl substituted ethane. 2,315,556; Apr. 6.
Soday, Frank J., Swarthmore, Pa., assignor to The United Gas Improvement Company. Composition of matter and method for its preparation. 2,315,557; Apr. 6.
Soledar, Harold, New York, N. Y. Apparatus for grinding optical glass. 2,316,109; Apr. 6.
Solvay Process Company, The. (See Yingee, R. A., and Lawrence, assignors.)
Somers, Norman C., Carneys Point, N. J., and Walter Crews Woodings, Jr., Brandywine Hundred, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Treatment of sulphuric acid for the removal of nitrogen oxides. 2,315,988; Apr. 6.
Somes, Howard E., Detroit, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa. Strengthening tubular metallic objects. 2,315,558; Apr. 6.
Somes, Howard E., Detroit, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa. Internally stressed structure. 2,316,110; Apr. 6.
Sorenson, Ben E., Upper Darby, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of lower alkyl ethers of methylolurea. 2,315,745; Apr. 6.
Sperry Products, Inc. (See De Lanty, Loren J., assignor.)
Springfield Leather Products Co., The. (See Lupfer, Robert N., assignor.)
Stacey, Raymond W., and T. M. Blomquist, Menlo Park, Calif. Road sign. 2,315,878; Apr. 6.
Stackpole Carbon Company. (See Shobert, Erle I., II, assignor.)
Stafford, Guy N., Gardena, assignor to Ira J. McCullough, Los Angeles, Calif. Jarring tool. 2,315,905; Apr. 6.
Stahly, Eldon E., Baton Rouge, La., assignor, by mesne assignments, to Jasco, Incorporated. Refining process. 2,316,026; Apr. 6.
Stamm, Edward P., Portland, Oreg. Cutting rectangular lumber. 2,316,111; Apr. 6.
Standard Brands, Inc. (See Johnston, W. R., Stokes, Kennedy and Frey, assignors.)
Standard Catalytic Company. (See Cantzler, Adolf, and Krekeler, assignors.)
Standard Oil Company. (See Anderson, John A., assignor.)
Standard Oil Company. (See Gaynor, J. W., and Loane, assignors.)
Standard Oil Company. (See Geckler, R. D., and Fragen, assignors.)
Standard Oil Company. (See Kelso, C. D., and Mixon, assignors.)
Standard Oil Company. (See Loane, C. M., and Gaynor, assignors.)
Standard Oil Company. (See Loane, C. M., Gaynor, and Mixon, assignors.)
Standard Oil Company. (See McLaren, Frederick H., assignor.)
Standard Oil Company. (See White, Claron N., assignor.)
Standard Oil Company, The. (See Burk, R. E., and Hughes, assignors.)
Standard Oil Company. (See Kelso, Charles D., assignor.)
Standard Oil Company. (See Webber, Ralph C., assignor.)
Standard Oil Company of California. (See Danner, P. S., and Mithoff, assignors.)
Standard Oil Company of California. (See Koether, Emil A., assignor.)
Standard Oil Development Company. (See Child, William C., assignor.)
Standard Oil Development Company. (See Hewlett, Amiot P., assignor.)
Standard Oil Development Company. (See Packie, John W., assignor.)
Standard Oil Development Company. (See Williams, Milton, assignor.)
Standard Oil Development Company. (See Miller, P., and Cloud, assignors.)
Standard Oil Development Company. (See Miller, Pharis, assignor.)
Standard Oil Development Company. (See Sewell, Benjamin W., assignor.)
Standard Steel Spring Company. (See Schoonmaker, J. M., Jr., and Stockton, assignors.)
Stanford, Joseph B., Akron, Ohio. Gaseous mixture regulator. 2,315,906; Apr. 6.
Stanley Home Products, Inc. (See Glaskowsky, Nicholas A., assignor.)
Star Bucket Pump Company. (See Duncan, George R., assignor.)
Starr, Allan M., Piedmont, assignor to Starr & Sweetland, San Francisco, Calif. Internal combustion engine. 2,315,907; Apr. 6.
Starr & Sweetland. (See Starr, Allan M., assignor.)
Starrett, Rupert M., Bridgeport, Conn., assignor of thirty percent to John Kovats, ten percent to John J. Kovats, and eleven percent to George C. Johnson, all of Fairfield, Conn. Calculating machine. 2,315,908; Apr. 6.
Steel Heddle Manufacturing Company. (See Kaufmann, John J., assignor.)
Steele, Eddie, Coconino County, Ariz. Saddle and saddle construction. 2,315,487; Apr. 6.
Stephenson, Clarence E., et al. (See Stephenson, William E., assignor.)
Stephenson, William E., assignor of thirty-five and five-tenths percent to Howard B. Hawk, twenty-six percent to Clarence E. Stephenson, and twelve and five-tenths percent to E. Curtis Chambers, all of Missoula, Mont. Laudry bag. 2,315,909; Apr. 6.
Stewart, Burns E., assignor of one-half to J. Flesch, Columbus, Ohio. Electrical connection box. 2,315,746; Apr. 6.
Stiles, John W., New York, N. Y. Conveyer feeding system. 2,315,880; Apr. 6.
Stockton, Franklin. (See Schoonmaker, J. M., and Stockton.)
Stoeckly, Johann J., Teltow-Seehof, and W. Linnhoff, Berlin-Lankwitz, Germany, assignors to North American Rayon Corporation, New York, N. Y. Spinning viscose. 2,315,559; Apr. 6.
Stoeckly, Johann J., Teltow-Seehof, and W. Linnhoff, Berlin-Lankwitz, Germany, assignors to North American Rayon Corporation, New York, N. Y. Producing high strength and crimped staple fibers from viscose. 2,315,560; Apr. 6.
Stokes, William E. (See Johnston, W. R., Stokes, Kennedy, and Frey.)
Stout, Raymond K. (See Crane, C. J., Holloman, and Stout.)
Strait, Mabel S., Conway, Ark. Supporting garment. 2,315,561; Apr. 6.
Stuewer, Reinhold F., Scranton, Pa., assignor to Grove Silk Company, Yarn-twisting machine. 2,315,562; Apr. 6.
Sunshine Foods Inc. (See McKinnis, Ronald B., assignor.)
Sutter, Theodore. (See Burt, C. E., Sutter, and Ragan.)
Swango, George E., Dearborn, Mich. Portable window stand. 2,315,668; Apr. 6.
Sweeny, Arthur O., Kittery, Maine. Combined pneumatic and hydraulic water closet. 2,315,824; Apr. 6.
Swormstedt, Frank W., Fort Thomas, assignor to Higgin Products, Inc., Newport, Ky. Dark closure. 2,316,027; Apr. 6.
Synchrone Manufacturing Company. See Davis, Bert, assignor.)
Syntron Company. (See Weyandt, C. S., and Missien, assignors.)
Tallman, Oscar F., assignor to J. R. Kearney Corporation, St. Louis, Mo. Wire attaching device. 2,315,826; Apr. 6.
Tallman, Oscar F., assignor to J. R. Kearney Corporation, St. Louis, Mo. Connector. 2,315,825; Apr. 6.
Tamarin, Abraham H., Chicago, Ill. Artificial tooth. 2,315,669; Apr. 6.
Tansley, Leslie R., assignor to White Castle System, Inc., Columbus, Ohio. Machine for holding and dispensing drinking cups. 2,315,827; Apr. 6.

Tascher, Eugene S., Ingleside, Ill., and W. Bazant, Wyandanch, assignors to National Biscuit Company, New York, N. Y. Conveying and delivery mechanism. 2,315,670; Apr. 6.

Tattersfield, Charles P. (See Wilcock, C. C., and Tattersfield.)

Tawney, Gereld L., Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Sensitivity of the pirani gauge. 2,315,671; Apr. 6.

Tawney, Gereld L., and W. A. Johnson, Pittsburgh, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Pressure gauge. 2,315,672; Apr. 6.

Taylor Instrument Companies. (See Ziegler, John G., assignor.)

Taylor, Russell C., Greenwich, Conn., assignor to American Can Company, New York, N. Y. Container. 2,315,563; Apr. 6.

Taylor, William H., Martin County, Tex. Cleaning device. 2,315,673; Apr. 6.

Temple, Robert, Jr., Pittsburgh, Pa., assignor, by mesne assignments, to Temple Velocity Equipment, Inc. Bonding device. 2,316,112; Apr. 6.

Temple Velocity Equipment, Inc. (See Temple, Robert, Jr., assignor.)

Tennison, Alfred A., Texarkana, Ark., and James D. Tennison, Memphis, Tenn. Termite shield. 2,315,989; Apr. 6.

Tennison, James D. (See Tennison, Alfred A. and James D.)

Terry, Spencer B., West Hartford, and R. S. Fox, Canton, assignors to Niles-Bement-Pond Company, West Hartford, Conn. Totalizer for rolling mills. 2,315,747; Apr. 6.

Testi, Nicholas, assignor to Gillette Safety Razor Company, Boston, Mass. Safety razor. 2,315,990; Apr. 6.

Texas Company, The. (See Ryan, W. J., and Kendall, assignors.)

Thatcher, Linden A., assignor to Pitney-Bowes Postage Meter Company, Stamford, Conn. Coin operated mailing machine. 2,315,828; Apr. 6.

Thielker, Henry J., assignor to Western Electric Company, Incorporated, New York, N. Y. Making rollers. 2,315,910; Apr. 6.

Thomas, Rosswell W., Bartlesville, Okla., assignor to Phillips Petroleum Company. Higher vapor pressure fuel system and combination carburetor. 2,315,881; Apr. 6.

Thompson, Elmer O. (See Thompson, Milton L. and Elmer O.)

Thompson, John S., and E. W. Goodspeed, assignors to Parker Rust-Proof Company, Detroit, Mich. Coating and fabricating steel articles. 2,315,564; Apr. 6.

Thompson, Milton L., Hollywood, Pa., and E. O. Thompson Grasmere, N. Y., assignors to Philco Radio and Television Corporation, Philadelphia, Pa. Photoelectric phonograph. 2,316,113; Apr. 6.

Thompson, Morris J., Los Angeles, Calif. Method and apparatus for taking impressions of cavities for dental inlays. 2,315,748; Apr. 6.

Thompson Products, Incorporated. (See Lockett, William J., assignor.)

Thompson, Tom H., assignor, by mesne assignments, to Builder-Thompson Engineering and Research Corporation, Detroit, Mich. Machine element. 2,316,114; Apr. 6.

Thompson, Tom H., assignor, by mesne assignments, to Builder-Thompson Engineering and Research Corporation, Detroit, Mich. Rotary pump or motor. 2,316,115; Apr. 6.

Thompson, William G., and B. M. Kerr, assignors to J. I. Case Company, Racine, Wis. Tank. 2,316,116; Apr. 6.

Thumim, Carl, Yeadon, Pa., assignor to General Electric Company. Electric circuit breaker. 2,315,991. Apr. 6.

Tichvinsky, Leonid M., Annapolis, Md., and R. A. Baudry, Pittsburgh, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Bearing. 2,315,674; Apr. 6.

Tilley, Edwin F., Dunellen, N. J. Chuck for rotating and advancing tubing or other material. 2,316,117; Apr. 6.

Timken Roller Bearing Company, The. (See Buckwalter, Tracy V., assignor.)

Titanium Alloy Manufacturing Company, The. (See Hake, D. S., and Prior, assignors.)

Titanium Alloy Manufacturing Company, The. (See Wainer, Eugene, assignor.)

Toth, Louis. (See Peremi, E., and Toth.)

Trautman, Raymond B. (See Johnson, C. B., and Trautman.)

Trico Products Corporation. (See Horton, E. C., and Scinta, assignors.)

Trimble, Harold M., and R. R. Couch, Bartlesville, Okla., assignors to Phillips Petroleum Company. Antiknock control system. 2,315,882; Apr. 6.

Triplett, Ray L. (See Wenger, Floyd E., assignor.)

Trommsdorff, Ernst, Darmstadt, Germany, assignor to Röhm & Haas Company, Philadelphia, Pa. Sizing of paper. 2,315,675; Apr. 6.

Truedson, Edward M., Inglewood, Calif. Lawn sprinkler. 2,315,911; Apr. 6.

Trumbower, Walter G. (See Weigmann, E. C., Trumbower, and Moore.)

Trump, Frederick O., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Cooling apparatus. 2,315,829; Apr. 6.

Tryon, Edw. K., Company. (See Willits, Leland R., assignor.)

Tubbs, Harry, Owego, N. Y. File. 2,315,749; Apr. 6.

Tucker, George G., Jr., Berwyn, assignor to Hubbard Spool Company, Chicago, Ill. Spool. 2,316,028; Apr. 6.

Tung-Sol Lamp Works Inc. (See Curtis, Lorin W., assignor.)

Turck, James R., Berwyn, and C. Bolling, assignors to Crane Co., Chicago, Ill. Shower head. 2,316,135; Apr. 6.

Turnbull, Norris, Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Isomerization of dihydrobenzenes. 2,316,136; Apr. 6.

Udale, Stanley M., Detroit, Mich., assignor to George M. Holley and Earl Holley. Governor. 2,315,912; Apr. 6.

Uddenborg, Johan R., Chicago, Ill. Traction wheel. 2,315,883; Apr. 6.

Unger, Paul O., Elmhurst, assignor to Wilson-Jones Company, Chicago, Ill. Loose leaf binder. 2,316,118; Apr. 6.

Union Switch & Signal Company, The. (See Lewis, Lloyd V., assignor.)

Union Switch and Signal Company, The. (See McCluer, John D., assignor.)

Union Switch & Signal Company, The. (See Wallace, Herbert A., assignor.)

United Aircraft Corporation. (See Anderson, John E., assignor.)

United Gas Improvement Company, The. (See Skeen, John R., assignor.)

United Gas Improvement Company, The. (See Soday, Frank J., assignor.)

United Shoe Machinery Corporation. (See Miller, Lloyd G., assignor.)

United Shoe Machinery Corporation. (See Schoenky, August R., assignor.)

United Shoe Machinery Corporation. (See Ushakoff, Alexis E., assignor.)

United States Rubber Company. (See Gerke, Roscoe H. assignor.)

United States Rubber Company. (See Howland, Louis H., assignor.)

U. S. Slicing Machine Company. (See Ahrndt, Arthur H., assignor.)

U. S. Slicing Machine Company. (See Brustowsky, Morris, assignor.)

Universal Oil Products Company. (See Hulsberg, William E., assignor.)

Upjohn Company, The. (See Cartland, G. F., and Kuizenga, assignors.)

Ushakoff, Alexis E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Shrinking machine. 2,315,676; Apr. 6.

Van Halteren, Andrew S., East Lansing, and C. W. Gressle, assignors to Motor Wheel Corporation, Lansing, Mich. Making brake drums. 2,316,029; Apr. 6.

Vendope, Van L., New York, N. Y. Lighting equipment. 2,315,884; Apr. 6.

Verbeek, Arnold F., Oberlungwitz, Germany, assignor to Kalio, Inc., New York, N. Y. Straight bar knitting machine. 2,316,030; Apr. 6.

Vingee, Raymond A., Syracuse, and C. K. Lawrence, Baldwinsville, assignors to The Solvay Process Company, New York, N. Y. Production of alkali metals and their amides. 2,315,830; Apr. 6.

Visser, Gerrit A., assignor to The Jaeger Machine Company, Columbus, Ohio. Truck mixer. 2,316,137; Apr. 6.

Vogt, Arthur G., Toledo, Ohio. Tensioning device for yarn, thread, or the like. 2,316,031; Apr. 6.

Vollmer, Earl C. (See Kottmann, A. A., and Vollmer.)

Von Reppert, Richard, Rochester, assignor to International Business Machines Corporation, New York, N. Y. Typewriting machine. 2,315,992; Apr. 6.

Wagner Electric Corporation. (See Dick, Burns, assignor.)

Wainer, Eugene, Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Preparation of compounds of zirconium, titanium, and hafnium. 2,316,141; Apr. 6.

Waite, Jerome M. (See Peebles, M. W., and J. C. and J. M. Waite.)

Waite, John C. (See Peebles, M. W., and J. C. and J. M. Waite.)

Wakefield, George P., Vermilion, Ohio. Washing device. 2,315,750; Apr. 6.

Waldes Koh-I-Noor, Inc. (See Schaaff, Louis W., assignor.)

Waldren, Frederic B., Prescot, and J. H. Griffin, Saint Helens, assignors to Pilkington Brothers Limited, Liverpool, England. Minimizing breakage of glass during the production of surfaced continuous strips of glass. 2,315,885; Apr. 6.

Wallace, Herbert A., Edgewood, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,315,677; Apr. 6.

Wallace, Herbert A., Edgewood, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,315,886; Apr. 6.

Wallace, Herbert A., Edgewood, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,315,887; Apr. 6.

Wallace, James M., Braddock, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit interrupters. 2,315,678; Apr. 6.

Wallace, John J., Gouverneur, N. Y. Grinding mill. 2,316,032; Apr. 6.

Walsh, Margaret M., New York, N. Y. Glove attacher. 2,316,033; Apr. 6.

Waltenberg, Romaine G., Roselle, assignor to The H. A. Wilson Company, Newark, N. J. Bimetallic element. 2,315,565; Apr. 6.

Ward, Carroll P., Galveston, Tex. Shelter attachment for motor vehicles. 2,315,680; Apr. 6.

Warnat, Kurt, Basel, Switzerland, assignor to Hoffmann-La Roche Inc., Nutley, N. J. Preparation of the cyanhydrin of formisobutyraldol. 2,315,679; Apr. 6.

Warner, Louis A., Baltimore, Md. Radio navigator. 2,315,754; Apr. 6.

Warner, Louis A., Baltimore, Md. Radio navigator. 2,315,755; Apr. 6.

Warner, Louis A., Baltimore, Md. Air speed and similar indicator. 2,315,756; Apr. 6.

Warren, Harry E., Bronxville, N. Y. Parking garage system. 2,316,034; Apr. 6.

Waterbury Farrel Foundry and Machine Company, The. (See Wilcox, Richard L., assignor.)

Watral, Henry J., Queens Village, and J. Helenek, Elmhurst, N. Y. Towel rack. 2,315,566; Apr. 6.

Webb, Edwin Y., Jr., Atlanta, Ga., assignor of one-fourth to H. L. Davis, Washington, D. C. Secret signaling system. 2,315,567; Apr. 6.

Webber, Ralph C., Whiting, Ind., assignor to Standard Oil Company, Chicago, Ill. Candle ornamenting method. 2,315,751; Apr. 6.

Weed, James M., Schenectady, N. Y., assignor to General Electric Company. Voltage regulator. 2,315,913; Apr. 6.

Wegler, Richard. (See Nadler, F., Wegler and Bayer.)

Weichert, Kurt. (See Beeg, Hermann, and Weichert.)

Weil, Fritz, Berlin-Oberschoneweide, Germany, assignor to General Electric Company. Electric circuit interrupting device. 2,316,036; Apr. 6.

Weisgerber, Edwin C., Los Angeles, Calif. Filter. 2,315,681; Apr. 6.

Wells, Carroll G., Washington, D. C. Glove. 2,315,888; Apr. 6.

Wells, Carroll G., Washington, D. C. Mitten. 2,315,889; Apr. 6.

Wenger, Raymond W., assignor to Eastman Kodak Company, Rochester, N. Y. Film gate for projectors. 2,315,914; Apr. 6.

Wenger, Floyd E., assignor to R. L. Triplett, Bluffton, Ohio. Electrical fence charging apparatus. 2,315,757; Apr. 6.

Wernlund, Christian J., Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Cleaning steel surfaces. 2,315,568; Apr. 6.

Western Electric Company. (See Bouget, Yves A., assignor.)

Western Electric Company. (See Newton, E. E., Peachey, and Reevely, assignors.)

Western Electric Company. (See Pizzi, A. L., and Quackenbush, assignors.)

Western Electric Company. (See Thielker, Henry J., assignor.)

Westinghouse Electric & Manufacturing Company. (See Baker, John G., assignor.)

Westinghouse Electric & Manufacturing Company. (See Barnes, Thomas D., assignor.)

Westinghouse Electric & Manufacturing Company. (See Bostwick, Myron A., assignor.)

Westinghouse Electric & Manufacturing Company. (See Bradshaw, William M., assignor.)

Westinghouse Electric & Manufacturing Company. (See Cassen, Benediet, assignor.)

Westinghouse Electric & Manufacturing Company. (See Chalupa, J. F., and Lloyd, assignors.)

Westinghouse Electric & Manufacturing Company. (See Conrad, Frank, assignor.)

Westinghouse Electric & Manufacturing Company. (See Corbett, Francis P., assignor.)

Westinghouse Electric & Manufacturing Company. (See Cox, J. H., and Casanova, assignors.)

Westinghouse Electric & Manufacturing Company. (See Davies, James A., assignor.)

Westinghouse Electric & Manufacturing Company. (See Dawson, John W., assignor.)

Westinghouse Electric & Manufacturing Company. (See Evans, R. D., and Monteith, assignors.)

Westinghouse Electric & Manufacturing Company. (See Fielder, Frederick D., assignor.)

Westinghouse Electric & Manufacturing Company. (See Flanders, Warren B., assignor.)

Westinghouse Electric & Manufacturing Company. (See Franck, Clarence C., assignor.)

Westinghouse Electric & Manufacturing Company. (See Guhl, Henry C., assignor.)

Westinghouse Electric & Manufacturing Company. (See Hall, James R., assignor.)

Westinghouse Electric & Manufacturing Company. (See Huffstutter, John W, assignor.)

Westinghouse Electric & Manufacturing Company. (See Hutcheson, J. A., and Lee, assignors.)

Westinghouse Electric & Manufacturing Company. (See Jacobi, William H., assignor.)

Westinghouse Electric & Manufacturing Company. (See King, George E., assignor.)

Westinghouse Electric & Manufacturing Company. (See Lewis, R. H., and Adams, assignors.)

Westinghouse Electric & Manufacturing Company. (See Lloyd, W. H., and Rydmark, assignors.)

Westinghouse Electric & Manufacturing Company. (See May, John W., assignor.)

Westinghouse Electric & Manufacturing Company. (See McShane, Phelan, assignor.)

Westinghouse Electric & Manufacturing Company. (See Mosser, James K., assignor.)

Westinghouse Electric & Manufacturing Company. (See Parker, W. W., and Peters, assignors.)

Westinghouse Electric & Manufacturing Company. (See Pollard, E. I., and Baudry, assignors.)

Westinghouse Electric & Manufacturing Company. (See Putman, Henry V., assignor.)

Westinghouse Electric & Manufacturing Company. (See Reddine, Arnold H., assignor.)

Westinghouse Electric & Manufacturing Company. (See Skvortzoff, Alexander A., assignor.)

Westinghouse Electric & Manufacturing Company. (See Tawney, Gereld L., assignor.)

Westinghouse Electric & Manufacturing Company. (See Tawney, G. L., and Johnson, assignors.)

Westinghouse Electric & Manufacturing Company. (See Tichvinsky, L. M., and Baudry, assignors.)

Westinghouse Electric & Manufacturing Company. (See Wallace, James M., assignor.)

Westrope, Frederick J., Pleasant Ridge, Mich., assignor, by mesne assignments, to F. L. Jacobs Co. Molding. 2,316,035; Apr. 6.

Wexler, Irving, assignor to The R. H. Laird Manufacturing Company, Inc., New York, N. Y. Toilet article. 2,316,138; Apr. 6.

Weyandt, Carl S., and E. J. Missien, assignors to Syntron Company, Homer City, Pa. Percussion tool. 2,315,993; Apr. 6.

White Castle System, Inc. (See Tansley, Leslie R., assignor.)

White, Cecil J., Minneapolis, Minn. Method and apparatus for handling concrete. 2,315,915; Apr. 6.

White, Charles H., assignor to Deere & Company, Moline, Ill. Planter. 2,315,752; Apr. 6.

White, Claron N., assignor to Standard Oil Company, Chicago, Ill. Lubricant. 2,316,091; Apr. 6.

White, Henry W., Houston, Tex. Dashplate compartment taximeter. 2,315,569; Apr. 6.

White, S. S., Dental Manufacturing Company, The. (See Crowell, W. S., and Birch, assignors.)

White, William S., Denver, Colo. Intermittent flow valve. 2,315,570; Apr. 6.

Whiteley, Austyn L., and B. G. Higgins, Rugby, England, assignors to General Electric Company. Electric welding system. 2,315,916; Apr. 6.

Whitney Blake Company, The. (See Judisch, Carl H., assignor.)

Wiberg, Oscar A. (See Ax, G. B. Grunewald, Wiberg, and Oman.)

Wiegmann, Edwin C., and W. G. Trumbower, Philadelphia, and C. B. Moore, Carroll Park, assignors to The Brown Instrument Company, Philadelphia, Pa. Measuring instrument. 2,315,682; Apr. 6.

Wilcock, Clifford C., Salford, and C. P. Tattersfield, Audenshaw near Manchester, assignors to Courtaulds Limited, London, England. Treatment of cellulosic materials. 2,316,037; Apr. 6.

Wilcox, Everett, Hyattsville, Md. Device for handling incendiary bombs. 2,315,831; Apr. 6.

Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Chip control mechanism. 2,315,994; Apr. 6.

Wilder, Reuben M., Hayward, Calif. Electrically operated garage door. 2,315,571; Apr. 6.

Wiley, Kate, Lake City, Minn. Underskirt attachment. 2,315,832; Apr. 6.

Williams, I. B., and Sons, Inc. (See Plummer, Lloyd F., assignor.)

Williams, Milton, Houston, Tex., assignor to Standard Oil Development Company. Addition agent for enhancement of the properties of drilling muds. 2,315,995; Apr. 6.

Williams Oil-O-Matic Heating Corporation. (See Gibson, H. V., and Casey, assignors.)

Williamson, Joseph E. (See Gordon, W. E., and Williamson.)

Willits, Leland R., Atlantic City, N. J., assignor, by mesne assignments, to Edw. K. Tryon Company. Diaphragm and support. 2,315,758; Apr. 6.

Wilpan, Charles L., New York, N. Y., assignor to Rope Soles, Inc., Paterson, N. J. Shoe and outsole therefor. 2,315,759; Apr. 6.

Wilson, Burton, San Jose, Calif. Combination support. 2,316,038; Apr. 6.

Wilson, H. A., Company, The. (See Waltenberg, Romaine G., assignor.)

Wilson, Howard R., Cleveland, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Cement composition. 2,316,039; Apr. 6.
Wilson-Jones Company. (See Unger, Paul O., assignor.)
Wilson, Raymond W., Glendale, Calif. Dishwashing machine. 2,315,572; Apr. 6.
Winthrop Chemical Company. (See Behnisch, Robert, assignor.)
Winthrop Chemical Company. (See Salzer, W., and Andersag, assignors.)
Wirfel, James W., Ridgewood, N. Y. Fountain-type marking device. 2,316,040; Apr. 6.
Wisniewsky, Bolus S. (See Peshal, Carl M., assignor.)
Wood, Gar, Industries, Inc. (See Monohan, John C., assignor.)
Wood, Jess E. (See Dodge, R. D., and Wood.)
Woodings, Walter C., Jr. (See Somers, N. C., and Woodings, Jr.)
Woolfolk Chemical Works, Limited. (See Lilpfert, William J., assignor.)
Workman, Myrtle F., San Diego, Calif. Fountain art brush. 2,315,996; Apr. 6.
Wottring Instrument Company, The. (See Wottring, Le Roy, assignor.)
Wottring, Le Roy, Altadena, Calif., assignor to The Wottring Instrument Company, Amherst, Ohio. Orthoptic instrument. 2,316,139; Apr. 6.
Yaffa, Alexander, Boston, Mass. Bracket for cartons. 2,315,573; Apr. 6.
Yolles, Jack. (See Anderson, P. E., and Yolles.)
Yolles, Jacob. (See Anderson, P. E., and Yolles.)
Yolles, Jon J. (See Anderson, P. E., and Yolles, Jon J., also known as Jack and Jacob.)
York Safe and Lock Company. (See Bescherer, Palmer, assignor.)
Youker, Malcolm P., and W. H. Creel, Bartlesville, Okla., assignors to Phillips Petroleum Company. Panel furnace construction. 2,315,833; Apr. 6.
Youngstown Steel Door Company, The. (See Ditchfield, Frank, assignor.)
Youngstown Steel Door Company, The. (See Madland, Thurvald, assignor.)
Zebulske, Edward A., North Tonawanda, assignor to H. F. Maynes and E. C. Maynes, Tonawanda, N. Y. Connecting means. 2,315,760; Apr. 6.
Zervas, Paul, Cologne-Mulheim, Germany, assignor to General Aniline & Film Corporation, New York, N. Y. 1-aminoaryl-5-pyrazolone-4-sulphonic acids. 2,315,834; Apr. 6.
Zervas, Paul, Cologne-Mulheim, Germany, assignor to General Aniline & Film Corporation, New York, N. Y. Condensation products of 1-aminoaryl-5-pyrazolone-4-sulphonic acids. 2,315,835; Apr. 6.
Zervas, Paul, Cologne-Mulheim, Germany, assignor to General Aniline & Film Corporation, New York, N. Y. 5-pyrazolone-4-sulphonic acids. 2,315,836; Apr. 6.
Ziegler, John G., assignor to Taylor Instrument Companies, Rochester, N. Y. Apparatus for controlling crystal growth. 2,315,683; Apr. 6.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 6TH DAY OF APRIL, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Circuit breaker, Gas blast. B. W. Wyman. 22,298; Apr. 6.

Scale, Weighing. J. F. Sullivan. 22,297; Apr. 6.

LIST OF DESIGN INVENTIONS

Amusement apparatus. J. F. Meyer. 135,407; Apr. 6.
Amusement apparatus. J. F. Meyer. 135,410–11; Apr. 6.
Apron. O. L. Heimerman. 135,445; Apr. 6.
Bag or similar article. M. S. Karoff. 135,446; Apr. 6.
Block for a filing drawer, Follower. D. B. Hull. 135,416; Apr. 6.
Board, Bread slicing. A. R. De Long. 135,413; Apr. 6.
Bowling alley bed and approach or similar article, Combined. R. E. Kennedy. 135,447; Apr. 6.
Bracket for plate welding operations, Aligning and holding. R. W. McLaren. 135,425; Apr. 6.
Cabinet for an amusement apparatus. J. F. Meyer. 135,405–6; Apr. 6.
Cabinet for an amusement apparatus. J. F. Meyer. 135,408–9; Apr. 6.
Cabinet for a vending machine. J. F. Meyer. 135,412; Apr. 6.
Calculator, Listing. L. P. Crosman. 135,442; Apr. 6.
Can, Milk. L. F. Norris. 135,454; Apr. 6.
Cap. I. Borten. 135,435; Apr. 6.
Cap. P. M. Maxwell and W. J. Russy. 135,437; Apr. 6.
Cap. P. M. Maxwell and W. J. Russy. 135,439; Apr. 6.
Casing for hearing aids. S. Decker. 135,443; Apr. 6.
Chaise longue. W. I. Smith. 135,417; Apr. 6.
Dress. B. Cashin. 135,449–53; Apr. 6.
Extractor, Fruit juice. W. D. Seigh. 135,429; Apr. 6.
Game board. J. C. Forst. 135,414; Apr. 6.
Glass, Illuminable magnifying. C. D. Austin. 135,422; Apr. 6.
Glass, Reading. C. D. Austin. 135,421; Apr. 6.
Handbag. H. Schoenfeld. 135,428; Apr. 6.
Helicopter. R. J. Woods. 135,434; Apr. 6.
Holder, Transitional angle cock. S. H. Campbell and F. H. Pletzsch. 135,423; Apr. 6.
Indicator for aircraft, Automatic pilot. P. Halpert and J. B. Schaefer. 135,415; Apr. 6.
Jewelry finding or similar article. R. Kellett and F. C. Robinson. 135,436; Apr. 6.
Lace, Embroidered. J. Wiener. 135,433; Apr. 6.
Medal or the like. W. E. Stamets. 135,430; Apr. 6.
Mirror or similar article, Folding. D. Bezborodko. 135,404; Apr. 6.
Mold or similar article, Butter. J. L. Wade. 135,419; Apr. 6.
Panty-girdle. E. P. Scriggins. 135,440; Apr. 6.
Pen section or similar article, Fountain. S. M. Sager. 135,448; Apr. 6.
Pin or similar article. V. L. Reid. 135,427; Apr. 6.
Ruler. W. J. Turner. 135,418; Apr. 6.
Scarf or similar article, Table. R. C. Oppenheim. 135,438; Apr. 6.
Scarf, Separable fur. J. Zimmerman. 135,420; Apr. 6.
Sharpener, Knife. H. M. Staley. 135,441; Apr. 6.
Slip. M. Zinaman. 135,431; Apr. 6.
Slipper and sock, Combined. W. Sherman. 135,432; Apr. 6.
Switch or similar article, Flame operated. H. C. Grant, Jr., and E. Du Pont. 135,444; Apr. 6.
Tool, Hubcap. W. H. Otto. 135,426; Apr. 6.
Toy vehicle. C. W. Judd. 135,424; Apr. 6.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 6TH DAY OF APRIL, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrading aparatus. W. A. Rosenberger. 2,315,546; Apr. 6.
Accumulator assemblage, Interlocking silt. H. M. Smith. 2,315,822; Apr. 6.
Acid esters, Purifying phosphoric. H. Beeg and K. Weichert. 2,315,495; Apr. 6.
Acids, 5-pyrazolone-4-sulphonic. P. Zervas. 2,315,836; Apr. 6.
Acids, 1-amino aryl-5-pyrazolone-4-sulphonic. P. Zervas. 2,315,834; Apr. 6.
Actuating means for scoreboard indicia. J. O Ivie and H. L. Ivie. 2,315,622; Apr. 6.
Acylcyanoguanidines, Manufacture of quaternary. J. Bindler. 2,315,765; Apr. 6.
Adapter. A. B. Hoss. 2,315,792; Apr. 6.
Addition agent for enhancement of the properties of drilling muds. M. Williams. 2,315,995; Apr. 6.
Addition agent for lubricating oil and making same. R. Reuter. 2,315,544; Apr. 6.
Adhesive, Formaldehyde-urea. W. C. Dearing and K. D. Meiser. 2,315,776; Apr. 6.
Adjustable screen. C. H. Peterson. 2,315,651; Apr. 6.
Agents, Antispasmodic. J. W. Cusic and R. R. Burtner. 2,316,051; Apr. 6.
Airplane engine mount. O. C. Koppen. 2,316,077; Apr. 6.
Air speed and similar indicator. L. A. Warner. 2,315,756; Apr. 6.
Alkali metals and their amides, Production of. R. A. Vingée and C. K. Lawrence. 2,315,830; Apr. 6.
Alkyl ethers of methylolurea, Preparation of. B. E. Sorenson. 2,315,745; Apr. 6.
Alkylation process and catalyst therefor. R. F. Ruthruff. 2,316,108; Apr. 6.
Alloy: *See*—
  Copper-base alloy. Nickel-base alloy.
Ammonium thiosulphates, Preparation of. M. Marasco. 2,315,534; Apr. 6.
Ammunition. J. H. Hodgson. 2,315,853; Apr. 6.
Amplifying leverage for vehicle brakes. D. M. Martindill. 2,315,632; Apr. 6.
Anchor for clotheslines or the like. B. Davis. 2,316,053; Apr. 6.
Anchoring device. C. R. Fitz Gerald. 2,315,513; Apr. 6.
Anode. E. W. Ferm and R. O. Hull. 2,315,607; Apr. 6.
Apparatus for balancing. J. G. Baker. 2,315,578; Apr. 6.
Apparatus for controlling crystal growth. J. G. Ziegler. 2,315,683; Apr. 6.
Apparatus for forming meat loaf. A. Giglio. 2,315,952; Apr. 6.
Apparatus for grinding optical glass. H. Solodar. 2,316,109; Apr. 6.
Apparatus for handling explosives. T. W. Rochester, H. W. Barron, and J. T. Gibala. 2,315,800; Apr. 6.
Apparatus for heat treating. F. S. Denneen and W. C. Dunn. 2,315,509; Apr. 6.
Apparatus for impact pulverizing. W. M. Sheldon. 2,316,124; Apr. 6.
Apparatus for operating on sheet material. H. S. Method. 2,315,976; Apr. 6.
Apparatus for resurfacing. J. Y. Blazek, G. E. Sears, and V. R. Roy. 2,315,891; Apr. 6.
Apparatus for treating food. R. B. McKinnis. 2,316,094; Apr. 6.
Artificial tooth. A H. Tamarin. 2,315,669; Apr. 6.
Attacher, Glove. M. M. Walsh. 2,316,033; Apr. 6.
Attachment for corn pickers. F. A. Fitzloff. 2,315,950; Apr. 6.
Automobile heater. H. J. De N. McCollum. 2,315,636; Apr. 6.
Automobile wheel lock. H. S. Jandus. 2,315,963; Apr. 6.
Bag: *See*—
  Laundry bag.
Bandage, Plaster. G. E. Hardy. 2,315,484; Apr. 6.
Barometric device. E. J. Martin and R. H. Dietz. 2,316,009; Apr. 6.
Barrel, Wooden aging. F. M. Shipman. 2,315,742; Apr. 6.
Bathroom fixture and the like. G. A. Hallenscheid. 2,315,955; Apr. 6.
Battery and cover retaining means for electric hand lanterns, Combined. W. W. Moxley. 2,315,726; Apr. 6.
Bearing. W. H. Bagley, Jr. 2,316,119; Apr. 6.
Bearing. L. M. Tichvinsky and R. A. Baudry. 2,315,674; Apr. 6.
Belt. L. F. Plummer. 2,316,018; Apr. 6.
Belt, Woven cartridge. E. J. Gibbons. 2,315,782; Apr. 6.
Berries, Cleaning hard or frozen. C. Bridges. 2,315,929; Apr. 6.
Beverage brewer, Automatic. G. A. Denton. 2,315,777; Apr. 6.
Bimetallic element. R. G. Waltenberg. 2,315,565; Apr. 6.
Blade spacer. H. H. Mohl. 2,315,724; Apr. 6.
Blind structure, Venetian. H. J. Ehrenfeld. 2,315,605; Apr. 6.
Bolt and rivet making machine. W. J. Carney. 2,315,769; Apr. 6.
Bonding device. R. Temple, Jr. 2,316,112; Apr. 6.
Booster pump throat. W. J. Lockett. 2,316,007; Apr. 6.
Borehole thermometer. W. J. Crites. 2,315,840; Apr. 6.
Box: *See*—
  Display box. Electrical connection box.
Box top construction, Cardboard. R. E. Edmonson. 2,315,947; Apr. 6.
Brake drums, Making. A. S. Van Halteren and C. W. Gressle. 2,316,029; Apr. 6.
Brake lever. H. S. Jandus. 2,315,962; Apr. 6.
Brake shoes, Correcting the uneven wear of. P. W. Hoshor. 2,315,707; Apr. 6.
Bracket for cartons. A. Yaffa. 2,315,573; Apr. 6.
Brake: *See*—
  Fluid brake.
Braking device for cumulative demand registers. R. H. Lewis and P. G. Adams. 2,315,630; Apr. 6.
Brassière and girdle, Combiantion. L. Malmstead. 2,315,975; Apr. 6.
Brassière, Nursing. A. A. Glasser. 2,315,614; Apr. 6.
Breaker mechanism. J. W. May. 2,315,633; Apr. 6.
Brush, Fountain art. M. F. Workman. 2,315,996; Apr. 6.
Bucket, Clamshell. D. M. Schwartz. 2,315,985; Apr. 6.
Building construction. E. Knowlton. 2,315,967; Apr. 6.
Burner: *See*—
  Gas and oil burner.
Burner control system. W. M. Couzens. 2,315,773–4; Apr. 6.
Bus. T. Crawford. 2,315,688; Apr. 6.
Cabinet: *See*—
  Table cabinet.
Cable: *See*—
  Electric cable.
Cable connector. C. E. Bowers. 2,315,685; Apr. 6.
Calculating machine. C. M. Friden. 2,315,780; Apr. 6.
Calculating machine. R. M. Starrett. 2,315,908; Apr. 6.
Calibrating device. R. L. Downey. 2,315,945; Apr. 6.
Caliper. D. McGreevy. 2,315,806; Apr. 6.
Candle ornamenting method. R. C. Webber. 2,315,751; Apr. 6.
Car door. T. Madland. 2,315,719; Apr. 6.
Car wheel grinding machine. C. G. Flygare and H .A. Silven. 2,316,058; Apr. 6.
Carboxyethyl starch ethers, Water-soluble. L. H. Bock and A. L. Houk. 2,316,128; Apr. 6.
Carburetor. W. E. Leibing. 2,315,716; Apr. 6.
Carburetor. W. E. Leibing and R. D. Fageol. 2,315,717; Apr. 6.
Card selector. W. L. Jones. 2,315,860; Apr. 6.
Case: *See*—
  Cigarette case.
Casting and stationary float, Combined. F. R. Kimbrough. 2,316,074; Apr. 6.
Catalytic surfaces, Activating. M. H. Gwynn. 2,315,518; Apr. 6.
Catalytic treatment of non-benzenoid hydrocarbon. R. E. Burk and E. C. Hughes. 2,315,839; Apr. 6.
Catalytic treatment of petroleum hydrocarbons. P. S. Danner and R. C. Mithoff. 2,315,506; Apr. 6.
Cell, Leakproof dry. W. W. Cargill. 2,315,592; Apr. 6.
Cellulose tubing and making the same, Regenerated. P .D. Massoline. 2,315,804; Apr. 6.
Cellulosic material, Treating. E. O. Ridgway. 2,315,545; Apr 6.
Cellulosic materials, Treatment of. C. C. Wilcock and C. P. Tattersfield. 2,316,037; Apr. 6.
Cement composition. H. R. Wilson. 2,316,039; Apr. 6.
Centrifuge basket. C. A. Olcott. 2,315,980; Apr. 6.
Charge former. T. A. St. Clair. 2,315,879; Apr. 6.
Chart, Scale. B. W. King. 2,315,710; Apr. 6.
Chip control mechanism. R. L. Wilcox. 2,315,994; Apr. 6.
Chuck for rotating and advancing tubing or other material. E. F. Tilley. 2,316,117; Apr. 6.
Chucking device, Arbor. A. L. Pizzi and W. R. Quackenbush. 2,315,904; Apr. 6.
Chucking mechanism. R. H. Cramer. 2,315,937; Apr. 6.
Cigarette case. R. N. Lupfer. 2,316,900; Apr. 6.
Circuit: *See*—
  Electrical circuit. Electric valve circuit.
Circuit controller. F. W. Hottenroth, Jr. 2,315,960; Apr. 6.

Circuit interrupter. J. W. Huffstutter. 2,315,618; Apr. 6.
Circuit interrupter. J. M. Wallace. 2,315,678; Apr. 6.
Circuit metering device, Selective. W. W. Parker and H. P. Peters. 2,315,649; Apr. 6.
Circular broaching cutter. W. J. Phaneuf. 2,315,982; Apr. 6.
Clamp: *See*—
  Conductor-insulator clamp. Metal clamp.
Clamp for dental impression trays. B. F. Sahr. 2,315,660; Apr. 6.
Classification method and apparatus. H. L. McNeill. 2,315,536; Apr. 6.
Cleaner: *See*—
  Windshield cleaner.
Cleaning device. W. H. Taylor. 2,315,673; Apr. 6.
Closure. F. Ditchfield. 2,315,692; Apr. 6.
Closure, Dark. F. W. Swormstedt. 2,316,027; Apr. 6.
Coating, Method of. C. J. Malm and G. J. Clarke. 2,315,974; Apr. 6.
Coin operated mailing machine. L. A. Thatcher. 2,315,828; Apr. 6.
Color stabilization of light distillates. A. P. Hewlett. 2,315,957; Apr. 6.
Collapsible frame. D. J. Butts. 2,315,933; Apr. 6.
Combination support. B. Wilson. 2,316,038; Apr. 6.
Communication system. H. J. Nichols. 2,315,727–8; Apr. 6.
Compensating device. E. J. Kuebert and H. F. Penfold. 2,316,004; Apr. 6.
Composite metal strips, Making. J. A. Ritz. 2,315,657; Apr. 6.
Composition of matter and its preparation. F. J. Soday. 2,315,557; Apr. 6.
Compound, Mopping. W. J. Llipfert. 2,315,718; Apr. 6.
Compounds of zirconium, titanium, and hafnium, Preparation of. E. Walner. 2,316,141; Apr. 6.
Concrete construction. J. M. Crom. 2,315,894; Apr. 6.
Concrete construction. J. M. Crom. 2,315,895; Apr. 6.
Concrete construction and making the same, Porous. O. G. Patch. 2,315,732; Apr. 6.
Concrete, Method and apparatus for handling. C. J. White. 2,315,915; Apr. 6.
Condensation products of diaryl ether sulphonic acids with formaldehyde. A. L. Fox and P. O. Bare. 2,315,951; Apr. 6.
Condensation products of 1-aminoaryl-5-pyrazoline-4- sulphonic acid. P. Zervas. 2,315,835; Apr. 6.
Conductor-insulator clamp. D. C. Hubbard. 2,315,961; Apr. 6.
Conduit closure. E. A. Nahm. 2,315,644; Apr. 6.
Connecting means. E. A. Zebulske. 2,315,760; Apr. 6.
Connector: *See*—
  Cable connector.
Connector. O. F. Talliman. 2,315,825; Apr. 6.
Connector plug. C. H. Judisch. 2,316,072; Apr. 6.
Construction unit. E. P. Burke. 2,315,687; Apr. 6.
Container: *See*—
  Egg container. Shipping container.
  Powder container. Two compartment container.
  Self-heating food container.

Container. R. Nyden. 2,315,647–8; Apr. 6.
Container. R. C. Taylor. 2,315,563; Apr. 6.
Container filling device and method. R. V. Burt and N. Macneale. 2,315,932; Apr. 6.
Containers, Machine for and method of filling. D. M. McBean. 2,315,865; Apr. 6.
Control apparatus. J. W. Dawson. 2,315,602; Apr. 6.
Control apparatus. P. Haymond. 2,316,066; Apr. 6.
Control apparatus. J. P. Kriechbaum. 2,316,003; Apr. 6.
Control device. E. H. Ayers. 2,315,918; Apr. 6.
Control device. H. E. Malone. 2,315,533; Apr. 6.
Control system. F. E. Hill and F. G. da Roza. 2,315,958; Apr. 6.
Control system. R. D. Junkins, J. D. Ryder, and J. F. Luhrs. 2,315,527; Apr. 6.
Control system, Anti-knock. H. M. Trimble and R. R. Couch. 2,315,882; Apr. 6.
Control system, Condition. T. K. Greenlee, G. W. Bohn, and C. N. O'Day. 2,315,517; Apr. 6.
Control system and method. T. B. Montgomery. 2,315,869; Apr. 6.
Control system for boiler furnaces, Feed water. C. W. Sengstaken. 2,315,665; Apr. 6.
Control valve. A. C. D'Arcey. 2,315,775; Apr. 6.
Conveyer. G. E. Lamb. 2,315,627; Apr. 6.
Conveyer control. J. C. Owens and R. A. Schomer. 2,316,015; Apr. 6.
Conveyer feeding system. J. W. Stiles. 2,315,880; Apr. 6.
Conveying and delivery mechanism. E. S. Tascher and W. Bazant. 2,315,670; Apr. 6.
Cooling apparatus. F. O. Trump. 2,315,829; Apr. 6.
Copper-base alloy. R. S. Dean and C. T. Anderson. 2,315,507; Apr. 6.
Cordlike products. G. H. Fullerton and T. V. Moss. 2,316,060; Apr. 6.
Core. H. V. Putman. 2,315,654; Apr. 6.
Core mold, Expansible. H. C. McCall. 2,315,634; Apr. 6.
Cores, Taking. B. W. Sewell. 2,316,024; Apr. 6.
Coring apparatus. C. D. Cantrell, Jr. 2,315,590; Apr. 6.
Corrosion, Inhibiting. W. E. Gordon and J. E. Williamson. 2,315,852; Apr. 6.
Cottonseed residue, Treatment of. H. S. Olcott. 2,316,014; Apr. 6.
Couch bed, folding. A. Krakauer. 2,315,969; Apr. 6.
Cover: *See*—
  Toilet cover.
Crane, Luffing. J. W. Deist. 2,315,942; Apr. 6.
Crank case oil filler, Automatic. A. O. James. 2,316,000; Apr. 6.
Cross members to frames, Securing. O. Mueller. 2,315,643; Apr. 6.
Crystallization of sorbitol. R. M. Goepp, Jr. 2,315,699; Apr. 6.
Crystals from solutions, Method of and apparatus for separating. G. B. Ax, K. H. Grunewald, O. A. Wiberg, and E. Öman. 2,315,762; Apr. 6.
Cutter: *See*—
  Circular broaching cutter.
Cyandethyl starch ethers. L. H. Bock and A. L. Houk. 2,316,129; Apr. 6.
Cyanhydrin of formisobutyraldol, Preparation of the. K. Warnat. 2,315,679; Apr. 6.
Deodorizing device. N. A. Glaskowsky. 2,315,697; Apr. 6.
Device for handling incendiary bombs. E. Wilcox. 2,315,831; Apr. 6.
Device for stripping blades, Adjustable. S. Pickens. 2,315,652; Apr. 6.
Device for testing fluids. E. G. Reese. 2,316,019; Apr. 6.
Diaphragm and support. L. R. Willits. 2,315,758; Apr. 6.
Diazine derivatives. G. F. D'Alelio. 2,315,940; Apr. 6.
Diethyl acetate of corticosterone. G. F. Cartland and M. H. Kuizenga. 2,316,142; Apr. 6.
Dishwashing machine. R. W. Wilson. 2,315,572; Apr. 6.
Dispensing apparatus. H. V. Gibson and E. E. Casey. 2,315,515; Apr. 6.
Dispensing device, Detergent. G. M. Bader. 2,315,890; Apr. 6.
Display box. C. B. Holm. 2,315,999; Apr. 6.
Display rack. A. Chappory. 2,315,595; Apr. 6.
Display stand. H. Harrison. 2,315,617; Apr. 6.
Door: *See*—
  Car door.
  Electrically operated garage door.
Doorway closure. C. R. Goudie. 2,315,953; Apr. 6.
Drive chuck, Positive. M. P. Hubbell. 2,315,524; Apr. 6.
Drive, Multispeed. H. W. Cardwell. 2,316,131; Apr. 6.
Driving means for the slides of machine tools. O. E. Rosen. 2,316,106; Apr. 6.
Dye intermediate and preparation, Polymethine. L. G. S. Brooker and G. H. Keyes. 2,315,498; Apr. 6.
Dyestuffs, Benzacridonyl anthraquinone. A. Miller. 2,315,537; Apr. 6.
Dyestuffs and their manufacture, Arylamino anthraquinone. E. Gutzwiller. 2,315,788; Apr. 6.
Edge roll for mattresses. P. Krakauer. 2,315,968; Apr. 6.
Egg container. H. M. Kieckhefer. 2,315,624; Apr. 6.
Electric cable. S. J. Rosch. 2,315,736; Apr. 6.
Electric circuit breaker. C. Thumim. 2,315,991; Apr. 6.
Electric circuit interrupting device. F. Weil. 2,316,036; Apr. 6.
Electric control circuits. L. C. Ludbrook. 2,316,008; Apr. 6.
Electric control system and apparatus. G. Bellows, Jr. 2,315,923; Apr. 6.
Electric drive. E. F. W. Alexanderson. 2,315,489–91; Apr. 6.
Electric motor for deep well pumps, Submergible. A. Arutunoff. 2,315,917; Apr. 6.
Electric valve circuit. M. E. Bivens. 2,315,926; Apr. 6.
Electric washing machine. B. A. Benson. 2,315,684; Apr. 6.
Electric welding system. A. L. Whiteley and B. G. Higgins. 2,315,916; Apr. 6.
Electric circuit. E. D. Goodale. 2,315,784; Apr. 7.
Electrical connecting device. R. F. Mallina and H. O. Siegmund. 2,315,720; Apr. 6.
Electrical connection box. B. E. Stewart. 2,315,746; Apr. 6.
Electrical fence charging apparatus. F. E. Wenger. 2,315,757; Apr. 6.
Electrical instrument. W. M. Bradshaw. 2,315,587; Apr. 6.
Electrical measuring device. T. D. Barnes. 2,315,579; Apr. 6.
Electrical receptacle. H. Hubbell. 2,315,523; Apr. 6.
Electrical rectifier. J. D. McCluer. 2,315,867; Apr. 6.
Electrical system. R. D. Evans and A. C. Monteith. 2,315,606; Apr. 6.
Electrically operated garage door. R. M. Wilder. 2,315,571; Apr. 6.
Electron camera. H. E. Ives. 2,315,621; Apr. 6.
Electronic apparatus. R. R. Blair. 2,316,044; Apr. 6.
Electronic tube. W. W. Eitel and J. A. McCullough. 2,315,510; Apr. 6.
Emulsion, Photographic. E. B. Knott. 2,315,966; Apr. 6.
End fitting for street lights. A. A. Hocher. 2,316,069; Apr. 6.
Engine: *See*—
  Internal combustion engine.
Engine. Z. D. Ruben. 2,316,107; Apr. 6.
Engine starting mechanism. R. M. Nardone. 2,316,121–2; Apr. 6.

Engraving, Process of. J. J. Ormond. 2,315,903; Apr. 6.
Enolesters of the saturated and unsaturated pregnane-20-ones and conversion of acetylene derivatives. L. Ruzicka. 2,315,817; Apr. 6.
Entrained particles from vapors, Removal of. J. W. Packie. 2,316,016; Apr. 6.
Exerciser, Vascular. P. L. Ginsburg. 2,315,997; Apr. 6.
Exercising device. E. Le R. Jones III. 2,315,485; Apr. 6.
Exhibiting means, Merchandise. N. A. Hallwood. 2,315,790; Apr. 6.
Eyeglass. R. F. Metzger. 2,316,096; Apr. 6.
Fabric drying and shaping apparatus and method. F. Y. Kitzmiller. 2,316,001; Apr. 6.
Fabric treatment. C. M. Croft. 2,315,600; Apr. 6.
Fastener: *See*—
Slide fastener.
Fatty acids, Purifying. W. L. Semon. 2,315,664; Apr. 6.
Feeder for can bodymaker, Blank. L. R. McCann. 2,315,535; Apr. 6.
Feeding device, Chlorine. R. B. Emerson. 2,315,512; Apr. 6.
Fertilizing by cartridges. A. C. Fischer. 2,315,949; Apr. 6.
File. H. Tubbs. 2,315,749; Apr. 6.
Filler strip. W. E. Sackner. 2,315,818; Apr. 6.
Filling machine. D. M. McBean. 2,315,866; Apr. 6.
Film gate for projectors. R. W. Wengel. 2,315,914; Apr. 6.
Filter. E. C. Weisgerber. 2,315,681; Apr. 6.
Filter mount for photographic cameras. H. T. Olson. 2,315,981; Apr. 6.
Fish lure. A. S. Clarke. 2,316,048; Apr. 6.
Fishing fly or lure, Detachable. G. R. Austad. 2,315,575; Apr. 6.
Fishing rod. V. B. Nelson. 2,315,539; Apr. 6.
Fitting, Replaceable. C. W. Hansell. 2,315,897; Apr. 6.
Fluid brake. V. F. Lucht. 2,315,531; Apr. 6.
Fluid meter. F. V. Mayo and W. H. Misson. 2,315,805; Apr. 6.
Folder, Bill. H. M. Herbener. 2,315,702; Apr. 6.
Folding and feeding stitching device, Combination. B. Furer. 2,316,061; Apr. 6.
Folding hoist, Portable. P. Richards. 2,315,873; Apr. 6.
Frame: *See*—
Collapsible frame.
Frequency control. H. O. Peterson. 2,316,017; Apr. 6.
Fruit compositions and preservation. W. R. Johnston, W. E. Stokes, M. H. Kennedy, and C. N. Frey. 2,315,858; Apr. 6.
Fuel, Motor. P. Miller. 2,316,012; Apr. 6.
Fuel supply control means. W. E. Leibing. 2,315,715; Apr. 6.
Fuel system and combination carburetor, Higher vapor pressure. R. W. Thomas. 2,315,881; Apr. 6.
Fuels for internal combustion engines. P. Miller and G. H. Cloud. 2,316,011; Apr. 6.
Furnace: *See*—
Hot-air furnace.
Game apparatus. C. M. Peshal. 2,315,872; Apr. 6.
Garment. E. C. Lindfelt. 2,315,972; Apr. 6.
Garment, Lady's suspender. M. N. Burke. 2,315,930; Apr. 6.
Garment pressing machine. W. A. Hoch. 2,315,704; Apr. 6.
Garment, Supporting. M. S. Strait. 2,315,561; Apr. 6.
Gas distribution systems, Treatment in. J. R. Skeen. 2,315,550–4; Apr. 6.
Gas distribution systems, Treatment of. J. R. Skeen. 2,315,555; Apr. 6.
Gas distribution systems, Treatment of. J. R. Skeen. 2,316,140; Apr. 6.
Gas and oil burner. J. M. Ryan. 2,315,547; Apr. 6.
Gas purger, Noncondensable. L. P. Reiss. 2,316,104; Apr. 6.
Gaseous mixture regulator. J. B. Stanford. 2,315,906; Apr. 6.
Gauge: *See*—
Pirani gauge.
Pressure gauge.
Generator regulator. E. I. Shobert, II. 2,315,821; Apr. 6.
Getter for vacuum tubes. A. J. King. 2,316,127; Apr. 6.
Girdle or like garment. H. M. Herbener. 2,315,701; Apr. 6.
Glass, Safety night light. C. Lipari. 2,315,803; Apr. 6.
Glove. C. G. Wells. 2,315,888; Apr. 6.
Governor. S. M. Udale. 2,315,912; Apr. 6.
Grading machine. A. G. B. Metcalf. 2,315,868; Apr. 6.
Grenade gun. S. D. Long. 2,315,753; Apr. 6.
Grinding mill. J. J. Wallace. 2,316,032; Apr. 6.
Guard, Folding walking and skating. A. Nelson. 2,316,100; Apr. 6.
Guide and or climb control, Automatic. C. J. Crane, G. V. Holloman, and R. K. Stout. 2,315,501; Apr. 6.
Guide, Sash-cord. A. G. Krocker. 2,315,970; Apr. 6.
Gyro vertical. L. F. Carter. 2,315,500; Apr. 6.
Hammered metal, Simulating. G. E. Armentrout. 2,316,041; Apr. 6.
Hanger. J. O. Reed. 2,316,103; Apr. 6.
Harness, Loom. J. J. Kaufmann. 2,315,796; Apr. 6.
Hat blocking apparatus. E. Cairns. 2,316,047; Apr. 6.
Head, Sprinkler. F. and G. Ferrando. 2,315,844; Apr. 6.
Heat exchanger. A. Y. Gunter. 2,316,063; Apr. 6.
Heater: *See*—
Automobile heater.
Heating apparatus. E. B. Moss and V. J. S. Russell. 2,316,098; Apr. 6.
Heating system. F. N. Osterkorn. 2,315,541; Apr. 6.
Heel-seat fitting machine. L. G. Miller. 2,315,638; Apr. 6.
Hinge construction. R. E. Lave. 2,315,801; Apr. 6.
Hinge construction and making same. G. W. Aldeen. 2,315,488; Apr. 6.
Hoisting apparatus. R. C. Lamond. 2,315,628; Apr. 6.
Holder: *See*—
Label holder.
Welding electrode holder.
Holder for eggs or the like. J. L. Coyle. 2,316,050; Apr. 6.
Honing. Method of and apparatus for. A. M. Johnson. 2,315,794; Apr. 6.
Hot-air furnace. R. Moyle. 2,315,809; Apr. 6.
Hydraulic drive for wheels. J. C. Monahan. 2,315,639; Apr. 6.
Hydrocarbon distillates, Treatment of cracked. W. J. Ryan and M. T. Kendall. 2,315,738; Apr. 6.
Hydrocarbons, Treatment of. W. A. Schulze. A. A. Rnoho, and G. H. Short. 2,315,662–3; Apr. 6.
Hydroxy-diaryl substituted ethane, Producing. F. J. Soday. 2,315,556; Apr. 6.
Implement, Draftsman's. E. Chapin. 2,315,893; Apr. 6.
Impressions of cavities for dental inlays, Method and apparatus for taking. M. J. Thompson. 2,315,748; Apr. 6.
Impulse repeater. K. W. Pfleger. 2,315,733; Apr. 6.
Incandescent electric lamp. G. C. Singer. 2,315,549; Apr. 6.
Indicator: *See*—
Air speed and similar indicator.
Indicator for cameras, Depth of field. J. Mihalyi. 2,315,977; Apr. 6.
Inductive heating, Controlling. F. S. Denneen and W. C. Dunn. 2,315,508; Apr. 6.
Insecticide and method of using. W. A. Knapp. 2,315,965; Apr. 6.
Insects, Exterminating. C. H. Closs. 2,315,772; Apr. 6.
Insole taping machine. F. L. Ayers. 2,315,493; Apr. 6.
Isomerization of dihydrobenzenes. N. Turnbull. 2,316,136; Apr. 6.
Instrument, Orthoptic. LeR. Wottring. 2,316,139; Apr. 6.
Insulating bushing. W. H. Jacobi. 2,315,623; Apr. 6.
Insulating covering. G. B. Brown and P. D. Cannon. 2,315,837; Apr. 6.
Insulating covering. A. D. MacNutt. 2,316,093; Apr. 6.
Insulator, Lead-in. P. E. Anderson and J. J. Yolles, Jack Yolles, Jacob Yolles. 2,315,492; Apr. 6.
Intermittent flow valve. W. S. White. 2,315,570; Apr. 6.
Internal combustion engine. A. M. Starr. 2,315,907; Apr. 6.
Internally stressed structure. H. E. Somes. 2,316,110; Apr. 6.
Jarring tool. G. N. Stafford. 2,315,905; Apr. 6.
Key assembling machine. W. D. Jordan. 2,315,526; Apr. 6.
Knife. J. E. Krilow. 2,315,898; Apr. 6.
Label holder. P. Bescherer. 2,315,925; Apr. 6.
Lacing equipment. F. W. Preston. 2,316,102; Apr. 6.
Lamp: *See*—
Incandescent electric lamp.
Miniature incandescent lamp.
Lapping machine. H. S. Indge. 2,315,859; Apr. 6.
Lapping machine. G. F. Johnson. 2,316,071; Apr. 6.
Laundry bag. W. E. Stephenson. 2,315,909; Apr. 6.
Latch: *See*—
Vehicle door latch.
Lighting equipment. V. L. Vendope. 2,315,884; Apr. 6.
Limb, Artificial. C. B. Johnson and R. B. Trautman. 2,315,795; Apr. 6.
Liner hanger apparatus. C. E. Burt, T. Sutter, and T. M. Ragan. 2,315,931; Apr. 6.
Linoleumlike products. F. J. Myers. 2,316,099; Apr. 6.
Liquids, Degassing. H. E. Drennan, W. G. Hiatt and W. H. Creel. 2,315,843; Apr. 6.
Liquid or suspension, Heavy. A. Pearson. 2,315,650; Apr. 6.
Lock: *See*—
Automobile wheel lock.
Locking device. E. H. McCloud. 2,315,722; Apr. 6.
Locking piece, Turbine blade. J. R. Hall. 2,315,616; Apr. 6.
Log, Air. E. V. Rippingille. 2,316,021; Apr. 6.
Loose-leaf binder. P. O. Unger. 2,316,118; Apr. 6.
Lubricant. J. A. Anderson. 2,316,089; Apr. 6.
Lubricant. J. W. Gaynor and C. M. Loane. 2,316,087; Apr. 6.
Lubricant. C. D. Kelso and L. W. Mixon. 2,316,085; Apr. 6.
Lubricant. C. D. Kelso and L. W. Mixon. 2,316,090; Apr. 6.
Lubricant. C. M. Loane and J. W. Gaynor. 2,316,078–9; Apr. 6.
Lubricant. C. M. Loane and J. W. Gaynor. 2,316,080–2; Apr. 6.

Lubricant. C. M. Loane, J. W. Gaynor and L. W. Mixon. 2,316,083–4; Apr. 6.
Lubricant. C. M. Loane and J. W. Gaynor. 2,316,088; Apr. 6.
Lubricant. F. H. McLaren. 2,316,086; Apr. 6.
Lubricant. C. N. White. 2,316,091; Apr. 6.
Lubricating system. B. E. Folke. 2,315,778; Apr. 6.
Machine element. T. H. Thompson. 2,316,114; Apr. 6.
Machine for bending pipes and the like. R. Connor. 2,316,049; Apr. 6.
Machine for holding and dispensing drinking cups. L. R. Tansley. 2,315,827; Apr. 6.
Machine and method for performing successive operations on materials. W. F. Newhouse. 2,315,540; Apr. 6.
Machine for operating upon work. A. R. Schoenky. 2,315,548; Apr. 6.
Machine for stretching metals. N. C. Lake. 2,315,971; Apr. 6.
Machine for the assembling of freshly prepared food. F. H. Russell. 2,315,659; Apr. 6.
Machine tool. R. L. Kuehn. 2,315,899; Apr. 6.
Machine tool. W. J. Snyder. 2,315,877; Apr. 6.
Magneto construction. E. B. Nowosielski. 2,315,902; Apr. 6.
Marking device, Fountain type. J. W. Wirfel. 2,316,040; Apr. 6.
Mass centering machine. F. W. Haeger. 2,315,998; Apr. 6.
Matrix element for making light transimitting screens. O. C. Martin. 2,315,721; Apr. 6.
Measuring apparatus. H. S. Jones. 2,315,714; Apr. 6.
Measuring instrument. E. C. Wiegmann, W. G. Trumbower, and C. B. Moore. 2,315,682; Apr. 6.
Metal alloys, Casting of. C. S. Sivil, E. O. Liebig and R. St. C. Low. 2,315,876; Apr. 6.
Metal article and producing the same, Protected. J. M. Schoonmaker, Jr., and F. Stockton. 2,315,740; Apr. 6.
Metal clamp. F. A. Kellogg. 2,316,073; Apr. 6.
Metal shapes, Formation of. C. D. Coxe. 2,316,144; Apr. 6.
Metal surfaces, Polishing. C. L. Faust. 2,315,696; Apr. 6.
Metalization, especially aluminization of iron articles. G. A. Moller. 2,315,725; Apr. 6.
Metals, Polishing. C. L. Faust. 2,315,695; Apr. 6.
Meter: *See*—
Fluid meter.
Method and apparatus for foam determination. J. Ross and G. de Wayne Miles. 2,315,983; Apr. 6.
Method and apparatus for reproducing the surface contour of patterns in plastics. M. W. Peebles, J. C. and J. M. Waite. 2,316,143; Apr. 6.
Method of preparing cellulose for esterification. C. J. Malm. 2,315,973; Apr. 6.
Milking apparatus, Cow. C. H. Hapgood. 2,316,065; Apr. 6.
Mill: *See*—
Grinding mill.
Mineral wool, Method of and apparatus for blowing. C. D. Richardson. 2,315,735; Apr. 6.
Miniature incandescent lamp. L. W. Curtis. 2,315,504; Apr. 6.
Minimizing breakage of glass during the production of surfaced continuous strips of glass. F. D. Waldron and J. H. Griffin. 2,315,885; Apr. 6.
Mitten. C. G. Wells. 2,315,889; Apr. 6.
Mixer: *See*—
Truck mixer.
Modulation system. C. F. Sheaffer. 2,316,123; Apr. 6.
Moisture removing device for air compressor systems. M. Dach. 2,316,052; Apr. 6.
Molasses, Color-stable. C. J. Krister. 2,315,626; Apr. 6.
Mold: *See*—
Recapping and retreading mold.
Molded article. H. C. Guhl. 2,315,615; Apr. 6.
Molded article, binder, and process of manufacturing the same. F. J. Johnson. 2,315,713; Apr. 6.
Molding. F. J. Westrope. 2,316,035; Apr. 6.
Monohalides, Treating. G. G. Oberfell and F. E. Frey. 2,315,871; Apr. 6.
Motor: *See*—
Rotary pump or motor.
Motor control. H. C. Blodgett. 2,315,582; Apr. 6.
Motor control for projectors. D. L. Babcock. 2,315,919; Apr. 6.
Mounting: *See*—
Propeller blade mounting.
Multiplying and dividing machine with result checking device therefor, Combined. J. W. Bryce. 2,315,686; Apr. 6.
Musical educational device. B. F. Jay. 2,315,793; Apr. 6.
Necktie knot protector. O. G. Koivisto. 2,316,002; Apr. 6.
Negative resistance device. W. van B. Roberts. 2,315,658; Apr. 6.
Nested serving device. A. R. Fergusson. 2,315,608; Apr. 6.
Network distribution system. M. A. Bostwick. 2,315,585; Apr. 6.
Neutralizer, Ground fault. F. D. Fielder. 2,315,609; Apr. 6.
Nickel-base alloy. J. H. Brennan. 2,315,497; Apr. 6.
Nitrile compounds, Manufacture of. W. Salzer and H. Andersag. 2,315,661; Apr. 6.
N-monomethyl-p-aminophenol, Preparation of. F. R. Bean. 2,315,922; Apr. 6.
Nonskid attachment for shoes. S. L. Gingo. 2,316,062; Apr. 6.
Nut cracking mechanism. F. E. Smith. 2,316,025; Apr. 6.
Oil, Recovery of sorbed. F. B. Lachle. 2,316,005; Apr. 6.
Oil, Stabilizing heavy fuel. W. C. Child. 2,315,935; Apr. 6.
Oil, Sweetening sour hydrocarbon. W. A. Schulze and A. E. Buell. 2,315,820; Apr. 6.
Oils of the coumarone-indene-styrene homologue type, Treatment of resin. E. L. Cline. 2,315,771; Apr. 6.
Oils, Sweetening. V. J. Loyd. 2,315,530; Apr. 6.
Oils, Treating. V. J. Loyd. 2,316,092; Apr. 6.
Operating structures, Exploring. C. H. Schlesman. 2,315,819; Apr. 6.
Organic sulphinic acids, Preparation of. A. L. Fox. 2,315,514; Apr. 6.
Oscillograph, Cathode-ray. W. A. Goehegan. 2,315,848; Apr. 6.
Package having means for attaching matches thereto, Cigarette. H. H. Johnson. 2,315,964; Apr. 6.
Packing ring or bearing element. E. A. Koether. 2,315,798; Apr. 6.
Panel furnace construction. M. P. Youker and W. H. Creel. 2,315,833; Apr. 6.
Paper and board, Manufacturing. L. M. Booth. 2,315,892; Apr. 6.
Paper dish and base therefor. H. Carew. 2,315,591; Apr. 6.
Paper feeding device. R. E. Paris. 2,315,731; Apr. 6.
Paper, Sizing of. E. Trommsdorff. 2,315,675; Apr. 6.
Papers, Decalcomania. J. MacLaurin. 2,316,120; Apr. 6.
Paraffin-olefine mixtures, Production of. A. Cantzler and H. Krekeler. 2,315,499; Apr. 6.
Parking garage system. H. E. Warren. 2,316,034; Apr. 6.
Path-making device. H. F. Sieg. 2,315,743; Apr. 6.
Pattern mechanism for looms. J. O. Lee and A. C. Campfield. 2,315,863; Apr. 6.
Percussion tool. C. S. Weyandt and E. J. Missien. 2,315,993; Apr. 6.
Perforating apparatus. C. O. Davis and W. S. Pilcher. 2,316,054; Apr. 6.
Perforating machine. A. H. Dickinson. 2,315,691; Apr. 6.
Perforator for wells. A. Boynton. 2,315,496; Apr. 6.
Perimeter target, Adjustable. R. J. Beitel, Jr. 2,316,042; Apr. 6.
Phenanthrene compound and making the same, Hydrogenated. E. Dane. 2,315,505; Apr. 6.
Phosphorus sulphide-hydrocarbon reaction product. C. D. Kelso. 2,315,529; Apr. 6.
Photoelectric phonograph. M. L. and E. O. Thompson. 2,316,113; Apr. 6.
Photographic cut film holder and identifying stencil or tab therefor. B. L. Smith. 2,315,987; Apr. 6.
Photographic timing device. W. P. Moorefield. 2,315,978; Apr. 6.
Photography, Color. O. C. Gilmore. 2,315,783; Apr. 6.
Phytyl bromide, Manufacture of. R. Behnisch. 2,315,580; Apr. 6.
Piano-vibraphone. G. A. O'Connell and C. M. Larson. 2,315,812; Apr. 6.
Pigments, Treatment of. E. Billings and H. H. Offutt. 2,316,043; Apr. 6.
Pipe thread protector. T. Mulholland. 2,316,013; Apr. 6.
Pipe wrench. L. C. Mead. 2,315,807; Apr. 6.
Pirani gauge, Sensitivity of the. G. L. Tawney. 2,315,671; Apr. 6.
Pistons, Sealing. B. Dick. 2,315,944; Apr. 6.
Plant life to frost damage, Increasing the resistance of. Q. E. Bashore. 2,315,764; Apr. 6.
Planter. C. H. White. 2,315,752; Apr. 6.
Plating, Nickel. R. Lind, W. J. Harshaw, and K. E. Long. 2,315,802; Apr. 6.
Plowshare. L. Mohr. 2,316,097; Apr. 6.
Plug: *See*—
Connector plug.
Pneumatic and hydraulic water closet, Combined. A. O. Sweeny. 2,315,824; Apr. 6.
Pocket facing protector. J. T. Isbell. 2,315,620; Apr. 6.
Pocket for clothing. S. J. and Z. Reidbord. 2,315,814; Apr. 6.
Polyester resins from phthalic anhydride pentaerythritol and soya bean oil. A. G. Hovey, T. S. Hodgins and C. J. Meeske. 2,315,708; Apr. 6.
Poly-hexahydro-hydroquinone sebacate. C. J. Frosch. 2,315,613; Apr. 6.
Portable window stand. G. E. Swango. 2,315,668; Apr. 6.
Powder container. J. W. McCarthy and H. C. Holly. 2,315,635; Apr. 6.
Power take-off. C. I. Bohmer and C. Gerst. 2,316,130; Apr. 6.
Power transmission. S. H. Brooks. 2,315,589; Apr. 6.

Power transmission system. C. A. H. Mulder. 2,315,486; Apr. 6.
Preserver, Life. J. Norred. 2,316,101; Apr. 6.
Press: *See*—
Screen printing press. Sleeve press.
Pressing and shaping machine, Shoe upper. J. F. Smith. 2,316,125; Apr. 6.
Pressure applying apparatus. J. S. Rodgers. 2,315,816; Apr. 6.
Pressure gauge. G. L. Tawney and W. A. Johnson. 2,315,672; Apr. 6.
Pressure pumping system, Dual. R. Rhoda. 2,315,656; Apr. 6.
Preventing rubber objects from sticking together and improving the quality and durability of raw rubber in a divided state. S. H. Bertram. 2,315,924; Apr. 6.
Printing roll and core support, Combination. B. L. Nunnally. 2,315,729; Apr. 6.
Projector, Motion picture. W. H. Hirschfeld. 2,315,703; Apr. 6.
Propeller blade mounting. J. E. Anderson. 2,315,574; Apr. 6.
Propeller hub and rudder post construction. E. V. Rippingille. 2,316,022; Apr. 6.
Protective control system. G. E. King. 2,315,625; Apr. 6.
Protector: *See*—
Necktie knot protector. Pocket facing protector.
Pipe thread protector.
Pump: *See*—
Vacuum condensation pump. Well pump.
Rack: *See*—
Display rack. Towel rack.
Rack and pinion for excavating shovel handles. T. G. Gerow. 2,315,781; Apr. 6.
Radio navigator. L. A. Warner. 2,315,754–5; Apr. 6.
Radio speaker unit support. E. O. Dumas. 2,315,896; Apr. 6.
Railway traffic controlling apparatus. L. V. Lewis. 2,315,864; Apr. 6.
Railway traffic controlling apparatus. H. A. Wallace. 2,315,677; Apr. 6.
Railway traffic controlling apparatus. H. A. Wallace. 2,315,886–7; Apr. 6.
Razor, Safety. N. Testi. 2,315,990; Apr. 6.
Reaction vessel. W. E. Hulsberg. 2,315,525; Apr. 6.
Recapping and retreading mold. A. B. Cleveland. 2,315,770; Apr. 6.
Receptacle: *See*—
Electrical receptacle.
Record controlled machine. A. W. Mills, F. J. Furman, and E. J. Rabenda. 2,315,723; Apr. 6.
Recording device. C. Ross. 2,315,737; Apr. 6.
Rectangular lumber, Cutting. E. P. Stam. 2,316,111; Apr. 6.
Rectifying fluid-mixtures, Method and apparatus for. W. L. De Baufre. 2,316,056; Apr. 6.
Refining process. E. E. Stahly. 2,316,026; Apr. 6.
Refrigerating apparatus. A. R. Burnette. 2,315,768; Apr. 6.
Refrigerating apparatus. N. J. Smith. 2,315,667; Apr. 6.
Refrigerator and aerator, Combination. G. R. Duncan. 2,315,603; Apr. 6.
Regulator: *See*—
Gaseous mixture regulator. Temperature regulator.
Generator regulator. Voltage regulator.
Reinforced concrete floors, Making. F. Heath. 2,315,956; Apr. 6.
Resins, Molding composite. W. S. Crowell and G. W. Birch. 2,315,503; Apr. 6.
Reversing switch. H. C. Blodgett. 2,315,583; Apr. 6.
Rewind film carrier, Automatic. A. Gruenhut. 2,315,954; Apr. 6.
Road sign. R. W. Stacey and T. M. Blomquist. 2,315,878; Apr. 6.
Rod: *See*—
Fishing rod. Silicon brass rod
Rollers, Making. H. J. Thielker. 2,315,910; Apr. 6.
Rolling mills, Threading. C. N. Hickman. 2,316,067; Apr. 6.
Rotary pump or motor. T. H. Thompson. 2,316,115; Apr. 6.
Rubber articles, Sealing of seamed. J. M. Auzin. 2,315,576; Apr. 6.
Rubber, Manufacture of. R. H. Gerke. 2,315,849–50; Apr. 6.
Rubber, Manufacture of. L. H. Howland. 2,315,855–7; Apr. 6.
Saddle and saddle construction. E. Steele. 2,315,487; Apr. 6.
Safety device for handling explosives. F. H. La Guardia, T. W. Rochester, H. W. Barron, and J. T. Gibala. 2,315,799; Apr. 6.
Salts of organic sulphonic or carboxylic acids, Isoalkylamine. F. Nadler, R. Wegler, and O. Bayer. 2,315,870; Apr. 6.
Scale, Automatic dial. H. A. Hadley. 2,315,789; Apr. 6.
Scraper, Wall core. F. L. Le Bus. 2,315,629; Apr. 6.
Screen: *See*—
Adjustable screen.
Screen printing press. R. Orthwine. 2,315,730; Apr. 6.
Seal for washing machines or the like. E. A. Ebert. 2,315,604; Apr. 6.
Seal means for tube valves. P. A. Kinzie. 2,315,797; Apr. 6.
Sealing device. W. C. Childress. 2,315,596; Apr. 6.
Sealing means. N. F. Fretter. 2,316,059; Apr. 6.
Seat construction, Spring. H. H. Hiatt and O. L. Kramer. 2,315,791; Apr. 6.
Self-heating food container. L. Katz. 2,315,528; Apr. 6.
Separating cineoles from hydrocarbons, Method of. P. H. Scrutchfield. 2,315,986; Apr. 6.
Separating machine. F. H. Jacobson. 2,315,712; Apr. 6.
Shaving device, Safety. W. H. Greenleaf. 2,315,785; Apr. 6.
Sheet feeding apparatus. A. Novick. 2,315,646; Apr. 6.
Sheet metal and apparatus therefor, Rolling. E. A. Nelson. 2,315,810; Apr. 6.
Shelter attachment for motor vehicles. C. P. Ward. 2,315,680; Apr. 6.
Shield. P. H. Davey. 2,316,055; Apr. 6.
Shield, Termite. A. A. Tennison and J. D. Tennison. 2,315,989; Apr. 6.
Shipping container. L. V. Lucia and E. W. Horndahl. 2,315,532; Apr. 6.
Shoe, Golf. I. Sabel and L. S. Macdonald. 2,315,874; Apr. 6.
Shoe innersoles, Making. F. L. Ayers. 2,315,494; Apr. 6.
Shoe and outsole therefor. C. L. Wilpan. 2,315,759; Apr. 6.
Shoes, Making stitchdown. Frank J. Braga. 2,316,045; Apr. 6.
Shower head. J. R. Turek and C. Bolling. 2,316,135; Apr. 6.
Shrinking machine. A. E. Ushakoff. 2,315,676; Apr. 8.
Shunt for electric blasting caps. R. B. Smith. 2,315,823; Apr. 16.
Shut-off device for gas valves, Safety. J. H. Horstmann. 2,315,959; Apr. 6.
Shutter, Automatic. W. A. Riddell. 2,316,020; Apr. 6.
Shutter release for folding cameras. L. W. Lessler. 2,316,006; Apr. 6.
Sign: *See*—
Road sign.
Signaling system, Secret. E. Y. Webb, Jr. 2,315,567; Apr. 6.
Silicon brass rod. F. H. Hehemann. 2,315,700; Apr. 6.
Slat, Venetian blind. L. S. Morse and C. W. Morse. 2,315,640; Apr. 6.
Sleeve press. E. Davis. 2,315,690; Apr. 6.
Slicer, Bread. A. H. Ahrndt. 2,315,761; Apr. 6.
Slicing machine. A. A. Kottmann and E. C. Vollmer. 2,315,711; Apr. 6.
Slicing machine, Bread. M. Brustowsky. 2,315,767; Apr. 6.
Slide fastener. L. W. Schaaff. 2,316,133; Apr. 6.
Solutizer process for the removal of mercaptans. L. E. Border. 2,315,766; Apr. 6.
Speed drive, Adjustable. R. S. Elberty, Jr. 2,315,511; Apr. 6.
Spool. G. G. Tucker, Jr. 2,316,028; Apr. 6.
Sprayer, Powder. H. J. Berenson. 2,315,581; Apr. 6.
Spring construction. H. Hopkes. 2,315,706; Apr. 6.
Spring structure. J. Pilliero and N. Goldberg. 2,315,543; Apr. 6.
Sprinkler, Lawn. E. M. Truedson. 2,315,911; Apr. 6.
Stanchions for protective railings, Removable. M. Gray. 2,315,516; Apr. 6.
Stand: *See*—
Display stand. Portable window stand.
Staple fibers from viscose, Producing high strength and crimped. J. J. Stoeckly and W. Linnhoff. 2,315,560; Apr. 6.
Static fuse testing machine. M. Sekella. 2,316,134; Apr. 6.
Stay strip. J. Goldman. 2,315,851; Apr. 6.
Steel article, Coating and fabricating. J. S. Thompson and E. W. Goodspeed. 2,315,564; Apr. 6.
Steel surfaces, Cleaning. C. J. Wernlund. 2,315,568; Apr. 6.
Sterilizer, Nipple. D. C. Futrell. 2,316,145; Apr. 6.
Stick, Course. C. G. D'Amato. 2,315,941; Apr. 6.
Stock handling mechanism for automatic lathes. C. E. Miller. 2,316,010; Apr. 6.
Stopper, Bottle. A. Moeller. 2,315,538; Apr. 6.
Straight bar knitting machine. A. F. Verbeek. 2,316,030; Apr. 6.
Strainer, Paint. A. Dariano. 2,315,842; Apr. 6.
Strands, Coating. E. E. Newton, C. A. Peachey, and F. R. Reevely. 2,315,645; Apr. 6.
Strap, Lug. H. M. Bacon. 2,315,763; Apr. 6.
Subaqueous end-welding device. J. D. Crecca and A. G. Bissell. 2,315,502; Apr. 6.
Sulphuric acid for the removal of nitrogen oxides, Treatment of. N. C. Somers, and W. C. Woodings, Jr. 2,315,988; Apr. 6.
Support: *See*—
Combination support. Radio speaker unit support.
Diaphragm and support. Tube casing and support.
Printing roll and core support.
Supporting bracket for valves. W. H. Sale. 2,315,739; Apr. 6.

Supporting means, Trousers. W. Gluckmann. 2,315,698; Apr. 6.
Switch: *See*—
Reversing switch.
Switch for alternating and direct current, Impulse operated selector. E. G. Baker and T. Obszarny. 2,315,920; Apr. 16.
Syringe, Vaccinating. J. H. Mead, Jr. 2,316,095; Apr. 6.
Table cabinet. W. H. Ledbetter and I. Ledbetter. 2,315,862; Apr. 6.
Tall-oil, refining. J. N. Borglin. 2,315,584; Apr. 6.
Tank. W. G. Thompson and B. M. Kerr. 2,316,116; Apr. 6.
Taper mechanism. F. A. Fritzsch. 2,315,846; Apr. 6.
Taximeter, Dashplate compartment. H. W. White. 2,315,569; Apr. 6.
Temperature controller, Fluid. J. M. King. 2,316,075; Apr. 6.
Temperature regulator. L. Satchwell. 2,315,984; Apr. 6.
Tensioning device for yarn, thread, or the like. A. G. Vogt. 2,316,031; Apr. 6.
Testing and selecting system. W. H. T. Holden and L. G. Schimpf. 2,315,705; Apr. 6.
Testing subterranean strata for liquid and gaseous content. L. A. Douglas. 2,315,694; Apr. 6.
Textile material. A. Doser, O. Bayer and K. Hintzmann. 2,316,057; Apr. 6.
Thermometer. G. E. Ford. 2,315,779; Apr. 6.
Tire removing tool. H. J. Sauer. 2,316,023; Apr. 6.
Tire vulcanizing equipment. P. O. Chambers. 2,315,934; Apr. 6.
Toilet article. I. Wexler. 2,316,138; Apr. 6.
Toilet cover, Sanitary. L. L. Roeder. 2,316,105; Apr. 6.
Toluene, Producing. R. D. Geckler and N. Fragen. 2,316,126; Apr. 6.
Tool: *See*—
Jarring tool. Percussion tool.
Machine tool. Tire removing tool.
Tool. Y. A. Bouget. 2,315,586; Apr. 6.
Loading device, Top roll. L. D. Cobb. 2,315,936; Apr. 6.
Top seal for pavement joints. A. E. Brickman. 2,315,588; Apr. 6.
Torque wrench. C. W. Hart. 2,315,521; Apr. 6.
Totalizer for rolling mills. S. B. Terry and R. S. Fox. 2,315,747; Apr. 6.
Totalizer, Off-gauge. E. B. Hudson. 2,315,709; Apr. 6.
Towel rack. H. J. Watral and J. Helenek. 2,315,566; Apr. 6.
Track element for aircraft and land vehicles, Endless. O. F. Maclaren. 2,315,901; Apr. 6.
Traction wheel. J. R. Uddenborg. 2,315,883; Apr. 6.
Transformer bushing. A. A. Skvortzoff. 2,315,666; Apr. 6.
Transmission, Preselective. K. Miller. 2,315,808; Apr. 6.
Treating hydrocarbons. W. A. Schulze and L. C. Morris. 2,315,875; Apr. 6.
Treatment of crankcase oil. J. A. Lautrette. 2,315,861; Apr. 6.
Treatment of sludge. H. Bach. 2,315,577; Apr. 6.
Triazine derivatives. G. F. D'Alelio. 2,315,939; Apr. 6.
Trolley plow, Safety. R. Hans. 2,316,064; Apr. 6.
Truck. T. V. Buckwalter. 2,316,046; Apr. 6.
Truck mixer. G. A. Visser. 2,316,137; Apr. 6.
Tube: *See*—
Electronic tube.
Tube casing and support. J. J. Grobe. 2,315,786–7; Apr. 6.
Tubes, Testing. L. J. De Lanty. 2,315,943; Apr. 6.
Tubular metallic objects, Strengthening. H. E. Somes. 2,315,558; Apr. 6.
Turbine blade construction. F. P. Corbett. 2,315,598; Apr. 6.
Turbine blade locking apparatus. W. H. Lloyd and J. A. Rydmark. 2,315,631; Apr. 6.
Turbine blade, shroud fastening apparatus. J. F. Shalupa and W. H. Lloyd. 2,315,594; Apr. 6.
Turbine blade, shroud fastening. W. B. Flanders. 2,315,610; Apr. 6.
Turbine blade, shroud fastening. C. C. Franck. 2,315,611; Apr. 6.
Turbine blade shroud fastening. J. K. Mosser. 2,315,641–2; Apr. 6.
Turbine blade shroud fastening. A. H. Redding. 2,315,655; Apr. 6.
Turbine shroud fastening. J. A. Davies. 2,315,601; Apr. 6.
Turbine shrouding. C. C. Franck. 2,315,612; Apr. 6.
Two compartment container. W. W. Crouch. 2,315,938; Apr. 6.
Typewriting machine. R. W. Davidson. 2,315,689; Apr. 6.
Typewriting machine. R. D. Dodge and J. E. Wood. 2,315,693; Apr. 6.
Typewriting machine. J. F. Smathers. 2,315,744; Apr. 6.
Typewriting machine. R. von Reppert. 2,315,992; Apr. 6.
Underskirt attachment. K. Wiley. 2,315,832; Apr. 6.
Vacuum condensation pump. A. C. Durdin, Jr. 2,315,946; Apr. 6.
Valve: *See*—
Control valve. Intermittent flow valve.
Valve stem for faucets. M. Esnard. 2,315,948; Apr. 6.
Vapor electric system. J. H. Cox and L. A. Casanova. 2,315,590; Apr. 6.
Vaporizer-carburetor combination, High pressure fuel. O. L. Garretson. 2,315,847; Apr. 6.
Vehicle door latch. H. W. Rightmyer. 2,315,815; Apr. 6.
Vending machine. F. Niewoehner. 2,315,811; Apr. 6.
Ventilated machine. E. I. Pollard and R. A. Baudry. 2,315,653; Apr. 6.
Verifying machine. O. B. Shafer. 2,315,741; Apr. 6.
Viscose, Spinning. J. J. Stoeckly and W. Linnhoff. 2,315,559; Apr. 6.
Vitamin D distillation process and products. K. C. D. Hickman and E. Le B. Gray. 2,316,068; Apr. 6.
Voltage control system, Variable. P. McShane. 2,315,637; Apr. 6.
Voltage rectifier, Constant. J. A. Hutcheson and R. Lee. 2,315,619; Apr. 6.
Voltage regulator. J. M. Weed. 2,315,913; Apr. 6.
Voting machine. F. Conrad. 2,315,597; Apr. 6.
Washbasin. J. L. Brack. 2,315,927–8; Apr. 6.
Washing device. G. P. Wakefield. 2,315,750; Apr. 6.
Water supply tank for concrete mixers. G. Jaeger. 2,316,132; Apr. 6.
Water, Treating. A. W. Ralston and W. O. Pool. 2,315,734; Apr. 6.
Wear test method and composition. S. W. Ferris. 2,315,845; Apr. 6.
Weather strip. A. G. Norden. 2,315,979; Apr. 6.
Weighting device. J. Oettli and H. Hess. 2,315,813; Apr. 6.
Welding electrode holder. E. F. Holt. 2,315,854; Apr. 6.
Well packer apparatus. R. C. Baker. 2,315,921; Apr. 6.
Well pump. W. J. Crites. 2,315,841; Apr. 6.
Wheel: *See*—
Traction wheel.
Wheel traction device. B. A. Bryon. 2,315,838; Apr. 6.
Window. E. Peremi and L. Toth. 2,315,542; Apr. 6.
Window turning machine. H. Hauge. 2,315,522; Apr. 6.
Windshield cleaner. E. C. Horton and A. C. Scinta. 2,316,070; Apr. 6.
Wire attaching device. O. F. Tallman. 2,315,826; Apr. 6.
Wireless transmitter, Limited range. H. L. Knoebel. 2,316,076; Apr. 6.
Wrench: *See*—
Pipe wrench. Torque wrench.
X-ray tubes, Protecting rotating anode. B. Cassen. 2,315,593; Apr. 6.
Yarn twisting machine. R. F. Stuewer. 2,315,562; Apr. 6.
Zirconium oxide, Preparation of. D. S. Hake and H. D. Prior. 2,315,519; Apr. 6.
Zirconium oxide, Preparation of. D. S. Hake and H. D. Prior. 2,315,520; Apr. 6.

CLASSIFICATION OF PATENTS

ISSUED APRIL 6, 1943

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

1— 8. 2: 2,315,540
47: 2,316,112
2— 30: 2,315,930
2,315,975
31: 2,315,614
43: 2,315,561
2,315,701
51: 2,315,972
117: 2,315,698
144: 2,316,002
158: 2,315,888
2,315,889
162: 2,316,033
211: 2,315,832
247: 2,315,620
248: 2,315,814
3— 2: 2,315,795
4— 77: 2,315,824
169: 2,315,927
2,315,928
242: 2,316,105
256: 2,315,673
5— 29: 2,315,969
252: 2,315,543
351: 2,315,706
360: 2,315,968
8— 123: 2,315,545
9— 20: 2,316,101
10— 12: 2,315,769
24: 2,315,994
12— 20: 2,315,493
31. 5: 2,315,638
49. 1: 2,315,676
51: 2,316,125
142: 2,315,494
2,316,045
15— 136: 2,315,996
159: 2,316,090
255: 2,316,070
16— 172: 2,315,801
214: 2,315,970
18— 18: 2,315,770
2,315,934
44: 2,315,721
47. 5: 2,315,713
2,315,910
54: 2,315,559
2,315,560
56: 2,315,804
19— 135: 2,315,813
137: 2,315,936
20— 4: 2,315,967
22: 2,315,719
68: 2,315,979
74: 2,316,035
21— 105: 2,316,145
120: 2,315,697
22— 57. 2: 2,316,144
23— 140: 2,315,519
2,315,520
172: 2,315,988
288: 2,315,525
313: 2,316,043
24— 129: 2,315,826
140: 2,316,102
205: 2,316,133
25— 128: 2,315,634
29— 11: 2,315,488
37: 2,316,010
63: 2,316,117
84: 2,315,654
95. 1: 2,315,982
152. 2: 2,316,029
189: 2,315,657
30— 40: 2,315,990
50: 2,315,785
351: 2,315,898
31— 4: 2,315,603
58: 2,316,065
32— 9: 2,315,669
17: 2,315,660
2,315,748
33— 18: 2,316,138
104: 2,315,893
106: 2,315,941
125: 2,315,747
129: 2,315,709
147: 2,315,868
148: 2,315,806
36— 2. 5: 2,315,574
25: 2,315,759
64: 2,316,062
37— 53: 2,315,743
38— 36: 2,315,704
40— 8: 2,315,925
86: 2,315,878
41— 25: 2,316,143
43: 2,315,903
42— 1: 2,315,753
43— 23: 2,315,539
40: 2,316,048
48: 2,315,575
49: 2,316,074
107: 2,315,989
131: 2,315,772
44— 57: 2,316,011
77: 2,315,957
2,316,012
45— 95: 2,315,862
47— 1: 2,315,949
2: 2,315,764
48— 190: 2,315,550
2,315,551
2,315,552
2,315,553
2,315,554
2,315,555
2,316,140
49— 1: 2,315,735
51— 9: 2,315,546
34: 2,315,794
67: 2,315,859
106: 2,316,109
118: 2,316,071
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244: 2,315,841
105— 197: 2,316,046
106— 109: 2,316,039
108— 7: 2,316,093
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294: 2,315,585
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202— 42: 2,316,126
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148: 2,315,595
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220—	85: 2,315,644	246—	26: 2,315,677	252—	48: 2,316,081	260—	9: 2,315,776	260—	488: 2,315,557	273—	144: 2,315,872
221—	11: 2,315,947		33: 2,315,886		2,316,082		22: 2,315,708		500: 2,315,514	279—	62: 2,315,524
	77: 2,315,581		134: 2,315,864		2,316,086		36: 2,315,503		553: 2,315,745		107: 2,315,937
	93: 2,316,132	248—	5: 2,316,077		2,316,087		49: 2,315,951		563: 2,315,534	280—	33.1: 2,315,688
223—	15: 2,316,047		174: 2,315,617		2,316,088		75: 2,315,613		574: 2,315,922		106: 2,315,643
	57: 2,315,690		215: 2,316,053		2,316,089		97.5: 2,315,584		619: 2,315,556	285—	6.5: 2,315,685
	76: 2,316,001		223: 2,315,955		2,316,090		139: 2,315,529		637: 2,315,699		91: 2,316,009
226—	96: 2,315,866		295: 2,315,739		2,316,091		208: 2,315,870		654: 2,315,580		160: 2,315,792
	109: 2,315,952		309: 2,315,573	253—	60: 2,315,650		209: 2,316,128		658: 2,315,871	286—	7: 2,316,059
	116: 2,315,865		311: 2,316,103		77: 2,315,594		2,316,129		666: 2,316,136	287—	50: 2,315,825
	125: 2,315,932	250—	8: 2,316,017		2,315,598		229: 2,315,973		668: 2,315,839		54: 2,315,760
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229—	6: 2,315,624		20: 2,315,658		2,315,610		251: 2,315,940		746: 2,315,924		2,315,490
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234—	1.5: 2,315,606		2,316,044		2,315,612		304: 2,315,498		2,315,850	292—	169: 2,315,815
235—	30: 2,315,569		27.5: 2,315,510		2,315,616		310: 2,315,834		2,315,855	294—	55: 2,315,831
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	61.8: 2,315,686		39: 2,315,945		2,315,641		2,315,836		2,315,857	299—	61: 2,315,911
	63: 2,315,780		57: 2,315,786		2,315,642		319: 2,315,661	261—	10: 2,315,879		69: 2,315,844
	133: 2,315,908		83.6: 2,315,819		2,315,655		333: 2,315,986		16: 2,315,847	303—	88: 2,316,052
236—	12: 2,316,075		2,315,845	254—	172: 2,315,628		341: 2,315,505		34: 2,315,716	304—	27: 2,315,668
	91: 2,315,984		90: 2,315,787	255—	1.4: 2,315,629		374: 2,315,788		50: 2,315,717	305—	4: 2,315,901
	101: 2,315,906		93: 2,315,593		2,315,694		397.4: 2,315,817		116: 2,316,135	308—	76: 2,315,674
237—	68: 2,315,541	251—	44: 2,315,948		2,316,024		2,316,142	265—	1: 2,315,521		237: 2,316,119
240—10.63: 2,315,726			78: 2,315,797		27: 2,315,905		401: 2,315,765		2: 2,316,019	309—	33: 2,315,944
	11.4: 2,315,884	252—	1: 2,315,995		72: 2,315,590		412.5: 2,316,005		54: Re.22,297		44: 2,315,798
242—	9: 2,315,904		39: 2,316,085	256—	1: 2,315,516		419: 2,315,664		62: 2,315,789	311—	1: 2,315,608
	87: 2,315,639		44: 2,316,083		10: 2,315,757		429: 2,316,141	266—	4: 2,315,508	312—	36: 2,315,515
	123: 2,316,028		2,316,084	257—	3: 2,315,517		461: 2,315,495	268—	21: 2,315,542		43: 2,315,827
	149: 2,316,031		48: 2,316,078		137: 2,316,098		2,315,544		59: 2,315,571		134: 2,315,790
244—	76: 2,315,501		2,316,079		237: 2,316,003		464: 2,315,679	271—	29: 2,315,646		
246—	3: 2,315,887		2,316,080	259—	161: 2,316,137		469: 2,316,051	272—	69: 2,315,485		

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

2,315,492:	174— 151	2,315,640:	160— 236	2,315,742:	144— 309	2,315,838:	152— 225	2,315,952:	226— 109	2,316,062:	36— 64
2,315,499:	260—683.3	2,315,643:	280— 106	2,315,747:	33— 125	2,315,845:	250— 83.6	2,315,969:	5— 29	2,316,083:	252— 44
2,315,501:	176— 26	2,315,657:	29— 189	2,315,771:	202— 52	2,315,851:	154— 43	2,316,005:	260—412.5	2,316,084:	252— 44
2,315,543:	5— 252	2,315,660:	32— 17	2,315,784:	179— 6	2,315,873:	212— 64	2,316,008:	172— 238	2,316,089:	252— 48
2,315,548:	144— 3	2,315,666:	174— 23	2,315,785:	30— 50	2,315,890:	206— 0.5	2,316,024:	255— 1.4	2,316,099:	117— 103
2,315,573:	248— 309	2,315,721:	18— 44	2,315,790:	312— 134	2,315,895:	72— 14	2,316,046:	105— 197	2,316,100:	155— 24
2,315,581:	221— 77	2,315,725:	117— 51	2,315,799:	109— 49	2,315,920:	175— 375	2,316,049:	153— 40	2,316,104:	62— 122
2,315,607:	204— 44	2,315,736:	174— 26	2,315,800:	109— 23	2,315,935:	196— 76	2,316,053:	248— 215	2,316,120:	117— 68.5
2,315,623:	174— 77	2,315,739:	248— 295	2,315,804:	18— 56	2,315,936:	19— 137	2,316,056:	62— 122	2,316,140:	48— 190
2,315,626:	127— 29	2,315,740:	204— 24	2,315,837:	87— 7	2,315,948:	251— 44	2,316,060:	15— 159		

U. S. GOVERNMENT PRINTING OFFICE: 1943

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE WAHL

No. 4,654. *Decided December 1, 1942*

[— F.(2d) —]

1. PATENTABILITY—DYES.

Certain claims covering dyes containing nigrosines and indulines to which are added carboxylic acids, or their derivatives or substitution products "in a quantity not substantially greater than that required to deodorize" each dye *Held* unpatentable over the prior art.

2. SAME—SAME.

"In each of the processes of the references cited the bad odor was eliminated from the dyes treated. The mere fact that the patentees had purposes in mind other than deodorization and used more of the materials than appellant uses does not operate to prevent the references from being complete anticipations of appellant's alleged invention. If the patentees eliminated odor and accomplished other purposes by the use of a greater quantity of the same materials than appellant uses, it surely would not amount to invention to use a smaller quantity where only deodorization was desired."

APPEAL from the Patent Office. Affirmed.

Mr. Harold T. Stowell (*Mr. Ralph E. Parker* and *Messrs. Hutz* and *Joslin of counsel*) for Wahl.

Mr. W. W. Cochran (*Mr. E. L. Reynolds* of counsel) for the Commissioner of Patents.

BLAND, *J.:*

Claims 12 to 18, inclusive, of appellant's application for a patent relating to dyes containing nigrosines or indulines were rejected by the Primary Examiner of the United States Patent Office, and on appeal to the Board of Appeals, the Examiner's action was affirmed. Appellant then filed with the Board a petition for reconsideration together with requested amendments which specified definite proportions of the materials used. In its second decision, the Board, upon the oral statement of the Examiner that the process claims, 12, 13, and 14, thus amended, would be patentable, recommended the allowance of these claims. It concluded, however, that the product claims, 15, 16, 17, and 18, even if amended, would still be unpatentable over the prior art. From the decision of the Board, applicant has appealed to this court.

Dyes containing nigrosines and indulines, according to appellant's application, have an objectionable odor. Appellant corrects this objectionable feature of such dyes by the addition thereto of carboxylic acids, such as citric, tartaric, cinnamic, and benzoic acids, or their derivatives or substitution products. He suggests that the weight of the acid may be from two to five per cent of that of the dyestuff.

The claims were rejected upon the prior art. The three references cited are: Conrad, 328,465, October 20, 1885; Homolka, 418.916, January 7, 1890; Dreher, 630,199, August 1, 1899.

The Primary Examiner further rejected the claims upon other grounds which will be referred to hereinafter.

Conrad discloses the addition of tartaric acid or tartrates, or laevulinic acid to dyes containing induline. His patent relates to "fixing coloring-matters upon textile fibers." No mention is made of removing objectionable odors. He uses a much larger percentage of acid than that used by appellant, but he states that his process permits of varying the amount to suit the circumstances.

The Homolka patent relates to "improvements in coloring-matter of the induline series." Homolka teaches the use of acetic or other organic acids, such as tartaric, citric, and laevulic acids. The amount of acid is not specified.

Dreher states that his invention relates to "improvements in processes of preparing solutions of basic artificial coloring-matters for dyeing and printing purposes." He uses a large quantity of lactic acid or certain of its derivatives.

Claim 15 is illustrative and reads as follows:

15. A compound selected from the group consisting of per se malodorous nigrosines and indulines having incorporated therewith water-soluble substances selected from the group consisting of carboxylic acids, carboxylic acid amides, carboxylic acid esters and their sulfo amino and hydroxy substitution products in a quantity not substantially greater than that required to deodorize said compound.

From the claims and the application it is observed that the appellant treats the same kind of dyes with the same kind of materials as do the patentees.

Claim 15 calls for treating the dyes by incorporating "water-soluble substances selected from the group consisting of carboxylic acids, etc."

Claim 16 is narrower in scope and calls for the use of carboxylic acid in a quantity "not substantially greater than that required to deodorize said compound."

Claim 17 calls for the use of tartaric acid in a quantity "not substantially greater than that required to deodorize said nigrosine."

Claim 18 mentions cinnamic acid in a quantity "not substantially greater than that required to deodorize said induline."

[1] [2] The Examiner and the Board were of the opinion that the appealed claims were not patentable over the prior art, which suggested the use of the same materials in the same kind of process. It seems obvious to us, as it must have appeared to the Patent Office tribunals, that in each of the processes of the references cited the bad odor was eliminated from the dyes treated. The mere fact that the patentees had purposes in mind other than deodorization and used more of the materials than appellant uses does not operate to prevent the references from being complete anticipations of appellant's alleged invention. If the patentees eliminated odor and accomplished other purposes by the use of a greater quantity of the same materials than appellant uses, it surely would not amount to inven-

tion to use a smaller quantity where only deodorization was desired.

Two of appellant's reasons of appeal are directed to the action of the Board in affirming the Examiner's rejection of the claims at bar on the grounds that they are functional and merely call for a purer product than existed heretofore. The Board made no reference to these grounds of rejection, but under *In re Wagenhorst*, 20 C. C. P. A. (Patents) 991, 64 F.(2d) 780, 433 O. G. 223, the Board's decision is equivalent to an affirmance of the action of the Examiner on all the grounds. However, in view of our conclusion that the claims are fully anticipated by the art cited, we find no necessity of discussing these grounds of rejection.

The decision of the Board of Appeals is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE SCHMIDT ET AL.

No. 4,662. Decided December 26, 1942

[— F.(2d) —]

1. CLAIMS—FUNCTIONAL LIMITATIONS.

"The only difference between the apparatus disclosed in the Highberg reference and that defined by appealed claims 14 and 17 is that of use and function, not of structure. Accordingly, we are of opinion that those claims were properly rejected by the tribunals of the Patent Office. See *In re Carr*, 28 C. C. P. A. (Patents) 1240, 120 F.(2d) 386, 530 O. G. 747."

2. PATENTABILITY—GRINDING MACHINE.

Claims 14 and 17 of appellants' application relating to an internal grinding machine of the centerless or chuckless type *Held* unpatentable over the prior art, but claim 19 thereof *Held* patentable.

APPEAL from the Patent Office. Modified.

Mr. George H. Kennedy, Jr. (*Mr. Charles E. Riordan* of counsel) for Schmidt et al.

Mr. W. W. Cochran (*Mr. Clarence W. Moore* of counsel) for the Commissioner of Patents.

HATFIELD, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the decision of the Primary Examiner rejecting claims 14, 17, and 19 in appellants' application for a patent for an alleged invention relating to improvements in an internal grinding machine of the centerless or chuckless type.

Four apparatus claims—8, 9, 15, and 18—and a method claim—16—were allowed by the Primary Examiner.

The appealed claims read:

14. In a machine of the class described, a chuckless or centerless means for the support and rotation in alignment of two externally-tapered hollow workpieces, to allow simultaneous tooling of their bores, said means comprising a plurality of circumferentially-spaced rotary members, the latter surrounding a workpiece-receiving space and having two sets of relatively-narrow flanges spaced apart for rolling contact with the respective tapered surfaces of said two workpieces when said workpieces are arranged in said space with their larger-diameter ends in opposed relation between said sets of flanges, said space extending appreciably beyond said sets of flanges in both directions, and means for yieldingly urging one of said rotary members and its flanges against the tapered surfaces of the so-arranged workpieces, whereby the latter, if differing in external dimension, are caused to have within said space such joint endwise movement relative to said flanges as to carry said workpieces into concentric relation for the simultaneous tooling of their bores.

17. In a machine of the class described, a chuckless or centerless means for the support and rotation in alignment of two externally-tapered hollow workpieces to allow simultaneous grinding of their bores, said means comprising a plurality of circumferentially spaced rotary members providing two sets of work-contacting flanges, one for each workpiece, and of such diameter and spacing as to afford centerless support for the two workpieces by contact with their tapered surfaces only when the workpieces are arranged with their larger-diameter ends in opposed relation between said flanges and with their respective tapered surfaces converging away from each other, said flanges being of appreciably less width than the lengths of said tapered surfaces, and affording support to both workpieces in the absence of obstruction to the latter's endwise movement in either direction relative to said flanges, and means for yieldingly urging one of said rotary members and its flanges against the tapered surfaces of the so-arranged workpieces, whereby the latter, if differing in external dimension, are caused, in reaching equilibrium of support by said flanges to move endwise into concentric relation to each other.

19. In an internal grinding machine, a centerless or chuckless work-holding structure for the support and rotation in alinement of a pair of similar hollow workpieces having tapered external surfaces, said structure comprising a backing or regulating roll, a supporting member and a pressure roll, arranged about a workpiece-receiving space, each of said rolls having a pair of annular flanges, one for each workpiece, and spaced apart in two sets to obtain peripheral rolling contact with said tapered external surfaces when said alined workpieces have their larger-diameter ends in opposed relation between said sets of flanges, said flanges being appreciably narrower than the tapered workpiece surfaces engaged thereby and being spaced inwardly from both ends of said space by approximately the length of the associated tapered workpiece surface, whereby the so-arranged workpieces, if differing in external dimension, are free to move endwise in unison within said space relative to said flanges, until supported in concentric relation by said flanges.

The reference is: Highberg, 2,003,713, June 4, 1935.

Appellants' application discloses a chuckless or centerless means in an internal grinding machine for the support and rotation and the "simultaneous internal grinding" of a pair of hollow workpieces having tapered or contoured external surfaces. The workpieces in appellant's apparatus are in tandem alignment and in concentric relation for the simultaneous grinding of their bores, regardless of variations in their external surfaces. The workpieces, surrounded by three rollers, are supported on two of them. One of the supporting rollers is referred to as a "supporting roll," and the other as a "regulating roll." By means of mechanism which is old in the art and which need not be described here, the workpieces are urged into contact with the "supporting" and "regulating" rolls by a third roll, referred to as a "pressure roll." The regulating roll, driven by suitable mechanism which is old in the art and, therefore, need not be described here, imparts a rotary movement to the workpieces. Each of the three rollers is provided with a pair of spaced flanges which contact the workpieces. The flanges are relatively narrow and are provided with beveled peripheries which seat on the external tapered surfaces of the hollow workpieces. If the workpieces are identical as to external dimensions, they are forced into abutting relationship and in axial alignment by the flanges on the rollers. When so positioned, the workpieces are supported by, and are in contact with, the peripheries of the flanges, and are rotated about a common axis. If the external tapered surfaces of the workpieces vary in dimensions, the workpieces, without the need of any adjustment of appellants' apparatus, are forced to shift endwise by one of the flanges on the pressure roll and one of the flanges on the regulating roll operating in peripheral engagement with the outer surface of the larger workpiece until the outer surface of the smaller workpiece is brought into engagement with the peripheries of the other flanges on the pressure and regulating rolls. Since the space between the points of contact of the smaller workpiece and its supporting flanges is exactly the same as the space between the points of contact of the larger workpiece and its supporting flanges, the two workpieces, in rolling contact with the peripheries of the flanges, are supported and rotated on a common axis, thus permitting a uniform internal grinding operation thereof. In addition to the structure and its operation as described, the endwise movement in unison of the workpieces is made possible by an elongated workpiece-receiving space.

The reference patent to Highberg discloses a chuckless or centerless type of grinding machine, designed to grind the bores of "annular workpieces." The apparatus is capable of grinding the bore of but one workpiece at a time. The workpiece in the Highberg reference is supported by three rollers, each of which is provided with flanges. A rotary movement is imparted to the workpiece by one of the rollers. The workpiece in the patentee's structure is disclosed as being held between the flanges of the rollers. It is stated in the patent that the flanges on all three rollers

"hold the workpiece longitudinally of the axis thereof, and it should be noted in this connection that these flanges are slightly wedge shaped in order to grip the workpiece firmly."

It will be observed that instead of the peripheries of the flanges on the rollers coming in contact with, and imparting a rotary movement to, the workpiece as in appellants' apparatus, the patentee's apparatus is so designed that the workpiece is held between the wedge-shaped flanges on the rollers. Furthermore, there is nothing in the patent to indicate how it would be possible to arrange the patentee's rollers and the flanges thereon so that the bores of a plurality of workpieces could be ground at the same time, nor is there any suggestion in the patent of how the structure therein defined might be arranged to shift two workpieces of different external dimensions so that they could be supported and rotated on the same axis and their bores uniformly ground in the same operation.

That appellants' apparatus involves invention over the patent to Highberg is evidenced by the fact that the Primary Examiner allowed a method claim and four apparatus claims. The appealed claims, however, were rejected by the Examiner on the ground that they "do not define any differences in structure over the structure of the Highberg machine." The Examiner called attention to the fact that there was some workpiece-receiving space in the Highberg machine, and stated that the limitation in each of the appealed claims that the workpiece-receiving space extended appreciably beyond the flanges in both directions was not sufficient to warrant the allowance of the claims, and that it would not amount to invention to space "the rolls of the Highberg machine a greater axial distance from the frame of the machine" and thus obtain a larger workpiece-receiving space.

On appeal, the Board of Appeals, after describing appellants' apparatus and the apparatus disclosed in the Highberg patent, stated that there

"seems to be no good reason why workpieces cannot be supported on the flanges in this patent in the same manner as in applicant's device. The claims before us recite no structure which is not readable directly on the patent."

The Board further stated:

Applicants stress the introductory language in the claims and argue that it distinguishes from the patent and should be considered. This introductory language merely states a specific use of *the same type of machine* as in the reference. In the same type of machine it is obvious that workpieces can be supported in different ways. However, a new machine is not defined by merely indicating in the claims the way the workpieces are supported. The machine remains the same. Hence, we think that the introductory language fails to define any difference over the patent. [Italics not quoted.]

A considerable portion of the brief of counsel for appellants is devoted to a discussion of the differences between the disclosure in the reference patent and appellants' apparatus. With much of that discussion, we are in entire accord. The question here, however, is not whether appellants' apparatus involves patentable subject matter, but rather is whether the appealed claims define patentable subject matter.

[1] It will be observed that appealed claims 14 and 17 call for a plurality of rotary members surrounding a workpiece-receiving space, such members having relatively narrow flanges spaced apart for rolling contact with the respective tapered surfaces of two workpieces when such workpieces are arranged in the manner stated in the claims, the workpiece-receiving space being stated to extend appreciably beyond the sets of flanges in both directions. They also call for means for yieldingly urging one of the rotary members and its flanges against the tapered surfaces of the workpieces. However, neither of those claims calls for an arrangement of parts in which the peripheries of any of the flanges on any of the rotary members are in rolling contact with the external surface or surfaces of the workpieces, nor is there anything in the introductory clauses of those claims which warrants the reading of such a limitation into them. We find no merit in the argument presented here by counsel for appellants that those claims are patentably distinguishable from the Highberg disclosure because they contain the limitations that the flanges are relatively narrow and that the workpiece-receiving space extends appreciably beyond the sets of flanges in both directions. Furthermore, we find no merit in the argument of counsel that those claims are patentably distinguishable from the Highberg disclosure because of the limitation contained in them that the relatively narrow flanges are in rolling contact with the workpieces. As a rotary movement is imparted to the workpiece by one of the rollers in the High-

berg apparatus, and as the workpiece in that apparatus is held between the wedge-shaped flanges on the rollers, it is obvious that the Highberg flanges are in rolling contact with the workpieces, although the peripheries of the flanges are not. We think it is clear, therefore, that the only difference between the apparatus disclosed in the Highberg reference and that defined by appealed claims 14 and 17 is that of use and function, not of structure. Accordingly, we are of opinion that those claims were properly rejected by the tribunals of the Patent Office. See *In re Carr*, 28 C. C. P. A. (Patents) 1240, 120 F.(2d) 386, 530 O. G. 747.

Claim 19 contains the limitation that the apparatus defined therein is so arranged that the peripheries of the annular flanges are in rolling contact with the external surfaces of the workpieces, and it is this arrangement which forces workpieces having identical external dimensions into abutting relationship and in tandem alignment, and which, without any adjustment of parts, forces workpieces, the external surfaces of which vary in dimensions, to shift endwise until they are supported and rotated on a common axis. Such an arrangement permits a uniform internal grinding operation to be performed on two workpieces at the same time. We are of opinion, therefore, that claim 19 defines an apparatus which differs not only in structure but also in function and use from that disclosed in the Highberg reference, and that appellants' apparatus, as defined in that claim, is patentably distinguishable from the patentee's disclosure.

[2] For the reasons stated, the decision of the Board of Appeals is modified, being affirmed so far as it holds that claims 14 and 17 are not patentable over the Highberg reference and reversed so far as it holds the apparatus defined in claim 19 to be unpatentable over that reference.

Modified.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,570,320, A. E. Serewicz, Spark plug and method of making same, D. C., N. D. Ill., E. Div., Doc. 43c36, *A. E. Serewicz* v. *Champion Spark Plug Co.* Dismissed with prejudice Feb. 24, 1943.

1,635,078, L. W. Gilbert, Automatic switch, C. C. A., 2d Cir., Doc. —, *L. W. Gilbert* v. *General Motors Corp.* Decree affirmed (notice Feb. 23, 1943).

1,722,059, A. L. Riker, Ventilator, filed Feb. 26, 1943, D. C., S. D. N. Y., Doc. 20/427, *The Airolite Co. et al.* v. *Air Conditioning Utilities Co.*

1,866,771, J. N. Johnson, Wrench, D. C., S. D. N. Y., Doc. 14/423, *J. N. Johnson* v. *Champion De Arment Co.* Final judgment Feb. 23, 1943.

1,898,608, W. Alexander, Centrifugal separator, appeal filed Feb. 23, 1943, C. C. A., 2d Cir., Doc. —, *Engineering Specialties Co., Inc., et al.* v. *Burgess Battery Co.*

1,905,202, S. Wolf, Collapsible dress form, D. C., S. D. N. Y., Doc. 17/231, *The Better Model Form Co., Inc.*, v. *J. R. Bauman Normal Model Form Co., Inc.* Consent judgment (notice Mar. 1, 1943).

1,965,082, R. McKee, Cracker and method of making same, D. C., S. D. N. Y., Doc. 18/20, *Devonsheer Melba Corp.* v. *King Kone Corp.* Consent order of discontinuance Feb. 23, 1943.

2,040,441, H. B. McEuen, X-ray apparatus, filed Feb. 15, 1943, D. C., N. D. Ohio, E. Div., Doc. 21660, *H. B. McEuen* v. *Picker X-Ray Corp.*

2,111,483, C. E. Trube, Electric coupling system, D. C., N. D. Ill., E. Div., Doc. 442, *Hazeltine Corp.* v. *Sonora Radio & Television Corp.* Doc. 443, *Hazeltine Corp.* v. *Allied Radio Corp.* Doc. 890, *Hazeltine Corp.* v. *Commonwealth Utilities Co.* Patent held invalid Jan. 29, 1943; bill dismissed Feb. 9, 1943, in each of above cases.

2,119,964, L. Reichold, Electric sadiron, D. C., S. D. N. Y., Doc. 2/364, *Winsted Hardware Mfg. Co.* v. *Samson United Corp.* Judgment (notice Feb. 24, 1943).

2,136,538, A. H. Borwick, Method of stretching metal rods, D. C., S. D. Calif., C. Div., Doc. 1728-BH, *A. H. Borwick* v. *E. Podag et al.* Judgment favor defendant, patent held not infringed; bill dismissed with prejudice Feb. 22, 1943.

2,210,988, V. P. Shelton, Camera, D. C., N. D. Ill., E. Div., Doc. 3252, *V. P. Shelton* v. *Conway Camera Co.* Dismissed Feb. 4, 1943.

2,221,851, M. B. Teamer, Gown, D. C., S. D. N. Y., Doc. 18/165, *Auston Undergarment Corp. et al.* v. *R. H. Macy & Co., Inc., et al.* Judgment Feb. 18, 1943.

2,222,409, D. E. Gottlieb, Dog leash, D. C., S. D. N. Y., Doc. 12/114, *Leash-O-Matic, Inc.*, v. *Gillie-Hepburn & Co.* Stipulation of discontinuance (notice Feb. 19, 1943).

2,231,254, A. B. Cleveland, Recapping and retreading mold, D. C., S. D. Calif., C. Div., Doc. 2018-B, *A. B. Cleveland* v. *Ace Mold & Equipment Co. et al.* Consent judgment holding patent valid and infringed, injunction Feb. 15, 1943.

2,234,845, H. Silverstein, Means and method for joining edges, D. C., S. D. N. Y., Doc. 16/496, *H. Silverstein* v. *Major Leather Supply Co.* Judgment Feb. 17, 1943.

2,250,433, J. R. Dean, Jewelry box, filed Feb. 17, 1943, D. C., W. D. N. Y., Doc. 1357, *Warner Jewelry Case Co.* v. *Wolfsheim & Sachs, Inc.*

2,283,797, R. S. Dech, Phonograph disk, filed Feb. 3, 1943, D. C. N. J., Doc. 2720, *Audio Mfg. Corp.* v. *Presto Recording Corp.*

Re. 22,241, T. E. Lefort, Process for the production of ethylene oxide, suit for declaratory judgment filed Feb. 25, 1943, D. C., S. D. N. Y., Doc. 20/423, *U. S. Industrial Chemicals, Inc.* v. *Carbide & Carbon Chemicals Corp.*

Des. 130,693, A. Lehmann, Embroidered textile fabric, D. C., S. D. N. Y., Doc. 17/266, *Lehmann & Naegeli, Inc.*, v. *Alice Brooks, Inc.* Stipulation of discontinuance (notice Feb. 13, 1943).

Des. 132,392, A. L. Carroll, Dress, D. C., S. D. N. Y., Doc. 18/209, *Rexley Frocks, Inc.*, v. *Gay-Line Frocks, Inc.* Discontinued Feb. 26, 1943.

Des. 133,553, E. O. Shreffler, Automobile storage horse, filed Feb. 17, 1943, D. C., N. D. Ill., E. Div., Doc. 43c171, *Automotive Improvement Co.* v. *Wieboldt Stores, Inc.*

Des. 133,601, H. H. Stahl, Dress, D. C., S. D. N. Y., Doc. 19/354, *Highlight Fashions, Inc.*, v. *Rudolph-Marged, Inc.* Consent judgment Feb. 24, 1943.

T. M. 299,548, Hat Corp. of America, Hats and caps for men, women and children, leather gloves, etc., filed Feb. 8, 1943, D. C., S. D. Fla. (Miami), Doc. 799-M, *Hat Corp. of America* v. *Dobbs.*

TRADE-MARKS

OFFICIAL GAZETTE, APRIL 6, 1943

[VOL. 549. No. 1]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 451,085. LOCKPORT COTTON BATTING CO., Lockport, N. Y. Filed Feb. 19, 1942.

SNOW DROP

FOR COTTON BATTING OR COTTON BATTS.
Claims use since Aug. 15, 1926.

Ser. No. 454,774. AMERICAN COLLOID CO., Chicago, Ill. Filed Aug. 7, 1942.

"MINUS 625"

FOR CLAYS—NAMELY, BENTONITE.
Claims use since July 17, 1942.

Ser. No. 458,213. SYNTHETIX LATEX CORPORATION, New York, N. Y. Filed Jan. 28, 1943.

RUBA

FOR SYNTHETIC RUBBER.
Claims use since Sept. 1, 1942.

Ser. No. 458,256. UNION-BAYSTATE CO. INC., Cambridge, Mass. Filed Jan. 30, 1943.

MERSOPOL

FOR SYNTHETIC RUBBER.
Claims use since Jan. 22, 1943.

CLASS 2

RECEPTACLES

Ser. No. 454,473. FREDERICK G. BECKER, INC., Chicago, Ill. Filed July 24, 1942. Under the act of February 20, 1905, as amended June 10, 1938.



FOR WEATHERPROOF SOLID FIBRE BOARD PACKING BOXES.
Claims use since June 18, 1942.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 458,042. FREDERICK C. MANHECK, doing business as The Frederick Charles Company, Union, N. J. Filed Jan. 20, 1943.

ESTIK

FOR SHAVING PREPARATION IN STICK FORM TO BE USED AS A SUBSTITUTE FOR SHAVING SOAP OR SHAVING CREAM.
Claims use since Oct. 23, 1940.

Ser. No. 458,178. R. H. MACY & CO., INC., New York, N. Y. Filed Jan. 26, 1943.

GREMLIN

FOR SOAP.
Claims use since Jan. 8, 1943.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 427,918. ZENOBIA ROSALAK, New York, N. Y. Filed Jan. 20, 1940.

ZIELANKA

FOR PREPARATION FOR USE AS AN AID IN ALLEVIATING THE DISCOMFORTS OF CERTAIN TYPES OF RHEUMATIC PAINS DUE TO EXPOSURE OR COLD.

Claims use since Oct. 1, 1938.

Ser. No. 445,390. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y. Filed July 16, 1941.

DK-50

FOR PHOTOGRAPHIC CHEMICALS—NAMELY, DEVELOPERS AND REPLENISHERS THEREFOR.

Claims use since Aug. 13, 1934.

Ser. No. 445,391. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y. Filed July 16, 1941.

DK-60

FOR PHOTOGRAPHIC CHEMICALS—NAMELY, DEVELOPERS AND REPLENISHERS THEREFOR.

Claims use since Aug. 20, 1934.

Ser. No. 451,426. UNITED STATES STEEL EXPORT COMPANY, New York, N. Y. Filed Mar. 5, 1942.

UNITED STATES STEEL EXPORT COMPANY

FOR SULPHATE OF IRON; AMMONIACAL LIQUOR; AMMONIUM SULPHATE; BENZOL; CRESOL; CRESYLIC ACID; CREOSOTE OIL; CRUDE NAPHTHALENE; PHENOL; INDUSTRIAL PURE TOLUOL AND INDUSTRIAL XYLOL.

Claims use since Jan. 22, 1942.

Ser. No. 453,615. CHEMICAL MARKETING COMPANY, INCORPORATED, New York, N. Y. Filed June 12, 1942.

LAMEPON

FOR WETTING AGENT, EMULSIFIER, FATTY ALBUMIN ACID, AND ANIMAL PROTEIN EXTRACTION PRODUCT, THE LATTER BEING A SURFACE-ACTIVE AGENT, A SPLIT-OFF DERIVATIVE OF ALBUMEN OF THE LYSALBINIC AND PROTALBINIC ACID TYPES, CONDENSED WITH FATTY ACID CHLORIDES.

Claims use since Jan. 18, 1940.

Ser. No. 454,369. OSCAR HAYES, doing business as Atlas Laboratories, Akron, Ohio. Filed July 21, 1942.

ATLAS LUBRICANT

The word "Lubricant" is disclaimed apart from the mark.

FOR LUBRICANT FOR APPLICATION ON PROPHYLACTIC RUBBER ARTICLES.

Claims use since November, 1939.

Ser. No. 454,370. OSCAR HAYES, doing business as Hayes Laboratories, Akron, Ohio. Filed July 21, 1942.

BENTARGOL

FOR MEDICATIVE OINTMENT FOR EXTERNAL AND ORIFICIAL APPLICATION SUCH AS EXTERNAL SORES AND INFLAMED PASSAGES OF THE NOSE, URETHRA, AND THE LIKE.

Claims use since July, 1936.

Ser. No. 454,686. NORMAN F. DAHL, Toronto, Ontario, Canada, assignor to Lehn & Fink Products Corporation, Bloomfield, N. J., a corporation of Delaware. Filed Aug. 3, 1942.

DURATION

FOR COSMETICS—NAMELY, LIPSTICK, ROUGE, FACE POWDER, MASCARA, ROUGE AND POWDER COMPACTS, LEG COATING LIQUID.

Claims use since December, 1941.

Ser. No. 457,763. LIBERTY VITAMIN CORPORATION, New York, N. Y. Filed Jan. 5, 1943.

NEO-BETA

The word "Beta" is disclaimed apart from the mark.

FOR VITAMIN B COMPLEX IN FORM OF TABLETS, SYRUP DROPS, AND CAPSULES.

Claims use since Dec. 21, 1942.

Ser. No. 458,015. LEDERLE LABORATORIES, INC., New York, N. Y. Filed Jan. 19, 1943.

CALCI-DELTA

No claim is made to the word "Calci" apart from the mark.

FOR PHARMACEUTICAL PREPARATION CONTAINING DICALCIUM PHOSPHATE AND VITAMIN D.

Claims use since Dec. 8, 1942.

Ser. No. 458,025. UNITED CHROMIUM, INCORPORATED, New York, N. Y. Filed Jan. 19, 1943.

ANOZINC

FOR CHEMICAL COMPOUNDS AND COMPOSITIONS FOR USE IN ANODIZING METALS, BOTH IN DRY FORM AND IN THE FORM OF AQUEOUS SOLUTIONS.

Claims use since Dec. 29, 1942.

Ser. No. 458,091. COTY, INC., New York, N. Y. Filed Jan. 22, 1943.

CAFÉ CRÈME

The word "Crème" is disclaimed apart from the mark.

FOR FACE POWDER, DUSTING POWDER, TOILET WATER, PERFUME, SUNTAN OIL, SKIN AND HAIR LOTIONS, BRILLIANTINE, ROUGE COMPACTS, POWDER COMPACTS, LIPSTICKS, SACHET POWDERS, FACE CREAMS, BATH SALTS, TALCUM POWDERS, ROUGES.

Claims use since Jan. 13, 1943.

Ser. No. 458,177. LEHN & FINK PRODUCTS CORPORATION, Bloomfield N. J. Filed Jan. 26, 1943.

TUSSY

FOR PERFUME, EAU DE COLOGNE; TOILET POWDERS, FACE POWDER, LIQUID FACE POWDER, DUSTING POWDER, TALCUM POWDER, SACHET; ROUGE, LIPSTICK, POMADE; TOILET CREAMS, CLEANSING CREAM, TISSUE CREAM, SKIN CREAM, FINISHING CREAM, ALMOND CREAM, EYE CREAM, NIGHT CREAM, CREAMY MASQUE, POWDER BASE CREAM; TOILET LOTIONS, POWDER BASE LOTION, SKIN LOTION, HAND LOTION, CUCUMBER LOTION; DEODORANT, EYEBROW PENCILS, EYE SHADOW, MASCARA (COSMETIQUE); LEG TINTING OR MAKE-UP COSMETIC; BUBBLE BATH PREPARATION; ANTI-SUNBURN FOUNDATION CREAM, SUN-TAN LOTION, SUN-TAN OIL; PREPARATIONS FOR SHAMPOOING AND FOR BRIGHTENING THE HAIR AND RESTORING AND PRESERVING ITS LUSTRE AND SHEEN, HAIR TONIC; PREPARATIONS FOR THE CARE OF THE NAILS—NAMELY, NAIL POLISH, NAIL CREAM, CREAM ENAMEL, NAIL POLISH DISSOLVENT, CUTICLE OIL, NAIL CUTICLE REMOVER, PREPARATION FOR REMOVING STAINS FROM THE SKIN AND FROM UNDER THE NAILS; VANITY CASES CONTAINING POWDER AND/OR ROUGE AND/OR LIPSTICKS, REFILLS FOR VANITIES; BEAUTY CASES CONTAINING DIFFERENT ASSORTMENTS OF SOME OF THE AFOREMENTIONED TOILET PREPARATIONS.

Claims use since Nov. 6, 1925.

Ser. No. 458,253. STANDARD BRANDS INCORPORATED, New York, N. Y. Filed Jan. 30, 1943.

Stan-"B"

No claim is made to the letter "B" except as shown.

FOR VITAMINIC COMPOSITION.

Claims use since Dec. 3, 1942.

Ser. No. 458,370. MILLER MANUFACTURING COMPANY, Camden, N. J. Filed Feb. 6, 1943.

Wm. I. Miller

Trade-mark consists in the representation of the signature of William I. Miller, president of applicant corporation.

FOR CHEMICALS FOR REPAIRING CRACKS IN METALS, PARTICULARLY CRACKS IN MOTOR BLOCKS OF INTERNAL COMBUSTION ENGINES, STEAM ENGINES, WATER JACKETS, CYLINDERS, VALVE PORTS, RADIATORS, BOILERS, ETC., CHEMICALS FOR REMOVING RUST AND CORROSION FROM INTERNAL COMBUSTION ENGINES, STEAM ENGINES, BOILERS, RADIATORS, HEATING SYSTEMS, PIPES, WELLS, WELL CASINGS, WELL SCREENS, AND THE LIKE, AND CHEMICALS COMPRISING ANTI-FREEZE COMPOSITIONS FOR INTERNAL COMBUSTION ENGINES.

Claims use since Jan. 21, 1943.

Ser. No. 458,408. REVLON PRODUCTS CORPORATION, New York, N. Y. Filed Feb. 8, 1943.

COLOR-PUFFED

The word "Color" is disclaimed apart from the mark.

FOR FACE POWDER, ROUGE, AND MAKE-UP BASE.

Claims use since Jan. 19, 1943.

Ser. No. 458,419. THE VITAMIN CLUB, Chicago, Ill. Filed Feb. 8, 1943.

VITAMIN CLUB

The notation "Vitamin" is disclaimed apart from the mark.

FOR VITAMINS.

Claims use since Nov. 24, 1942.

Ser. No. 458,469. JOHN WYETH & BROTHER, INCORPORATED, Philadelphia, Pa. Filed Feb. 10, 1943.

PRŌKIT

FOR VENEREAL PROPHYLAXIS UNITS.

Claims use since Dec. 14, 1942.

Ser. No. 458,506. ERNST BISCHOFF COMPANY, INCORPORATED, Ivoryton, Conn. Filed Feb. 13, 1943.

SAS-PAR

FOR PREPARATION FOR THE TREATMENT OF PSORIASIS.

Claims use since July 5, 1940.

Ser. No. 458,559. WIDMANN & TEAH, INC., doing business as Barkolyn Pharmacal Company, Lock Haven, Pa. Filed Feb. 15, 1943.

VITA-DERM

FOR VITAMIN CAPSULE PREPARATION CONTAINING A COMBINATION OF VITAMINS AND LIVER.

Claims use since Feb. 1, 1938.

Ser. No. 458,585. CELLUDYE CORPORATION, New York, N. Y. Filed Feb. 17, 1943.

Celludye

FOR TEXTILE DYE.
Claims use since Dec. 2, 1942.

Ser. No. 458,591. FLOWER FOODS, INC., Maywood, Ill. Filed Feb. 17, 1943.

ROSELIFE

FOR COMPOSITION CONTAINING CHEMICAL INGREDIENTS FOR STRENGTHENING, FEEDING, AND PROMOTING THE DEVELOPMENT OF CUT PLANTS.
Claims use since July 29, 1926.

Ser. No. 458,635. NATIONAL CYLINDER GAS COMPANY, Chicago, Ill. Filed Feb. 19, 1943.



No claim is made to the words "Oxygen," "Acetylene," and "Apparatus" apart from the mark.
FOR WELDING AND BRAZING FLUXES FOR CAST IRON, MALLEABLE IRON, BRASS, BRONZE, COPPER, AND STEEL, AND ALUMINUM FLUXES.
Claims use since Mar. 25, 1938.

CLASS 7

CORDAGE

Ser. No. 452,546. UNITED STATES STEEL EXPORT COMPANY, New York, N. Y. Filed Apr. 23, 1942.



FOR METAL STRAND, ROPE, AND CABLE.
Claims use since Feb. 25, 1942.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 444,423. THE UPSON COMPANY, Lockport, N. Y. Filed June 11, 1941.



Applicant is the owner of the trade-mark registered under certificate No. 93,398. No claim is made to the words "Quality Products" apart from the mark.
FOR WALLBOARD.
Claims use since March, 1935.

Ser. No. 451,427. UNITED STATES STEEL EXPORT COMPANY, New York, N. Y. Filed Mar. 5, 1942.



FOR SHEET STEEL ROOFING, SIDING, CEILING, FLASHINGS, ROOF VALLEYS, RIDGES, SADDLES, GUTTERS AND DOWNSPOUTS; STRUCTURAL STEEL SHAPES AND ASSEMBLED STRUCTURAL SECTIONS READY FOR USE; STEEL POLES, PILING AND CONCRETE REINFORCEMENT; PREFABRICATED BRIDGES, TOWERS AND BUILDINGS; AND PORTLAND, WHITE, HYDRAULIC, AND OIL WELL CEMENT.
Claims use since Jan. 26, 1942.

Ser. No. 452,448. JAMES MANUFACTURING COMPANY, Fort Atkinson, Wis. Filed Apr. 20, 1942.



All words except "Jamesway" are disclaimed apart from the mark.
FOR FARM BUILDINGS FOR HOUSING COWS, HORSES, HOGS, SHEEP, AND POULTRY, AND FOR STUDS, SHEATHING, METAL WINDOWS AND DOORS FOR FARM BUILDINGS.
Claims use since Nov. 28, 1941.

Ser. No. 456,967. BATTENFELD GREASE & OIL CORP., Kansas City, Mo. Filed Nov. 23, 1942.

MARVEL-KOTE

The word "Kote" is disclaimed apart from the mark.
FOR CONCRETE CURING COMPOUND.
Claims use since Sept. 25, 1942.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 451,903. UNITED STATES STEEL EXPORT COMPANY, New York, N. Y. Filed Mar. 25, 1942.



FOR METAL CASING, TUBING, PIPE AND COUPLINGS THEREFOR; HIGHWAY ROAD GUARDS; BARBED WIRE; FENCE POSTS; HARDWARE CLOTH; WIRE NETTING; WIRE SCREEN CLOTH; WOVEN WIRE FENCING; BALE TIES; BOX BANDS; SPIKES; NAILS; STAPLES; TACKS; AND BOLTS, NUTS, AND RIVETS.
Claims use since Jan. 27, 1942.

Ser. No. 456,826. EDWIN JACKSON, INC., New York, N. Y. Filed Nov. 14, 1942.

WAR DOGS

The word "Dogs" is disclaimed apart from the mark.
FOR ANDIRONS.
Claims use since July 21, 1942.

Ser. No. 458,389. A. B. CHANCE COMPANY, Centralia, Mo. Filed Feb. 8, 1943.

THIMBLEYE

FOR ANCHOR RODS, BOLTS, NUTS, STRAIGHT FIXTURES, ANGLE FIXTURES COMPRISING METAL FITTINGS HAVING A GUY ROD EYE, ANGLE FIXTURES COMPRISING METAL FIXTURES HAVING A GUY ROD EYE AT AN ANGLE, AND GUY FIXTURES COMPRISING FIXTURES HAVING A GUY ROD EYE WHICH MAY BE USED FOR RECEIVING A GUY ROD.
Claims use since Sept. 15, 1921.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 451,428. UNITED STATES STEEL EXPORT COMPANY, New York, N. Y. Filed Mar. 5, 1942.



FOR INGOTS; BLOOMS; BILLETS; SHEET BARS; SKELP; SLABS; CASTINGS; FORGINGS; BARS AND BAR MILL SHAPES; PLATES; RAILWAY RAILS, TIES, RAILWAY TRACKWORK, AND ASSEMBLY PARTS FOR RAILWAY TRACKWORK; COATED AND UNCOATED SHEETS AND STRIP; FLAT CORRUGATED AND CRIMPED SHEETS; KEG HOOPS; AND COATED AND UNCOATED WIRE; ALL OF PLAIN CARBON AND ALLOY STEEL; AND COPPER WIRE.
Claims use since Jan. 23, 1942.

Ser. No. 458,099. HOYLAND STEEL COMPANY, INCORPORATED, New York, N. Y. Filed Jan. 22, 1943.

HSC 265 ALLOY STEEL

The words "Alloy Steel" are disclaimed apart from the mark.
FOR TOOL STEEL IN THE FORM OF BARS, BILLETS, SHEETS, AND STRIPS.
Claims use since Nov. 19, 1942.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 458,098. H. N. HEUSNER & SON, INC., Hanover, Pa. Filed Jan. 22, 1943.

REIO

FOR CIGARS.
Claims use since 1898.

CLASS 19

VEHICLES, NOT INCLUDING ENGINES

Ser. No. 451,904. UNITED STATES STEEL EXPORT COMPANY, New York, N. Y. Filed Mar. 25, 1942.

UNITED STATES STEEL USS EXPORT COMPANY

FOR INDUSTRIAL AND OTHER RAIL CARS; PARTS FOR INDUSTRIAL CARS; AND RAILROAD CAR AND RAILROAD LOCOMOTIVE WHEELS AND AXLES.
Claims use since Jan. 28, 1942.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 452,547. UNITED STATES STEEL EXPORT COMPANY, New York, N. Y. Filed Apr. 23, 1942.

UNITED STATES STEEL USS EXPORT COMPANY

FOR WIRE AND CABLE FOR ELECTRICAL PURPOSES; RAIL AND SIGNAL BONDS; ARMATURE SHAFTS; AND ELECTRIC FURNACES.
Claims use since Feb. 26, 1942.

Ser. No. 455,100. GREYHOUND ELECTRIC MANUFACTURING CO., INC., Brooklyn, N. Y. Filed Aug. 25, 1942.

GREYHOUND

A.C. WELDER

The words "A. C. Welder" are disclaimed apart from the mark.
FOR ELECTRIC ALTERNATING CURRENT WELDING MACHINES AND TRANSFORMERS.
Claims use since Apr. 16, 1940.

Ser. No. 458,133. WILSON WELDER AND METALS CO. INC., New York, N. Y. Filed Jan. 23, 1943.

HONEY BEE

FOR ELECTRIC ARC WELDING MACHINES.
Claims use since Dec. 31, 1942.

Ser. No. 458,372. PHILCO CORPORATION, Philadelphia, Pa. Filed Feb. 6, 1943.

VITRABLOC

FOR STORAGE BATTERIES.
Claims use since Dec. 5, 1942.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 448,758. HORACE W. HALL, doing business as Hall Mfg. Co., Newton Highlands, Mass. Filed Nov. 19, 1941.

SERVICE HALL HONESTY QUALITY

No claim is made to the words "Hall," "Quality" and "Service" apart from the mark. Applicant is owner of T. M. Reg. Nos. 370,794 and 374,713.
FOR TENNIS, SQUASH, AND BADMINTON PLAYING RACKETS.
Claims use since Oct. 30, 1941.

Ser. No. 454,707. WILSON & ROSS, Salinas, Calif. Filed Aug. 3, 1942.

VEE

FOR GAME PLAYED WITH A GAME BOARD AND MOVABLE PIECES.
Claims use since July 10, 1942.

Ser. No. 455,477. GRAPHICUT CORPORATION, New York, N. Y. Filed Sept. 11, 1942.

EUREKO!

FOR JIG-SAW PUZZLE GAMES.
Claims use since Aug. 15, 1942.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 434,722. THE IRWIN AUGER BIT COMPANY, Wilmington, Ohio. Filed Aug. 6, 1940.

IRWIN Scru-lok

Applicant is owner of trade-mark Reg. #65,244, effected under one 10-year proviso of the act of February 20, 1905. It has been renewed.
FOR AUGER BIT EXTENSIONS.
Claims use since June 29, 1940.

Ser. No. 451,429. UNITED STATES STEEL EXPORT COMPANY, New York, N. Y. Filed Mar. 5, 1942.

UNITED STATES STEEL USS EXPORT COMPANY

FOR AERIAL TRAMWAYS AND SKI TOWS; GRINDING BALLS; GRINDING RODS; SWING HAMMERS, AND ROLL HEADS FOR RING ROLL GRINDERS.
Claims use since Jan. 27, 1942.

Ser. No. 456,841. BIXBY-ZIMMER ENGINEERING CO., Galesburg, Ill. Filed Nov. 16, 1942.

BEE ZEE

FOR SCREENS—NAMELY, SCREENS FOR USE IN DE-WATERING, DRYING, AND SIZING COAL AND GRAVEL AND FOR LIKE PURPOSES.
Claims use since Oct. 5, 1942.

Ser. No. 457,731. THE UNITED SPECIALTIES COMPANY, Chicago, Ill. Filed Jan. 2, 1943.

UNITED PRODUCTS

No claim is made to the word "Products" apart from the mark.
FOR AIR CLEANERS FOR ENGINES, DUST SEPARATORS, AND CLASSIFIERS, AS USED IN THE SEPARATION OF SOLIDS FROM GASES.
Claims use since May, 1935.

Ser. No. 458,121. ROGERS DIESEL AND AIRCRAFT CORPORATION, New York, N. Y. Filed Jan. 23, 1943.

FOR POWER LAWN MOWERS, POWER SWEEPING ROTARY FLOOR BRUSHES, AND POWER SNOW REMOVAL SWEEPER BLADES.
Claims use since Dec. 30, 1942.

Ser. No. 458,155. L & L MFG. CO., Van Dyke, Mich. Filed Jan. 25, 1943.

L&L

FOR TOOLS FOR USE WITH HYDRAULIC ACCESSORIES SUCH AS FLARING TOOLS.
Claims use since Jan. 10, 1942.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 449,972. TURNER GAUGE GRINDING COMPANY, Detroit, Mich. Filed Jan. 2, 1942.

FOR METAL GAUGES—NAMELY, FLAT GAUGES, PLUG GAUGES, AND RING GAUGES.
Claims use since Mar. 15, 1941.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 456,350. EMIL VON BURG, doing business as American Grana Watch Company, New York, N. Y. Filed Oct. 22, 1942.

Grana

FOR WATCHES, PARTS THEREOF, WATCH MOVEMENT AND CLOCKS.
Claims use since 1910.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 453,390. H. SEGAL, New York, N. Y. Filed May 30, 1942.

C Q&R

FOR METAL ARTICLES—NAMELY, LOCKETS, CROSSES, BRACELETS, WRIST WATCH BANDS, WATCH AND KEY CHAINS, BROOCH PINS, TIE HOLDERS, NECK CHAINS, COLLAR PINS, ALL MADE OF PRECIOUS METAL OR PLATED WITH PRECIOUS METAL.

Claims use since December, 1902.

Ser. No. 456,717. KANTOR NOVELTY, INC., New York, N. Y. Filed Nov. 9, 1942.

Jewelplast

FOR NECKLACES, BRACELETS (NOT INCLUDING WATCHES), FINGER RINGS, EARRINGS, JEWELRY CLIPS, BROOCHES, AND LOCKETS, ALL MADE OF PRECIOUS METAL, AND THE FOLLOWING GOODS MADE PARTICULARLY OF PLASTIC ORNAMENTED WITH PRECIOUS METAL—NAMELY, PINS, HAT ORNAMENTS, HAIR ORNAMENTS, HOLDERS FOR FACE POWDER COMPACTS, COMB CASES, CIGARETTE CASES, FANCY CIGARETTE BOXES, FANCY BUCKLES AND JEWELRY INITIALS.

Claims use since Sept. 15, 1942.

Ser. No. 458,084. STRONGHOLD JEWELRY CO., New York, N. Y. Filed Jan. 21, 1943.

STRONGHOLD

FOR FINGER RINGS AND FINGER RING GUARDS.

Claims use since 1932 on finger ring guard; and since Jan. 4, 1943, on finger rings.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 449,701. REMINGTON AIR CONDITIONING COMPANY, INC., New York, N. Y. Filed Dec. 22, 1941. Under 10-year proviso.

Remington

FOR REFRIGERATION COMPRESSORS AND REFRIGERATION CONDENSING UNITS.

Claims use since Jan. 1, 1889.

CLASS 33

GLASSWARE

Ser. No. 456,605. KIMBLE GLASS COMPANY, Vineland, N. J., and Chicago Heights, Ill. Filed Nov. 2, 1942.

GLASTITE

FOR GLASS FLOATS FOR AUTOMATIC VALVES.

Claims use since June 16, 1942.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 451,280. YOUNG RADIATOR COMPANY, Racine, Wis. Filed Feb. 27, 1942.

YOUNG HAPPY

FOR COOLING TOWERS USED FOR COOLING JACKET LIQUID AND OIL FOR INTERNAL COMBUSTION ENGINES, FOR COOLING NATURAL GAS, FOR CONDENSING AND SIMILAR PURPOSES.

Claims use since Mar. 19, 1939.

Ser. No. 458,257. UNITED BLOWER COMPANY, INC., New York, N. Y. Filed Jan. 30, 1943.

UNITED BLOWER CO.

FOR MOTOR DRIVEN BLOWERS AND EXHAUSTERS FOR VENTILATING PURPOSES.

Claims use since June, 1937.

CLASS 37

PAPER AND STATIONERY

Ser. No. 447,280. WESTERN PAPER CONVERTING COMPANY, Salem, Oreg. Filed Sept. 23, 1941.



No claim is made to the words "Velvet Finish" apart from the mark.

FOR WRITING PAPER, DRAWING PAPER, PENCIL PAPER, WRITING TABLETS, DRAWING TABLETS, PENCIL TABLETS, SPELLING TABLETS, BLANK BOOKS, ENVELOPES, LOOSELEAF FILLERS AND BINDERS, BLANK BOOKS IN THE NATURE OF COMPOSITION BOOKS FOR SCHOOL USE, TABLETS, AND CORRESPONDENCE TABLETS.

Claims use since July 1, 1940.

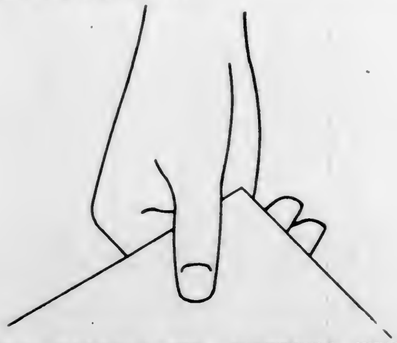
Ser. No. 448,404. ASHLAND PAPER MILLS, INC., Ashland, N. H. Filed Nov. 5, 1941.

ADVANCE

FOR FACIAL TISSUE, TOILET TISSUE, PAPER NAPKINS, AND PAPER TOWELS.

Claims use since 1933.

Ser. No. 454,946. HAMMERMILL PAPER COMPANY, Erie, Pa. Filed Aug. 17, 1942.



FOR WRITING-PAPER, SUPERFINE WRITING-PAPER, LEDGER-PAPER, BOND WRITING-PAPER, CORRESPONDENCE ENVELOPES, WRITING PADS, INDEX BRISTOL, PRINTING BRISTOL, COVER PAPERS, PRINTING PAPERS, SAFETY PAPERS, REPRODUCTION PAPERS, AND BOOKKEEPING PAPERS.

Claims use to the various writing papers since Apr. 14, 1942; to the safety papers since May 18, 1942; to the reproduction papers since May 29, 1942; to the ledger paper and cover papers since June 4, 1942; and to correspondence envelopes, index bristol, printed bristol, and bookkeeping papers since June 8, 1942.

Ser. No. 457,059. ADDRESSOGRAPH-MULTIGRAPH CORPORATION, Cleveland, Ohio. Filed Nov. 26, 1942.

ADDRESSOGRAPH

FOR IDENTIFICATION CARDS—NAMELY, INDEX AND IDENTIFICATION CARDS FOR USE ON PRINTING DEVICE FRAMES AND ON TABS FOR PRINTING DEVICE FRAMES, AND AS MARKERS FOR INDICATING POSITIONS IN FILES AND THE LIKE.

Claims use since about March, 1901, on index and identification cards for use on printing device frames; since about January, 1905, on index and identification cards for tabs used on printing device frames; and since about February, 1916, on markers for indicating positions in files and the like.

Ser. No. 457,823. CUSHMAN & DENISON MANUFACTURING COMPANY, INC., New York, N. Y. Filed Jan. 9, 1943.

MULTIWAY

FOR CARD INDEXES, CARDS AND FORMS FOR INDEXES, LOOSE LEAF BOOKS, PAPER CLIPS, BOX FILES, GUMMED PAPER STRIPS, PORTABLE INDEX AND FILING DEVICES MADE OF PAPER MATERIAL, PAPER-FILE PERFORATORS, DESK CALENDARS, FOLDERS, BINDING DEVICES FOR LOOSE LEAVES, COVERS FOR SHEETS, METALLIC FASTENERS AND PAPER FASTENERS, AND PAPER BINDERS.

Claims use since June, 1942.

Ser. No. 458,108. UNITED WALL PAPER FACTORIES, INC., Chicago, Ill. Filed Jan. 22, 1943.

WALL-IN-ONE

FOR WALL PAPER.

Claims use since Dec. 28, 1942.

Ser. No. 458,204. A. P. W. PAPER COMPANY, INC., Albany, N. Y. Filed Jan. 28, 1943.

GOLD CROSS



The drawing is lined for gold.

FOR PAPER FOR TOILET PURPOSES—NAMELY, TOILET TISSUES AND PAPER TOWELS.

Claims use since Jan. 7, 1943.

CLASS 39

CLOTHING

Ser. No. 455,010. SMARTCRAFT, New York, N. Y. Filed Aug. 20, 1942.

Golf Course

FOR WOMEN'S AND CHILDREN'S DRESSES MADE OF RAYON, COTTON, WOOL, SILK, AND MIXTURES THEREOF.
Claims use since Jan. 2, 1942.

Ser. No. 456,860. WESTERN AUTO SUPPLY COMPANY, Kansas City, Mo. Filed Nov. 16, 1942.

WEST-CRAFT

The word "West" is disclaimed except as shown.
FOR MEN'S AND BOYS' WEARING APPAREL—NAMELY, UNDERSHORTS, UNDERSHIRTS, UNION SUITS, DRESS, NEGLIGEE, AND SPORT SHIRTS, CLOTH AND LEATHER JACKETS, SPORT COATS, HATS AND CAPS, SUITS AND OVERCOATS; PAJAMAS, BATH-ROBES, SOCKS, GARTERS, SUSPENDERS, GARMENT BELTS, NECKTIES, HANDKERCHIEFS, SWEATERS, AND GLOVES OF FABRIC AND LEATHER, AND COMBINATIONS THEREOF.
Claims use since Nov. 3, 1942.

Ser. No. 457,254. STEPHEN PUTNEY SHOE COMPANY, Richmond, Va. Filed Dec. 7, 1942.

Junior Mates
"SMART SHOES"

The words "Junior" and "Smart Shoes" are disclaimed except as shown.
FOR CHILDREN'S LEATHER SHOES.
Claims use since May 9, 1933.

Ser. No. 457,828. LOUIS GEIGER, INC., New York, N. Y. Filed Jan. 9, 1943.

Workies

The drawing is lined for red.
FOR LADIES' AND GIRLS' OVERALLS, OUTER SHIRTS, BLOUSES, JACKETS, DRESSES, SLACKS, SLACK-SUITS, COATS, AND SKIRTS.
Claims use since Nov. 15, 1942.

Ser. No. 458,209. LEIGHTON HATS, INC., New York, N. Y. Filed Jan. 28, 1943.

POM-PET

FOR LADIES' AND MISSES' HATS.
Claims use since Jan. 15, 1943.

Ser. No. 458,319. POLLACK, SMITH & ROBINS, INC., Philadelphia, Pa. Filed Feb. 3, 1943.

ROBBY Len
SUNNY WEAR

Applicant disclaims the words "Sunny Wear."
FOR WOMEN'S BATHING SUITS, BEACH DRESSES, BEACH JACKETS, BEACH COATS, PLAY DRESSES, SUN SUITS, PINAFORES, BATHING SHORTS, SUN SHORTS, BRAS, SLACK SUITS, BLOUSES, SKIRTS, AND JACKETS.
Claims use since Jan. 8, 1943.

Ser. No. 458,416. SUPREME SPORTSWEAR CO., St. Louis, Mo. Filed Feb. 8, 1943.

Romp-N-Rest

FOR WOMEN'S, MISSES', AND GIRLS' WEARING APPAREL—NAMELY, DRESSES, SUITS, BLOUSES, SLACKS, PLAY SUITS, BATHING SUITS, SWEATERS, SKIRTS, JACKETS, AND JUMPERS.
Claims use since Dec. 15, 1942.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 452,924. FOX BROTHERS & COMPANY, LIMITED, Wellington, England. Filed May 11, 1942.

FOX

FOR SERGES AND WOOLLEN AND WORSTED PIECE GOODS, WOOLLEN CLOTHS AND WORSTED STUFFS.
Claims use since 1826.

Ser. No. 456,221. PACIFIC MILLS, Boston, Mass. Filed Oct. 15, 1942.

IDLEASE

FOR COTTON PIECE GOODS.
Claims use since Dec. 7, 1925.

Ser. No. 456,222. PACIFIC MILLS, Boston, Mass. Filed Oct. 15, 1942.

RAYACE

FOR MIXED COTTON AND RAYON PIECE GOODS.
Claims use since Mar. 21, 1935.

Ser. No. 458,230. SOULES & SOULES, Los Angeles, Calif. Filed Jan. 29, 1943.

CHATTERBOX

FOR COTTON AND RAYON FABRICS IN THE PIECE.
Claims use since Sept. 14, 1942.

Ser. No. 458,231. SOULES & SOULES, Los Angeles, Calif. Filed Jan. 29, 1943.

STROLL ALONG

FOR COTTON AND RAYON FABRICS IN THE PIECE.
Claims use since Sept. 14, 1942.

CLASS 43

THREAD AND YARN

Ser. No. 457,947. CENTRAL YARN COMPANY, INC., Brooklyn, N. Y. Filed Jan. 16, 1943.

SWEETHEART

FOR HAND KNITTING YARN.
Claims use since Jan. 4, 1943.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 454,372. OSCAR HAYES, doing business as Atlas Laboratories, Akron, Ohio. Filed July 21, 1942.

RANDL KIT

The word "Kit" is disclaimed apart from the mark.
FOR KITS OR PACKAGES CONTAINING PROPHYLACTIC RUBBER ARTICLES FOR THE PREVENTION OF CONTAGIOUS DISEASES AND A TUBE OF LUBRICANT THEREFOR.
Claims use since November, 1939.

CLASS 45

BEVERAGES, NONALCOHOLIC

Ser. No. 430,375. BIRELEY'S, INC., Hollywood, Calif. Filed Apr. 4, 1940.

VINE ADE

The term "Ade" is disclaimed apart from the mark.
FOR GRAPE BEVERAGES AND CONCENTRATES FOR MAKING THE SAME.
Claims use since Mar. 13, 1940.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 446,274. MATHIAS KLEITSCH, doing business as Kleitsch Bakery, Detroit, Mich. Filed Aug. 15, 1941.

HEALTH O' VIGOR

The word "Health" is disclaimed apart from the mark.
FOR BREAD.
Claims use since July 8, 1941.

Ser. No. 449,990. GENERAL MILLS, INC., Minneapolis, Minn. Filed Jan. 5, 1942.

HEART OF KANSAS

Applicant disclaims the word "Kansas" apart from the mark.
FOR FLOUR—NAMELY, WHEAT FLOUR.
Claims use since 1929.

Ser. No. 457,528. NORTHWESTERN YEAST COMPANY, Chicago, Ill. Filed Dec. 19, 1942.

MAGIC YEAST

The word "Yeast" is disclaimed apart from the mark. The drawing is lined for red, blue, and yellow.
FOR YEAST.
Claims use since Aug. 17, 1942; and since Oct. 25, 1883, for the word "Magic" and design of an owl.

Ser. No. 457,690. CHARLES BANKS STOUT, Memphis, Tenn. Filed Dec. 31, 1942.

VIRGINIA QUEEN

The word "Virginia" is not claimed apart from the mark.
FOR WHEAT FLOUR.
Claims use since 1937.

Ser. No. 457,975. HIGHCROFT ORCHARD, Ashland, Oreg. Filed Jan. 18, 1943.



The representation of the pear is disclaimed apart from the mark.
FOR FRESH PEARS.
Claims use since Oct. 15, 1942.

Ser. No. 458,006. AMERICAN MAIZE-PRODUCTS COMPANY, New York, N. Y. Filed Jan. 19, 1943.

FLUF-TEX

Applicant is the owner of trade-mark registration No. 333,058, registered Mar. 10, 1936.
FOR PUDDING MIX COMPRISING CORN STARCH.
Claims use since Dec. 8, 1942.

Ser. No. 458,126. SUN-MAID RAISIN GROWERS OF CALIFORNIA, Fresno, Calif. Filed Jan. 23, 1943.

"Amber Beauty"

The word "Amber" is disclaimed apart from the mark.
FOR RAISINS.
Claims use since May 27, 1931.

Ser. No. 458,485. SANIB CORPORATION, New York, N. Y. Filed Feb. 11, 1943.

SANIB

FOR DRIED BANANAS.
Claims use since Feb. 5, 1943.

CLASS 47

WINES

Ser. No. 455,458. PASTENE WINE & SPIRITS CO., INC., Boston, Mass. Filed Sept. 10, 1942.

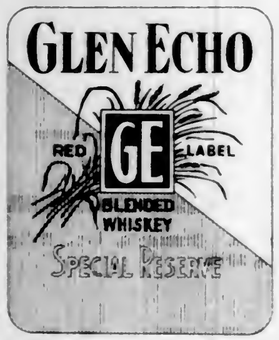


FOR WINES.
Claims use since Nov. 1, 1941.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 450,091. DISTILLERS WAREHOUSE, INC., St. Louis, Mo. Filed Jan. 9, 1942.



The words "Blended Whiskey" and "Special Reserve," are disclaimed apart from the mark. No claim is made to exclusive use of a red label per se.
FOR WHISKEY.
Claims use since Oct. 28, 1941.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 449,626. THE ODOSIN CORPORATION, New York, N. Y. Filed Dec. 19, 1941.

Odolure

FOR HOUSING-LIKE DEVICES OR ENCLOSURES FOR EXPOSING POISONOUS OR ENTRAPPING SUBSTANCES TO VERMIN AND INSECTS AND FOR TRAPPING VERMIN AND INSECTS INTERNALLY THEREOF.
Claims use since Sept. 23, 1941.

Ser. No. 455,298. COTAN CORPORATION, Newark, N. J. Filed Sept. 3, 1942.

CO-NOVA

FOR COATED TEXTILE FABRICS.
Claims use since May 14, 1941.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

APRIL 6, 1943

400,814. MEDICINAL SALINE PREPARATION FOR INTERNAL HUMAN USE AS A LAXATIVE OR FOR A SIMILAR PURPOSE. J. C. ENO (U. S.), LIMITED, New York, N. Y.

Filed December 9, 1939. Serial No. 426,402. PUBLISHED DECEMBER 24, 1940. Class 6.

400,815. TOOLS—NAMELY, HAND TOOLS, POWER TOOLS AND ACCESSORIES THEREOF AND JIGS AND DIES FOR USE IN THE MANUFACTURE OF AUTOMOBILES, AIRPLANES, TRACTORS, FARM IMPLEMENT MACHINERY, AND PARTS THEREFOR. INTERNATIONAL UNION, UNITED AUTOMOBILE WORKERS OF AMERICA, AFFILIATED WITH THE CONGRESS OF INDUSTRIAL ORGANIZATIONS, Detroit, Mich.

Filed March 20, 1940. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 429,774. PUBLISHED JANUARY 26, 1943. Class 23.

400,816. CROCHET HOOKS AND KNITTING NEEDLES FOR HAND USE. HAMILTON C. BATES, doing business as C. J. Bates & Son, Chester, Conn., assignor to C. J. Bates & Son, Chester, Conn., a firm composed of Hamilton C. Bates, Wells C. Bates, and Hamilton C. Bates, Jr.

Filed September 3, 1940. Serial No. 435,602. PUBLISHED NOVEMBER 26, 1940. Class 40.

400,817. LEAD PENCILS AND PENCIL LEADS. AMERICAN LEAD PENCIL COMPANY, New York, N. Y.

Filed December 7, 1940. Serial No. 438,601. PUBLISHED JANUARY 26, 1943. Class 37.

400,818. BEER. TIVOLI BREWING COMPANY, Detroit, Mich.

Filed April 12, 1941. Serial No. 442,541. PUBLISHED JANUARY 26, 1943. Class 48.

400,819. CLAMPS FOR TEMPORARILY HOLDING SHEET METAL AND ANALOGOUS MEMBERS TOGETHER WHILE THEY ARE IN THE PROCESS OF BEING PERMANENTLY SECURED. GEORGE YATES, doing business as Yates Manufacturing Company, Glendale, Calif.

Filed May 6, 1941. Serial No. 443,315. PUBLISHED JANUARY 12, 1943. Class 23.

400,820. TONIC LAXATIVE COMPOUND FOR CONSTIPATION AND ATTENDANT ILLS, BILIOUSNESS, GAS, SOURNESS, DIZZINESS, COATED TONGUE, STOMACH, LIVER AND KIDNEY DISORDERS DUE TO CONSTIPATION. ALTON P. DURHAM, doing business as Herb Products Company, Anderson, S. C.

Filed July 11, 1941. Serial No. 445,260. PUBLISHED JANUARY 19, 1943. Class 6.

400,821. FISHING TACKLE — NAMELY, FISHING RODS, LINES, AND LURES. THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio.

Filed November 1, 1941. Serial No. 448,318. PUBLISHED JANUARY 26, 1943. Class 22.

400,822. EXPANDED SLAG AGGREGATE. THE CELOTEX CORPORATION, Chicago, Ill.

Filed November 5, 1941. Serial No. 448,407. PUBLISHED JANUARY 26, 1943. Class 1.

400,823. WOMEN'S SPORTSWEAR COMPRISING DRESSES, SKIRTS, SUITS, AND BLOUSES. PEGGIE SEARS, Binghamton, N. Y., assignor to Floyd A. Sears, Binghamton, N. Y.

Filed November 10, 1941. Serial No. 448,529. PUBLISHED JANUARY 19, 1943. Class 39.

400,824. LONG HANDLED IMPLEMENTS HAVING A POINT AND HOOK AT ONE END FOR MANIPULATING LOGS IN AN OPEN FIREPLACE. JAMES HOPKINS SMITH, Portland, Maine.

Filed November 17, 1941. Serial No. 448,710. PUBLISHED JANUARY 19, 1943. Class 23.

400,825. GRAVITY SUCTION OR PUMP OPERATED VACUUM CLEANERS FOR SWIMMING POOLS. STANDARD POOL CLEANER COMPANY, Canton, Ohio.

Filed November 27, 1941. Serial No. 448,989. PUBLISHED JANUARY 19, 1943. Class 23.

400,826. COUGH SYRUP AND EXPECTORANT. PREMO PHARMACEUTICAL LABORATORIES, INC., New York, N. Y.

Filed November 28, 1941. Serial No. 449,018. PUBLISHED JANUARY 26, 1943. Class 6.

400,827. WOMEN'S AND MISSES' BLOUSES, SWEATERS, DRESSES, COATS, SUITS, OUTER SKIRTS, HATS, SCARFS, ETC. BONWIT TELLER, INC., New York, N. Y.

Filed December 23, 1941. Serial No. 449,719. PUBLISHED JANUARY 19, 1943. Class 39.

400,828. DIES, JIGS, CARTRIDGE LOADING MACHINES AND PUNCHES OF VARIOUS SHAPES TO BE SET UP IN PRESSES FOR STAMPING OUT PARTS ON A MASS PRODUCTION BASIS. VEIT & YOUNG, Philadelphia, Pa.

Filed December 30, 1941. Serial No. 449,871. PUBLISHED JANUARY 19, 1943. Class 23.

400,829. SWEATERS, OUTER SHIRTS, AND TROUSERS FOR MEN. WILSON MANUFACTURING CORP., New York, N. Y.

Filed December 30, 1941. Serial No. 449,872. PUBLISHED JANUARY 19, 1943. Class 39.

400,830. BROOMS. STANLEY HOME PRODUCTS, INC., Westfield, Mass.

Filed January 6, 1942. Serial No. 450,032. PUBLISHED JUNE 2, 1942. Class 29.

400,831. BRASSIÈRES, CORSETS, AND LADIES' NIGHTGOWNS. XANA INC., New York, N. Y.

Filed January 6, 1942. Serial No. 450,040. PUBLISHED APRIL 7, 1942. Class 39.

400,832. WALNUTS IN THEIR NATURAL STATE. FLORENCE L. K. LING, doing business as Ling Ranch, San Jose, Calif.

Filed January 19, 1942. Serial No. 450,313. PUBLISHED MAY 12, 1942. Class 46.

400,833. MEDICINAL PREPARATION FOR THE REMOVAL OF INTERNAL PARASITES IN SHEEP, GOATS, AND SWINE. FERD STAFFEL CO., San Antonio, Tex.

Filed January 20, 1942. Serial No. 450,348. PUBLISHED MARCH 31, 1942. Class 6.

400,834. SAWS. HENRY DISSTON & SONS, INCORPORATED, Philadelphia, Pa.

Filed February 4, 1942. Serial No. 450,733. PUBLISHED JANUARY 12, 1943. Class 23.

400,835. SULPHURIC ACID, ELECTROLYTE, AND JAR FINISHING SOLUTION FOR USE ON RUBBER BATTERY CONTAINERS USED FOR EXAMPLE FOR ERASING STAINS AND DISCOLORATIONS. PHILCO CORPORATION, Philadelphia, Pa.

Filed February 13, 1942. Serial No. 450,941. PUBLISHED JANUARY 19, 1943. Class 6.

400,836. TAPPING ATTACHMENTS, MULTIPLE TAPPING HEADS, AND TAPPING MACHINES INCLUDING PARTS THEREOF. ETTCO TOOL CO. INC., Brooklyn, N. Y.

Filed March 27, 1942. Serial No. 451,930. PUBLISHED JANUARY 26, 1943. Class 23.

400,837. CHEMICAL SOLVENT COMPOUNDS USED IN SERVICING POWER EQUIPMENT — NAMELY, CLEANERS FOR ENGINES, HEAT EXCHANGERS, CONDENSERS, ETC. MARITIME CHEMICAL & REPAIR CORPORATION, Brooklyn, N. Y.

Filed April 1, 1942. Serial No. 452,077. PUBLISHED JANUARY 19, 1943. Class 6.

400,838. DENTIFRICE AND MOUTH POWDER. ACME LABORATORIES, INC., Chicago, Ill.

Filed April 8, 1942. Serial No. 452,209. PUBLISHED AUGUST 11, 1942. Class 6.

400,839. WHEAT FLOUR. J. J. ROGERS & SONS, Tupelo, Miss.

Filed April 20, 1942. Serial No. 452,459. PUBLISHED JULY 21, 1942. Class 46.

400,840. LIGNIN PLASTIC MOLDING MATERIALS IN POWDER AND SHEET FORM. MASONITE CORPORATION, Chicago, Ill.

Filed May 2, 1942. Serial No. 452,750. PUBLISHED AUGUST 18, 1942. Class 1.

400,841. SPRING OPERATED MECHANISM FOR CONTROLLING THE OPERATION OF MATERIAL HANDLING EQUIPMENT. MCCAFFREY RUDDOCK TAGLINE CORPORATION, Los Angeles, Calif.

Filed May 6, 1942. Serial No. 452,833. PUBLISHED JANUARY 12, 1943. Class 23.

400,842. MOTION PICTURE SCREENS. DA-LITE SCREEN COMPANY, INC., Chicago, Ill.

Filed June 18, 1942. Serial No. 453,733. PUBLISHED JANUARY 26, 1943. Class 26.

400,843. PYROMETER ATTACHMENTS — NAMELY, THERMOCOUPLE PROTECTING TUBES. ELEMATIC CORPORATION, Blue Island, Ill.

Filed June 29, 1942. Serial No. 453,935. PUBLISHED JANUARY 26, 1943. Class 26.

400,844. MEN'S OUTER SHIRTS. SAKS & COMPANY, New York, N. Y.

Filed July 10, 1942. Serial No. 454,148. PUBLISHED JANUARY 5, 1943. Class 39.

400,845. PRECISION BALANCES. SEEDERER-KOHLBUSCH, INC., Jersey City, N. J.

Filed July 10, 1942. Serial No. 454,149. PUBLISHED JANUARY 26, 1943. Class 26.

400,846. PORTABLE ADJUSTABLE SCAFFOLD. PACIFIC ENGINEERING CORPORATION, Los Angeles, Calif.

Filed July 13, 1942. Serial No. 454,198. PUBLISHED JANUARY 12, 1943. Class 23.

400,847. MEN'S AND WOMEN'S JUTE OR HEMP SOLED FABRIC SHOES. S. A. FABRICA ARGENTINA DE ALPARGATAS, Buenos Aires, Argentina.

Filed July 23, 1942. Serial No. 454,465. PUBLISHED JANUARY 26, 1943. Class 39.

400,848. BEER. BURTON PRODUCTS, INC., Paterson, N. J.

Filed August 4, 1942. Serial No. 454,711. PUBLISHED JANUARY 26, 1943. Class 48.

400,849. DRESSES FOR CHILDREN, RANGING IN SIZE FROM 1 TO 12 YEARS OF AGE, BOTH INCLUSIVE. EDITH D. TOBIN, doing business as Jack Tobin, Philadelphia, Pa.

Filed August 7, 1942. Serial No. 454,785. PUBLISHED NOVEMBER 24, 1942. Class 39.

400,850. SHOES FOR WOMEN, MISSES, AND GROWING GIRLS, MADE FROM LEATHER, FABRIC, OR COMBINATIONS OF THESE MATERIALS. THE SELBY SHOE COMPANY, Portsmouth, Ohio.

Filed August 28, 1942. Serial No. 455,167. PUBLISHED NOVEMBER 3, 1942. Class 39.

400,851. OZONE GENERATOR DESIGNED TO STERILIZE WATER AND OTHER MATERIALS. LANE-WELLS COMPANY, doing business as Technicraft Engineering Company, Los Angeles, Calif.

Filed August 29, 1942. Serial No. 455,192. PUBLISHED JANUARY 26, 1943. Class 21.

400,852. HAND CLEANSER. IRENE BLAKE COSMETICS, INC., also doing business as Irene Blake, New York, N. Y.

Filed September 17, 1942. Serial No. 455,586. PUBLISHED JANUARY 26, 1943. Class 4.

400,853. HAND PUMPS, CYLINDERS, SPRAY PUMPS, SPRAY NOZZLES, PUMP ACCESSORIES, INCLUDING AIR CHAMBERS, FOOT VALVES, AND CHECK VALVES. THE DEMINO COMPANY, Salem, Ohio.

Filed September 23, 1942. Serial No. 455,716. PUBLISHED JANUARY 12, 1943. Class 23.

400,854. SHEET METAL BARRELS, SHEET METAL DRUMS, AND SHEET METAL PAILS. THE PETROLEUM IRON WORKS COMPANY, INC., Hubbard Township, Trumbull County, Ohio, and Sharon, Pa.

Filed September 30, 1942. Serial No. 455,869. PUBLISHED JANUARY 26, 1943. Class 2.

400,855. SHEET METAL BARRELS, SHEET METAL DRUMS, SHEET METAL TANKS, AND SHEET METAL PAILS. THE PETROLEUM IRON WORKS COMPANY, INC., Hubbard Township, Trumbull County, Ohio, and Sharon, Pa.

Filed September 30, 1942. Serial No. 455,870. PUBLISHED JANUARY 26, 1943. Class 2.

400,856. CRYSTALS USED FOR REMOVING SOOT, CARBON SCALE, SLAG AND THE LIKE. WALTERS "OXI" CORPORATION, Gary, Ind.

Filed September 30, 1942. Serial No. 455,877. PUBLISHED JANUARY 19, 1943. Class 6.

400,857. MEN'S GABARDINE SHIRTS, MEN'S SPORT SHIRTS, MEN'S SLACKS, MEN'S ENSEMBLE SUITS COMPRISING SLACKS AND MATCHING SHIRT; AND MEN'S SPORT JACKETS. BLOCH-HELLER COMPANY, Minneapolis, Minn.

Filed October 2, 1942. Serial No. 455,902. PUBLISHED JANUARY 26, 1943. Class 39.

400,858. WALLETS AND BILLFOLDS. PIONEER SUSPENDER COMPANY, Philadelphia, Pa.

Filed October 2, 1942. Serial No. 455,929. PUBLISHED JANUARY 26, 1943. Class 3.

400,859. CEMENT FOR ADHERING SHOE PARTS TOGETHER. MID-WEST SHOE SUPPLIES COMPANY, St. Louis, Mo.

Filed October 3, 1942. Serial No. 455,951. PUBLISHED JANUARY 26, 1943. Class 5.

400,860. WOMEN'S AND GIRLS' SWEATERS. RENART SPORTSWEAR CORP., New York, N. Y.

Filed October 3, 1942. Serial No. 455,958. PUBLISHED JANUARY 26, 1943. Class 39.

400,861. LADIES' AND MISSES' DRESSES AND APRONS. SAMUEL J. GOLDFARB, New York, N. Y.

Filed October 9, 1942. Serial No. 456,099. PUBLISHED JANUARY 12, 1943. Class 39.

400,862. LADIES' AND MISSES' DRESSES AND SUITS. ALEXANDER S. GROSS & BRO., New York, N. Y.

Filed October 10, 1942. Serial No. 456,119. PUBLISHED JANUARY 26, 1943. Class 39.

400,863. HOSTESS GOWNS. SYLVIA ORIGINALS, New York, N. Y.

Filed October 14, 1942. Serial No. 456,207. PUBLISHED JANUARY 12, 1943. Class 39.

400,864. WORK RETAINING CLAMPS, PARTICULARLY C-CLAMPS INCLUDING THOSE OF THE QUICK-ACTING TYPE. GRAND SPECIALTIES COMPANY, Chicago, Ill.

Filed October 16, 1942. Serial No. 456,239. PUBLISHED DECEMBER 22, 1942. Class 23.

400,865. MEN'S HATS. BOYD-RICHARDSON COMPANY, St. Louis, Mo.
Filed October 21, 1942. Serial No. 456,302. PUBLISHED JANUARY 26, 1943. Class 39.

400,866. JUNIORS', MISSES', AND WOMEN'S COATS AND SUITS. HILLER BROS. & HILLER, INC., New York, N. Y.
Filed October 24, 1942. Serial No. 456,390. PUBLISHED JANUARY 5, 1943. Class 39.

400,867. LIGHT WEIGHT HOT WEATHER MEN'S AND BOYS' HATS MADE OF OPEN WEAVE STRAW, PAPER, OR TEXTILE FABRIC. INTERNATIONAL HAT COMPANY, St. Louis, Mo.
Filed October 26, 1942. Serial No. 456,423. PUBLISHED JANUARY 19, 1943. Class 39.

400,868. CLEANSER FOR WOOD, METALS, GLASS, NATURAL AND ARTIFICIAL LEATHERS, FABRICS MADE FROM NATURAL AND ARTIFICIAL FIBRES, PORCELAIN, STONE, PAINTED SURFACES, AND LINOLEUM. BEACON CHEMICAL CORPORATION, Philadelphia, Pa.
Filed October 28, 1942. Serial No. 456,486. PUBLISHED JANUARY 26, 1943. Class 4.

400,869. COSMETIC OR NAIL CLEANSING TREATMENT OR FINGER TIP MOULDING TREATMENT. GYPSY LILLARD AGER, Peru, Ind.
Filed October 29, 1942. Serial No. 456,502. PUBLISHED JANUARY 19, 1943. Class 6.

400,870. TYPEWRITER TABLES. THE GRASTEN COMPANY, San Diego, Calif.
Filed October 30, 1942. Serial No. 456,531. PUBLISHED JANUARY 26, 1943. Class 32.

400,871. BUTTON AND BUTTONHOLE TAPE. VOGUE PLACKET CO., New York, N. Y.
Filed October 30, 1942. Serial No. 456,547. PUBLISHED JANUARY 19, 1943. Class 40.

400,872. DISCS, WHEELS, TABLETS, AND STICKS MADE OF ABRASIVE IMPREGNATED RUBBER COMPOUND ADAPTED FOR METAL POLISHING AND CLEANING OPERATIONS. WELDON ROBERTS RUBBER CO., Newark, N. J.
Filed October 30, 1942. Serial No. 456,548. PUBLISHED JANUARY 26, 1943. Class 4.

400,873. DISCS, WHEELS, TABLETS, AND STICKS MADE OF ABRASIVE IMPREGNATED RUBBER COMPOUND ADAPTED FOR METAL POLISHING AND CLEANING OPERATIONS. WELDON ROBERTS RUBBER CO., Newark, N. J.
Filed October 30, 1942. Serial No. 456,549. PUBLISHED JANUARY 26, 1943. Class 4.

400,874. WIRE TWISTING TOOL. JACK & HEINTZ, INC., Bedford, Ohio.
Filed November 2, 1942. Serial No. 456,603. PUBLISHED JANUARY 19, 1943. Class 23.

400,875. WIRE TWISTING TOOL. JACK & HEINTZ, INC., Bedford, Ohio.
Filed November 2, 1942. Serial No. 456,604. PUBLISHED JANUARY 19, 1943. Class 23.

400,876. LIQUID PREPARATION FOR USE IN TREATING SKIN INFECTIONS. HENRY M. PREACHER, doing business as Scott Drug Company, Kingstree, S. C.
Filed November 3, 1942. Serial No. 456,630. PUBLISHED JANUARY 19, 1943. Class 6.

400,877. BOTTOM BOARDS FOR FOUNDRY USE. JOHNS-MANVILLE CORPORATION, New York, N. Y.
Filed November 4, 1942. Serial No. 456,637. PUBLISHED JANUARY 26, 1943. Class 50.

400,878. APPARATUS FOR THE TREATMENT OF SOLIDS SUSPENDED IN LIQUIDS AND MORE PARTICULARLY FOR SEWAGE SLUDGE TREATING SYSTEMS WHICH INCLUDE APPARATUS OR EQUIPMENT SUCH AS THICKENERS OR CLARIFIERS AND/OR DIGESTERS AS WELL AS TRAY DIGESTORS. THE DORR COMPANY, INC., New York, N. Y.
Filed November 5, 1942. Serial No. 456,652. PUBLISHED JANUARY 26, 1943. Class 23.

400,879. WOMEN'S AND MISSES' LINGERIE—NAMELY, SLIPS, NIGHTGOWNS, PANTIES, PAJAMAS, AND CHEMISES. SUSSBERG & FEINBERG, INC., New York, N. Y.
Filed November 5, 1942. Serial No. 456,663. PUBLISHED JANUARY 19, 1943. Class 39.

400,880. TINNING AND SOLDERING COMPOUND. TIN-KOTE LABORATORIES, Revere, Mass.
Filed November 6, 1942. Serial No. 456,676. PUBLISHED JANUARY 19, 1943. Class 6.

400,881. BATH, BEACH, AND LOUNGING ROBES FOR MEN, WOMEN, AND CHILDREN. BLUE RIDGE SPREAD COMPANY, Dalton, Ga.
Filed November 9, 1942. Serial No. 456,709. PUBLISHED JANUARY 26, 1943. Class 39.

400,882. GAUGES AND INSTRUMENTS FOR EFFECTING OR CONTROLLING ALL LINEAR AND ANGULAR MEASURES; MEDICAL THERMOMETERS. LES FABRIQUES D'ASSORTIMENTS RÉUNIES, Le Locle, Switzerland.
Filed November 9, 1942. Serial No. 456,718. PUBLISHED JANUARY 26, 1943. Class 26.

400,883. METAL STRIP OR SHEET MATERIAL COMPRISING FERROUS METAL CLAD WITH NONFERROUS METAL ON ONE OR BOTH SIDES THEREOF. SUPERIOR STEEL CORPORATION, Carnegie and Pittsburgh, Pa.
Filed November 10, 1942. Serial No. 456,734. PUBLISHED JANUARY 26, 1943. Class 14.

400,884. LADIES' AND MISSES' COATS, SUITS, JACKETS, SKIRTS, AND COAT AND SUIT ENSEMBLES. MORRIS W. HAFT & BROTHERS, New York, N. Y.
Filed November 11, 1942. Serial No. 456,740. PUBLISHED JANUARY 12, 1943. Class 39.

400,885. FEEDS FOR LIVESTOCK AND POULTRY. KENTUCKY CHEMICAL INDUSTRIES, INC., Cincinnati, Ohio.
Filed November 11, 1942. Serial No. 456,742. PUBLISHED JANUARY 26, 1943. Class 46.

400,886. LADIES' AND MISSES' DRESSES. DAVID E. GOTTLIEB INC., New York, N. Y.
Filed November 12, 1942. Serial No. 456,772. PUBLISHED JANUARY 12, 1943. Class 39.

400,887. COLOGNE. LUCIEN LELONG INC., Chicago, Ill.
Filed November 12, 1942. Serial No. 456,777. PUBLISHED JANUARY 26, 1943. Class 6.

400,888. OINTMENT FOR USE IN THE TREATMENT OF ITCHING SKIN, A NERVE SEDATIVE, DIURETIC PILLS, LAXATIVE PILLS, AND ANTI-ACID TABLETS. RAY L. SAWYERS, doing business as Bombé Products, Kansas City, Mo.
Filed November 12, 1942. Serial No. 456,779. PUBLISHED JANUARY 26, 1943. Class 6.

400,889. CHROME-IRON-ALUMINUM ALLOYS IN VARIOUS FORMS. DRIVER-HARRIS COMPANY, Harrison, N. J.
Filed November 13, 1942. Serial No. 456,790. PUBLISHED JANUARY 26, 1943. Class 14.

400,890. LIQUID WOOD PRESERVATIVE USED AS A FUNGICIDE AND AN INSECTICIDE. CARBOLINEUM WOOD PRESERVING CO., Milwaukee, Wis.
Filed November 16, 1942. Serial No. 456,843. PUBLISHED JANUARY 26, 1943. Class 6.

400,891. HOSIERY. MUNSINGWEAR, INC., Minneapolis, Minn.
Filed November 16, 1942. Serial No. 456,854. PUBLISHED JANUARY 19, 1943. Class 39.

400,892. WALLETS, PASS CASES, LETTER CASES, KEY CASES, AND LETTER PORTFOLIOS MADE OF LEATHER. THE SAMUEL WEINHAUS COMPANY, INC., Pittsburgh, Pa.
Filed November 17, 1942. Serial No. 456,879. PUBLISHED JANUARY 26, 1943. Class 3.

400,893. MEDICINAL PREPARATION FOR USE IN THE PREVENTION AND TREATMENT OF UTERINE HEMORRHAGES AND OTHER RECOGNIZED INDICATIONS FOR ERGONOVINE THERAPY. SANDOZ CHEMICAL WORKS, INC., New York, N. Y.
Filed November 18, 1942. Serial No. 456,905. PUBLISHED JANUARY 19, 1943. Class 6.

400,894. PENTAVALENT ANTIMONY PREPARATION FOR THE TREATMENT OF LEISHMANIASIS. WINTHROP CHEMICAL COMPANY, INC., New York, N. Y.
Filed November 18, 1942. Serial No. 456,911. PUBLISHED JANUARY 26, 1943. Class 6.

400,895. NARCOTIC PREPARATION USED AS AN ANALGESIC AND SOPORIFIC. ENDO PRODUCTS INC., New York, N. Y.
Filed November 19, 1942. Serial No. 456,921. PUBLISHED JANUARY 19, 1943. Class 6.

400,896. SAFETY RAZORS. GILLETTE SAFETY RAZOR COMPANY, Boston, Mass.
Filed November 19, 1942. Serial No. 456,922. PUBLISHED JANUARY 12, 1943. Class 23.

400,897. PREPARATION FOR THE TREATMENT OF ATHLETE'S FOOT AND OTHER INFECTIONS OF THE SKIN. DUETT INC., Cincinnati, Ohio.
Filed November 20, 1942. Serial No. 456,937 PUBLISHED JANUARY 26, 1943. Class 6.

400,898. LADIES' PANTIES. A. H. SCHREIBER CO., New York, N. Y.
Filed November 21, 1942. Serial No. 456,963. PUBLISHED JANUARY 26, 1943. Class 39.

400,899. TRANSMISSION BELTING, CONVEYOR BELTING, ELEVATOR BELTING, STRAPPING FOR MECHANICAL USE, AND NONMETALLIC WASHERS. TON-TEX CORPORATION, Grand Rapids, Mich., and New York, N. Y.
Filed November 23, 1942. Serial No. 456,992. PUBLISHED JANUARY 26, 1943. Class 35.

400,900. NECKTIES. FRANC-STROHMENGER & COWAN, INC., Troy, N. Y.
Filed November 24, 1942. Serial No. 457,006. PUBLISHED JANUARY 26, 1943. Class 39.

400,901. HOSIERY FOR MEN, WOMEN, AND CHILDREN. COURTAULDS, LIMITED, London, England.
Filed November 25, 1942. Serial No. 457,031. PUBLISHED JANUARY 26, 1943. Class 39.

400,902. HEMATINIC TONIC CONTAINING IRON SULPHATE AND THIAMINE CHLORIDE. THE CHICAGO PHARMACAL COMPANY, Chicago, Ill.
Filed November 27, 1942. Serial No. 457,076. PUBLISHED JANUARY 19, 1943. Class 6.

400,903. VITAMIN PREPARATION. FIRST TEXAS CHEMICAL MANUFACTURING CO., Dallas, Tex.
Filed November 27, 1942. Serial No. 457,077. PUBLISHED JANUARY 19, 1943. Class 6.

400,904. LOOM SUPPLIES—NAMELY, PICKERS. E. H. JACOBS MANUFACTURING CO., INC., Danielson, Conn.
Filed November 28, 1942. Serial No. 457,091. PUBLISHED JANUARY 19, 1943. Class 23.

400,905. DISHES MADE OF PLASTIC MATERIAL. QUALITY PREMIUM DISTRIBUTORS, Philadelphia, Pa.
Filed November 28, 1942. Serial No. 457,105. PUBLISHED JANUARY 26, 1943. Class 2.

400,906. MEDICINAL VITAMIN PREPARATIONS. AMERICAN HOME PRODUCTS CORPORATION, Jersey City, N. J.
Filed November 30, 1942. Serial No. 457,109. PUBLISHED JANUARY 19, 1943. Class 6.

400,907. LADIES' AND MISSES' COATS, SUITS, JACKETS, SKIRTS, AND COAT AND SUIT ENSEMBLES. MORRIS W. HAFT & BROTHERS, New York, N. Y.
Filed November 30, 1942. Serial No. 457,120. PUBLISHED JANUARY 26, 1943. Class 39.

400,908. BURIAL VAULTS, MAUSOLEUMS, AND BURIAL CASKET CONTAINERS. EDWIN F. NICKOL, INC., Versailles, Ohio.
Filed November 30, 1942. Serial No. 457,139. PUBLISHED JANUARY 26, 1943. Class 2.

400,909. PHARMACEUTICAL PREPARATIONS USEFUL AS BACTERICIDES AND AS ANTISEPTICS AND FOR THE TREATMENT AND PREVENTION OF INFECTIONS OF THE GASTRO-INTESTINAL TRACT, ETC. SHARP & DOHME, INCORPORATED, Philadelphia, Pa.
Filed December 1, 1942. Serial No. 457,158. PUBLISHED JANUARY 26, 1943. Class 6.

400,910. CIGARETTE LIGHTER FLUID. YORK PHARMACAL COMPANY, St. Louis, Mo.
Filed December 2, 1942. Serial No. 457,181. PUBLISHED JANUARY 26, 1943. Class 6.

400,911. INSECTICIDE. WILLIAM A. SHULL, doing business as The Velvetta Mfg. Co., Philadelphia, Pa.
Filed December 2, 1942. Serial No. 457,174. PUBLISHED JANUARY 26, 1943. Class 6.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

400,912. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) EQUIPMENT MANUFACTURING INC., Detroit, Mich. Filed July 24, 1941. Serial No. 445,602.

SPEED

FOR ELECTRIC BATTERY CHARGERS AND PARTS THEREOF.
Claims use since June 23, 1941.

400,913. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) EQUIPMENT MANUFACTURING INC., Detroit, Mich. Filed July 24, 1941. Serial No. 445,603.

SPEED BATTERY CHARGER

FOR ELECTRIC BATTERY CHARGERS AND PARTS THEREOF.
Claims use since June 23, 1941.

400,914. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LEON W. CHUMLEA, doing business as Associated Laboratories, Lebanon, Ind. Filed Oct. 31, 1941. Serial No. 448,281.

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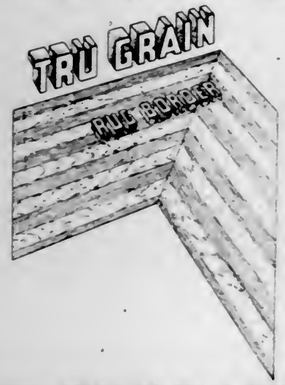
FOR CHEMICAL SOLUTION FOR TREATING FOWLS TO FACILITATE PLUCKING.
Claims use since June 6, 1941.

400,915. (CLASS 37. PAPER AND STATIONERY.) HOLLY MOLDING DEVICES, Chicago, Ill. Filed Dec. 8, 1941. Serial No. 449,279.

ESQUIRE

FOR SHEETS OF WAXED PAPER FOR MEAT AND OTHER FOODS.
Claims use since Nov. 18, 1941.

400,916. (CLASS 20. LINOLEUM AND OILED CLOTH.) CARTHAGE MILLS INCORPORATED, Cincinnati, Ohio. Filed Jan. 22, 1942. Serial No. 450,391.



FOR PRINTED FELT-BASE FLOOR COVERING.
Claims use since Nov. 28, 1941.

400,917. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WARWICK CHEMICAL COMPANY, West Warwick, R. I. Filed Feb. 25, 1942. Serial No. 451,217.

NOROT

FOR CHEMICALS FOR FINISHING TEXTILE FABRICS TO RENDER THEM RESISTANT TO MILDEW OR SIMILAR PARASITICAL OR BIOLOGICAL ATTACHMENT.
Claims use since Feb. 15, 1942.

400,918. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) SWANSON BROS., INC., doing business as Eureka Tea Company, Chicago, Ill. Filed Feb. 28, 1942. Serial No. 451,325.

ALL-LITE

FOR FLUORESCENT ELECTRIC LAMPS.
Claims use since Feb. 19, 1920.

400,919. (CLASS 12. CONSTRUCTION MATERIALS.) SUMMERBELL ROOF STRUCTURES, Los Angeles, Calif. Filed Mar. 9, 1942. Serial No. 451,515.

Summerbell

FOR ROOF TRUSSES AND LAMINATED WOODEN ARCHES.
Claims use since 1922 on roof trusses and since Feb. 1, 1942 on arches.

400,920. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) IVAR WENDT, Seattle, Wash. Filed Apr. 9, 1942. Serial No. 452,255.

PEARL HARBOR

FOR CANNED CRAB MEAT.
Claims use since Dec. 19, 1941.

400,921. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) OWEN C. WILSON, Boone, N. C. Filed Apr. 17, 1942. Serial No. 452,409.

KOLORMEET

FOR PREPARATION FOR COLORING AND PRESERVING MEAT.
Claims use since Mar. 3, 1941.

400,922. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) UNITED CHEMICAL COMPANY, INC., Kansas City, Mo Filed July 29, 1942. Serial No. 454,587.

ProSalus

FOR DISINFECTANT.
Claims use since October, 1939.

400,923. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DEFENDER PHOTO SUPPLY CO., INC., Rochester, N. Y. Filed Aug. 6, 1942. Serial No. 454,755.

Metl-seal

FOR PHOTOGRAPHIC DEVELOPING CHEMICAL.
Claims use since Dec. 29, 1940.

400,924. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ISAAC S. PURCELL, doing business as Abesto Manufacturing Company, Michigan City, Ind. Filed Sept. 25, 1942. Serial No. 455,764.

CLEARTOX

FOR CLEAR PRESERVATIVE FOR WOOD, WHICH IS A CLEAR LIQUID MATERIAL THAT PENETRATES AND PRESERVES THE WOOD.
Claims use since July 1, 1941.

400,925. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ISAAC S. PURCELL, doing business as Abesto Manufacturing Company, Michigan City, Ind. Filed Sept. 25, 1942. Serial No. 455,765.

STAINTOX

FOR WOOD STAIN PRESERVATIVE, WHICH IS A BROWN LIQUID MATERIAL THAT PENETRATES, STAINS, AND PRESERVES THE WOOD.
Claims use since July 1, 1941.

400,926. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) WHITING LEATHER & BELTING CO., New York, N. Y. Filed Jan. 19, 1943. Serial No. 458,026.

NuType

FOR LEATHER BELTING.
Claims use since Dec. 28, 1941.

TRADE-MARK REGISTRATIONS RENEWED

23,467. **PANOPEPTON.** AN ARTIFICIALLY DIGESTED FOOD OR PEPTONE. Registered August 8, 1893. FAIRCHILD BROS. & FOSTER. Re-renewed August 8, 1943, to Fairchild Bros. & Foster, New York, N. Y., a corporation of New York, successor.

23,481. **"PRIDE OF ILLINOIS" AND DRAWING.** CANNED CORN. Registered August 15, 1893. ILLINOIS CANNING CO. Re-renewed August 15, 1943, to The Illinois Canning Company, Hoopeston, Ill., a corporation of Illinois, successor.

161,132. **PIONEER.** EXCELSIOR, EXCELSIOR PRODUCTS, NAMELY—PADS, AND PARTICULARLY EXCELSIOR PADS FOR EGG PACKING. Registered November 7, 1922. EXCELSIOR WRAPPING COMPANY. Renewed November 7, 1942, to American Excelsior Corporation, Chicago, Ill., a corporation of Delaware, assignee.

161,971. **SEAKIST.** CANNED FRUITS AND CANNED VEGETABLES. Registered November 28, 1922. THE OCEAN SHORE CANNING CO., Halfmoon Bay, Calif. Renewed November 28, 1942, to Elmhurst Packers, Inc., Oakland, Calif., a corporation of California, successor.

162,757. **SIPH-O.** AUTOMATIC SIPHONS, BATH SPRAYS, FAUCET ADAPTERS, SHUT-OFF CLAMPS FOR USE WITH RUBBER TUBING, AND WATER-PRESSURE EJECTORS. Registered December 26, 1922. GEORGE VICTOR GAVAZA, doing business as The Automatic Siphon Filler Co., Beverly, and Boston, Mass. Renewed December 26, 1942, to Siph-O Products Corporation, Boston, Mass., a corporation of Massachusetts, successor.

164,495. **VENTILATED.** SULPHUR. Registered February 20, 1923. SAN FRANCISCO SULPHUR CO., San Francisco, Calif., a corporation of California. Renewed February 20, 1943.

164,668. **LAPACO.** PAINTS, ENAMELS, VARNISHES, JAPANS, STAINS, AND COLORS IN OIL. Registered February 27, 1923. LANSING PAINT AND COLOR CO., Lansing, and Lansing Township, Mich. Renewed February 27, 1943, to Lansing Paint and Color Company, Lansing, Mich., a corporation of Michigan.

164,962. **RŌTAREX.** CLOTHES WASHING AND WRINGING MACHINES, CLOTHES WASHING MACHINES, CLOTHES WRINGERS, AND IRONING MACHINES. Registered February 27, 1923. THE APEX ELECTRICAL MANUFACTURING COMPANY, Cleveland Ohio, a corporation of Ohio. Renewed February 27, 1943.

165,017. **JUSTRITE.** HANDKERCHIEFS. Registered February 27, 1923. H. ENGEL & SONS. Renewed February 27, 1943, to Arthur Engel, doing business as Century Handkerchief Company, New York, N. Y., assignee by mesne assignments.

165,394. **PIONEER.** EXCELSIOR, EXCELSIOR PRODUCTS—NAMELY, PADS, AND PARTICULARLY EXCELSIOR PADS FOR EGG PACKING. Registered March 6, 1923. EXCELSIOR WRAPPER COMPANY. Renewed March 6, 1943, to American Excelsior Corporation, Chicago, Ill., a corporation of Delaware, assignee.

165,497. **ALFA.** SULPHUR. Registered March 13, 1923. SAN FRANCISCO SULPHUR CO., San Francisco, Calif., a corporation of California. Renewed March 13, 1943.

165,603. **CYANOBRITE.** COMPOSITION OF MATTER FOR USE IN ELECTROPLATING. Registered March 13, 1923. THE ROESSLER & HASSLACHER CHEMICAL COMPANY, New York, N. Y. Renewed March 13, 1943, to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware, assignee by mesne assignments.

165,687. **SHANTEEN.** WOOLEN PIECE GOODS. Registered March 20, 1923. FORSTMANN & HUFFMANN COMPANY, assignor to Forstmann & Huffmann Company. Renewed March 20, 1943, to Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey, assignee by mesne assignments.

165,739. **"BOB ROGERSON" AND DRAWING.** A SALVE FOR THE TREATMENT OF BLOOD POISON AND A HEALING SALVE. Registered March 20, 1923. ROBERT ROGERSON. Renewed March 20, 1943, to Bob Rogerson Company, Chicago, Ill., a firm, successor.

166,226. **BEAVER.** FRESH GRAPES. Registered March 27, 1923. VICTOR FRUIT GROWERS, INC. Renewed March 27, 1943, to Victor Fruit Growers, Inc., Victor, Calif., a corporation of California, successor.

166,482. **"QUALITY COMFORT" AND DRAWING.** SEAMLESS ELASTIC HOSIERY FOR SPRAINS, VARICOSE VEINS, WEAK KNEES, WEAK ANKLES, ETC. Registered April 3, 1923. CHARLES WALTON & SON. Renewed April 3, 1943, to Charles Walton & Son, Inc., Needham Heights, Mass., a corporation of Massachusetts, successor.

166,870. **REPRESENTATION OF A RED AND WHITE LABEL.** SPAGHETTI. Registered April 17, 1923. JOSEPH CAMPBELL COMPANY. Renewed April 17, 1943, to Campbell Soup Company, Camden, N. J., a corporation of New Jersey, assignee.

166,871. **"CAMPBELL'S" AND DRAWING.** SPAGHETTI. Registered April 17, 1923. JOSEPH CAMPBELL COMPANY. Renewed April 17, 1943, to Campbell Soup Company, Camden, N. J., a corporation of New Jersey, assignee.

167,086. **MALT-A-VITA.** CONCENTRATED LIQUID MALT EXTRACTS. Registered April 24, 1923. MALT-DIASTASE COMPANY, New York, N. Y. Renewed April 24, 1943, to Malt-Diastase Company, Brooklyn, N. Y., a corporation of New York.

167,091. **P. K.** SUGAR-COATED CHEWING GUM. Registered April 24, 1923. WM. WRIGLEY JR. COMPANY. Renewed April 24, 1943, to Wm. Wrigley Jr. Company, Chicago, Ill., a corporation of Delaware, assignee.

167,096. **"LA ESPERANZA" AND DRAWING.** CIGARS. Registered April 24, 1923. M. VALLE Y CA., INC. Renewed April 24, 1943, to The American Tobacco Company, New York, N. Y., a corporation of New Jersey, assignee by mesne assignments.

167,234. **WEIGHTOMETER.** AUTOMATIC AND CONTINUOUS WEIGHING APPARATUS, RECORDING MECHANISM FOR WEIGHING MECHANISM, AND COMBINED AUTOMATIC WEIGHING AND WEIGHT-RECORDING MECHANISM. Registered April 24, 1923. MERRICK SCALE MFG. COMPANY, Passaic, N. J., a corporation of New Jersey. Renewed April 24, 1943.

168,389. **ISOLATE.** EXTRACTS FOR FOOD-FLAVORING PURPOSES FOR THE FOLLOWING FLAVORS: GRAPE, PEACH, APRICOT, PINEAPPLE, RASPBERRY, CURRANT, LOGANBERRY, STRAWBERRY, CHERRY. Registered May 22, 1923. FOOTE & JENKS. Renewed May 22, 1943, to Foote & Jenks, Inc., Jackson, Mich., a corporation of Michigan, assignee.

168,426. **RAINBOW.** TYPEWRITER RIBBONS AND CARBON PAPER. Registered May 22, 1923. COLUMBIA RIBBON & CARBON MFG. CO., New York, N. Y. Renewed May 22, 1943, to Columbia Ribbon & Carbon Manufacturing Co. Inc., Glen Cove, N. Y., a corporation of New York, assignee.

168,705. **NIBROC.** PAPER PRODUCTS—NAMELY, WRITING PAPER AND ENVELOPES, PRINT PAPER, PAPER TOWELING, CREPE PAPER, TOILET PAPER, WRAPPING PAPER, AND KRAFT PAPER. Registered May 29, 1923. BROWN COMPANY, Portland, Maine. Renewed May 29, 1943, to Brown Company, Berlin, N. H., a corporation of Maine.

168,909. **"ZEE BEE" AND DRAWING.** CERTAIN NAMED NOTIONS. Registered May 29, 1923. ZALES BROS., New York, N. Y. Renewed May 29, 1943, to S. & G. Rubber Company, Inc., Sniffern, N. Y., a corporation of New York, assignee by mesne assignments.

168,921. **"SHAMROCK" AND DRAWING.** MALT EXTRACTS. Registered May 29, 1923. MALT-DIASTASE COMPANY, New York, N. Y. Renewed May 29, 1943, to Malt-Diastase Company, Brooklyn, N. Y., a corporation of New York.

169,174. **"NORTHERN" AND DRAWING.** TOILET PAPER. Registered June 12, 1923. NORTHERN PAPER MILLS, Green Bay, Wis., a corporation of Wisconsin. Renewed June 12, 1943.

169,545. **"GROSSMITH'S OLD COTTAGE" AND DRAWING.** PERFUMED SOAP. Registered June 19, 1923. J. GROSSMITH & SON, LIMITED, London, England, a corporation of United Kingdom of Great Britain and Northern Ireland. Renewed June 19, 1943.

169,665. **"GROSSMITH'S OLD COTTAGE" AND DRAWING.** LAVENDER WATER. Registered June 26, 1923. J. GROSSMITH & SON, LIMITED, London, England, a corporation of United Kingdom of Great Britain and Northern Ireland. Renewed June 26, 1943.

169,989. **REPRESENTATION OF A MAN SEATED AND READING.** PIECE GOODS COMPOSED OF AN ADMIXTURE OF WOOL AND COTTON. Registered July 10, 1923. SAMUEL KIRK & SONS, LIMITED, Bradford, England, a corporation of United Kingdom of Great Britain and Northern Ireland. Renewed July 10, 1943.

169,990. **ASTHMA-TOL.** ASTHMA MEDICINE. Registered July 10, 1923. THE ASTHMA-TOL CO., Greer, S. C., a firm. Renewed July 10, 1943.

170,015. **"WE FOOL THE SUN."** AWNINGS AND TARPAULINS. Registered July 10, 1923. INDIANAPOLIS TENT & AWNING COMPANY, Indianapolis, Ind., a corporation of Indiana. Renewed July 10, 1943.

170,150. **WILLOWHURST.** CANNED FRUITS, CANNED VEGETABLES, DRIED FRUITS, FRUIT PRESERVES IN JARS, AND COMB-EXTRACTED HONEY. Registered July 10, 1923. PAUL R. WEIDNER, Woburn, Mass. Renewed July 10, 1943, to Paul R. Weidner, Dorchester, Mass.

170,208. **IDEAL.** CERTAIN MILLING MACHINERY. Registered July 10, 1923. B. F. GUMP CO., Chicago, Ill., a corporation of Illinois. Renewed July 10, 1943.

170,220. **"OLD DUTCH MILL" AND DRAWING.** COFFEE. Registered July 10, 1923. OLD DUTCH MILLS, INC., New York, N. Y., a corporation of New York. Renewed July 10, 1943.

170,296. **PLASCO.** LIQUID AND PASTE PAINTS. Registered July 10, 1923. PITTSBURGH PLATE GLASS COMPANY, Pittsburgh, Pa., a corporation of Pennsylvania. Renewed July 10, 1943.

170,318. **MIMAX.** A VARNISH. Registered July 10, 1923. PITTSBURGH PLATE GLASS COMPANY, Pittsburgh, Pa., a corporation of Pennsylvania. Renewed July 10, 1943.

170,590. **"THE HUMBER" AND DRAWING.** BICYCLES, TRICYCLES, MOTOR CYCLES, AND MOTOR TRUCKS AND PASSENGER AUTOMOBILES. Registered July 17, 1923. HUMBER LIMITED, Coventry, England, a corporation of Great Britain. Renewed July 17, 1943.

170,731. **JIFFY-ON.** SHOE HEELS. Registered July 24, 1923. CHAS. H. COULSON, doing business as Coulson Heel Company, Hanover, Pa. Renewed July 24, 1943.

170,768. **DOUBLE COVER.** LIQUID AND PASTE PAINTS. Registered July 24, 1923. PITTSBURGH PLATE GLASS COMPANY, Pittsburgh, Pa., a corporation of Pennsylvania. Renewed July 24, 1943.

170,770. **GRANITUM.** VARNISHES. Registered July 24, 1923. BERRY BROTHERS, Detroit, Mich., a corporation of Michigan. Renewed July 24, 1943.

170,792. **OLD DUTCH MILL.** COCOA, TEA, AND RICE. Registered July 24, 1923. OLD DUTCH MILLS, INC., New York, N. Y., a corporation of New York. Renewed July 24, 1943.

170,830. **"J. BAALMANN" AND DRAWING.** A CERTAIN NAMED MEDICINAL PREPARATION. Registered July 24, 1923. JOHN BAALMANN. Renewed July 24, 1943, to J. Baalmann Manufacturing Chemist, San Francisco, Calif., a copartnership, successor.

170,860. **MALTED NUTS.** PREPARED NUT FOOD. Registered July 24, 1923. THE BATTLE CREEK FOOD COMPANY, Battle Creek Mich., a corporation of Michigan. Renewed July 24, 1943.

171,001. **CORDUROY.** WRAPPING PAPER. Registered July 31, 1923. THE ALLING & CORY COMPANY, Rochester, N. Y., a corporation of New York. Renewed July 31, 1943.

171,019. **L & H.** ELECTRIC STOVES, HEATERS, SADIRONS, CURLING IRONS, TOASTERS, BROILERS, HOT PLATES, AND RADIATORS. Registered July 31, 1923. A. J. LINDEMANN & HOVERSON COMPANY. Renewed July 31, 1943, to A. J. Lindemann & Hoverson Company, Milwaukee, Wis., a corporation of Wisconsin, assignee by mesne assignments.

171,046. **"DAISY DOLL" AND DRAWING.** DOLLS. Registered July 31, 1923. GEORGE BORGFELDT & CO. Renewed July 31, 1943, to Geo. Borgfeldt Corporation, New York, N. Y., a corporation of New York, assignee.

171,050. **LI-MO.** SOFT DRINKS. Registered July 31, 1923. J. F. LAZIER MANUFACTURING COMPANY, INCORPORATED, St. Louis, Mo., a corporation of Missouri. Renewed July 31, 1943.

171,053. **BERMICO.** FIBER CONDUITS FOR ELECTRICAL PURPOSES. Registered July 31, 1923. BROWN COMPANY, Portland, Maine, and Berlin, N. H. Renewed July 31, 1943, to Brown Company, Berlin, N. H., a corporation of Maine.

171,082. **NOFIL.** CERTAIN NAMED ABRASIVE PAPERS AND CLOTHS. Registered July 31, 1923. H. H. BARTON & SON CO. INC., Philadelphia, Pa. Renewed July 31, 1943, to Behr-Manning Corporation, Troy, N. Y., a corporation of Massachusetts, assignee by mesne assignments.

171,086. **MICO.** TREATED AND UNTREATED TAPES FOR ELECTRICAL INSULATION PURPOSES. Registered July 31, 1923. MICA INSULATOR COMPANY, New York, N. Y., a corporation of New Jersey. Renewed July 31, 1943.

171,139. **"THE GOOD KIND" AND DRAWING.** MISCELLANEOUS GROCERIES. Registered July 31, 1923. STEELE-WEDELES CO., Chicago, Ill., a corporation of Illinois. Renewed July 31, 1943.

171,242. **SHASTA.** MEN'S DRESS AND NEGLIGEE SHIRTS, PYJAMAS, AND UNDERWEAR OF TEXTILE FABRIC. Registered July 31, 1923. WILSON BROTHERS, Chicago, Ill., a corporation of Illinois. Renewed July 31, 1943.

171,362. **HORSE SHOE BEND.** COFFEE. Registered August 7, 1923. J. F. GOODSON & COMPANY, trading as J. F. G. Coffee Co., Morristown, Tenn. Renewed August 7, 1943, to J. F. Goodson & Company, doing business as JFG Coffee Co., Knoxville, Tenn., a corporation of Tennessee.

171,436. **EL MERITO.** FRESH LEMONS. Registered August 7, 1923. SANTA PAULA CITRUS FRUIT ASSOCIATION, Santa Paula, Calif., a corporation of California. Renewed August 7, 1943.

171,452. **PICKANINNY.** PERCALES IN THE PIECE. Registered August 7, 1923. CARTER DRY GOODS CO., Louisville, Ky., a corporation of Kentucky. Renewed August 7, 1943.

171,460. **GRANGER.** HOSIERY. Registered August 7, 1923. THE POWELL KNITTING COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed August 7, 1943.

171,467. **BEACON.** HOSIERY. Registered August 7, 1923. THE POWELL KNITTING COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed August 7, 1943.

171,509. **BONDARON.** ROUND LEATHER BELTING AND FLAT LEATHER BELTING. Registered August 7, 1923. CHARLES BOND COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed August 7, 1943.

171,529. **MELTOSE.** CORN SUGAR. Registered August 7, 1923. THE BATTLE CREEK FOOD COMPANY, Battle Creek, Mich., a corporation of Michigan. Renewed August 7, 1943.

171,584. **"ROSEMARIE" AND DRAWING.** DOLLS. Registered August 7, 1923. GEORGE BORGFELDT & CO. Renewed August 7, 1943, to Geo. Borgfeldt Corporation, New York, N. Y., a corporation of New York, assignee.

171,716. **CHAS. V. PARKER CO. STORES.** WEARING APPAREL. Registered August 14, 1923. CHAS. V. PARKER CO., Harrisburg, Ill., a corporation of Illinois. Renewed August 14, 1943.

171,726. **DUVENE.** MEN'S, WOMEN'S, AND CHILDREN'S HOSE. Registered August 14, 1923. DANIEL J. HEALY. Renewed August 14, 1943, to D. J. Healy Shops, Detroit, Mich., a corporation of Michigan, assignee.

171,743. **SHAKER.** SOAP IN LIQUID, FLAKE, POWDERED AND CAKE FORM. Registered August 14, 1923. HARRIS SOAP COMPANY, Buffalo, N. Y., a corporation of New York. Renewed August 14, 1943.

171,763. **"SOUTHERN" AND DRAWING.** SAWS. Registered August 14, 1923. SOUTHERN SAW WORKS, Atlanta, Ga., a corporation of Georgia. Renewed August 14, 1943.

171,774. **RED METAL.** SHEET-METAL CHAINS. Registered August 14, 1923. THE SMITH & EGGE MANF'G. CO., Bridgeport, Conn. Renewed August 14, 1943, to The Turner & Seymour Manufacturing Company, Torrington, Conn., a corporation of Connecticut, assignee.

171,775. **"GOTHAM" AND DRAWING.** SWEATERS, SCARFS, KNITTED SUITS, KNITTED DRESSES, BATHING SUITS AND KNITTED CAPES. Registered August 14, 1923. GOTHAM KNITTING MILLS. Renewed August 14, 1943, to Gotham Knitting Mills, Inc., New York, N. Y., a corporation of New York, assignee.

171,795. **ORIENTA PEARLS.** ARTIFICIAL PEARLS. Registered August 14, 1923. LEYS, CHRISTIE & CO. Renewed August 14, 1943, to Leys, Christie & Co., Inc., New York, N. Y., a corporation of New York, assignee.

171,827. **AUTO-DEX.** BALANCES AND WEIGHING SCALES. Registered August 14, 1923. CHRISTIAN BECKER, INC., New York, N. Y., a corporation of New York. Renewed August 14, 1943.

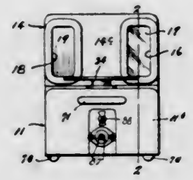
171,833. **"S" AND DRAWING.** METALS—NAMELY, BRASS, GILDING, COPPER, OREIDE, PURE NICKEL, CUPRO NICKEL, BRONZE KNOWN AS PHOSPHOR BRONZE, COMMERCIAL BRONZE, AND SEYMOUR BRONZE. Registered August 14, 1923. THE SEYMOUR MANUFACTURING COMPANY, Seymour, Conn., a corporation of Connecticut. Renewed August 14, 1943.

171,834. **"SEYMORITE" AND DRAWING.** METAL ALLOYS IN VARIOUS FORMS. Registered August 14, 1923. THE SEYMOUR MANUFACTURING COMPANY, Seymour, Conn., a corporation of Connecticut. Renewed August 14, 1943.

171,877. **KWIKLEEN.** COMPOUND FOR CLEANING HANDS AND THE LIKE. Registered August 14, 1923. WHITHOUSE PRODUCTS CO., Chicago, Ill. Renewed August 14, 1943, to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware, assignee.

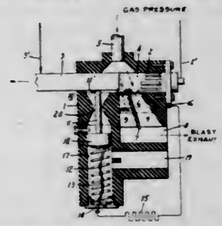
171,887. **BIG IKE.** WORK SHIRTS. Registered August 14, 1923. CARTER DRY GOODS CO., Louisville, Ky, a corporation of Kentucky. Renewed August 14, 1943.

22,297
WEIGHING SCALE
James F. Sullivan, Columbus, Ohio
Original No. 2,218,562, dated October 22, 1940, Serial No. 134,243, April 1, 1937. Application for reissue February 17, 1941, Serial No. 379,388
16 Claims. (Cl. 265—54)



16. A weighing scale including, a casing having a forwardly facing wall portion, said wall portion being formed of material pervious to light; a beam support; an elongated scale beam extending horizontally and rearwardly and pivoted substantially midway of its ends on said support; platters pivotally supported on opposite ends of the beam, one of said platters being disposed above the forepart of the casing and directly in front of said wall portion; a lens member; a member having only one index, said members being disposed adjacent one end of the beam, one of said members being movable by the beam relative to the other of said members when the beam is moved about its pivot; and means for indicating the position of the movable member including a light reflecting surface portion, said wall portion and light reflecting surface portion being in optical alignment with one another, one of said portions having indicia thereon, and means cooperating with the lens member and including a source of light for projecting an image of said index on the light reflecting surface.

22,298
GAS BLAST CIRCUIT BREAKER
Bryce W. Wyman, Yeadon, Pa., assignor to General Electric Company, a corporation of New York
Original No. 2,306,240, dated December 22, 1942, Serial No. 398,128, June 14, 1941. Application for reissue February 4, 1943, Serial No. 474,727
4 Claims. (Cl. 200—148)



4. A gas blast circuit breaker for high voltage power circuits comprising an arc chamber, separable contacts including a movable contact arranged to form an arc gap in said chamber, means for directing a blast of interrupting gas under pressure into said chamber and through said arc gap for extinguishing the arc at a current zero, a resistance arranged to be connected in shunt with said gap whereby a re-established power current is reduced in magnitude, and a separately operable auxiliary gas blast circuit breaker included in said shunt connection having a separate movable contact arranged to form a second arc gap, said auxiliary breaker having a nozzle-like arc interrupting passage in which said second arc gap is formed, and means for directing a second gas blast into said nozzle-like passage axially of the arc for finally interrupting the reduced current arc therein, said second gas blast also being effective to build up pressure in said passage to cause opening movement of said movable auxiliary breaker contact.

PATENTS

GRANTED APRIL 6, 1943

2,315,484
PLASTER BANDAGE
George E. Hardy, Stelton, N. J., assignor to Johnson & Johnson, New Brunswick, N. J., a corporation of New Jersey
No Drawing. Application August 23, 1941, Serial No. 408,132
4 Claims. (Cl. 128—91)

1. A plaster of Paris bandage comprising a strip of backing material having a coating adhering thereto, said coating comprising plaster of Paris and a protein bonding agent of the prolamin group which is soluble to some extent in organic solvents and also partially soluble or dispersible in water.

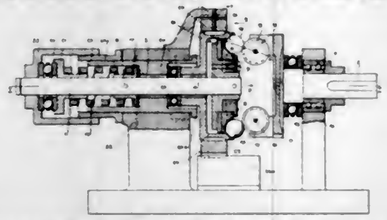
2,315,485
EXERCISING DEVICE
Edward Le Roy Jones, III, Tucson, Ariz.
Application May 31, 1941, Serial No. 396,134
1 Claim. (Cl. 272—69)



In an exercising device, an elongated horizontally disposed base, an endless tread belt mounted on said base and having one run thereof positioned to be engaged by feet of a person in a substantially standing position, a force resisting member secured to one end of the base and equally spaced from the sides of said base and extending upwardly from the base and bent to incline upwardly and over the upper run of the belt and terminating in a vertically depending portion located below shoulder height of the person, a cushion carried by said depending portion to be engaged by the person at shoulder height causing said person to assume an inclined position from a perpendicular standing position to permit the person by moving the feet in step by step movement on the upper run of the belt to exercise leg muscles and muscles of the body from the shoulders downwardly, and an inverted substantially V-shaped brace secured to said member above the lower end of the depending portion and having the ends thereof secured on opposite sides of the base locating said brace in a position to be gripped by the person's hands for assisting the person in sustaining the inclined position against the cushion.

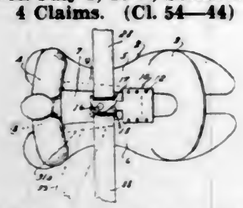
2,315,486
POWER TRANSMISSION SYSTEM
Cornelis Andries Heero Mulder, Utrecht, Netherlands; vested in the Alien Property Custodian
Application July 13, 1938, Serial No. 219,087
In the Netherlands July 19, 1937
48 Claims. (Cl. 74—281)

1. A power transmission system of continuously variable gear ratio including the ratio 1:1, comprising a frame; a drive shaft and a driven shaft on said frame; a body on one of said shafts; contact means on the other of said shafts providing contact surfaces; a reaction member for taking the torque reaction; a plurality of solids of revolution, each of which is permanently in contact with said body, said contact means and said reaction member; said body, contact means and re-



action member being adjustable relatively to each other to vary the gear ratio and means for coupling said reaction member to said frame to hold said member stationary at ratios other than 1:1; and said reaction member being mounted on said frame for rotation at the 1:1 gear ratio in the same direction and at the same angular speed as said body, said contact means and said solids of revolution.

2,315,487
SADDLE AND SADDLE CONSTRUCTION
Eddie Steele, Coconino County, Ariz.
Application July 1, 1941, Serial No. 400,602
4 Claims. (Cl. 54—44)

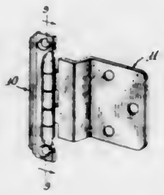


2. In saddle construction, in combination, a saddle tree having rails and a seat between pommel and cantle, means for supporting stirrup leathers including a tongue positioned above and midway between said saddle tree rails, a pair of clevises pivotally attached to the forward portion of said tongue, said clevises having bars over which stirrup leathers may be looped.

2,315,488
HINGE CONSTRUCTION AND METHOD OF MAKING SAME
Gedor W. Aldeen, Rockford, Ill., assignor to American Cabinet Hardware Corp., Rockford, Ill., a corporation of Illinois
Application March 13, 1940, Serial No. 323,729
5 Claims. (Cl. 29—11)

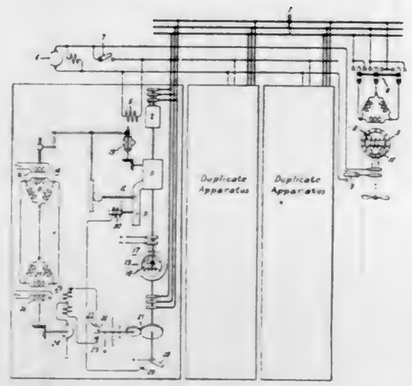
1. The method of making a sheet metal hinge, which comprises punching a blank for one leaf provided with spaced portions adapted to be rolled to form pockets for receiving the ends of a pin with lobe-shaped portions extending beyond said ends of the pin, placing a rolled knuckle portion of a second leaf between said pockets, inserting a pin into said pockets and said knuckle

portion, and bending said lobe-shaped portions over the ends of the pin and by the same operation deforming each of said pocket portions so



that the end face thereof is out of parallelism with the adjacent end face of the knuckle portion to provide a relatively wide gap therebetween at the front of the hinge.

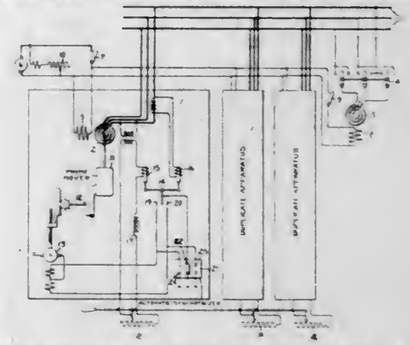
2,315,489
ELECTRIC DRIVE
Ernst F. W. Alexanderson, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application April 1, 1942, Serial No. 437,237
8 Claims. (Cl. 290—4)



1. In combination, a plurality of prime movers, a plurality of parallel connected synchronous generators respectively driven by said prime movers, rotatable means respectively associated with said generators, means for controlling each rotatable means so that the position thereof is a direct indication of the displacement angle of the associated generator, and governing means for each prime mover respectively responsive to movement of the associated rotatable means.

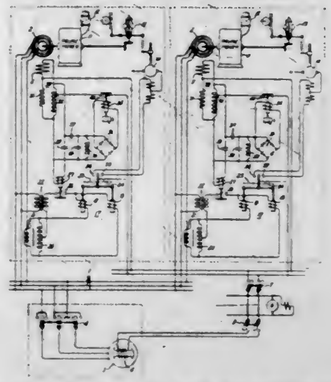
2,315,490
ELECTRIC DRIVE
Ernst F. W. Alexanderson, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application April 1, 1942, Serial No. 437,238
6 Claims. (Cl. 290—4)

1. In an electric drive, an electric motor, a synchronous generator supplying current to said motor, a prime mover driving said generator, means for varying the excitation of said generator, and means for varying the torque of said prime mover in accordance with the relationship existing between the actual output of said generator and the maximum output obtainable



therefrom with the same field excitation of said generator.

2,315,491
ELECTRIC DRIVE
Ernst F. W. Alexanderson, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application April 1, 1942, Serial No. 437,239
13 Claims. (Cl. 290—4)

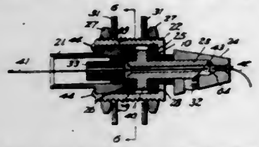


1. In combination, an electric circuit energized by an alternating potential, a synchronous dynamoelectric machine connected thereto, a device for discriminating between synchronous and asynchronous operation of said machine, and separate means under the control of said device for discriminating between supersynchronous and subsynchronous operation of said machine.

2,315,492
LEAD-IN INSULATOR
Paul E. Anderson and Jon Joseph Yolles (also known as Jack Yolles or Jacob Yolles), Dayton, Ohio
Application March 10, 1941, Serial No. 382,538
4 Claims. (Cl. 174—153)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

2. In a lead-in device; a cup-shaped metallic housing having a hole in the base thereof; metallic means comprising, a rod extending through said hole so as to have portions both inside and outside of said housing, and a flange rigidly fastened to said inside portion; two insulating plates respectively located adjacent and in contact with opposite faces of said flange, each of said plates

including insulating material for insulating the flange from the housing; means pressing said plates toward each other to thereby support the flange and to hold the metallic means within and separated from the housing; a wire of a



sheathed cable electrically connected to the rod and extending out of the open end of the housing; and means surrounding said wire, located at and adapted to receive at the open end of said housing the sheath of the cable and electrically connect such a sheath to the housing.

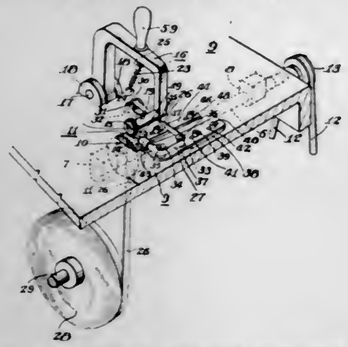
2,315,493

INSOLE TAPING MACHINE

Fred L. Ayers, Watertown, Mass., assignor of one-half to Newton Elkin, Philadelphia, Pa.

Application January 26, 1942, Serial No. 428,308

9 Claims. (Cl. 12—20)



1. An insole taping machine including means for supporting and feeding the marginal portion of an innersole blank, and means in operative juxtaposition to said innersole blank supporting and feeding means for folding a cement-coated tape to the marginal zone of said innersole as the innersole blank is fed by said innersole feeding means, with the cement coating disposed outwardly and with the fold-line facing inwardly of the edge of the innersole.

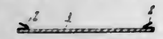
2,315,494

METHOD OF MAKING SHOE INNER SOLES

Fred L. Ayers, Watertown, Mass., assignor of one-half to Newton Elkin, Philadelphia, Pa.

Original application July 3, 1941, Serial No. 400,919. Divided and this application June 17, 1942, Serial No. 447,422

6 Claims. (Cl. 12—142)



6. The method of making a shoe innersole which comprises adhesively coating a surface of the innersole blank at least in the forepart thereof, longitudinally folding an adhesively coated tape with its adhesively coated surface facing outwardly, applying the folded tape to the marginal zone of the innersole blank around at least the forepart of said blank with the fold-line facing inwardly of the edge of said innersole blank, by beginning with one of the rearmost points of such marginal zone and gradually extending the folded tape around the marginal zone to the other rearmost point of such marginal zone, and pressing said folded tape into adhesive union with the innersole blank as it is so applied around said marginal zone thereof.

2,315,495

PROCESS OF PURIFYING PHOSPHORIC ACID ESTERS

Hermann Beeg, Magdeburg, and Kurt Weichert, Leuna, Germany; vested in the Alien Property Custodian

No Drawing. Application March 6, 1940, Serial No. 322,539. In Germany July 27, 1939

5 Claims. (Cl. 260—461)

1. A process for purifying phosphoric acid esters used for the dephenolization of waste aqueous liquors and freed from phenols but containing asphaltic substances, which comprises mixing the esters with finely ground inert substances and dissolving the esters from the mixture by means of low boiling aliphatic hydrocarbons.

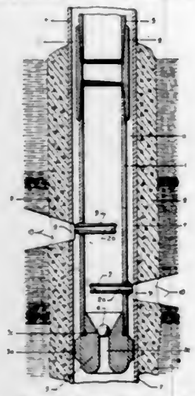
2,315,496

PERFORATOR FOR WELLS

Alexander Boynton, San Antonio, Tex.

Application November 28, 1938, Serial No. 242,781

3 Claims. (Cl. 166—1)



1. A method of perforating casing comprising the steps of lowering a pipe string into the casing to be perforated, circulating liquid through the string and surrounding annular space until uniform specific gravity of the liquid obtains, closing the lower end of the pipe string, charging the circulating liquid with abrasive particles, and pumping the charged liquid downwardly in the pipe and outwardly through radial openings therein whereby the casing and adjacent formation are perforated.

2,315,497

NICKEL-BASE ALLOY

Joseph H. Brennan, Niagara Falls, N. Y., assignor to Haynes Stellite Company, a corporation of Indiana

No Drawing. Application September 24, 1940, Serial No. 358,103

2 Claims. (Cl. 75—170)

1. In the art of manufacturing nickel-molybdenum-iron alloys containing copper as a usual impurity, the improvement which comprises maintaining the copper content of such alloys at a proportion below 0.15%, whereby to impart to said alloys hot working properties superior to the hot working properties of substantially identical alloys containing more than 0.15% copper.

2,315,498

POLYMETHINE DYE INTERMEDIATE AND PROCESS OF PREPARATION

Leslie G. S. Brooker and Grafton H. Keyes, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application November 8, 1940, Serial No. 364,906. In Great Britain December 15, 1939

19 Claims. (Cl. 260—304)

1. A process for preparing a polymethine dye intermediate comprising condensing a mercaptan with a cyclammonium quaternary salt containing a halogenovinyl group.

2,315,499

PRODUCTION OF PARAFFIN-OLEFIN MIXTURES

Adolf Cantzler and Hans Krekeler, Mannheim, Germany, assignors to Standard Catalytic Company, a corporation of Delaware

No Drawing. Application December 12, 1939, Serial No. 308,826. In Germany October 26, 1938

4 Claims. (Cl. 260—683)

1. A process for the production of paraffin-olefin mixtures which consists in leading a gaseous mixture of paraffin hydrocarbons containing at least two carbon atoms with at least an equimolecular amount of a hydrogen halide through a vessel heated to temperatures exceeding 500° C. but below those at which appreciable decomposition with the splitting up of the carbon chain takes place and maintaining the rate of throughput of said mixture so high that only part of the paraffin hydrocarbon is dehydrogenated.

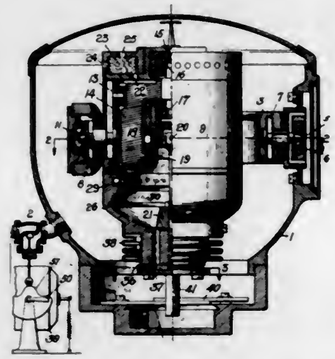
2,315,500

GYRO VERTICAL

Leslie F. Carter, Leonia, N. J.

Application December 6, 1940, Serial No. 368,785

9 Claims. (Cl. 74—5)



4. An aircraft gyro vertical having fore and aft and lateral axes of support, cooperative pairs of laterally facing and fore and aft facing ports therein by means of which the gyro vertical is pneumatically erected, gravitationally responsive means adjacent each port for controlling its opening, a movable spoiler for the air jets issuing from at least one of the cooperative pairs of said ports, and means for moving said spoiler into and out of its operative position.

2,315,501

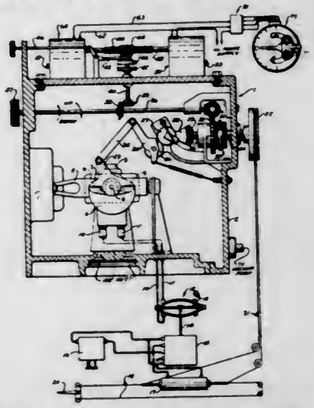
AUTOMATIC GLIDE AND/OR CLIMB CONTROL

Carl J. Crane, Shreveport, La., and George V. Holloman and Raymond K. Stout, Dayton, Ohio

Application January 6, 1941, Serial No. 373,334

4 Claims. (Cl. 244—76)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In an automatic pilot having a primary control means for normally maintaining an aircraft in level flight and a modifier for said primary control for causing the aircraft to ascend or descend; of means for automatically actuating said modifier in accordance with the variation in the rate of change of altitude from a predetermined value comprising, a reversible power means for actuating said modifier, a relay for selectively controlling the energizing of said reversible power means, and a control means for said relay including a source of light, a photoelectric control device adapted to respond to light received from said source and means responsive to rate of change of altitude for controlling the quantity of light transmitted from said source to said photoelectric control device upon a departure of the rate of change of altitude from a predetermined value.

2,315,502

SUBAQUEOUS END-WELDING DEVICE

John D. Crecca, United States Navy, and Addison G. Bissell, Washington, D. C.

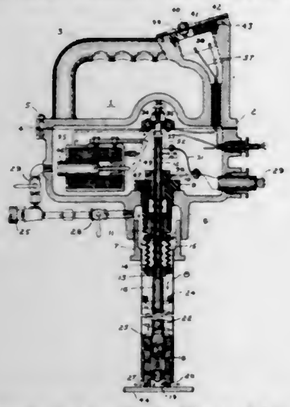
Application July 18, 1942, Serial No. 451,396

8 Claims (Cl. 219—4)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O G. 757)

1. A device adapted for end-welding a stud or the like to a base member comprising a hollow body member having an opening in one wall thereof, a spindle slidably mounted through said wall opening, chuck means carried by the lower end of said spindle for holding said stud, a sleeve surrounding said spindle and extending downwardly over said stud, means carried by said sleeve and adapted to hold an expendable ferrule in protective position intermediate said stud and sleeve at the welding junction, means for initially holding said spindle in retracted position, said stud then being spaced from said base member,

means for initiating a welding arc between said stud and base member, and means for subse-



quently extending said spindle and stud to complete the welding operation.

2,315,503

ART OF MOLDING COMPOSITE RESINS

Walter S. Crowell, Melrose Park, and George W. Birch, Upper Darby, Pa., assignors to The S. S. White Dental Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania

No Drawing. Application June 30, 1939 Serial No. 282,061

10 Claims. (Cl. 260—36)

5. A moldable composition capable of hardening upon heating to a temperature below 300 degrees F. and thereby yielding an article having combined hardness, toughness and impact properties superior to those of the constituent individual resins, comprising a synthetic resinous base of an intimate homogeneous mixture of 10 to 60 parts of high-chloride-content vinyl-ester-polymer resin of inter-polymerized vinyl acetate and vinyl chloride, and 30 to 80 parts methyl methacrylate polymer resin, with monomeric methyl methacrylate, and characterized in having the consistency of a non-sticky, hand-plastic mass and being readily conformable to a mold at room temperature and containing the methyl methacrylate monomer in the proportion of 10 to 50 percent of the swollen mass distributed throughout the said mass as a swelling and softening agent for the vinyl and methyl methacrylate resins.

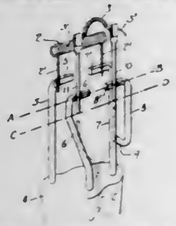
2,315,504

MINIATURE INCANDESCENT LAMP

Lorin W. Curtis, Verona, N. J., assignor to Tung-Sol Lamp Works Inc., Newark, N. J., a corporation of Delaware

Application May 31, 1941, Serial No. 396,003

14 Claims. (Cl. 176—36)



1. The method of mounting a miniature lighting filament on the stem wires of an incandescent lamp bulb stem which comprises the steps of forming a firm wire frame having filament support wires, electrically and mechanically fastening the ends of the filament to flattened ends of said support wires by bending or folding the flattened ends of the wire about the filament legs and upon themselves and pressing the folded over parts of the flattened ends to the main body thereof so as to firmly grip and hold the filament legs, then holding the filament support wires while severing the frame and then mounting the support wires with the filament thereon on the stem by welding the support wires to the stem wires, with the filament in the desired position.

2,315,505

HYDROGENATED PHENANTHRENE COMPOUND AND A METHOD OF MAKING THE SAME

Elisabeth Dane, Munich, Germany, assignor to Schering Corporation, Bloomfield, N. J., a corporation of New Jersey

No Drawing. Application November 4, 1939, Serial No. 302,926. In Germany November 4, 1938

12 Claims. (Cl. 260—341)

1. A method for the production of phenanthrene derivatives, comprising condensing a 3,4-dihydro-naphthalene having the ethinyl group attached to the 1-carbon atom, with an organic compound having at least one reactive double bond and capable of taking part in the diene-synthesis of Diels-Alder, in the presence of a halogen compound.

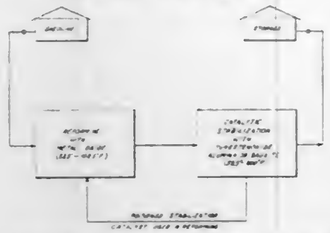
2,315,506

CATALYTIC TREATMENT OF PETROLEUM HYDROCARBONS

Philip S. Danner and Robert C. Mithoff, Berkeley, Calif., assignors to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware

Application April 27, 1937, Serial No. 139,208

12 Claims. (Cl. 196—52)



1. A process of catalytically treating and stabilizing a hydrocarbon fuel boiling within the range of gasoline which comprises: dehydrogenating hydrocarbons of low octane number, without cracking said fuel sufficiently to substantially alter the boiling range thereof, by passing said fuel in vapor phase at temperatures of from approximately 825° F. to 1025° F. and in the absence of substantial quantities of added hydrogen over a metal oxide catalyst capable of catalyzing dehydrogenation reactions without concurrently producing substantial cracking, whereby the anti-knock value of said fuel is catalytically increased without material alteration of the boiling range thereof; and then stabilizing said fuel against gum formation, without substantial adverse effect upon the octane number thereof, by passing said fuel vapors over a metal oxide catalyst selected from the group consisting of tungsten oxide, alumina and bauxite at a temperature of from approximately 525° F. to 800° F.

2,315,507

COPPER-BASE ALLOY

Reginald S. Dean and Clarence T. Anderson, Salt Lake City, Utah, assignors to Chicago Development Company, Chicago, Ill., a corporation of Illinois

No Drawing. Application October 1, 1941, Serial No. 413,160

5 Claims. (Cl. 75—161)

1. Alloys, having good corrosion resisting properties, containing about 2% to about 25% manganese, about 2% to about 20% chromium, about 2% to about 25% iron, balance substantially all copper.

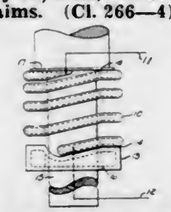
2,315,508

MEANS FOR CONTROLLING INDUCTIVE HEATING

Francis S. Denneen, Cleveland, and William C. Dunn, Shaker Heights, Ohio, assignors to The Ohio Crankshaft Company, Cleveland, Ohio, a corporation of Ohio

Application May 27, 1940, Serial No. 337,423

3 Claims. (Cl. 266—4)



1. In apparatus for hardening a surface zone of an article adapted to be hardened by heating and quenching, a helical conductor adapted to surround a part of the article and to lie in spaced relationship thereto, means for supplying periodically varying current to the conductor to induce heating current in the surface zone, and means for compressing the helical conductor axially to reduce the length of the helix and to concentrate the induced current in a selected part of the surface zone.

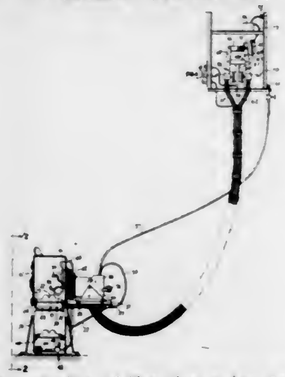
2,315,509

APPARATUS FOR HEAT TREATING

Francis S. Denneen, Cleveland, and William C. Dunn, Shaker Heights, Ohio, assignors to The Ohio Crankshaft Company, Cleveland, Ohio, a corporation of Ohio

Original application September 30, 1937, Serial No. 166,648. Divided and this application March 18, 1941, Serial No. 383,966

7 Claims. (Cl. 219—13)



1. In apparatus of the character described, the combination of a base, a housing for an article to be heated mounted upon said base, a horizontal guideway supported by said base, a carriage movable on said guideway, a transformer pivotally carried by said carriage, said housing having an opening therein, an inductor member carried by said transformer and projecting through the opening in said housing and a flexible shield connecting said housing and said transformer means and covering said opening.

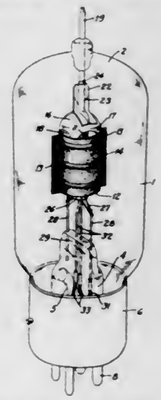
2,315,510

ELECTRONIC TUBE

William W. Eitel, San Bruno, and Jack A. McCullough, Millbrae, Calif., assignors to Eitel-McCullough, Inc., San Bruno, Calif., a corporation of California

Application June 30, 1942, Serial No. 449,148

6 Claims. (Cl. 250—27.5)



1. An electronic tube comprising an envelope having a re-entrant stem at one end thereof, a plurality of electrodes including a plate and grid in the envelope, a lead sealed to the other end of the envelope, a cap on one end of the plate, means on the cap for supporting the plate on said lead, a lead sealed to the stem, and means supporting the grid on the last mentioned lead.

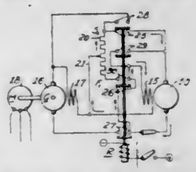
2,315,511

ADJUSTABLE SPEED DRIVE

Robert S. Elberty, Jr., Waynesboro, Pa., assignor to Landis Tool Company, Waynesboro, Pa.

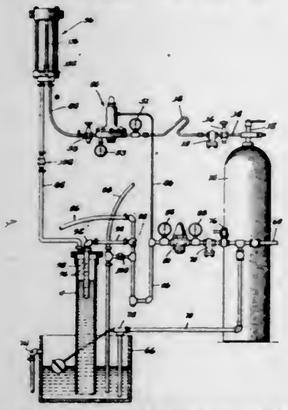
Application October 19, 1940, Serial No. 361,925

7 Claims. (Cl. 172—239)



6. The combination in an electrical circuit of a series motor and a series generator, each having a low residual magnetism of less than ten percent of no-load saturation, and means for adjusting the speed of the motor consisting of a resistor arranged in parallel to the generator series field, and means to vary the generator field magnet strength by shunting sections of said resistor to thus vary the voltage output of the generator.

2,315,512
CHLORINE FEEDING DEVICE
Roy Blair Everson, Chicago, Ill.
Application March 8, 1939, Serial No. 260,559
10 Claims. (Cl. 210—28)



1. In a gas mixing and dispensing device, means for conducting a main liquid flow, suction-creating means in said conducting means, a tower extending a substantial distance above normal liquid level, means for supplying said tower with liquid, means to supply gas to said tower, and an outlet conduit in said tower above normal liquid level and connected to said suction-creating means for conveying gas and liquid from the tower, said conduit having a plurality of inlet means spaced therealong at varying elevations whereby the rate of gas flow into said conduit is determined by the extent of submergence of said conduit within said liquid.

2,315,513
ANCHORING DEVICE
Charles R. Fitz Gerald, Worcester, Mass.
Application April 19, 1940, Serial No. 330,498
4 Claims. (Cl. 114—206)

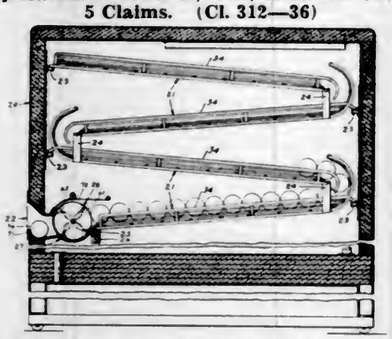


1. An anchor comprising a generally triangular shaped shank, an elongated and enlarged head along one edge of said shank, said head being longer than said edge, and guide webs in extension of said edge between the ends of the head and the other two edges of said shank.

2,315,514
PREPARATION OF ORGANIC SULPHINIC ACIDS
Arthur L. Fox, Woodstown, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 22, 1938, Serial No. 241,869
7 Claims. (Cl. 260—500)

1. A process which comprises reacting in an aqueous medium a mixture containing saturated aliphatic hydrocarbon sulphonyl chlorides and chlorohydrocarbon sulphonyl chlorides, wherein the hydrocarbon radicals correspond to saturated non-gaseous aliphatic hydrocarbons, with a reducing agent taken from the group consisting of sodium and potassium sulphite, bisulphite, hydrosulphite, and sulphide and recovering from the reaction product a mixture of organic sulphinic acids.

2,315,515
DISPENSING APPARATUS
Herschel V. Gibson and Elmer E. Casey, Bloomington, Ill., assignors to Williams Oil-O-Matic Heating Corporation, Bloomington, Ill., a corporation of Illinois
Application October 19, 1939, Serial No. 300,109
5 Claims. (Cl. 312—36)



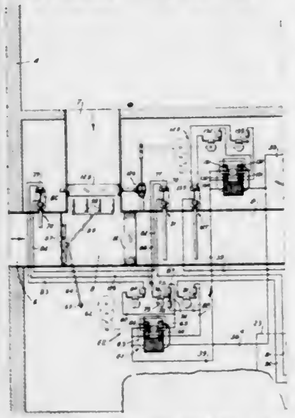
1. In an apparatus for cooling and dispensing containers, a cabinet containing a storage chamber having a discharge opening, an inclined ramp for supporting and for advancing said containers by gravity to said discharge opening, a dispensing closure for said discharge opening, an intermittently operable motor for operating said dispensing closure to deliver said containers one at a time, and a gravity-weighted member normally supported in one position by said containers for controlling the normal operation of said motor and automatically operable into a second position when the last container has been discharged through said discharge opening to render said motor inoperative for discharging containers.

2,315,516
REMOVABLE STANCHION FOR PROTECTIVE RAILINGS
Marshall Gray, St. Louis, Mo.
Application April 6, 1942, Serial No. 437,753
4 Claims. (Cl. 256—1)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a protective railing for a surface comprising a plurality of tubular casings mounted at spaced points in said surface, collars containing grooves provided on said casings, stanchions slidably mounted on said collars and adapted to be lowered into inoperative positions within and to be raised to operative positions on said casings, lugs provided on said stanchions, said lugs adapted to pass through said grooves in said collars upon the raising of said stanchions to operative positions on said casings, said stanchions adapted to be rotated on said casings for moving said lugs out of alinement with said grooves, whereby the stanchions are held from returning to said casings, and a rail member connected between said stanchions.

2,315,517
CONDITION CONTROL SYSTEM
Theodore K. Greenlee, Rockford, Ill., and Gerald W. Bohn and Cortland N. O'Day, Port Washington, N. Y., assignors to Barber-Colman Company, Rockford, Ill., a corporation of Illinois
Application March 7, 1936, Serial No. 67,612
10 Claims. (Cl. 257—3)

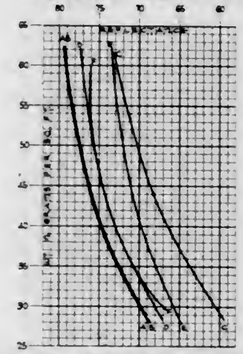


1. In an air conditioning system having an air duct communicating at its outlet end with the space to be conditioned and having fresh and return air inlets, damper means controlling the proportion of fresh air admitted to said duct, a power operator for said damper means, a thermostat responsive to the temperature of the mixture of fresh and return air and controlling said operator to modulate the position of a damper means between said minimum open position and fully open position and maintain a substantially uniform temperature of the mixture, a thermostat responsive to the temperature of the fresh air exercising control over said operator superior to said first mentioned thermostat and operating to cause movement of said damper means to said minimum open position in response to a deviation in the fresh air temperature to a predetermined value, and auxiliary control means operable independently of said thermostats to control said operator and cause complete closure of said fresh air inlet from any position in which the damper means is disposed at the time the auxiliary control means is rendered active.

2,315,518
METHOD OF ACTIVATING CATALYTIC SURFACES
Marion H. Gwynn, Mountain Lakes, N. J.
Application October 3, 1939, Serial No. 297,651
4 Claims. (Cl. 204—130)

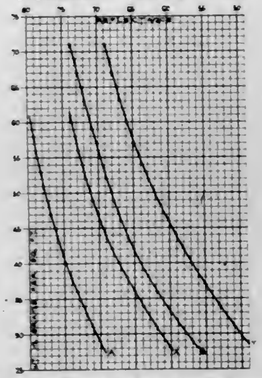
1. A process for preparing a metallic catalytic surface whose catalytic element is selected from the class consisting of cobalt, nickel and copper, comprising activating the surface at the anode in an electrolytic bath consisting substantially of an aqueous solution of a hydroxide of a metal selected from the class which consists of lithium, calcium, strontium, and barium, thereby forming on the surface a hydrated higher oxide of said catalytic element.

2,315,519
TREATMENT OF ZIRCONIUM OXIDE
Donald S. Hake and Harold D. Prior, Niagara Falls, N. Y., assignors to The Titanium Alloy Manufacturing Company, New York, N. Y., a corporation of Maine
Application October 16, 1940, Serial No. 361,438
6 Claims. (Cl. 23—140)



1. A method of treating zirconium oxide to render it suitable for use as an opacifier for vitreous enamels, comprising mixing zirconium oxide and 2 to 10% of silica based on the weight of the zirconium oxide with at least 2½ parts of molten caustic soda to each part of zirconium oxide, solidifying, leaching out soluble sodium and silicon compounds with water and acid, drying, and calcining.

2,315,520
PREPARATION OF ZIRCONIUM OXIDE
Donald S. Hake and Harold D. Prior, Niagara Falls, N. Y., assignors to The Titanium Alloy Manufacturing Company, New York, N. Y., a corporation of Maine
Application October 28, 1940, Serial No. 363,110
4 Claims. (Cl. 23—140)



1. A method of preparing zirconium oxide suitable for use as an opacifier for vitreous enamels,

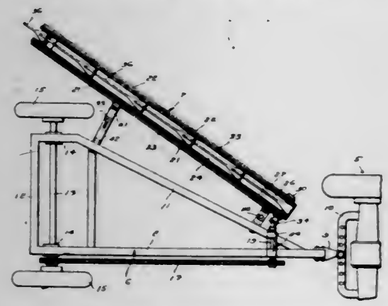
comprising mixing sodium zirconium silicate with at least 2½ parts of molten caustic soda to each part of sodium zirconium silicate, solidifying, leaching out soluble sodium and silicon compounds with water and acid, drying, and calcining.

2,315,521
TORQUE WRENCH
Charles W. Hart, United States Navy
Application January 10, 1942, Serial No. 426,318
5 Claims. (Cl. 265—1)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



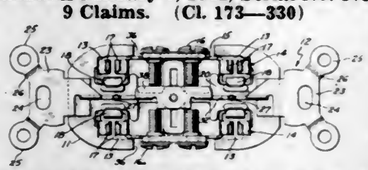
1. A sound and touch operated torque indicating wrench comprising a shank having a flexible portion, a leaf spring fixed to said shank at one end of said flexible portion bridging this portion, pitch teeth on the free end of said leaf spring, and a raised tooth on the shank adjacent to the pitch teeth of the leaf spring pressed into mesh contact with said teeth under spring pressure afforded by the leaf spring, whereby the flexing of said flexible portion of the said shank will cause said fixed tooth and said pitch teeth to move relative to one another with a snapping action when torque is applied to said wrench.

2,315,522
WINDROW TURNING MACHINE
Henry Hauge, Buxton, N. Dak.
Application October 9, 1941, Serial No. 414,342
2 Claims. (Cl. 56—370)



1. In a windrow turning implement, a wheel supported frame, a turner unit mounted on one side of the frame and including a pair of parallel side bars inclining rearwardly and outwardly therefrom, a pair of endless traveling sprocket chains mounted between said bars side by side and extending from end to end thereof with upper and lower stretches parallel with the same, a plurality of tines pivoted to said chains and spaced along the same for vertical swinging movement therebetween into horizontal and pendent positions, respectively, and means operative under travel of said chains to cause said tines to swing into pendent position from the lower stretches of said chains, said means blocking swinging of the tines from pendent position reversely relative to the direction of travel of said lower stretches, and wheel operated means for driving said chains.

2,315,523
ELECTRICAL RECEPTACLE
Harvey Hubbell, Long Hill, Conn., assignor to Harvey Hubbell, Incorporated, Bridgeport, Conn., a corporation of Connecticut
Application January 7, 1941, Serial No. 373,439
9 Claims. (Cl. 173—330)



3. An electrical receptacle comprising an insulating body having front and rear sections, one of said sections having chambers therein, receptacle contacts in said chambers, one section having contact blade slots leading to said contacts, a bridge member adapted for mounting the receptacle in a wall box and located between said sections, and said bridge having means to secure the body sections together comprising projections extending in opposite directions therefrom and provided with shoulders engaging the material of the respective sections to secure the sections together.

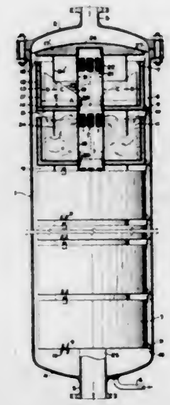
2,315,524
POSITIVE DRIVE CHUCK
Minott P. Hubbell, Ashburnham, Mass., assignor to T. R. Almond Manufacturing Co., Ashburnham, Mass., a corporation of New York
Application April 21, 1942, Serial No. 439,843
6 Claims. (Cl. 279—62)



1. A positive drive chuck comprising a body portion adapted to receive one end of an arbor, a permanent, frictional surface provided on the arbor-receiving end of said body portion and formed and positioned to be engaged in tight frictional relation by a surface portion on such end of the arbor to fix the chuck with relation to the arbor, a second surface associated with one of said engaging parts and fixed with relation to the chuck body, a plurality of jaws slidably arranged on said chuck body and adapted to be moved into contact with the outer surface of a shank inserted into the chuck body, a threaded plug seat located above the region of engagement of said jaws with a shank and arranged in alignment with said arbor and chuck, a threaded plug screwing into said seat into engagement with said end of the arbor, said plug having an abutment surface thereon and having a V-shaped slot in its lower surface adapted to be engaged by a correspondingly V-shaped shank to provide a positive drive for such shank, said connection,

when the chuck is rotated against resistance of the shank, operating to bias the plug toward the fixed surface and toward bringing its said abutment surface against the said fixed surface, whereby said plug locks the connection between the chuck and the arbor and means for shifting said jaws into contact with the outer surface of a shank whose inverted V-shaped top engages the V-shaped slot of the plug.

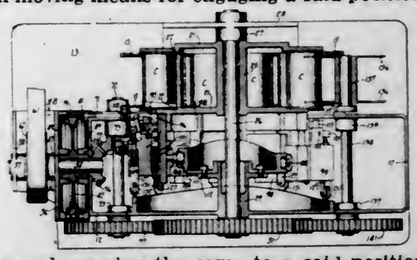
2,315,525
REACTION VESSEL
William E. Hulsberg, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application September 10, 1941, Serial No. 410,269
12 Claims. (Cl. 23—288)



1. A reactor of the class described comprising, an elongated outer shell, a plurality of trays each adapted to contain a bed of granular contact material disposed within said shell in superimposed spaced apart relation, an annular space being provided between said trays and the shell, a centrally disposed conduit extending lengthwise of the shell through the space occupied by said beds of contact material in the trays, said conduit being provided with openings through its wall at the approximate level of the bed of contact material in each tray, continuous skirt-like baffles extending from the lower portion of the trays through the spaces between adjacent trays and into the space occupied by the bed of contact material on the succeeding lower tray of the assembly, means for directing fluid reactants into said annular space and therefrom through the beds of contact material about said baffles, and means for directing resulting fluid reaction products from each of the trays through said central conduit and from the reactor.

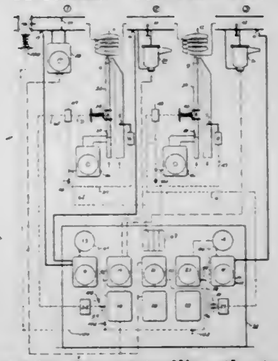
2,315,526
KEY ASSEMBLING MACHINE
Warren D. Jordan, Waukegan, Ill., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application July 12, 1940, Serial No. 345,230
7 Claims. (Cl. 113—1)

1. In a machine for attaching keys to cans, the combination of independent separate means for moving cans and keys into registering key attaching position, and means carried by said can moving means for engaging a said positioned



key and securing the same to a said positioned can while the key and can are being moved.

2,315,527
CONTROL SYSTEM
Raymond D. Junkins, Cleveland Heights, John D. Ryder, University Heights, and John F. Luhrs, Cleveland Heights, Ohio, assignors to Bailey Meter Company, a corporation of Delaware
Application September 30, 1938, Serial No. 232,644
14 Claims. (Cl. 122—448)

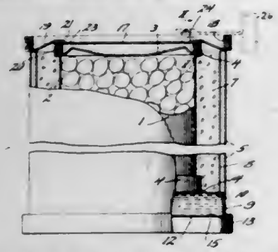


10. Apparatus for controlling the treatment of a selected fluid flowing under pressure through a confined flow path, comprising in combination, fuel supply means for heating the path, a constant flow control for said means, and means responsive to a density condition of the fluid undergoing treatment adapted to establish the control standard of the constant flow control.

2,315,528
SELF-HEATING FOOD CONTAINER
Leo Katz, Hollywood, Calif., assignor to Hotcan Corporation, Los Angeles, Calif., a corporation of California
Application April 28, 1939, Serial No. 270,648
3 Claims. (Cl. 126—263)

1. A self-temperature-varying preserving container comprising walls forming sides and ends of a receptacle for containing food, a jacket surrounding the food receptacle in spaced relation thereto and providing a chemical compartment, a closed liquid vessel extending across one end of the food receptacle and of the chemical compartment and against the inner transverse wall of which one end of the food receptacle bears and is thereby supported, said jacket, at its opposite ends, extending longitudinally beyond the end of the food receptacle and beyond the outer wall of the liquid vessel respectively so as to serve as a bearing wall for carrying forces applied to the container longitudinally whereby the food

receptacle and liquid vessel are protected from said forces and transmission thereof to the liquid vessel is prevented, the inner transverse wall of said liquid vessel having raised elements for holding the adjacent end of the food receptacle against lateral shifting, and a cover over the end of the jacket opposite the liquid vessel, said cover



being secured at its outer edge to the jacket and extending inwardly to the edge of the food receptacle at an acute angle to the side wall of the food receptacle whereby the cover offers resistance to movement of the food receptacle away from the raised means for holding its opposite end against lateral displacement.

2,315,529

PHOSPHORUS SULPHIDE-HYDROCARBON REACTION PRODUCT

Charles D. Kelso, Calumet City, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana

No Drawing. Application March 24, 1941 Serial No. 384,944

12 Claims. (Cl. 260—139)

1. In the preparation of a phosphorus sulphide-hydrocarbon reaction product by reacting a phosphorus sulphide with a hydrocarbon at an elevated temperature, the improvement comprising conducting the reaction in a non-oxidizing atmosphere whereby a phosphorus sulphide-hydrocarbon reaction product having an increased phosphorus and sulphur content is obtained.

2,315,530

METHOD OF SWEETENING OILS

Vernon J. Loyd, East Chicago, Ind., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York

No Drawing. Application July 31, 1941, Serial No. 404,835

4 Claims. (Cl. 196—29)

1. That method of removing mercaptans from petroleum fractions comprising contacting the fraction with an aqueous alkaline reagent to which tannic acid has been added, in the presence of oxygen.

2,315,531

FLUID BRAKE

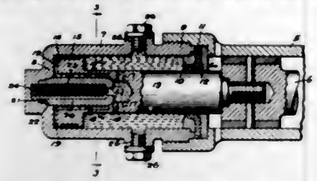
Victor F. Lucht, Washington, D. C.

Application November 29, 1940, Serial No. 367,768

7 Claims. (Cl. 188—96)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A fluid brake comprising a cylinder adapted to contain a fluid and having a front end with a tapered recess in its innerside, a piston rod working in the cylinder and including a piston head on its front end, said piston rod having an axial passage extending from its front face to a point in rear of the head and having a valve seat spaced from the rear end of said passage, throttling grooves in the wall of the passage in front of the valve seat, radial ports in the piston rod in rear of the valve seat and in the piston head, a tubular valve in the axial



passage and having a tapered front end projecting forwardly of the piston head and adapted to fit in the tapered recess in the front end of the cylinder, and a spring between the cylinder and the valve.

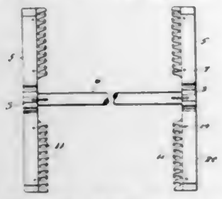
2,315,532

SHIPPING CONTAINER

Louis V. Lucia, West Hartford, and Eric W. Horndahl, Norwichtown, Conn., assignors, by direct and mesne assignments, to Edwin G. Hellyar, Norwich, Conn., as nominee for J. B. Martin Company

Application October 3, 1940, Serial No. 359,572

5 Claims. (Cl. 206—51)



2. A cloth winding rack of the character described comprising in combination, slotted end members, and plates having a plurality of hooks, one of said plates being releasably secured in each of the slots of said end members with the hooks projecting inwardly in said rack.

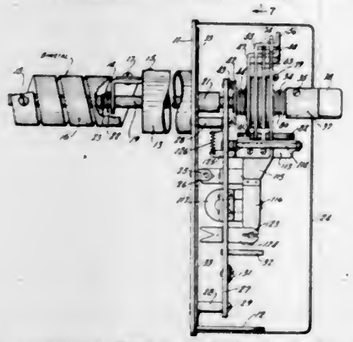
2,315,533

CONTROL DEVICE

Homer E. Malone, Milwaukee, Wis., assignor to Perfex Corporation, Milwaukee, Wis., a corporation of Wisconsin

Application March 2, 1940, Serial No. 321,822

22 Claims. (Cl. 200—138)



1. In a control device, a hub member, means for effecting rotational movement of said hub member in either of two directions, an indicating scale member rigidly secured to the hub member and rotatable therewith, a pair of adjustable cam members arranged on the hub member on one side of the scale member, a single cam member arranged on the hub member on the other side of the scale member, means on the hub member yieldingly urging all of said cam members toward said scale member so as to be rotatable therewith, friction means on the hub member between the cam members and the scale member whereby rotational adjustment of the cam members with respect to the scale member is afforded, separate control means arranged to be operated by the rotation of said pair of cam members and by said single cam member, and cooperating indicating means on all of said cam members and said scale member for indicating the adjusted position of the cam members and therefore the point at which the associated control means is operated.

2,315,534

PREPARATION OF AMMONIUM THIOSULPHATES

Martin Marasco, New Brunswick, N. J., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application April 29, 1941, Serial No. 390,980

13 Claims. (Cl. 260—563)

1. The process which comprises reacting an ammonium sulphide with sulphur dioxide, in aqueous solution in the presence of an excess of an ammonium hydroxide.

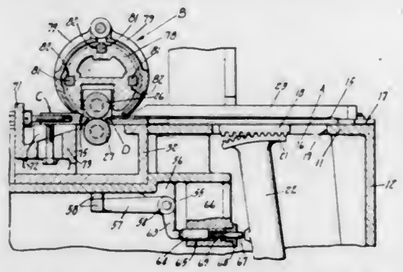
2,315,535

BLANK FEEDER FOR CAN BODYMAKERS

Leland R. McCann, Hawthorne, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey

Application April 16, 1940, Serial No. 329,981

3 Claims. (Cl. 113—113)



1. In a machine for making tubular can bodies having offset side seams, the combination of a pair of cooperating feeding rollers for advancing flat can body blanks to be formed into can bodies, said blanks each having an offset portion, means normally urging said rollers toward one another, means for continuously rotating said rollers for feeding blanks therebetween, blank feeding devices for continuously and positively engaging a blank at a definite part while advancing the blank to feed it between said rollers, and means actuated by said feeding devices for momentarily separating said blank feeding rollers while maintaining their continuous rotation when a said blank is moved adjacent the bight of said rollers, whereby to prevent an offset side seam portion of said blank from being flattened by said rollers during feeding of the blank therebetween.

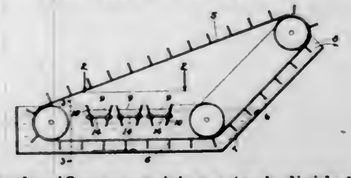
2,315,536

CLASSIFICATION METHOD AND APPARATUS

Harry L. McNeill, Denver, Colo.

Application August 10, 1939, Serial No. 289,466

15 Claims. (Cl. 209—157)



1. A classifier comprising a tank divided into a plurality of classifying zones for the reception of solids settled from pulp comprising a mixture of solids suspended in liquid, conveyor means positioned to move settled solids from each of said zones, open bottom trough-like means extending across said tank in a position transverse to the direction of removal of solids from said tank, there being an inlet for fluid pulp at one end of said trough-like means and a discharge overflow at the other end thereof, a cone positioned beneath said trough-like means in conductive communication therewith and terminating in a spigot positioned within said tank and substantially above one of said conveyors, and means for introducing a flow of fluid into said cone in a direction counter to the normal direction of gravitational settling of solids in the cone.

2,315,537

BENZACRIDONYL ANTHRAQUINONE DYESTUFF

Alfred Miller, Orchard Park, N. Y., assignor to Allied Chemical & Dye Corporation, a corporation of New York

No Drawing. Application December 2, 1938, Serial No. 243,521

11 Claims. (Cl. 260—276)

1. A brown vat dyestuff which in the form of a powder is a dark almost black powder, very sparingly soluble in organic solvents but dissolving in concentrated sulfuric acid to yield a violet-brown solution which when diluted with water deposits the dyestuff as Bordeaux-red to yellow-brown flocks, dyes cotton from a vat in reddish-brown to yellowish-brown shades of excellent fastness to washing, light, and chlorine, and is obtained by heating a trianthrimide selected from the group consisting of 1,2-benzacridonyl-5,5',1',1''-trianthrimide and 1,2-benzacridonyl-8,8',1',1''-trianthrimide in the presence of anhydrous aluminum chloride at a final fusion temperature of between about 140° C. and 165° C.

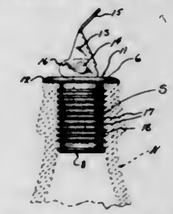
2,315,538

BOTTLE STOPPER

Axel Moeller, Racine, Wis.

Application August 18, 1941, Serial No. 407,270

4 Claims. (Cl. 215—53)



1. In an expansible stopper including, an elon-

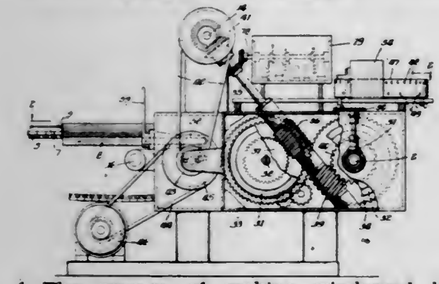
gated compressible body having an axial bore extending therethrough, means for compressing the body longitudinally and expanding the same circumferentially, and annular spaced ribs formed on the outer surface of the body defining air suction channels therebetween.

2,315,539
FISHING ROD
Victor B. Nelson, Rockford, Ill.
Application August 2, 1940, Serial No. 349,925
4 Claims. (Cl. 43—23)



1. A fishing rod handle having a rigid tubular projection at its upper end, a two part split sleeve within said tubular projection adapted to receive the butt end of a fishing rod inserted therein, a pin extending transversely through said projection and the parts of said sleeve to hold the sleeve in said projection, and a clamping device extending laterally through said projection forwardly of said pin and acting when tightened to press the sides of said sleeve toward each other to grip the portion of a rod inserted therein.

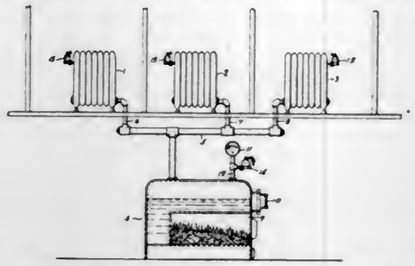
2,315,540
MACHINE AND METHOD FOR PERFORMING SUCCESSIVE OPERATIONS ON MATERIALS
Walter F. Newhouse, Benton Harbor, Mich.
Application August 3, 1940, Serial No. 350,969
33 Claims. (Cl. 1—8.2)



1. The process of making wirebound box blanks, by feeding the blanks continuously and stapling them while they are moving along, comprising the maintaining of the timing of the stapling strokes constant, while effecting acceleration with retardation in the feeding of the blanks, with the retarded feed of power entirely open and inoperative during each accelerated feed of power to the blanks, thereby to locate the staples at predetermined points thereon, and controlling said feed so that stapling occurs during only one speed of feeding.

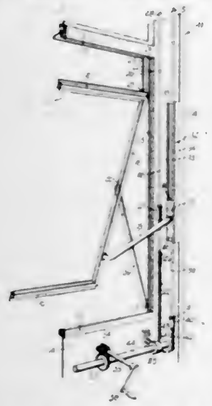
2,315,541
HEATING SYSTEM
Frederick N. Osterkorn, Freehold, N. J., assignor to Economy Valve Company, a copartnership consisting of Herman D. Jaffe, Nathan Feldstern, and said Frederick N. Osterkorn
Application December 10, 1937, Serial No. 179,056
10 Claims. (Cl. 237—68)

1. In a heating system, in combination with a boiler adapted to contain a body of water, means to heat the water contained in said boiler to cause alternating or spasmodic surges or pulsations in said water, a radiator located at a distance from the boiler, and connections between



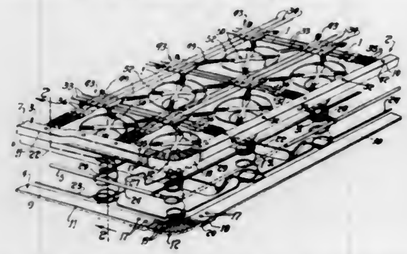
said boiler and said radiator, an air-venting valve associated with said radiator and actuated by said pulsations to permit the escape of air corresponding to the outward impulses of the alternating or spasmodic surges or pulsations in said system.

2,315,542
WINDOW
Edmund Peremi and Louis Toth, Manhasset, N. Y.
Application June 22, 1939, Serial No. 280,536
7 Claims. (Cl. 268—21)



1. An operator for a window sash mounted for pivotal and sliding movement within a frame comprising, in combination, means forming a vertically extending channel on said frame, a block slidably mounted in said channel, a link pivotally connected to said block and to said sash adjacent a lower corner thereof, the body of said link lying inside of the plane of said window and adapted upon vertical movement of said block to effect pivotal and slidable movement of said window, a second link having one end pivotally connected to the outside of a lower corner of said frame and its other end pivotally connected to the outside of said sash at a point spaced above the pivotal connection between the window and said first-mentioned link whereby said links are crossed when the sash is open and lie one inside of the sash and one outside of the sash respectively when the sash is closed, means for operating said block to pivot said first-mentioned link and accordingly operate the window, sprocket and chain means connected to said block and operable to effect slidable movement thereof and means for rotating said sprocket means.

2,315,543
SPRING STRUCTURE
James Piliero, Long Island City, and Nathan Goldberg, New York, N. Y., assignors, by mesne assignments, to Dickson Wire & Cable Corporation, Long Island City, N. Y., a corporation of New York
Application February 7, 1938, Serial No. 189,032
16 Claims. (Cl. 5—248)



15. In a spring structure, in combination, a frame having two spaced parallel rigid angle end members with horizontal inwardly extending top flanges, a plurality of vertical coil springs mounted in said frame and arranged in parallel rows extending longitudinally between said end members, a plurality of parallel sets of parallel round cables extending between certain of said rows of springs in parallel relation thereto, each of said sets consisting of three cables, a plurality of plates riveted to the under sides of said flanges and each plate having three eyes, said plates being located respectively adjacent the ends of said sets of cables, a plurality of individual sleeves secured respectively about the ends of said cables and each having an eye, a plurality of individual coil tension springs respectively connecting the sleeves on the ends of said cables of said sets respectively to said plates, each tension spring at one end engaging in the eye of the associated sleeve and at the other end engaging in one eye of the associated plate, and a plurality of connecters for tying said sets of cables to the top convolutions of said vertical springs, each connecter comprising plate means formed with three spaced parallel recesses through which the cables of the associated set extend and in which said cables are confined out of direct contact with each other and in definite spaced relation, and individual coil tension springs yieldably connecting each of said plate means to the upper convolutions of the four adjacent vertical springs.

2,315,544
ADDITION AGENT FOR LUBRICATING OIL AND METHOD OF MAKING SAME
Raymond Reuter, Medford Lakes, N. J., assignor to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania
No Drawing. Original application February 20, 1940, Serial No. 319,840. Divided and this application December 7, 1940, Serial No. 369,121
4 Claims. (Cl. 260—461)

4. An addition agent for hydrocarbon oils comprising an ester of phosphorous acid corresponding to the formula:

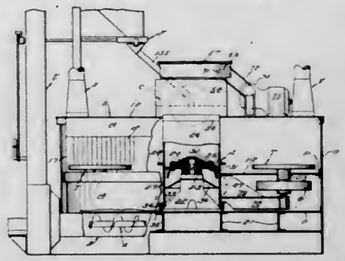


wherein R is an octyl phenoxy ethyl radical, R′ is a cresyl radical, and R″ is of the group consisting of octyl phenoxy ethyl and cresyl radicals.

2,315,545
METHOD OF TREATING CELLULOSIC MATERIAL
Eric Owen Ridgway, Upper Montclair, N. J., assignor to Ridbo Laboratories, Inc., Nutley, N. J., a corporation of New Jersey
No Drawing. Application September 27, 1939, Serial No. 296,843
11 Claims. (Cl. 8—123)

4. The method of treating cellulosic textile material to remove the impurities and surface fuzz, which comprises first thoroughly impregnating said material in a solution of copper sulphate, then immersing the impregnated material in a bath of ammonium hydroxide and sodium hydroxide, retaining excess caustic solution on the surface of the material to limit the reaction in the following bath to the surface fuzz, then briefly immersing the material in a solution of copper ammonium chloride, said solution having a concentration within the range equivalent to 51 to 64 grams per litre metallic copper, and finally washing the reagents from the material.

2,315,546
ABRADING APPARATUS
William A. Rosenberger, Hagerstown, Md., assignor to Pangborn Corporation, Hagerstown, Md., a corporation of Maryland
Application August 31, 1936, Serial No. 98,783
12 Claims. (Cl. 51—9)

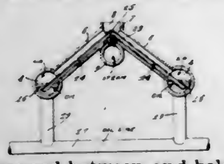


12. In an abrading apparatus, a housing, means on said housing to project a stream of abrasive therein at blasting velocity to define a blasting zone, and means to convey work through said blasting zone comprising a substantially vertical member in said housing, a substantially vertical cylindrical shell of a materially greater diameter than said member encircling and spaced from said member, a bearing between an upper part of said cylindrical shell and said vertical member to rotatably mount said shell, a plurality of radiating arms supported by and extending radially from a section of said shell adjacent the bottom thereof, work supporting means on said arms, and means to effect rotation of said shell to move said work supporting means into and out of said blasting zone.

2,315,547
GAS AND OIL BURNER
James M. Ryan, Pearsall, Tex.
Application April 10, 1941, Serial No. 387,947
1 Claim. (Cl. 158—75)

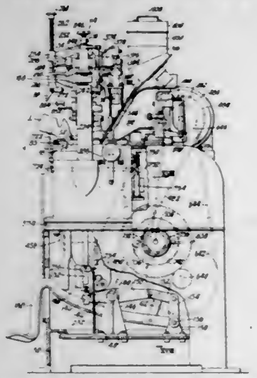
A fuel burner, comprising a pair of spaced parallel hollow manifold pipes, means for supplying a liquid fuel thereto, convergent connector pipes attached at their lower ends to and in communication with the manifold pipes, a vertical hollow open-topped mixing and combustion chamber communicating with the upper ends of the convergent connector pipes, lifter tubes of a

bore smaller than that of the connector pipes arranged in the connector pipes with their upper ends terminating substantially at the center of the mixing and combustion chamber, a steam



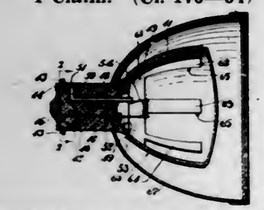
manifold arranged between and below the upper ends of the connector pipes, and steam jets communicating with the steam manifold and extending into the connector pipes and discharging steam between the ends of the lifter tubes.

2,315,548
MACHINE FOR OPERATING UPON WORK
August R. Schoenky, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application January 2, 1941, Serial No. 372,749
41 Claims. (Cl. 144—278)



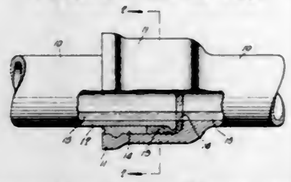
2. In a power-operated machine, an operating tool, gaging means for determining the position of the work relatively to said operating tool, means for clamping the work in said position, a member for starting the power operation of the machine, and means for locking said member against movement in the direction to start the machine and for releasing it for movement in that direction only when the work is clamped in the position determined by said gaging means.

2,315,549
INCANDESCENT ELECTRIC LAMP
Grover C. Singer, Brownsville, Tex.
Application November 2, 1940, Serial No. 364,084
1 Claim. (Cl. 176—34)



An incandescent electric lamp comprising a base, a bulb formed integrally with the base, said base and bulb being formed of transparent and non-conducting material, the inner end of the base being curved along an arc throughout the entire surface area thereof to form the bottom of the bulb, a reflecting material covering the entire curved surface area of the inner end of the base, and reflecting material covering the side walls of the bulb, the last mentioned material being provided with spaced slots around the exterior surface of the bulb.

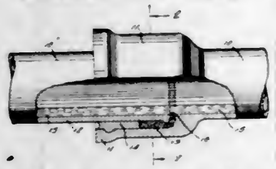
2,315,550
TREATMENT IN GAS DISTRIBUTION SYSTEMS
John R. Skeen, Philadelphia, Pa., assignor to The United Gas Improvement Company, a corporation of Pennsylvania
Application October 24, 1938, Serial No. 236,822
8 Claims. (Cl. 48—190)



3. A method for treating fibrous packing such as jute and hemp in a joint of a gas distribution system to reduce gas leakage therethrough, comprising impregnating said packing with a cellulosic fiber swelling agent selected from a group consisting of ethylene glycol, diethylene glycol, monomethyl ether of ethylene glycol, monomethyl ether of diethylene glycol and glycerine by bringing said agent into contact with said packing in the presence of one of a group consisting of quinoline and isoquinoline.

4. A method for laying dust in the interior of a gas distribution system having dust sources, comprising enveloping said dust sources with a dust laying liquid selected from a group consisting of ethylene glycol, diethylene glycol, monomethyl ether of ethylene glycol, monomethyl ether of diethylene glycol, and glycerine by bringing said liquid into contact with said dust sources in the presence crude coal tar quinoline.

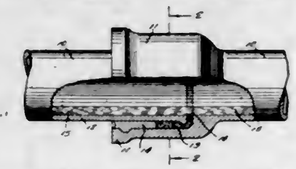
2,315,551
TREATMENT IN GAS DISTRIBUTION SYSTEMS
John R. Skeen, Philadelphia, Pa., assignor to The United Gas Improvement Company, a corporation of Pennsylvania
Application June 10, 1939, Serial No. 278,499
9 Claims. (Cl. 48—190)



3. A method for laying dust in the interior of a gas distribution conduit having dust deposits along the bottom thereof, comprising enveloping said dust deposits with a dust laying liquid selected from a group consisting of ethylene glycol, diethylene glycol, monomethyl ether of ethylene glycol, monomethyl ether of diethylene glycol, and glycerine by bringing said liquid into contact with said dust sources in the presence of one of a group consisting of acetophenone, benzophenone, orthohydroxyacetophenone, acetone, diacetone alcohol, and mesityl oxide.

5. A joint in a gas distribution system comprising spaced cooperating elements, cellulosic fibrous packing such as jute and hemp between said cooperating elements positioned to form a seal and a liquid mixture absorbed by said packing, said liquid mixture comprising at least one of a group consisting of ethylene glycol, diethylene glycol, monomethyl ether of ethylene glycol, monomethyl ether of diethylene glycol, and glycerine and at least one of a group consisting of acetophenone, benzophenone, orthohydroxyacetophenone, acetone, diacetone alcohol and mesityl oxide.

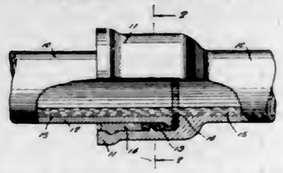
2,315,552
TREATMENT IN GAS DISTRIBUTION SYSTEMS
John R. Skeen, Philadelphia, Pa., assignor to The United Gas Improvement Company, a corporation of Pennsylvania
Application June 10, 1939, Serial No. 278,500
9 Claims. (Cl. 48—190)



2. A method for reducing gas leakage through cellulosic fibrous packing in a joint of a gas distribution system, comprising impregnating said packing with a cellulosic fiber swelling agent selected from a group consisting of ethylene glycol, diethylene glycol, monomethyl ether of ethylene glycol, monomethyl ether of diethylene glycol, and glycerine by bringing said agent into contact with said packing in the presence of one of a group consisting of benzyl alcohol, alpha phenyl ethyl alcohol, and beta phenyl ethyl alcohol.

3. A method for laying dust in the interior of a gas distribution system having dust sources, comprising enveloping said dust sources with a dust laying liquid selected from a group consisting of ethylene glycol, diethylene glycol, monomethyl ether of ethylene glycol, monomethyl ether of diethylene glycol, and glycerine by bringing said liquid into contact with said dust sources in the presence of one of a group consisting of benzyl alcohol, alpha phenyl ethyl alcohol, and beta phenyl ethyl alcohol.

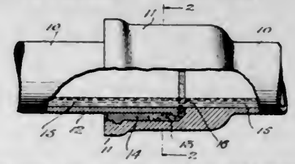
2,315,553
TREATMENT IN GAS DISTRIBUTION SYSTEMS
John R. Skeen, Philadelphia, Pa., assignor to The United Gas Improvement Company, a corporation of Pennsylvania
Application June 10, 1939, Serial No. 278,501
8 Claims. (Cl. 48—190)



2. A method for reducing gas leakage through cellulosic fibrous packing in a joint of a gas distribution system, comprising impregnating said packing with a cellulosic fiber swelling agent selected from a group consisting of ethylene glycol, diethylene glycol, monomethyl ether of ethylene glycol, monomethyl ether of diethylene glycol, monomethyl ether of ethylene glycol and glycerine by bringing said agent into contact with said packing in the presence of a nuclearly methylated aniline.

3. A method for laying dust in the interior of a gas distribution system having dust sources, comprising enveloping said dust sources with a dust laying liquid selected from a group consisting of ethylene glycol, diethylene glycol, monomethyl ether of ethylene glycol, monomethyl ether of diethylene glycol, and glycerine by bringing said liquid into contact with said dust sources in the presence of a nuclearly methylated aniline.

2,315,554
TREATMENT IN GAS DISTRIBUTION SYSTEMS
John R. Skeen, Philadelphia, Pa., assignor to The United Gas Improvement Company, a corporation of Pennsylvania
Application June 19, 1939, Serial No. 279,811
10 Claims. (Cl. 48—190)



2. A method for reducing gas leakage through cellulosic fibrous packing in a joint of a gas distribution system, comprising impregnating said packing with a cellulosic fibre swelling agent selected from a group consisting of ethylene glycol, diethylene glycol, monomethyl ether of ethylene glycol, monomethyl ether of diethylene glycol, and glycerine by bringing said agent into contact with said packing in the presence of a methyl quinoline.

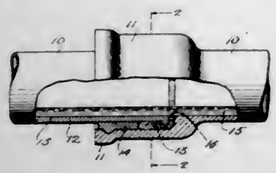
3. A method for laying dust in the interior of a gas distribution conduit having dust deposits along the bottom thereof, comprising enveloping said dust deposits with a dust laying liquid selected from a group consisting of ethylene glycol, diethylene glycol, monomethyl ether of ethylene glycol, monomethyl ether of diethylene glycol, and glycerine by bringing said liquid into contact with said dust sources in the presence of a methyl quinoline.

2,315,555
TREATMENT OF GAS DISTRIBUTION SYSTEMS
John R. Skeen, Philadelphia, Pa., assignor to The United Gas Improvement Company, a corporation of Pennsylvania
Application July 22, 1939, Serial No. 285,942
6 Claims. (Cl. 48—190)

1. A method for reducing gas leakage through cellulosic fibrous packing in a joint of a gas distribution system, comprising impregnating said packing with a cellulosic fiber swelling agent selected from a group consisting of ethylene glycol, diethylene glycol, mono methyl ether of ethylene glycol, mono methyl ether of diethylene glycol, and glycerine by bringing said agent into contact with said packing in the presence of mono phenyl ether of ethylene glycol.

2. A method for laying dust in the interior of a gas distribution conduit having dust deposits

along the bottom thereof, comprising enveloping said dust deposits with a dust laying liquid selected from a group consisting of ethylene glycol, diethylene glycol, mono methyl ether of ethylene



glycol, mono methyl ether of diethylene glycol, and glycerine by bringing said liquid into contact with said dust sources in the presence of mono phenyl ether of ethylene glycol.

2,315,556

PROCESS FOR PRODUCING HYDROXY-DIARYL SUBSTITUTED ETHANE

Frank J. Soday, Upper Darby, Pa., assignor to The United Gas Improvement Company, a corporation of Pennsylvania

No Drawing. Application March 30, 1939, Serial No. 264,967
10 Claims. (Cl. 260—619)

1. A process for the production of hydroxy-diphenyl ethane comprising contacting a light oil styrene fraction with hydrogen chloride to form phenyl chlorethane, reacting said phenyl; chlorethane with phenol in the presence of aluminum chloride, and separating hydroxy-diphenyl ethane from the reaction mixture.

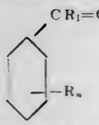
2,315,557

COMPOSITION OF MATTER AND METHOD FOR ITS PREPARATION

Frank J. Soday, Swarthmore, Pa., assignor to The United Gas Improvement Company, a corporation of Pennsylvania

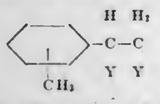
No Drawing. Application April 10, 1940, Serial No. 328,897
12 Claims. (Cl. 260—488)

1. A process for preparing a halogen derivative of substituted styrene which comprises reacting a substituted styrene with a compound capable of yielding a hypohalogen acid under the conditions of reaction; said substituted styrene having the general structural formula:



wherein R represents a substituent selected from the groups consisting of alkyl, aryl and aralkyl groups; *n* represents the fact that from one to five substituents may be present in the nucleus; and R_1, R_2, and R_3 each represents a substituent selected from the groups consisting of hydrogen, alkyl, aryl and aralkyl groups.

10. A compound having the following structural formula:



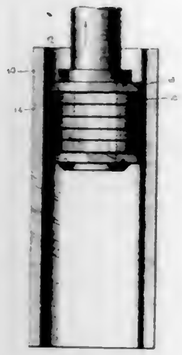
in which one Y represents a halogen, and the other Y represents a fatty acid radical.

2,315,558

METHOD OF STRENGTHENING TUBULAR METALLIC OBJECTS

Howard E. Somes, Detroit, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa., a corporation of Michigan

Application April 11, 1940, Serial No. 329,053
4 Claims. (Cl. 148—13)



1. The method of enhancing the strength of a metallic tubular object which comprises first differentially heating and quenching the object to provide an annular internal hardened zone under residual compression stress and an external materially less hard zone under residual tension stress with a ratio of thicknesses respectively of said internal and external zones which is greater than the ratio of the yield strengths respectively of said external and internal zones, then tensile stressing the metal of the external zone beyond its elastic limit to give permanent set thereto by expanding the metal of the internal zone through momentary heating at a temperature less than momentary drawing temperature and with such rapidity as to preclude the transfer of heat from the internal to the external zone prior to stressing the external zone beyond its elastic limit, and finally cooling the object, whereby upon contraction of the internal zone the external and internal zones will be placed under compression and tension stresses respectively.

2,315,559

PROCESS OF SPINNING VISCOSE

Johann Joseph Stoeckly, Teltow-Seehof, and Wolfgang Linnhoff, Berlin-Lankwitz, Germany, assignors to North American Rayon Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application June 15, 1939, Serial No. 279,360. In Germany June 16, 1938
18 Claims. (Cl. 18—54)

1. In a process of spinning viscose rayon, the steps which comprise projecting the spinning solution through minute orifices of a metal spinneret into an acid coagulating bath devoid of zinc and containing a soluble iron salt in an amount sufficient to delay the decomposition to cellulose hydrate and then stretching the freshly spun yarn while subjecting the yarn being stretched to the action of an aqueous heating liquid at a temperature above 60° C., whereby incrustation of the orifices of said spinneret is substantially inhibited.

2,315,560

METHOD FOR PRODUCING HIGH STRENGTH AND CRIMPED STAPLE FIBERS FROM VISCOSE

Johann Joseph Stoeckly, Teltow-Seehof, and Wolfgang Linnhoff, Berlin-Lankwitz, Germany, assignors to North American Rayon Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application July 7, 1939, Serial No. 283,228. In Germany July 13, 1938
4 Claims. (Cl. 18—54)

2. In the process of producing crimped, high-strength staple fibers, the steps in sequence which comprise projecting a viscose solution into a primary, aqueous spin bath at a temperature of about 40 to 60° C. to form a multi-filament thread, stretching said thread in a secondary, aqueous bath maintained at a temperature of about 60 to 100° C. to form an elastic, stretched thread, instantly cutting said elastic, stretched thread under tension into staple fibers and instantly immersing said staple fibers into a liquid maintained at a temperature sufficiently high to rapidly remove carbon bisulphide from said fibers, said primary bath comprising about 50 to 400 grams of sulphuric acid and about 10 to 100 grams of dissolved iron salt per liter of water.

2,315,561

SUPPORTING GARMENT

Mabel S. Strait, Conway, Ark.

Application April 18, 1940, Serial No. 330,261
7 Claims. (Cl. 2—43)



1. A garment formed to surround and support the abdomen of the wearer and comprising a front section having two oppositely inclined sets of shingled transverse webs crossed substantially centrally, affording a shingled set of crossed pairs of webs, the webs of each crossed pair being secured together, and a tape at the inner side of said section and anchored by said securings, the run of said tape between two successive securings being longer than the extent of overlap of the two pairs connected by said run when the body is erect, whereby said two pairs are capable of overlapping each other in increasing amounts in response to forward bending of the wearer's body.

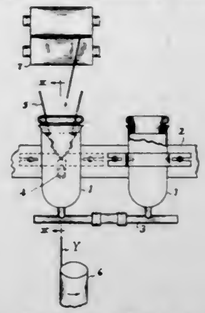
2,315,562

YARN-TWISTING MACHINE

Reinhold F. Stuewer, Scranton, Pa., assignor to Grove Silk Company, a corporation of Pennsylvania

Application October 1, 1941, Serial No. 413,153
2 Claims. (Cl. 57—35)

1. In yarn-treating apparatus the combination of yarn-sizing means with yarn-twisting means, the yarn-twisting means including a spinning bobbin, a take-up bobbin, and a traverse bar arranged between the spinning bobbin and the



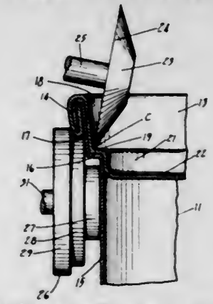
take-up bobbin, and the sizing means consisting of a cup for sizing liquid equipped with a yarn guide and borne by the traverse bar.

2,315,563

CONTAINER

Russell C. Taylor, Greenwich, Conn., assignor to American Can Company, New York, N. Y., a corporation of New Jersey

Application December 30, 1939, Serial No. 311,917
1 Claim. (Cl. 220—48)



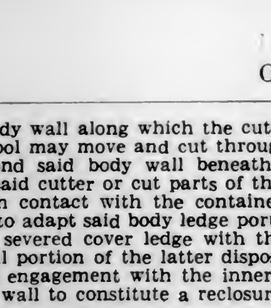
A sealed sanitary reclosure container adapted to be opened by a cutting tool without contacting the container contents, comprising a container body having a wall including an upper laterally offset portion of substantial depth constituting a seat for the exterior portion of a cutting tool, said offset body wall portion being of greater diameter than and connected to the major portion of said wall by a substantially horizontal ledge portion, the major portion of said body wall being of substantially uniform diameter and constituting at its upper end a friction seat for an end closure member, and an end closure member secured to said body flange in a seamed joint disposed a substantial distance above said ledge portion so as to cooperate with said body wall seat in supporting said exterior portion of said cutting tool exteriorly of the can body, said closure member having an outer substantially vertical wall portion disposed in close engagement with the outwardly offset wall portion of said body and an integral inwardly offset substantially vertical wall portion disposed in close frictional engagement with the inner surface of said body wall closure seat and connected to the outer wall portion of the closure member by a substantially horizontal ledge disposed in close engagement with the said ledge portion of the container body, thereby providing a cutter element supporting ledge having a line of severance spaced radially outwardly from the major portion of the con-

tainer body wall along which the cutter element of said tool may move and cut through said end closure and said body wall beneath said joint without said cutter or cut parts of the container coming in contact with the container contents, whereby to adapt said body ledge portion to support the severed cover ledge with the inwardly offset wall portion of the latter disposed in snug frictional engagement with the inner surface of the body wall to constitute a reclosure assembly.

2,315,564
ART OF COATING AND FABRICATING STEEL ARTICLES
John S. Thompson and Edwin W. Goodspeed, Detroit, Mich., assignors to Parker Rust-Proof Company, Detroit, Mich.
No Drawing. Application March 27, 1941, Serial No. 385,526
8 Claims. (Cl. 148—6.5)

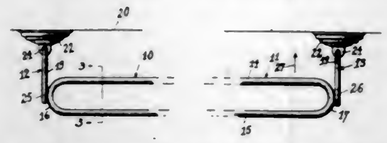
2. In the art of obtaining corrosion resistant paint holding coatings upon surfaces of iron and steel by means of non-electrolytic chemical treatment, the process which comprises applying to surfaces of iron and steel a film of an aqueous solution of chromic acid free from activator ions, baking the film to dry it and bring about a chemical reaction rendering it substantially insoluble, and thereafter applying over said chemical coating a siccative coating.

2,315,565
BIMETALLIC ELEMENT
Romaine George Waltenberg, Roselle, N. J., assignor to The H. A. Wilson Company, Newark, N. J., a corporation of New Jersey
Application September 14, 1940, Serial No. 356,785
3 Claims. (Cl. 297—15)



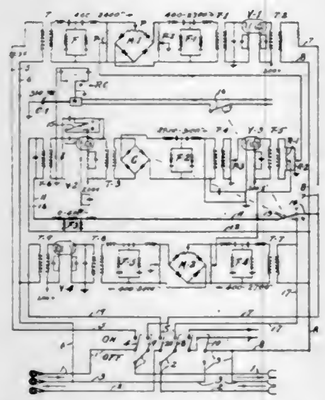
1. A bimetal comprising two metal members that expand at different rates upon heating, the expansion of the first of said members being slightly less than the expansion of the second member at relatively low temperatures, substantially greater than the expansion of the second member at relatively elevated temperatures and substantially the same as the expansion of the second member at an intermediate temperature, whereby the bimetal first deflects slightly in one direction at the relatively low temperatures, becomes undeflected at the intermediate temperature, and deflects sharply in the opposite direction at the relatively elevated temperatures, both members being low-expanding nickel steels containing of the order of 27% to 40% nickel and from about 0.9% to about 3% molybdenum, the second member having a cobalt content ranging from about 10% to about 18%, and the first member having a cobalt content less than about 2%, the balance of both members being substantially iron.

2,315,566
TOWEL RACK
Henry J. Watral, Queens Village, and Joseph Helenek, Elmhurst, N. Y.
Application August 17, 1940, Serial No. 353,072
5 Claims. (Cl. 211—123)



1. In a supporting rack for towels and the like, two supporting bars proper spaced apart from one another, and means to secure said bars on a substantially vertical surface, like a wall, said bars being spaced apart from said surface, said bars being formed of one piece of wire bent into an elongated shape, and said securing means having a right hand and left hand member, said continuous elongated wire piece being secured to respective members at its two ends, each of said securing members including an S shaped bracket, the lower end thereof being adapted to rest against said surface, and securing means proper having an opening to receive the upper end of the S shaped bracket.

2,315,567
SECRET SIGNALING SYSTEM
Edwin Yates Webb, Jr., Atlanta, Ga., assignor of one-fourth to Herbert L. Davis, Washington, D. C.
Application March 15, 1941, Serial No. 383,611
17 Claims. (Cl. 179—1.5)

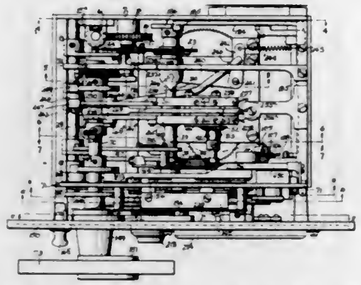


1. The method of secret telephony between stations of a communications system, which comprises: generating a low frequency current at one station and transmitting it through the line to the other station, generating a harmonic of the low frequency current to form the same carrier at each station, modulating the carrier at either station in accordance with speech, selecting the lower side band from the modulated carrier, balancing the carrier out of the selected side band, and transmitting the inverted speech current resulting from modulation of the carrier in accordance with speech to the line for reception by the other station and for demodulation with the carrier in that other station to reproduce the original speech.

2,315,568
CLEANING STEEL SURFACES
Christian J. Wernlund, Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 28, 1939, Serial No. 296,973
7 Claims. (Cl. 204—145)

1. A process for cleaning the surface of a ferrous metal article, which comprises making said article the anode in an electrolyte consisting essentially of a solution containing sulfocyanide ions in concentration equivalent to at least about 2 ounces per gallon of alkali metal sulfocyanide and thereafter contacting said article with an acid solution which is capable of dissolving iron oxides.

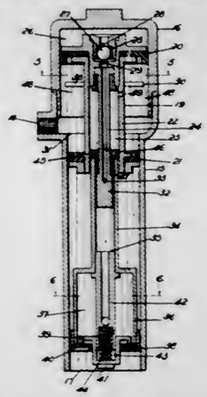
2,315,569
DASHPLATE COMPARTMENT TAXIMETER
Henry W. White, Houston, Tex.
Application October 15, 1938, Serial No. 235,226
5 Claims. (Cl. 235—30)



1. In a taximeter, a cam shaft including cam means thereon, an operating shaft, means for driving said shaft, a releasable connection between said means and said shaft, a semaphore flag on said cam shaft, a cam sleeve on said operating shaft, a lever pivoted to move toward and away from said cam sleeve, a lug on said lever adapted to engage and rotate said cam sleeve and operating shaft through a partial rotation to a predetermined position, and means responsive to the rotation of said cam shaft and cam means through the movement of said flag to disconnect said driving connection and to operate the said lever.

2,315,570
INTERMITTENT FLOW VALVE
William S. White, Denver, Colo.
Application April 22, 1940, Serial No. 330,982
6 Claims. (Cl. 137—145)

1. An intermittent flow valve comprising a cylindrical housing element of two different adjacent internal diameters having a side inlet for liquid under pressure, the outer end of the larger diameter portion of said housing being closed and the outer part of the smaller diameter portion thereof being open to the atmosphere, a double-acting piston element inclusive of spaced heads of different diameters positioned in the cylindrical housing at opposite sides of said inlet and connected by a hollow intermediate portion of less diameter than either head, the piston element defining an annular inlet chamber within the housing and between said heads, a discharge valve in the housing adjacent said atmospheric opening but not closing said opening and having a hollow conductive discharge stem extending through said smaller piston head and into the hollow connective portion of said piston element in piston-like slidable relationship thereto, there being a conductive passage from said annular inlet chamber through a wall of said hollow connective portion into the interior of said piston element above the said stem therein, two-way bleeder means in the larger piston head establishing communication between the hollow interior of the piston element and the closed larger end portion of the cylindrical housing, means on said piston element positioned to engage said discharge valve stem to push the valve open upon movement of the piston element theretoward and to close temporarily said conductive passage through said valve stem, means in the housing to stop movement of the piston element toward said discharge valve, the valve stem being slidable by liquid pressure within the hollow piston element away from said stem-closing means when movement of the piston is so stopped, thereby establishing an open conductive passage from the interior of the piston element through the discharge valve to the atmosphere, and means on the piston element for moving the discharge valve to its closed position when said piston element moves in the opposite direction.

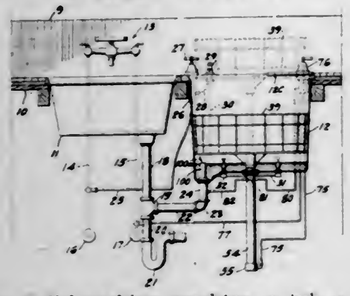


2,315,571
ELECTRICALLY OPERATED GARAGE DOOR
Reuben M. Wilder, Hayward, Calif.
Application April 7, 1941, Serial No. 387,163
6 Claims. (Cl. 268—59)



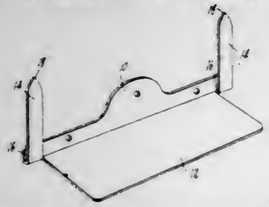
1. A power operated door operating device comprising an elongated threaded bar, a pipe of substantially larger internal diameter than and embracing said threaded bar, closures on the ends of said pipe forming of it a grease tight receptacle and supporting said threaded bar for rotation and through one of which closures said bar rotatably projects, means for making a power connection to the projecting end of said bar for rotating the same, a threaded nut on said threaded bar free to travel back and forth in said pipe when the bar is rotated, means preventing said nut from turning as said bar is rotated, a passageway for grease between said nut and said pipe, and a rod secured at one end to said nut extending along the threaded bar in the pipe and slidably extending out of a hole in one of said closures, and means at the outer end of said rod adapted for making a power connection.

2,315,572
DISHWASHING MACHINE
Raymond W. Wilson, Glendale, Calif.
Application May 31, 1940, Serial No. 338,136
14 Claims. (Cl. 141—9)



1. In a dishwashing machine, a tub, a cylinder secured to and suspended from the bottom of said tub, a tubular plunger arranged for reciprocating movement in said cylinder, a receptacle supporting frame within said tub carried by the upper end of said plunger means for supplying fluid under pressure to said cylinder to raise said plunger, yieldable means fastened within said plunger and acting in opposition to said fluid under pressure, conduit means by-passing a portion of the fluid from one end of said cylinder into the opposite end thereof during the down stroke of said plunger, said fluid by-passed into said cylinder acting in opposition to the upstroke of said plunger to retard it, and conduit means to by-pass the latter fluid on the upstroke of said plunger completely from the device.

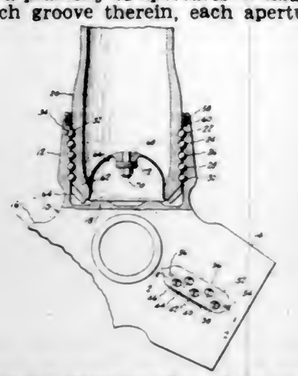
2,315,573
BRACKET FOR CARTONS
Alexander Yaffa, Boston, Mass.
Application September 28, 1942, Serial No. 459,969
4 Claims. (Cl. 248—310)



3. A wall bracket for supporting a carton or the like, comprising a single piece of sheet metal having a horizontal shelf portion, a vertical plate portion at the rear edge of the shelf portion, and a pair of prongs projecting up from the plane of the shelf portion and spaced slightly forward from the plate portion.

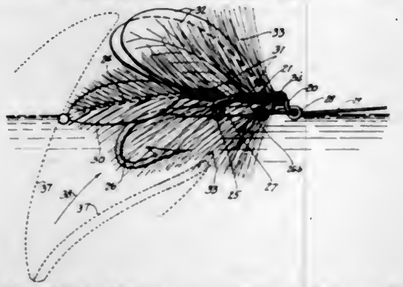
2,315,574
PROPELLER BLADE MOUNTING
John E. Anderson, Portland, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application March 9, 1940, Serial No. 323,054
4 Claims. (Cl. 170—162)

1. In a propeller blade mounting including a blade shank and a shank receiving hub socket, a set of substantially parallel grooves in the socket included portion of said blade, a set of substantially parallel grooves in said socket, one set of grooves having an elongated cross-sectional shape, and a plurality of apertures in said socket one for each groove therein, each aperture ex-



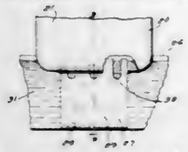
tending from the bottom portion of the respective groove with its center line oblique to the plane of said respective groove.

2,315,575
DETACHABLE FISHING FLY OR LURE
Grover R. Austad, Salt Lake City, Utah
Application October 20, 1939, Serial No. 300,449
18 Claims. (Cl. 43—48)



1. A fishing device, comprising a lure, a lure mounting having fastening means, a fish hook engageable substantially parallel with, or disengageable from, the said mounting while constantly preserving the individual integrity of the said mounting with its fastening, and the said hook, and a line permanently fastened to the said fish hook; the said fishing device further, being characterized by the fact that the said lure mounting when disengaged from the hook is at the same time free of the said permanently fastened line.

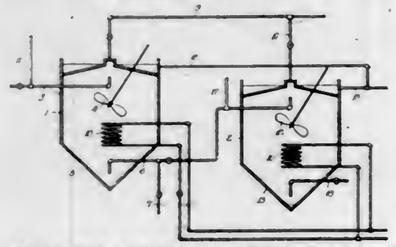
2,315,576
SEALING OF SEAMED RUBBER ARTICLES
John M. Auzin, Warwick, R. I., assignor to Davol Rubber Company, a corporation of Rhode Island
Application July 25, 1940, Serial No. 347,379
1 Claim. (Cl. 154—42)



The method of forming a finished seam in hollow rubber articles having open seam edges, comprising the steps of dipping the open seam

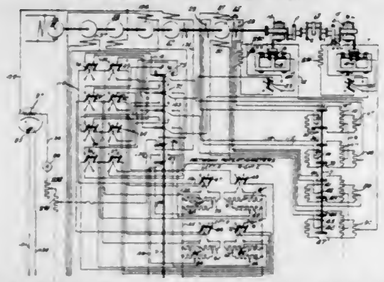
edges in rubber solution while holding the seam edges sufficiently distended to permit flow of rubber solution into and around the seam, and then withdrawing the edges from the rubber solution and permitting the open seam edges to close, whereby gravity flow of the rubber solution provides a smooth finish on both the interior and the exterior of the seam.

2,315,577
TREATMENT OF SLUDGE
Hermann Bach, Berlin, Germany, assignor to Infilco Incorporated, a corporation of Delaware
Application July 7, 1939, Serial No. 283,262
3 Claims. (Cl. 210—2)



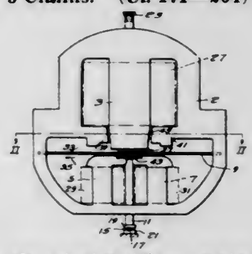
1. A method of digestion as described comprising mesophilically digesting sludge in manner and for a period sufficient substantially to lead to a peak of gas evolution and thereupon subjecting the sludge to thermophilic digestion..

2,315,578
APPARATUS FOR BALANCING
John G. Baker, Evansville, Wis., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 23, 1939, Serial No. 263,703
8 Claims. (Cl. 73—53)



1. A device for analyzing the amount of unbalance of a rotor having four preselected balancing points on the surface thereof, the unbalance components of which are to be determined, the first two of said points being in one axial plane and the second two being in a separate axial plane, comprising, in combination, means for yieldably mounting said rotor so as to allow free oscillation thereof in at least one plane as the result of the unbalance of the rotor, electromagnetic means, responsive to said oscillations, generating an electrical current which is proportional to the amount of unbalance of said rotor, electrical potentiometer means for nullifying the electrical current component caused by unbalance at one of said first two balancing points, a second electrical means for nullifying the electrical current components caused by unbalance at said second two of said balancing points, and means for combining both said electrical means and for measuring the non-nullified electrical component and which is indicative of the unbalance at the other of said first two points.

2,315,579
ELECTRICAL MEASURING DEVICE
Thomas D. Barnes, West Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 7, 1942, Serial No. 425,903
5 Claims. (Cl. 171—264)

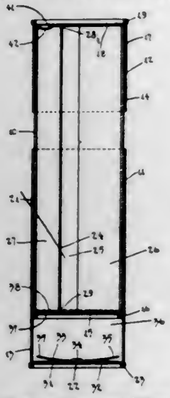


5. In an electrical watthour meter for measuring energy flowing in an electrical circuit, a magnetic core having a voltage pole element and current pole elements positioned with their pole faces defining an air gap, said magnetic core being designed to provide a pair of symmetrically arranged magnetic paths terminating adjacent opposite sides of the pole face of said voltage pole element for diverting a portion of the voltage magnetic flux flowing in said voltage pole element away from said air gap, means for producing in said air gap a shifting magnetic field moving across the pole face of said voltage pole element from one of said sides towards the other of said sides and dependent on the value of the energy to be measured, an electroconductive armature structure, means mounting said armature structure in said air gap for rotation under the influence of said shifting magnetic field, said mounting means including means opposing rotation of said armature structure with a retarding force which increases for a decrease in the temperature of said watthour meter, and means compensating said watthour meter for errors introduced by said retarding force, said compensating means comprising a magnetic member having a negative temperature coefficient of permeability positioned in one of said magnetic paths for modifying the symmetry of said magnetic paths relative to the pole face of said voltage pole element, the modification of the symmetry of said magnetic paths being designed to produce a shifting magnetic field component acting in opposition to, and substantially balancing said retarding force over a substantial range of temperature variation, and light load adjusting means for adjusting the torque applied to said armature structure at a light loading of said watthour meter.

2,315,580
MANUFACTURE OF PHYTYL BROMIDE
Robert Behnisch, Wuppertal-Elberfeld, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York
No Drawing. Application February 27, 1940, Serial No. 321,067. In Germany March 21, 1939
4 Claims. (Cl. 260—654)

1. The process which comprises reacting upon phytol with concentrated bromine-free aqueous hydrobromic acid.

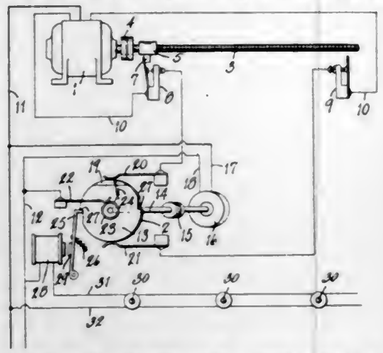
2,315,581
POWDER SPRAYER
Henry J. Berenson, St. Paul, Minn., assignor to Mueller Can & Tube Co., St. Paul, Minn., a corporation of Minnesota
Application September 18, 1940, Serial No. 357,193
3 Claims. (Cl. 221—61)



3. A powder sprayer comprising a receptacle having end walls, a member within said receptacle providing an air duct extending from one end wall thereof to the other, said member having a laterally extending opening therein at one end, the end wall of said receptacle adjacent said opening having an inlet causing the air entering said duct to travel at right angles to said opening and inducing a suction through said opening tending to draw the powder into the duct, through said opening, the other end of said receptacle having a discharge outlet therein communicating with said duct, said member having another opening at its other end in proximity to said discharge outlet, said discharge outlet being of sufficiently small cross sectional area to create pressure within said duct forcing air into the receptacle through the opening in said member adjacent the discharge outlet, the action of the air passing through the duct causing the entry of powder into the duct through the opening in said member adjacent the inlet opening and resulting in the spraying of the powder and air on leaving the discharge outlet.

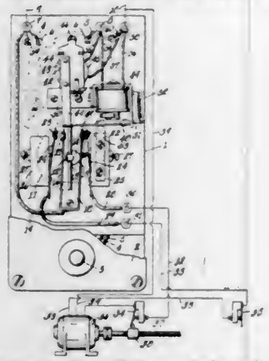
2,315,582
MOTOR CONTROL
Herbert Cady Blodgett, Hartford City, Ind., assignor to Overhead Door Corporation, Hartford City, Ind.
Application September 30, 1940, Serial No. 359,050
15 Claims. (Cl. 175—375)

1. In a delayed action reversing control of the type described, a rotor having a c ductive segment thereon, conducting members disposed in predetermined angular spacing in contact with said rotor for alternate engagement by said segment, an auxiliary motor connected to the rotor for exerting rotative effort on the latter at all times, a movable detent disposed adjacent the rotor, said rotor having stops disposed thereon in angularly spaced, predetermined relation to said segment, and engageable with said detent to normally prevent rotation of the rotor and maintain said segment in electrical engagement with one of said conducting members, an electromagnet associated with the detent to momentarily disengage the same from and permit rotation of the rotor when the electromagnet is energized, said detent engaging another stop following a predetermined delay period represented by the rotation of the rotor and engagement of the segment with another conducting member, a switch



and energizing connections thereto and to the electromagnet for momentarily energizing the latter, and means for electrically energizing said segment and conducting members.

2,315,583
REVERSING SWITCH
Herbert Cady Blodgett, Hartford City, Ind., assignor to Overhead Door Corporation, Hartford City, Ind., a corporation of Indiana
Application March 12, 1942, Serial No. 434,404
14 Claims. (Cl. 175—375)



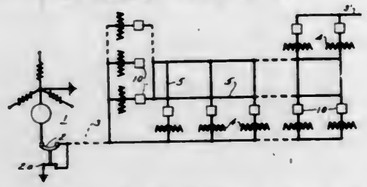
1. A rotary, motor driven, delayed action reversing switch, comprising a continually electrically energized conducting switch member alternately engageable with a pair of reversing contacts, a rotatable cam engageable with said member to effect said alternate electrical engagement in alternate cycles of rotation of the cam, a continuously electrically energized stalling motor having its shaft drivingly connected to said cam to rotate the same, a tappet member operatively connected to the motor shaft for rotation with said cam, and means coacting with said tappet member to regulate the rotation of the cam and tappet member in predetermined cycles of a predetermined angular increment and to prevent inadvertent repetition of said cycles, comprising a detent member and a latch member simultaneously movable respectively into and out of the path of movement of the tappet member for obstructing engagement and disengagement therewith, and an electromagnet for each of said detent and latch members having an armature operatively connected thereto to simultaneously

shift the same, said armatures having spring means coacting therewith to shift the same in the opposite direction to the direction of movement thereof when electromagnetically actuated, said electromagnets and spring means coacting when the electromagnets are energized to project one of said last named members into operative position in the path of said tappet member and withdraw the other, and vice versa, the electromagnet energizing circuit including a spring urged push button control switch, and said alternate tappet member obstructing and freeing movements of said members preventing repetition of the rotative increment of said tappet member in the event said last named switch is held closed.

2,315,584
TALL-OIL REFINING
Joseph N. Borglin, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 16, 1941, Serial No. 407,246
14 Claims. (Cl. 260—97.5)

1. A process for refining crude tall-oil which comprises subjecting the tall-oil in liquid phase to the action of oxalic acid.

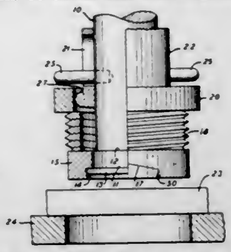
2,315,585
NETWORK DISTRIBUTION SYSTEM
Myron A. Bostwick, Budd Lake, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 13, 1939, Serial No. 299,333
13 Claims. (Cl. 175—294)



1. In a network distribution system, an electrical circuit, circuit interrupting means for operatively connecting portions of said electrical circuit, and means for tripping said circuit interrupter comprising a rotary electrical motor of the reversible, continuously rotatable type, mechanical connection means for transmitting a tripping impulse from said rotary electrical motor to said circuit interrupting means, and means connecting said rotary electrical motor to said electrical circuit for operation in a direction dependent on the direction of energy flow in said electrical circuit for rotating to trip said circuit interrupter through said mechanical connection means.

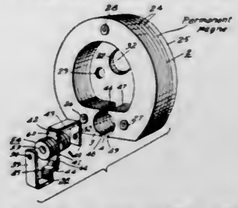
2,315,586
TOOL
Yves A. Bouget, West Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Original application June 28, 1940, Serial No. 342,880. Divided and this application October 28, 1941, Serial No. 416,803
9 Claims. (Cl. 164—124)

9. A tool comprising a die, with an effectively continuous peripheral cutting edge of predetermined dimensions, movable in a direction toward a material and rendered expansible by a split therein extending transverse to the said direction to effect variations in the dimensions of the cutting edge while maintaining the cutting edge effectively continuous, an element movable in one direction relative to the die to cause expansion thereof, means to limit the movement of the ele-



ment to limit the degree of expansion of the die, and movable means adapted to move the die thus expanded through the material to perforate the material, the element movable in a reverse direction to release the die for expansion and removable through the perforation.

2,315,587
ELECTRICAL INSTRUMENT
William M. Bradshaw, Summit, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 27, 1940, Serial No. 367,389
12 Claims. (Cl. 171—95)

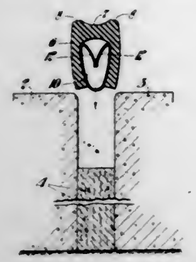


1. In an electrical measuring instrument, a resilient, laminated magnetic structure having spaced integral pole faces defining an arcuate gap extending transversely to the laminations of said structure, said magnetic structure being effective for producing a magnetic field in said gap, the individual ends of the laminations forming said magnetic structure being unevenly aligned, a coil positioned in said gap, means mounting said coil for rotation in said gap relative to said magnetic structure with the sides of said coil in close proximity to said pole faces, and supporting means for supporting said mounting means comprising spaced, parallel ways on said magnetic structure respectively adjacent each of said pole faces and extending transversely to the laminations of said structure, said mounting means having a portion interposed between, and grasped by, said ways of sufficient width to spring apart the pole faces of said magnetic structure sufficiently to align said individual ends.

2,315,588
TOP SEAL FOR PAVEMENT JOINTS
Alan E. Brickman, Monongahela, Pa., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application December 4, 1941, Serial No. 421,659
2 Claims. (Cl. 94—18)

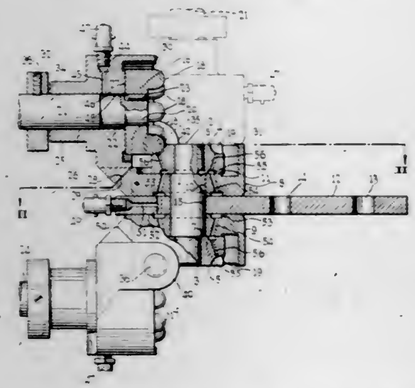
1. A top seal for pavement joints comprising

a preformed sealing member of resilient material, said member having an inverted U-shaped cross-section including spaced depending legs, an upright substantially V-shaped spring inserted within the sealing member and having spring legs engaging the legs of the sealing member,



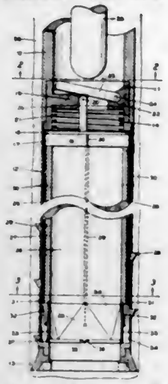
said spring legs having inwardly and downwardly returned terminal spring portions, said sealing member and spring being adapted to be compressed transversely in assembled relation, whereby the terminal spring portions are engaged and with the spring legs exert an outward pressure upon the sealing member legs.

2,315,589
POWER TRANSMISSION
Stephen H. Brooks, New York, N. Y.
Application April 18, 1942, Serial No. 439,449
1 Claim. (Cl. 74—468)



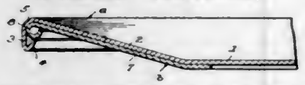
In a lubricated shaft and gear, including in combination: a housing formed with an orifice adapted to receive a shaft; a shaft positioned in the orifice; a gear, formed with gear tooth receiving depressions, said gear being also formed with an annular duct on its face remote from the teeth thereof and communicating ducts from the annular duct in said gear to each depression; a securing member embracing the shaft and abutting a surface of said housing, said housing being movable with respect to said securing member and having an annular duct in said surface and having a duct therein communicating both of said annular ducts; a duct in the securing member opening at a surface thereof and positioned to communicate with the annular duct in said housing whereby lubricant may be fed to the depression on the gear regardless of the rotated position of the shaft.

2,315,590
CORING APPARATUS
Cyrus D. Cantrell, Jr., Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application July 14, 1941, Serial No. 402,406
10 Claims. (Cl. 255—72)



1. In coring apparatus of the character described, the combination comprising a tubular member, core drill means secured to the tubular member and having a central opening communicating with the interior thereof, a plurality of core retainer elements pivotally supported in the tubular member, said elements being so constructed and arranged as to form a closure across the tubular member when in fully protracted position, releasable means for maintaining the retainer elements in retracted position in the tubular member, and means for operating the releasable means to thereby urge the retainer elements into protracted position.

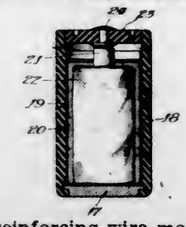
2,315,591
PAPER DISH AND BASE THEREFOR
Herman Carew, Easton, Pa., assignor to Dixie-Vortex Company, Chicago, Ill., a corporation of Delaware
Application August 26, 1940, Serial No. 354,290
3 Claims. (Cl. 65—15)



1. In combination with a paper dish including a flat bottom portion having an upwardly inclined flange formed around its peripheral edge with a substantially vertical depending flange having an upwardly and inwardly directed lip at its lower edge presenting a free upper edge portion, a curved seat being formed at the juncture of the upwardly inclined flange and the depending flange, a relatively rigid base or support therefor, said base or support having a beaded edge adapted to contact against the seat formed in the dish and held thereagainst by engagement of the free upper edge portion of the lip under the beaded edge.

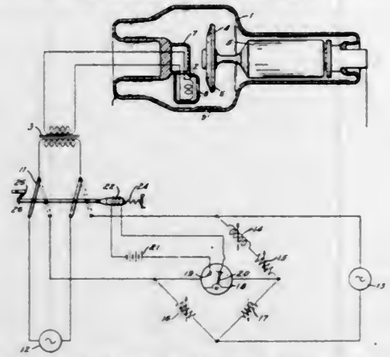
2,315,592
LEAKPROOF DRY CELL
William W. Cargill, Madison, Wis., assignor to Ray-O-Vac Company, a corporation of Wisconsin
Application March 15, 1940, Serial No. 324,203
4 Claims. (Cl. 136—110)

2. A leak-proof cell having a casing of moisture-proof insulating material and provided with circuit terminals at opposite ends, comprising: a cup-shaped shell of resinous plastic material; an exposed metal disk in the bottom of said cell; a metal electrode within said cup and having its upper end connected to said metal disk by



means of a reinforcing wire molded in the wall of said cup; a centrally disposed carbon electrode in said cup; and a closure member of resinous plastic material threaded into the top of said cup and having a centrally disposed terminal member extending therethrough and making electrical contact with said carbon electrode.

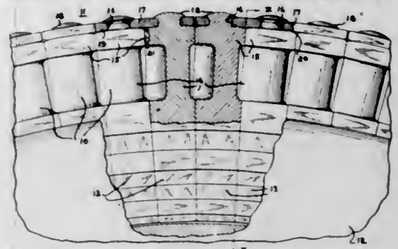
2,315,593
METHOD OF PROTECTING ROTATING ANODE X-RAY TUBES
Benedict Cassen, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 4, 1941, Serial No. 421,595
9 Claims. (Cl. 250—93)



1. In combination with an electrical discharge tube having a thermionically-emissive cathode and an anode, said cathode being positioned in such proximity to said anode that its temperature is dependent upon the temperature of said anode, a transformer connected to deliver heating current for said thermionically-emissive cathode, means for connecting the primary of said transformer to an energy supply and for connecting the primary of said transformer to an instrument responsive to the resistance of the said thermionically-emissive cathode.

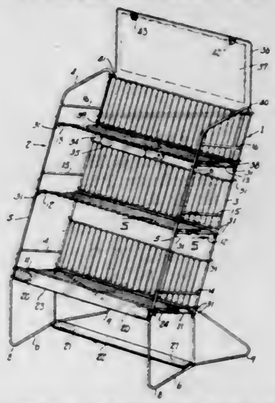
2,315,594
TURBINE BLADE SHROUD FASTENING APPARATUS
Joseph F. Chalupa, Norwood, and William H. Lloyd, Philadelphia, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 16, 1942, Serial No. 426,966
2 Claims. (Cl. 253—77)

1. In an elastic fluid turbine, a row of moving blades providing blade passages; shroud elements integral with the respective blades and arranged circumferentially in end-to-end relation to form a shroud construction covering the blade passages; and means for connecting the blades in groups comprising tenons which are integral with the respective shroud elements and which spring from and extend outwardly from the outer surfaces of the latter, segmental tie bands having openings through which the tenons extend, and headed or riveted portions provided by the



tenons in overlapping engagement with respect to the tie bands to hold the latter in place with respect to the shroud elements; the shroud elements being so formed that middle portions of the outer surfaces thereof and extending widthwise of the blade row engage the inner surfaces of the tie bands and the adjoining outer portions of the outer surfaces are in tangent relation with respect to the middle portions of such surfaces and diverge from the inner surfaces of the tie bands.

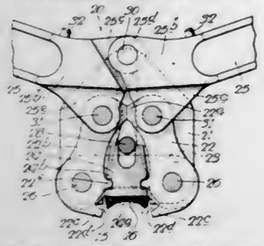
2,315,595
DISPLAY RACK
Andrew Chappory, Brooklyn, N. Y., assignor to National Biscuit Company, New York, N. Y., a corporation of New Jersey
Application January 16, 1941, Serial No. 374,628
11 Claims. (Cl. 211—148)



1. In a display rack, a pair of side frames each having front and rear upright bars and spaced horizontal cross-bars connecting the front and rear bars, a U-shaped tongue on each cross-bar, horizontal spacer-bars, each spacer-bar at one end having a sliding fit over one of the U-shaped tongues on one side frame and at its other end having a sliding fit over the corresponding tongue on the other side frame, whereby said spacer-bars hold said side frames in spaced apart relation, and shelves resting on said cross-bar, each shelf having hooks at one end engaging over a cross-bar on one side frame and at the opposite

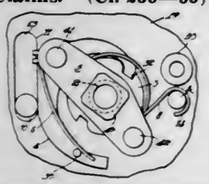
end having hooks engaging over the corresponding cross-bars on the other side frame, whereby said shelves lock said side frames against outward separation.

2,315,596
SEALING DEVICE
William C. Childress, Oak Park, Ill., assignor to Acme Steel Company, Chicago, Ill., a corporation of Illinois
Application February 27, 1940, Serial No. 321,094
3 Claims. (Cl. 81—9.1)



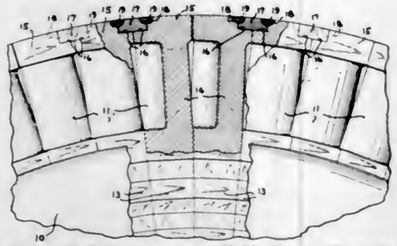
1. The combination in a sealing device for overlapping strap ends of a pair of side plates, a pair of jaws pivotally mounted between said side plates for movement toward and from each other, said jaws being adapted to receive between them an open seal embracing overlapping strap ends, a cutting die mounted in fixed position with respect to said side plates, a supporting member mounted between said jaws for engaging the back wall of the seal, said supporting member having connections with said jaws whereby a reciprocatory movement is imparted thereto by a relative movement of said jaws, and means for actuating said jaws to bend said seal about said strap ends and to force said seal and the enclosed strap ends against said cutting die, said supporting member being mounted to recede beyond the cutting edges of said cutting die during said movement of the seal and the enclosed strap ends, said supporting member being arranged upon separation of said jaws to move the seal and the enclosed strap ends away from said cutting die.

2,315,597
VOTING MACHINE
Frank Conrad, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 4, 1939, Serial No. 259,852
3 Claims. (Cl. 235—55)



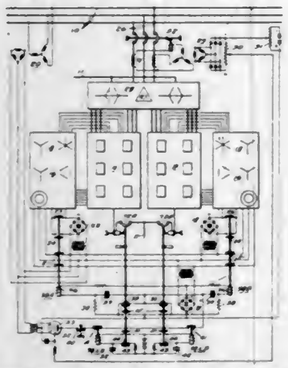
1. A voting mechanism comprising a counter actuating shaft to operate a counter, a ratchet disc secured on the shaft and provided with several peripheral ratchet recesses of channel section transverse to the plane of the disc, an operating crank-arm rotatably pivoted on the shaft adjacent the disc, a pawl pivotally mounted on a crank-pin on the crank-arm, said pawl embodying a finger on one side of the crank-pin to extend into the channel recesses of the ratchet disc and a handle on the other side of the crank-pin to turn the pawl arm about the crank-pin, a leaf spring anchored on the crank-arm and engaging the pawl handle to bias the pawl finger into or towards the channel recesses of the ratchet disc, and a button-head mechanically connected to the crank-arm to rotate the arm.

2,315,598
TURBINE BLADE CONSTRUCTION
Francis P. Corbett, Drexel Hill, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 14, 1942, Serial No. 430,853
3 Claims. (Cl. 253—77)



1. In a turbine, a row of blades; shroud elements integral with the respective blades and arranged circumferentially in end-to-end relation to form a shroud construction for the blade passages; and means for connecting the blades of the row in groups comprising transverse channels open to the outer surface of the shroud construction, each transverse channel being formed by complementary lap joint recesses provided in contiguous ends of shroud elements of each group, metallic strips in the channels, and welded connections between the strip and channel sides.

2,315,599
VAPOR ELECTRIC SYSTEM
Joseph H. Cox, Forest Hills, and Louis A. Casanova, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 24, 1941, Serial No. 424,302
6 Claims. (Cl. 175—363)



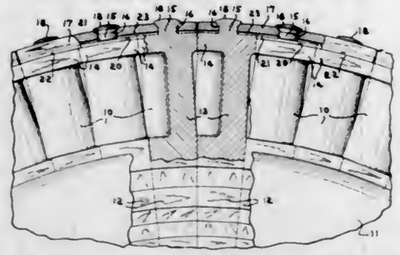
1. In combination, a polyphase alternating current circuit, a direct current circuit, a plurality of parallel operating converters interconnecting said circuits, each of said converters including a plurality of vapor electric valves of

the make-alive type, each valve having an anode, a vaporizable cathode, a make-alike electrode and a shield about the anode, a control system for each converter, each of said control systems including an impulsing means for supplying control impulses to the make-alive electrodes and a potential transformer for supplying potential to the anode shields of the valves, a source of polyphase control potential, a high speed relay for each of said control systems, means including contacts on said high speed relays for connecting the source to the several control systems, a source of direct current actuating potential for said high speed relays, a valve type relay for supplying current from said source to said high speed relays and means including a current transformer responsive to the abnormal flow of current between said converter and said alternating current circuit for controlling said valve type relay to energize said high speed relays to deenergize said control systems, a source of direct current biasing potential, a second set of contacts on said high speed relays, said second set of contacts operable to connect said source of biasing potential to the anode shields.

2,315,600
FABRIC TREATMENT
Cyril M. Croft, Cumberland, Md., assignor to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application March 22, 1940, Serial No. 325,386
8 Claims. (Cl. 117—144)

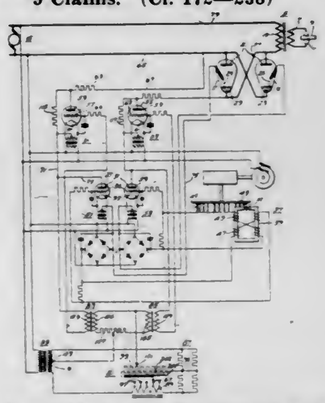
8. Method of preventing the dulling of highlights in moire patterns on fabrics containing filaments having a basis of cellulose acetate by finishing treatments, which comprises treating the moire fabric containing filaments having a basis of cellulose acetate with a solution comprising from 0.3 to 0.75% of colophony resin dissolved in carbon tetrachloride, and removing the solvent.

2,315,601
TURBINE SHROUD FASTENING
James A. Davies, Media, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 24, 1942, Serial No. 428,022
1 Claim. (Cl. 253—77)



In a turbine, a row of blades; each blade having an integral shroud element and the shroud elements being arranged circumferentially in end-to-end relation; rivets or tenons extending outwardly from the shroud elements and formed integrally with the blades; the shroud elements of the assembled row having cylindrical surfaces disposed at either side of circumferentially-extending rib elements from which the rivets or tenons extend outwardly; and shroud strips of channel form having the sides thereof fitting said cylindrical surfaces and having their channel spaces extending over the rib elements so as to define clearance with respect to the latter; said shroud strips having openings formed therein and through which the rivets or tenons extend and said rivets or tenons having heads cooperating with the shroud strips for holding the latter in place with their sides fitting the shroud element cylindrical surfaces tightly.

2,315,602
CONTROL APPARATUS
John W. Dawson, Auburndale, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Original application May 7, 1938, Serial No. 206,640. Divided and this application July 15, 1941, Serial No. 402,499
5 Claims. (Cl. 172—238)

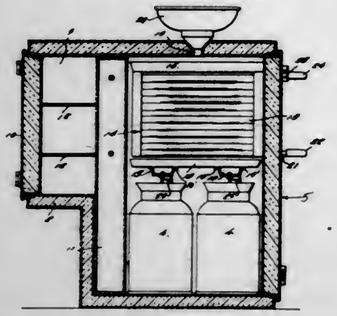


1. A phase shift network comprising a source of electric power having a plurality of taps, a pair of dephasing impedances connected in series between a pair of the taps of said source, each of said impedances having an intermediate connecting point, a voltage divider having an adjustable tap connected between said points and means for deriving a potential between the adjustable tap of said divider and one of the taps of said source.

2,315,603
COMBINATION REFRIGERATOR AND AERATOR
George R. Duncan, Washington, Mo., assignor to Star Bucket Pump Company, St. Louis, Mo., a corporation of Missouri
Refiled for abandoned application Serial No. 200,786, April 7, 1938. This application September 5, 1941, Serial No. 409,753
3 Claims. (Cl. 31—4)

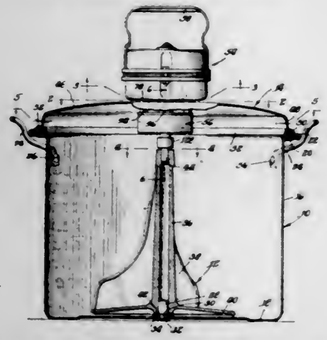
1. In a device of the character described, a cabinet having insulated top, bottom, side and rear walls, and an insulated door for the front of the cabinet, said cabinet having the side and top walls thereof extended, and the rear wall thereof terminating short of the top wall and merging into a horizontal, rearwardly extending wall extension forming with the aforementioned wall extension at the back of the cabinet a domestic storage compartment, a hinged door for said storage compartment, a refrigerating device arranged within the cabinet at the back of the latter and including a casing the upper portion of which forms the rear wall for the domestic

storage compartment, an aerator, means supporting the aerator for movement into and out of the cabinet, said aerator including a conduit for



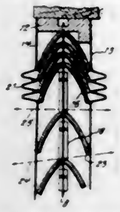
a refrigerant, and means operatively connecting said conduit with the aforementioned refrigerating device.

2,315,604
SEAL FOR WASHING MACHINES OR THE LIKE
Edward A. Ebert, Buffalo, N. Y., assignor to Chicago Electric Manufacturing Company, Chicago, Ill., a corporation of Illinois
Original application November 19, 1938, Serial No. 241,357. Divided and this application July 3, 1940, Serial No. 343,692
3 Claims. (Cl. 68—132)



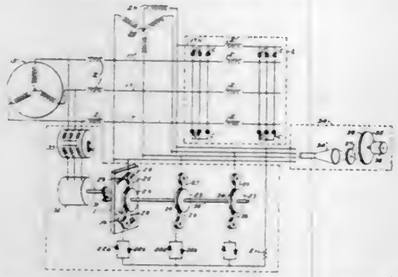
1. In a washing machine of the type comprising an upstanding, cylindrical vessel having an annular upper rim, a cover for said vessel, and an electric driving motor and transmission mechanism mounted thereon for driving an agitator within the vessel, said cover being free from mechanical interconnection with said vessel and completely bodily removable therefrom, said cover having an annular, outer margin adapted to rest upon the upper rim of the vessel, and means for preventing displacement of the cover with respect to the vessel by the reactionary forces set up by the agitator when the cover is disposed in operative position on the vessel and the agitator is driven by the motor through the transmission mechanism, said means comprising an annular member of resilient frictional material embracing and gripping said margin of the cover, the frictional material on the under side of the cover being wedged between the cover and the rim of the vessel when the cover is disposed in operative position on the vessel, said wedged part of the resilient, frictional material frictionally fixing the cover to the vessel against displacement by said reactionary forces and sealing the cover to the vessel against loss of washing fluid therebetween.

2,315,605
VENETIAN BLIND STRUCTURE
Hugo J. Ehrenfeld, New York, N. Y.
Application June 29, 1942, Serial No. 448,925
4 Claims. (Cl. 160—114)



1. A Venetian blind comprising a series of parallel slats, each of said slats being parabolic in cross-section, the concave side of each slat having a light-absorbent surface so that light from the outside and reflected from a slat is absorbed, the apex of each slat being uppermost, tapes secured to said slats for holding the same in relative alinement, and a cord passing through said slats for drawing said slats together to raise said blind, the spacing of said slats being such that in closed position they nest and in an open position the apex of one slat is within the parabola of the adjacent slat, means for holding said slats in said open position, means attached to the uppermost slats only for drawing the latter into nested position and for further separating the rest of said slats so that the apex of each is below the parabola of the next higher slat.

2,315,606
ELECTRICAL SYSTEM
Robert D. Evans, Swissvale, and Alexander C. Monteith, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 31, 1939, Serial No. 276,622
17 Claims. (Cl. 234—1.5)

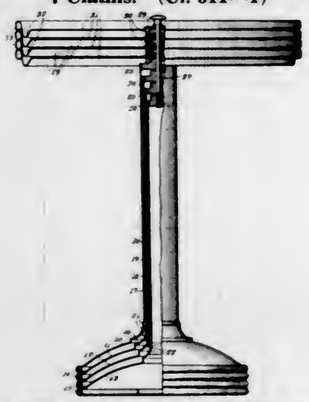


1. In a device for applying intermittent artificial faults to an electrical circuit, a fault application device comprising a plurality of commutators, motive means for rotating said commutators in synchronism, a plurality of brushes for said commutators, impedance means having an impedance which varies inversely with current, and circuit connections for connecting said brushes and impedance means to render said commutators rotating switches for said impedance means.

2,315,607
ANODE
Eric W. Ferm, Clarksburg, W. Va., and Richard O. Hull, Lakewood, Ohio, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 30, 1938, Serial No. 198,830
3 Claims. (Cl. 204—293)
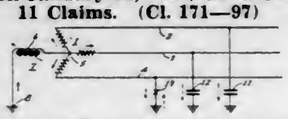
2. A soluble metal anode cast of a metal selected from the group consisting of brass and copper for use in a cyanide plating bath, the anode containing a metal selected from the group consisting of 0.05 to 5.0 per cent calcium and 0.0005 to 0.5 per cent magnesium and the alloy having been heated prior to casting to a temperature not substantially lower than about 800° C. for calcium and not lower than about 700° C. for magnesium whereby the rate of solution of the anode is decreased by reason of the formation of a bath-insoluble film on the surface of the anode.

2,315,608
NESTED SERVING DEVICE
Alan R. Fergusson, Larchmont, N. Y.
Application August 21, 1941, Serial No. 407,734
7 Claims. (Cl. 311—1)



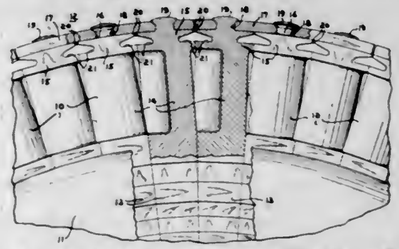
1. In a device indicated, a plurality of nestable and separable units, each unit comprising a base, a support extending from the base and being fixedly united therewith, and a tray, uniformly sized, means associated with each support and each tray for removably connecting any of the trays with any of the supports, thereby rendering the trays and supports interchangeable, and means for fastening the innermost support to the uppermost tray, when the device is nested, thereby holding the units in their nested position.

2,315,609
GROUND FAULT NEUTRALIZER
Frederick D. Fielder, Sharon, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 14, 1942, Serial No. 426,676
11 Claims. (Cl. 171—97)



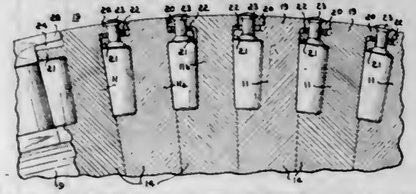
11. In a grounding reactor for connection between the neutral point of an alternating-current electrical transmission system and ground for providing a reactance of a value that, upon the grounding of one phase conductor of the system will substantially neutralize the capacity current to ground of the ungrounded part of the system, said reactor comprising an iron core and a winding inductively related thereto, said core comprising a magnetic structure including two outer core legs and a middle winding leg having a plurality of separable core parts arranged to provide a plurality of air gaps in series in the winding leg, and means for adjusting the relative spacing of said several core parts for varying the total length of gap in the magnetic circuit.

2,315,610
TURBINE BLADE SHROUD FASTENING
Warren B. Flanders, Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 16, 1942, Serial No. 426,992
1 Claim. (Cl. 253—77)



In a turbine, a row of moving blades defining blade passages, shroud elements integral with the respective blades and disposed circumferentially in end-to-end relation to form a shroud construction covering said blade passages, tenons integral with the shroud elements and extending outwardly therefrom, a plurality of tie bands disposed circumferentially and having openings through which the tenons extend, and rivet heads provided on the tenons and overlapping the tie bands around the openings thereof to retain the tie bands in place with respect to the outer surfaces of the shroud elements, said shroud elements having grooves formed in their circumferentially adjoining ends and extending for the full width thereof to provide outer flexible portions engaging the tie bands and inner portions covering the blade passages.

2,315,611
TURBINE BLADE SHROUD FASTENING
Clarence C. Franck, Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 14, 1942, Serial No. 430,842
2 Claims. (Cl. 253—77)



1. In a turbine, a row of blades; each blade including a root element and each root element having outwardly-facing shoulders; a rotor car-

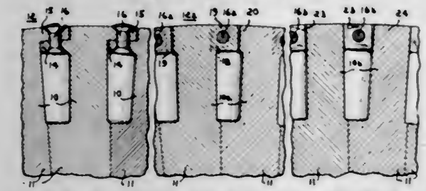
rying the row of blades and provided with inwardly-facing shoulders for cooperation with the root shoulders; and a shroud construction for the row of blades comprising oppositely-extending lapping portions formed integrally with the tip of each blade and the lapping portions of adjacent blades overlapping in spaced-apart relation with the root shoulders of the blades engaging the rotor shoulders, filler pieces fitting the spaces between overlapped portions, and rivets connecting the overlapped portions and the intervening filler pieces.

2,315,612

TURBINE SHROUDING

Clarence C. Franck, Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application February 14, 1942, Serial No. 430,843
4 Claims. (Cl. 253—77)



1. In a turbine, a rotor, a row of blades connected to the rotor and defining blade passages, and a shroud construction for the blades; said shroud construction including lapping portions formed integrally with the blades and extending from the concave and convex faces of the latter so as to overlap and cover the blade passages and rivets for connecting the overlapping portions, the rivet for the overlapping portions of each blade passage being so located that the stress area effective to connect the overlapping portions is located substantially midway of the width of the blade passage.

2,315,613

POLY-HEXAHYDRO-HYDROQUINONE SEBACATE

Carl J. Frosch, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

No Drawing. Application November 22, 1940, Serial No. 366,719
7 Claims. (Cl. 260—75)

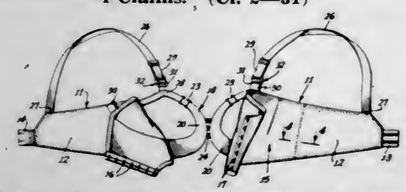
1. Hexahydro-hydroquinone sebacate polymerized to a degree such that it possesses an intrinsic viscosity in chloroform of at least about .5.

2,315,614

NURSING BRASSIÈRE

Albert A. Glasser, Los Angeles, Calif.

Application June 14, 1941, Serial No. 398,096
4 Claims. (Cl. 2—31)



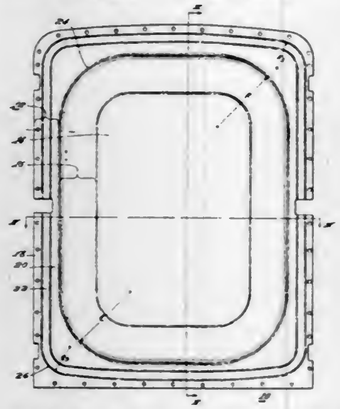
1. In a brassière a left and a right section, said sections each comprising a body band portion and a front breast pocket portion, means for detachably securing the free ends of the body band portions together, means for detachably securing the free ends of the pocket portions together, a breast supporting member secured to each section near the juncture of the body band and breast pocket portions and adapted to engage the under and inner sides of the breasts of a wearer of the brassière, the upper ends of said supporting members being secured to the upper part of the respective breast pocket portions, means connecting the breast supporting members substantially midway between the top and bottom of the garment, and a shoulder strap connecting each body band portion to the top of its respective breast supporting member.

2,315,615

MOLDED ARTICLE

Henry C. Guhl, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application July 24, 1940, Serial No. 347,231
5 Claims. (Cl. 154—45.9)



1. A molded panel comprising, a base portion composed of a plurality of laminated sheets of kraft paper impregnated with a resinous binder, a surface sheet of alpha pulp paper impregnated with a resinous binder, the resin content ratio of the base portion being between 1.4 and 1.5 when the resin content ratio of the surface sheet is between 1.8 and 2.2, the base portion and surface sheet being consolidated under heat and pressure into an integral unit having a thickness of $\frac{1}{16}$ to $\frac{3}{32}$ of an inch and a predetermined shape consisting of a continuous peripheral flange portion having interior curved corners, an interior portion offset relative to the flange, and a portion of reverse curve shape connecting the peripheral flange portion and the offset interior portion, the unit having a fill factor at the interior curved corners of not more than approximately .52 and a draw factor at the connecting portion of not more than approximately .16 to give a unit having a substantially uniform thickness free from inserts, the fill factor being determined by the expression

$$\frac{D \times Ra}{R}$$

where D is the depth in inches between the flange portion and the offset portion, Ra is the radians

of the arc of the interior curve, and R is the radius in inches of the interior curve when the draw factor is determined by the expression

$$\frac{D \times (Ra_1 + Ra_2)}{R_1 + R_2}$$

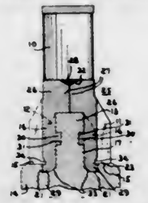
where D is the depth in inches between the flange portion and the offset portion, Ra_1 and Ra_2 are the radians of the arcs of the reverse curve of the connecting portion and R_1 and R_2 are the radii in inches of the curves of the reverse curve.

2,315,616

TURBINE BLADE LOCKING PIECE

James R. Hall, Chester, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application January 28, 1942, Serial No. 428,491
4 Claims. (Cl. 253—77)



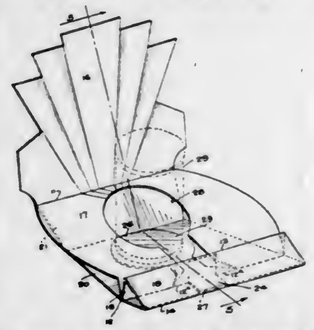
1. The combination with a rotor having a radially-extending rib of T-section and a row of blades having straddle roots defining openings conforming to the section of the rib and fitting the latter, the head portion of the rib having opposed filling notches; of a structure for spacing the blades of the row adjacent to the notches and comprising complementary members disposed in the notches and having abutting portions overhanging the rib, a weld connection between the overhanging portions, and means for holding the structure in place radially of the rib.

2,315,617

DISPLAY STAND

Henry Harrison, Brooklyn, N. Y.

Application September 9, 1941, Serial No. 410,213
4 Claims. (Cl. 248—174)



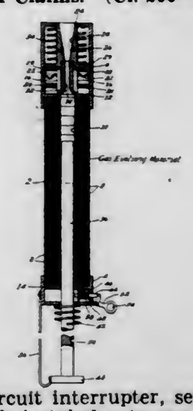
1. A display unit of the character described formed of a single blank of material comprising a base member, front and back wall members extending upwardly from the front and rear edges of the base member, and an intermediate member extending between and joining together said front and back wall members, said intermediate member having a struck-out which is adapted to be swung out of the plane of said intermediate member into flatwise engagement with the base member, said struck-out part being of an overall length substantially equal to the depth of the base member whereby opposite ends of the struck-out part respectively abut the said front and rear walls.

2,315,618

CIRCUIT INTERRUPTER

John W. Huffstutter, Sharon, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application November 26, 1941, Serial No. 420,514
11 Claims. (Cl. 200—149)



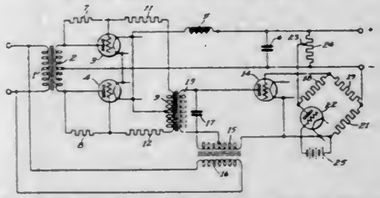
1. In a circuit interrupter, separable contacts one of which is tubular to receive the other in closed circuit position and to vent the arc gases formed when said contacts separate, and tubular shielding means telescopically engaged with said one contact and automatically movable in response to separation of said contacts to a shielding position with respect to said one contact.

2,315,619

CONSTANT VOLTAGE RECTIFIER

John A. Hutcheson and Reuben Lee, Catonsville, Md., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

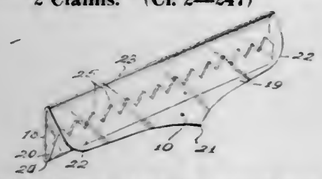
Application October 16, 1940, Serial No. 361,347
7 Claims. (Cl. 175—363)



1. In combination with an alternating-current source, a rectifier, having a control electrode, connected to supply power from said source to a direct-current load circuit, a second source of alternating voltage having the same frequency as said alternating-current source, said second source being connected between the cathode of said rectifier and the anode thereof in series with an impedance, and a tap point on said impedance connected to said control electrode, an electrical discharge device provided with a control electrode and connected to cause

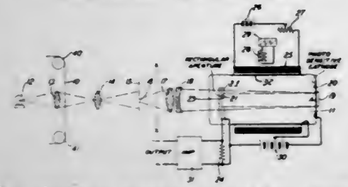
variations in the voltage of said second source, a Wheatstone bridge comprising three resistors and a high-vacuum electrical discharge tube having one pair of diametrically-opposite terminals energized by a voltage proportional to that of said direct-current load circuit, and having its other pair of diametrically-opposite terminals connected respectively to the last-mentioned control electrode and to one of the principal electrodes associated therewith.

2,315,620
POCKET FACING PROTECTOR
Jackson T. Isbell, Centralia, Mo., assignor to A. B. Chance Company, Centralia, Mo., a corporation of Missouri
Application October 2, 1941, Serial No. 413,278
2 Claims. (Cl. 2—247)



1. A pocket facing protector comprising a resilient member having a facing flange adapted to cover the facing of a pocket on a garment or the like, said protector also having a depending body flange adapted to extend into the pocket behind the facing, and a retaining flange carried by said body flange and extending toward said facing flange, and adapted to engage the material of the pocket and force it against the facing flange, said retaining flange being provided with a plurality of pointed members adapted to engage the fabric inside the pocket to prevent accidental removal of the protector, said retaining flange extending upward so as to permit the fabric to pass it when the protector is applied to a pocket, and to engage the fabric more firmly upon motion of the protector tending toward removal from the pocket.

2,315,621
ELECTRON CAMERA
Herbert E. Ives, Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 24, 1940, Serial No. 358,064
16 Claims. (Cl. 178—7.2)



1. An electron stream television camera for setting up image current in combination with means for directing light from single elemental strips in succession of a continuously moving film or picture to be scanned and therewith forming a distorted image field on the light receiving element of said camera for each of said strips in succession thereby giving rise to a stream of photoelectrons, said image field having distortion due to too great a dimension in a direction transverse to the longitudinal axis of said strip relative to the dimension in the direction of said axis, and means comprising the electron stream of said camera for scanning in the direction corresponding to the lengths of said strips and setting up image currents corresponding to the tone values of said field in said direction by sweeping the photoelectronic stream repeatedly, once for each strip, in said direction.

2,315,622
ACTUATING MEANS FOR SCOREBOARD INDICIA
James O. Ivie and Horace Leon Ivie, Salt Lake City, Utah
Original application August 14, 1934, Serial No. 739,822. Divided and this application January 16, 1940, Serial No. 314,188
4 Claims. (Cl. 74—116)

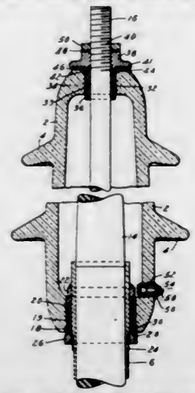


1. Mechanism for intermittently rotating a member through a predetermined angular distance, comprising an axle, a rotatable member adapted to carry indicia mounted on the axle for rotation therewith, means to rotate said axle and member including a continuously rotating shaft, a reciprocable bar, means for translating rotary motion of the shaft into reciprocatory motion of the bar to continuously reciprocate the bar, a ratchet wheel mounted on the axle and means operably connected to the bar and continuously moved thereby to rotate the ratchet wheel so that the reciprocatory motion of the bar will be translated into rotary motion of the axle and said rotatable member, said connecting means comprising a dog pivotally mounted on the reciprocating bar, a spring urging the dog to engage the notches of the ratchet wheel, means to selectively control the engagement of the dog with the notches of the ratchet wheel, said control means including a member movable to either of two positions, in one of which it is interposed between the dog and the ratchet wheel and engaged by the dog to prevent the dog from engaging with the ratchet wheel, and in the other of which it is not engaged by the dog and permits maximum engagement of the dog with the ratchet wheel, means for so actuating said interposable member that it moves only from one extreme position to the other, so that each actuation of the ratchet wheel by the dog will cause the rotatable member associated with the ratchet wheel to be moved through the same angular distance, and means normally to hold the interposable member between the dog and the ratchet wheel.

2,315,623
INSULATING BUSHING
William H. Jacobi, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 11, 1941, Serial No. 388,089
3 Claims. (Cl. 174—19)

1. In an insulating bushing, a tubular insulating casing defining an insulating chamber, and having an end portion extending inwardly to form a substantially circular opening, a rigid conductor extending axially through said casing, a resilient sleeve disposed in said opening about said conductor and compressed therebetween, means

for securing said resilient sleeve in said position to provide a sealing joint despite relative longitudinal movement between said casing and said conductor, a resilient gasket disposed about said



conductor on the outside of said end of said casing, and a cap member secured about said conductor to compress said gasket against said casing.

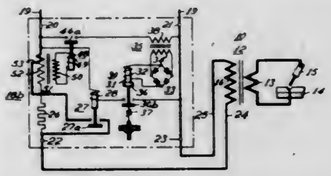
2,315,624
EGG CONTAINER
Herbert M. Kieckhefer, Riverton, N. J., assignor to Kieckhefer Container Company, Delair, N. J., a corporation of Delaware
Application June 9, 1939, Serial No. 278,196
3 Claims. (Cl. 229—6)



1. In combination, an egg container having walls of fibreboard or the like, means including spaced flats and intervening compartments within the container for supporting and protecting eggs for shipment, cuts in at least one of said walls forming the outline for a ventilation hole, said outliine being incomplete, whereby the cut material within the outline is left connected to the wall at opposed points, said cut material being pivotal on said points of connection in response to manual pressure to open the hole, said egg sunporting and protecting means extending to a position adjacent said hole and a latch in connection with said egg supporting and protecting means positioned to releasably engage and hold an inwardly pivoted edge of said pivoted material when the latter is in open position.

2,315,625
PROTECTIVE CONTROL SYSTEM
George E. King, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 24, 1940, Serial No. 362,584
6 Claims. (Cl. 171—119)

1. A protective control system for a transformer comprising, an impedance for connection between the transformer and a source of alternating current power therefor, means operable to render the impedance ineffective, relay means operable to effect operation of the aforesaid means, a control relay having an operating winding energized in accordance with the value

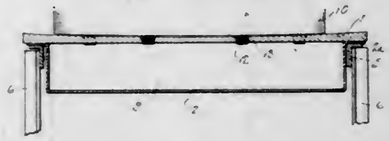


of the current drawn by the transformer from the source responsive to a predetermined value of current for controlling operation of the relay means, and means controlled by the relay means for limiting the current through the operating winding of the control relay.

2,315,626
COLOR-STABLE MOLASSES
Charles J. Krister, Cleveland, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application January 23, 1940, Serial No. 315,163
4 Claims. (Cl. 127—46)

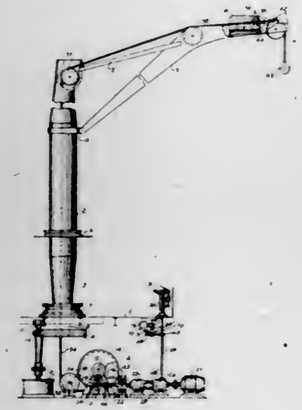
2. In a process in which light-colored molasses is treated to retard the development of color therein during a storage period, the steps comprising adding to the molasses and maintaining therein during the storage period from about one-tenth to two per cent of a reductant selected from the group consisting of formic acid, urea, thiourea, benzaldehyde, benzene phosphonic acid, sodium thiosulfate, and alpha-naphthol.

2,315,627
CONVEYER
George E. Lamb, Hoquiam, Wash.
Application May 27, 1940, Serial No. 337,472
1 Claim. (Cl. 214—1)



In a conveyer for bales of material of the character described; a table having a superficiary upon which the bales are to be conveyed; said superficiary being smooth, at least as wide as the bales, and formed with air ports therethrough that are spaced at such intervals that a plurality thereof, both in the longitudinal direction and in the transverse direction of the superficiary will be covered simultaneously by a bale in its conveyance along the table, and means for supplying air under pressure to the ports for upward discharge therethrough; said superficiary being transversely concaved to an extent corresponding substantially to the natural sag of the bottom surface of a bale when it is held in suspension by the pressure of air between the bale and superficiary being discharged upwardly through said ports.

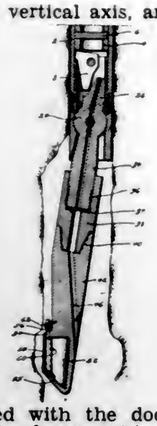
2,315,628
HOISTING APPARATUS
Robert C. Lamond, Philadelphia, Pa., assignor to American Engineering Company, Philadelphia, Pa., a corporation of Pennsylvania
Application March 7, 1940, Serial No. 322,708
4 Claims. (Cl. 254—172)



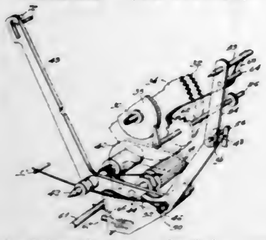
3. In a device of the class described, the combination of a winch, means for actuating said winch to wind in or pay out cable, control means for controlling the direction of operation of said winch, a cable overhauling device adapted to maintain the cable unwound by said winch taut, said overhauling device comprising a pair of sheaves through which the cable extends, means operable on one of said sheaves for urging the same into frictional engagement with said cable, means for simultaneously operating said sheaves to pay out cable, said last mentioned means including an electric motor, gearing disposed between said sheaves and said motor, clutch means for disconnecting said sheaves from said motor, means including a solenoid for engaging said clutch, resilient means for disengaging said clutch upon deenergization of said solenoid, a normally closed switch for controlling the operation of the said motor and solenoid associated with said overhauling device, a starting switch for said motor, means operated by the said control mechanism for said winch for opening said normally closed switch when the said control mechanism has been so adjusted as to cause said winch to wind in cable, said last mentioned means including a cam, and lever means operatively connecting said cam and said switch.

2,315,629
WALL CORE SCRAPER
Franklin L. Le Bus, Longview, Tex.
Application July 30, 1941, Serial No. 404,736
5 Claims. (Cl. 255—1.4)

1. A well core scraper comprising an elongated body adapted to extend downwardly on an incline from the lower end of a drill stem, said body having a pocket therein, a substantially vertical doorway in the face of the body leading to said pocket, a scraper lip projecting outwardly from the face of said body along a side of the doorway and having a cutting edge arranged lengthwise of the body, a door pivotally connected to the body at the opposite side of the doorway and adapted to swing into the pocket in moving about a substantially vertical axis, and means operatively connected with the door for yieldingly maintaining it in closed position.



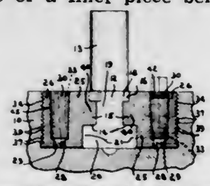
2,315,630
BRAKING DEVICE FOR CUMULATIVE DEMAND REGISTERS
Robert H. Lewis, West Orange, and Paul G. Adams, Bloomfield, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 7, 1941, Serial No. 392,274
2 Claims. (Cl. 171—34)



1. In a register for an electric meter, a first indicator adapted to be displaced from a predetermined position in proportion to the maximum demand, a cumulative demand indicator normally unconnected with said first indicator and including a shaft having a gear secured thereon for movement therewith, means operable for interconnecting said indicators to permit motion to be transmitted therebetween, said interconnecting means including a member movable between a first normal position and a second position which it assumes when said means is in operative condition, a flexible brake member secured to said movable member to resiliently engage said gear while said interconnecting means is in inoperative condition and movable therewith to release said gear while said means is in operative condition, and means for resetting said first indicator to said predetermined position while connected with said cumulative indicator.

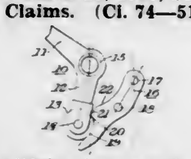
2,315,631
TURBINE BLADE LOCKING APPARATUS
William H. Lloyd, Philadelphia, and Josef A. Rydmark, Lansdowne, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 14, 1942, Serial No. 430,858
2 Claims. (Cl. 253—77)

1. In an elastic-fluid turbine, rotor having a blade groove; a groove extending in a direction which is transverse to the blade groove and providing an entrance opening for blade roots; a row of blades having their roots in the groove and including a blade whose root is disposed within the entrance opening; interlocking means at groove and blade root sides; said transverse groove having parallel side walls and a curved back wall separated from the side walls by opposed slots extending depthwise of the groove and intersecting the curved back wall; a locking piece in the transverse groove, engaging the side walls thereof, and having interlocking means for cooperation with the blade root in the entrance opening; a filler piece in the transverse groove and having a curved face engaging the back wall thereof; the arcuate extent of the curved face of a filler piece being less than a



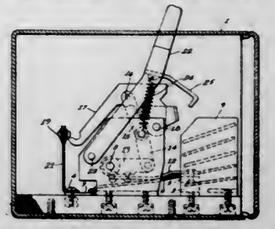
semi-circle so that the chordal distance between the side edges of the filler piece may be less than a diameter whose radius is the radius or curvature of the curved face; interlocking means for connecting the filler and locking pieces in place with respect to the walls of the transverse groove and providing for movement of the locking piece in a direction toward or away from the blade root; wedge means disposed between the filler and locking pieces and including structure insertable in and removable from between the locking and filler pieces by movement along said opposed slots; said filler and locking pieces and said structure being formed to provide jointly a threaded opening; and a screw cooperating with a threaded opening to hold the filler and locking pieces tightly engaged with the locking piece engaging the blade root in the entrance opening.

2,315,632
AMPLIFYING LEVERAGE FOR VEHICLE BRAKES
Donald M. Martindill, Manistee, Mich.
Application November 15, 1940, Serial No. 365,761
6 Claims. (Cl. 74—518)



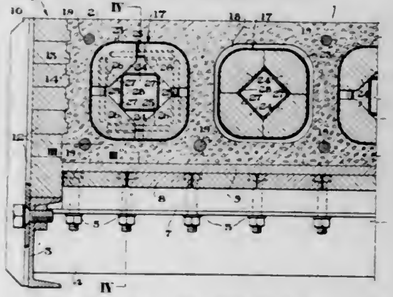
1. In an amplifying leverage for motor vehicle brakes, the combination with an applicator under the control of the operator, such as a foot pedal, arranged to be swung on a fixed axis and a contact member mounted on the applicator, of a cam lever fulcrumed at one end on a fixed axis and operatively connected at a point intermediate of its ends to the brake mechanism of the vehicle, and a cam track on one longitudinal surface of the cam lever engaged by said member, said member traveling from the free end of the cam lever toward said point of connection in applying the vehicle brakes, the lever swinging through a greater arc of movement than that of the contact member, the track being so contoured that as the lever arm decreases during the primary travel of the roller the rate of application of the brakes increases.

2,315,633
BREAKER MECHANISM
John W. May, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 19, 1941, Serial No. 423,633
4 Claims. (Cl. 200—116)



1. In a circuit breaker, a stationary contact, a movable contact supported on a pivoted arm having its outer end connected through a linkage to a second pivoted arm, a latch governed by a current-responsive element engaging the free end of said second pivoted arm, a third pivoted arm having a fulcrum on the opposite side of the pivot for the first-mentioned pivoted arm than that toward which said first pivoted arm extends, and a bias means interconnecting a point on said linkage with a point on said third pivoted arm.

2,315,634
EXPANSIBLE CORE MOLD
Harold C. McCall, Columbus, Ohio
Application June 23, 1941, Serial No. 399,250
6 Claims. (Cl. 25—128)

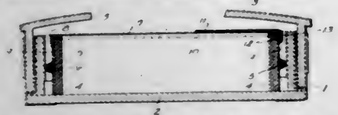


1. An expansible core structure for producing openings in molded cementitious bodies, comprising an elastic flexible casing, means for expanding said casing, said means having a plurality of rigid longitudinally extending relatively movable sections, means engaging adjacent sections to control the direction of movement thereof, and an adjustable operating member extending longitudinally of said core, adjustment of said member serving to move adjacent sections relative to one another to uniformly expand said casing on all sides thereof.

2,315,635
POWDER CONTAINER
John W. McCarthy and Herve C. Holly, Lockport, N. Y., assignors to F. N. Burt Company, Inc., Buffalo, N. Y., a corporation of Delaware
Application January 29, 1941, Serial No. 376,520
16 Claims. (Cl. 93—39.1)

1. In a container, in combination, a material receiving part having an enclosing side wall and

a frangible closing head of sheet material, outer attaching means attaching said head to said side wall, and a filamentary severing member including a soft metal wire core covered with a coating of softer material, said severing member being carried by said receiving part and positioned adjacent to marginal parts of said head above the end edge of said side wall and inside of said attaching means so as to be operable to sever said head along said marginal parts thereof at points inside of the attaching means.



12. A method of forming a material receiving part for containers, including: placing a severing filament around the wall of the receiving part, deflecting an end portion of the filament transversely of the applied part thereof along the outer surface of the wall away from the adjacent end thereof, and then when said end portion is deflected applying the marginal attaching flange of a sheet closure head to said wall outside of said deflected end portion of the severing filament, and attaching said flange to hold the head and filament end portion in position.

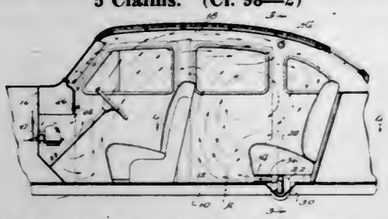
2,315,636

AUTOMOBILE HEATER

Henry J. De N. McCollum, Chicago, Ill.

Application March 29, 1940, Serial No. 326,559

5 Claims. (Cl. 98—2)



1. In a heating system for the passenger compartment of an automobile, the combination of a heater located in the forward portion of the compartment and projecting heated air downwardly toward the floor of the automobile, a conduit opening adjacent the top of the vehicle and extending downwardly toward the floor thereof, a blower connected to draw air from said conduit, and means connected to the discharge side of said blower for discharging the air delivered thereby in a relatively low-speed wide stream along the floor of the automobile.

2,315,637

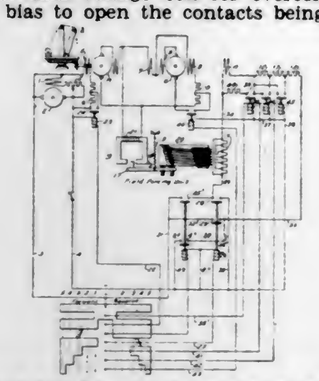
VARIABLE VOLTAGE CONTROL SYSTEM

Phelan McShane, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application October 24, 1940, Serial No. 362,542

9 Claims. (Cl. 172—179)

9. A variable voltage control system including, in combination, a motor, a generator for energizing said motor which generator includes a differential series field winding, a self-excited field winding, and a separately excited field winding having a resistor in series therewith, a plurality of contacts each of which shunts a different portion of said resistor, a spring biased armature for normally closing said contacts, electromagnetic means including a voltage coil connected across the generator for overcoming said spring bias on the armature as the result of attainment of a predetermined normal value of voltage encountered during a portion of the normal accelerating period thereby progressively opening said contacts thus progressively inserting more and more of said resistor in series with said separately excited field winding, the voltage value of said voltage coil for overcoming the spring bias to open the contacts being greater



than that for effecting restoration of said spring bias to close the contacts, and means for reversing the direction of current through said separately excited means thereby reversing the direction of motor rotation, said self-excited field winding, owing to regeneration of the motor during reversal, and said differential field winding producing flux in a direction to assist maintenance of the generator voltage, said means responsive to generator voltage being effective to increase the retarding effort for the latter part of the retardation period.

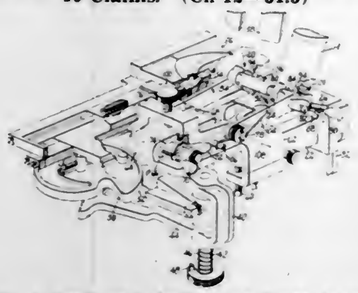
2,315,638

HEEL-SEAT FITTING MACHINE

Lloyd G. Miller, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application February 2, 1942, Serial No. 429,192

10 Claims. (Cl. 12—31.5)



1. In a heel-seat fitting machine, a support, means comprising movable and stationary abutments for measuring the length of the attaching face of a heel mounted upon the support, a heel holddown comprising one or more members shaped and arranged to be engaged by the heel and a carrier for said members, said carrier being mounted for pivotal movement about an axis, and means for enabling the operator to vary the position of said axis lengthwise and heightwise of the heel positioned upon said support.

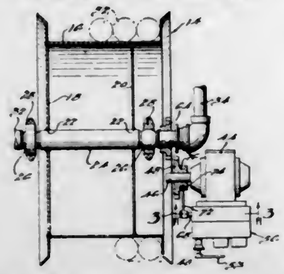
2,315,639

HYDRAULIC DRIVE FOR REELS

John C. Monahan, Royal Oak, Mich., assignor to Gar Wood Industries, Inc., Detroit, Mich., a corporation of Michigan

Application February 3, 1941, Serial No. 377,135

9 Claims. (Cl. 242—87)



3. In combination, a reel, means mounting said reel for free rotation, and power means operatively connectible with said reel for driving the same, said power means including a fluid motor having a drive element, a driven element operatively connected to said drive element to be driven thereby, means operatively connected to said driven element for shifting said driven element between an idle position out of connection with said reel and a position drivably connected with said reel, and means responsive to the position of said driven element for operating said motor at different speeds.

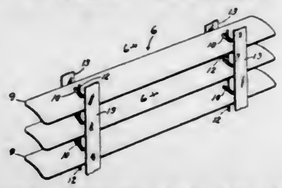
2,315,640

VENETIAN BLIND SLAT

Lulan S. Morse and Clarence W. Morse, Santa Monica, Calif., assignors to Acme Steel Company, Chicago, Ill., a corporation of Illinois

Original application November 18, 1936, Serial No. 111,384. Divided and this application November 14, 1938, Serial No. 240,229

2 Claims. (Cl. 160—178)



1. A metal Venetian blind slat comprising a strip of material having a single convex-concave curve from edge to edge, the curve being about a single center, the material being normally substantially straight in a longitudinal line, and the material having sufficient resilience to be coiled upon itself and when released to resume its original, substantially straight form by its inherent resilience.

2,315,641

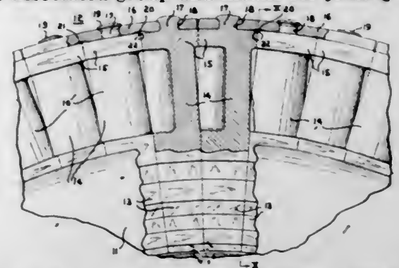
TURBINE BLADE SHROUD FASTENING

James K. Mosser, Springfield, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application January 16, 1942, Serial No. 426,946

2 Claims. (Cl. 253—77)

1. In an elastic fluid turbine, a row of blades; shroud elements integral with the respective blades and arranged circumferentially in end-to-end relation to form a shroud construction; and means for connecting the blades in groups comprising segmental tie bands each of which overlaps the shroud elements of the blades of the associated group and means for joining each



tie band to the shroud elements overlapped thereby; each tie band being of uniform section and having relatively wide and shallow grooves formed at its inner side, extending transversely thereof and bridging contiguous outer corners of the shroud elements.

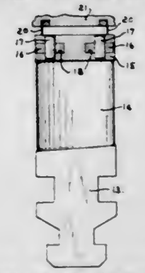
2,315,642

TURBINE BLADE SHROUD FASTENING

James K. Mosser, Springfield, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application January 16, 1942, Serial No. 426,947

3 Claims. (Cl. 253—77)



1. In a turbine, a row of moving blades defining blade passages, a shroud construction covering the blade passages and comprising shroud elements integral with the respective blades and disposed circumferentially in end-to-end relation, said shroud elements each being recessed so as to provide a circumferential space open to one side of the shroud construction, a tie band construction comprising a plurality of tie bands disposed in end-to-end relation in said space, and means for fastening the tie bands to each of the shroud elements so as to connect the blades in circumferential groups, one of said constructions being recessed so as to provide clearance spaces between the tie bands and the shroud elements and which extend for substantial distances laterally of the adjacent inner edges of the contiguous shroud element ends to bridge the latter.

2,315,643

MEANS FOR SECURING CROSS MEMBERS TO FRAMES

Otto Mueller, Dearborn, Mich., assignor to The Murray Corporation of America, Detroit, Mich., a corporation of Delaware

Application November 7, 1938, Serial No. 239,333

5 Claims. (Cl. 281—106)

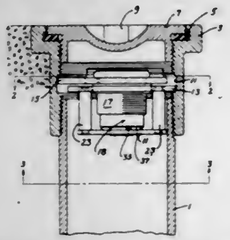
1. A motor vehicle chassis frame assembly

comprising longitudinally extending side members, a cross frame member near each end of said side members, a keeper and tongue connection between each end of the cross members



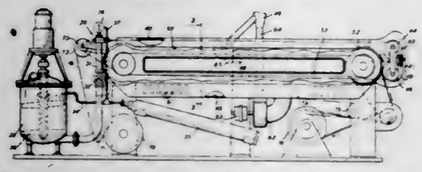
and the adjacent side members and rivets to be swaged arranged to hold the keeper and tongue connection against separation before swaging and the chassis members together after swaging.

2,315,644
CONDUIT CLOSURE
Eugene A. Nahm, Baldwin, N. Y., assignor to S. F. Bowser & Company, Incorporated, Fort Wayne, Ind., a corporation of Indiana
Application January 12, 1940, Serial No. 313,607
3 Claims. (Cl. 220—85)



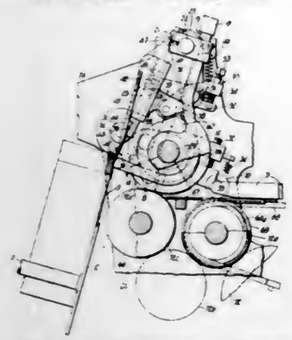
1. In combination with a conduit having an inner, annular, circumferential recess, a locking device comprising a lock element superposed, fixed and movable, disc shaped locking members eccentrically mounted on said lock element and both adapted to engage in said recess, and key actuated means for moving said movable locking member to and from recess engaging position.

2,315,645
PROCESS OF COATING STRANDS
Edwin E. Newton, Montreal, Quebec, Cyril A. Peachey, Ville La Salle, Quebec, and Frederick R. Reevely, St. Lambert, Quebec, Canada, assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application March 11, 1941, Serial No. 382,726
6 Claims. (Cl. 117—65)



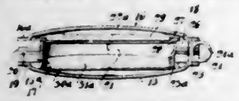
1. A process of coating strands which comprises the steps of applying to a strand raw coating material hardenable by time and heat and in a highly viscous plastic form, subjecting the raw coated strand to a predetermined aging period at room temperature to partially harden the coating, compacting the aged coating by pressure, and subjecting the aged coated strand to a gaseous heating medium at a raised temperature to finally harden the coating.

2,315,646
SHEET FEEDING APPARATUS
Abraham Novick, Flushing, N. Y., assignor to F. L. Smithe Machine Co., Inc., New York, N. Y., a corporation of New York
Application January 21, 1941, Serial No. 375,227
18 Claims. (Cl. 271—29)



1. Sheet feeding apparatus comprising means for fully supporting a stack of sheets, means for deflecting a marginal portion of the bottom sheet and withdrawing said sheet by engagement with said portion, and means independent of the supporting means and movable into engagement with the second sheet, after deflection of the bottom sheet but prior to withdrawal thereof, for preventing buckling of the second sheet during such withdrawal.

2,315,647
CONTAINER
Robert Nyden, Manhasset, N. Y., assignor to F. N. Burt Company, Inc., Buffalo, N. Y., a corporation of Delaware
Application March 11, 1942, Serial No. 434,165
3 Claims. (Cl. 132—83)



1. In a container, in combination, two complementary body members one of which is outwardly domed at its central portion and has a marginal outwardly extending flat peripheral reinforcing flange and the other of which is provided with a side wall extending therearound and having an interior surface extending around the interior, a substantially flat spacer member extending along and secured to the inner surface of said flat peripheral reinforcing flange so as to cooperate therewith to form a laminated side wall for the container having an inner surface extending around the interior thereof substantially in alignment with said first mentioned interior surface, a second substantially flat spacer member similar to the first and attached to form a part of said laminated side wall, said second spacer member being made of tougher material than the first mentioned spacer member and having a peripheral part extending outwardly beyond the adjacent outer edge of said first mentioned spacer member to form a hinge connection, a separate interior collar in fixed engagement with the inner surface of said laminated side wall and forming therewith a sift-proof joint, said collar extending beyond said laminated side wall into frictional engagement with said first mentioned interior surface of the body member to hold said body members frictionally in closed position, and

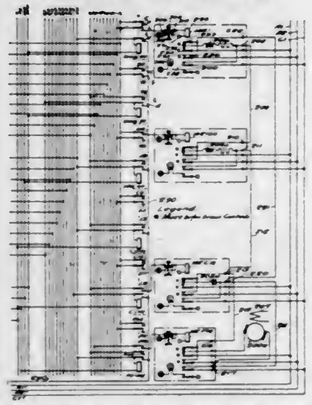
a hinge member connecting said body members together and including a connecting member having individual structural attachment to said peripherally extending part of said tough spacer member, said spacer member at the outer face of the side wall having an outwardly extending manipulating projection for assisting in opening the container.

2,315,648
CONTAINER
Robert Nyden, Manhasset, N. Y., assignor to F. N. Burt Company, Inc., Buffalo, N. Y., a corporation of Delaware
Application March 11, 1942, Serial No. 434,166
2 Claims. (Cl. 132—83)



1. In a container, in combination, two complementary body portions each having a receiving compartment, side walls having inner surfaces surrounding said receiving compartments, a multi-compartment tray positioned in the receiving compartment of one of said body portions and having two separate spaced tray units each having a floor member, each said floor member having upstanding walls forming bounds of the respective tray compartments, said tray having side panels connected to and spacing said tray units to provide an additional receiving compartment between adjacent said upstanding walls thereof, said panels and the outer of said upstanding walls being in close engagement with the inner surface of the receiving compartment in which the tray is received to hold it in operative position therein and extending outwardly therefrom so as to closely engage said inner surface of the other said receiving compartment to retain said body portions in cooperative closed relation.

2,315,649
SELECTIVE CIRCUIT METERING DEVICE
William W. Parker, Irwin, and Herbert P. Peters, Forest Hills, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 13, 1940, Serial No. 365,504
5 Claims. (Cl. 171—97)

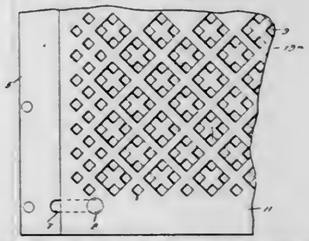


5. In combination with a calculator device for studying the performance of an electrical system, said device including impedance elements and a power supply for connection to represent an electrical system to be studied, electrical measuring equipment, a group of conducting buses connected to said measuring equipment and extending to said device, a plurality of relays for connecting different portions of said device to said conducting buses, an energizing circuit for each of said connecting relays including two sets of normally open contacts connected in series circuit to control the continuity thereof, a plurality of control relays each of which is designed to close one of said sets of contacts in each of a predetermined plurality of said energizing circuits upon its being energized, means for selecting one of said control relays for energization, a second set of control relays for closing the other said sets of contacts of a predetermined one of said energizing circuits in each group controlled by each of said first control relays, means for selecting one of said second group of control relays for energization, means for initially energizing said selected control relays through said selecting means to energize a corresponding connecting relay and for holding said energized control relays in energized condition independent of said selecting means, and means for disconnecting said holding means to deenergize the selected connecting relay and place the apparatus in condition for the selection of another portion of said device for measurement.

2,315,650
HEAVY LIQUID OR SUSPENSION
Andrew Pearson, Bessels Green, Sevenoaks, England, assignor, by mesne assignments, to The Sink and Float Corporation, New York, N. Y., a corporation of New York
No Drawing. Application May 11, 1940, Serial No. 334,641. In Great Britain May 10, 1939
2 Claims. (Cl. 252—60)

1. A process for the production of a sink-and-float separating medium, which is substantially stable when in quiescent condition, which comprises, comminuting a solid material selected from the group consisting of metal mattes and speisses, to form a mass of small particles of sizes suitable for use as the dispersed phase in a substantially stable separating medium, and suspending the same in an aqueous liquid to form a medium of desired specific gravity.

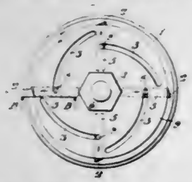
2,315,651
ADJUSTABLE SCREEN
Clarence H. Peterson, Oakland, Calif., assignor of fifty per cent to George W. Peterson, Oakland, Calif.
Application January 27, 1942, Serial No. 428,428
1 Claim. (Cl. 209—398)



A screen for use on a shaker assembly comprising an oblong bottom plate adapted to be fixed on said frame, a similarly shaped top plate superposed on said bottom plate for endwise sliding movement longitudinally of the same, said bot-

tom plate being provided with a rectangular area of squared openings therein arranged in longitudinal and transverse rows with the apertures aligned cornerwise in the rows, said top plate being provided with a similar sized area of similarly arranged openings, and means to slide said top plate into different set positions whereby the openings therein may be variably registered with the openings in the bottom plate to form square screening openings of different sizes, the bottom plate having at one end thereof, a series of groups of smaller openings, said groups being so positioned that each group registers with one of the endmost rows of squared openings of said upper plate in one set position and each of said smaller openings being of substantially the same size as the screening openings formed by said squared openings when the plates are in said set position.

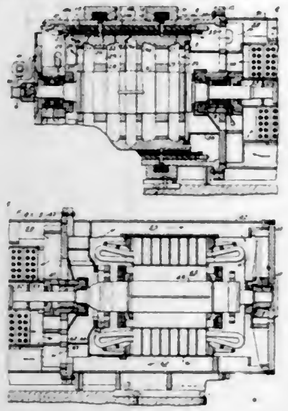
2,315,652
ADJUSTING DEVICE FOR STRIPPING BLADES
Scott Pickens, Portland, Oreg., assignor of one-third to James Luis, Klamath Falls, Oreg.
Application April 1, 1941, Serial No. 386,256
2 Claims. (Cl. 146—78)



1. In a slicing machine, the combination with a rotary circular slicing blade, a multiple of blades connected laterally on the opposite side from the feed means of the circular slicing machine blade for stripping slices as they emerge during the process of slicing, shanks connected with said lateral blades, said shanks being fitted to slide radially inward and outward in the channels formed on the circular slicing machine blade, a lug connected to each of said shanks on the side opposite to the circular slicing machine blade, a circular plate situated on a parallel plane with the circular slicing machine blade and substantially smaller in circumference than the same and using the same axis as the circular slicing machine blade, said lugs attached to the shanks of the lateral blades and projecting into the slots formed in said circular plate, said slots situated one end at a point near the periphery of the circular plate and at a flat angle to the periphery of the circular plate and radially inward to the extent of projected end-wise movement of the shanks attached to the lateral blades and means for clamping the circular plate firmly against the shanks and the circular slicing machine blade.

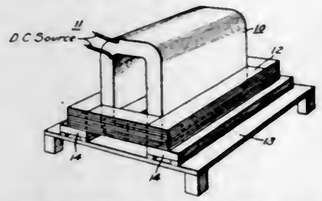
2,315,653
VENTILATED MACHINE
Ernest I. Pollard, Wilkinsburg, and Rene A. Baudry, Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 21, 1941, Serial No. 399,086
9 Claims. (Cl. 171—252)

1. A unit comprising two machines; each machine having a stationary member including a frame-housing, and a rotatable member including a shaft; the two frame-housings being axially spaced from each other, and the two rotatable members being coupled together through shaft-portions extending between the two machines; a housing-member enclosing the space between the two frame-housings; a circulating-liquid cooler disposed within said enclosed space between the



two frame-housings; and enclosed-path gas-circulating means for at least one of said machines, including gas-flow openings in the end of said machine between the machine and the cooler-space, gas-flow passages and guiding-means, and blower-means, for circulating gas through said machine and cooler.

2,315,654
CORE
Henry V. Putman, Sharon, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 29, 1941, Serial No. 376,405
4 Claims. (Cl. 29—84)

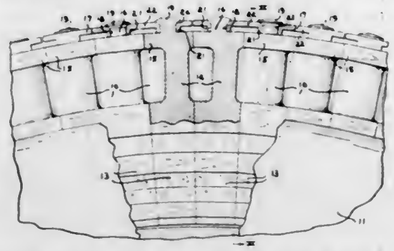


1. In the method of assembling a laminated magnetic core around an electrical coil the step of energizing the coil with direct current to provide a magnetic field in which the laminations are assembled thereby to draw the laminations into close contact with one another as they are assembled.

2,315,655
TURBINE BLADE SHROUD FASTENING
Arnold H. Redding, Rutledge, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 23, 1942, Serial No. 427,845
2 Claims. (Cl. 253—77)

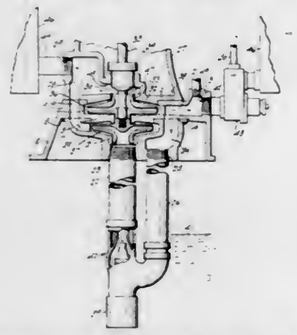
1. In an elastic-fluid turbine, a row of blades; each blade having a shroud element and a tenon extending outwardly from the latter and the shroud elements being disposed circumferentially in end-to-end relation; and means for connecting

the blades in groups comprising a plurality of tie bands having openings through which all of the tenons extend and the latter having riveted or headed portions for fastening the tie bands to the blades; each tie band having transversely-extending thickened portions through which the tenon openings extend and which are joined by



thinner and more flexible portions spaced from and extending over adjacent contiguous ends of the shroud elements and each thickened portion having its tenon opening formed with an outer conical or chamfered portion and the cooperating tenon having a conical portion for said outer portion.

2,315,656
DUAL PRESSURE PUMPING SYSTEM
Ralph Rhoda, Berkeley, Calif., assignor to Berkeley Pump Corporation, Berkeley, Calif., a corporation of California
Application January 27, 1942, Serial No. 428,353
15 Claims. (Cl. 103—5)



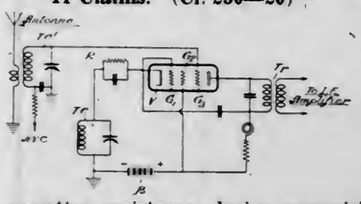
1. A dual-pressure pumping system, in combination, a pressure tank, a low-pressure pump having an intake including a pump line in communication with a source of water and having a discharge, a high-pressure pump having an intake, and having a discharge in communication with said pressure tank, a priming chamber in communication with the discharge of said low-pressure pump, a low-pressure outlet for said priming chamber, and a chamber communicating between said priming chamber and the intake of said high-pressure pump, and a jet within said pump line and in communication with the discharge of said high-pressure pump, said low-pressure outlet being open whereby water is delivered simultaneously at two different pressures and the water delivered at the higher of the two pressures is delivered to said pressure tank in accordance with requirements to maintain a predetermined pressure and with the rest of the water at the higher pressure available for delivery through said jet for boosting the lift of the water from the source.

2,315,657
METHOD OF MAKING COMPOSITE METAL STRIPS
John A. Ritz, Youngstown, Ohio, assignor, by mesne assignments, to Metal Carbides Corporation, Youngstown, Ohio, a corporation of Ohio
Application July 26, 1940, Serial No. 347,671
3 Claims. (Cl. 29—188)



1. The method of producing steel strip or the like suitable for tin plate, which comprises cold rolling a steel strip by contact with rolls made of hard metal carbide composition to materially reduce its thickness, annealing the strip and temper rolling it by contact with rolls made of hard metal carbide composition to impart a very smooth finish thereto.

2,315,658
NEGATIVE RESISTANCE DEVICE
Walter van B. Roberts, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application August 30, 1941, Serial No. 408,948
11 Claims. (Cl. 250—20)

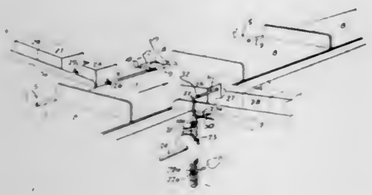


1. A negative resistance device comprising a tube having a cathode, an anode electrode, a subsequent control grid and a collector electrode, means to maintain the anode electrode at a constant positive instantaneous value of potential with respect to ground, means to maintain the collector electrode at a substantially constant positive instantaneous value of potential with respect the cathode, means to maintain the control grid at a constant potential with respect to ground, and impedance means adapted to pass direct current connected between cathode and ground, whereby said tube functions to produce negative resistance across said impedance means.

2,315,659
MACHINE FOR THE ASSEMBLING OF FRESHLY PREPARED FOOD
Francis H. Russell, Arlington, Mass.
Application September 18, 1940, Serial No. 357,336
4 Claims. (Cl. 186—1)

1. In a machine for assembling articles of food into individual consumer's orders, a conveyor divided into compartments, a control card attached to the edge of the conveyor opposite

each compartment, means adjacent the edge of the conveyor and with which each order control card is adapted to cooperate, a delivery shelf at the opposite side of said conveyor from that carrying the order control cards at each compartment, each shelf adapted to carry a plurality of receptacles containing food products, the various receptacles containing one character of food on one delivery shelf and the receptacles on each of the other delivery shelves containing a dif-



ferent character of food, a delivery control unit, means for forcing the receptacles from the shelf onto the conveyor, said control cards as they move past the delivery unit, cooperating therewith to actuate the last mentioned means and deliver a food container from the delivery shelf to the conveyor as the delivery card on the conveyor passes by the first above mentioned means whereby there will be placed in each compartment a complete order for any one customer.

2,315,660

CLAMP FOR DENTAL IMPRESSION TRAYS

Benjamin F. Sahr, Hutchinson, Minn.
Application September 28, 1940, Serial No. 358,799
8 Claims. (Cl. 32—16)



1. A dental device comprising an impression tray, an approximately U-shaped clamping frame having upper and lower prongs and provided at its upper prong with means for detachable contact with said tray and provided at its lower prong with an approximately reversely U-shaped minor portion, a chin-engaging clamping bar having a depending stem that is freely movable endwise in said U-shaped minor portion, and a spring applied around said stem and reacting against said frame to yieldingly press said stem and chin-engaging bar upward.

2,315,661

MANUFACTURE OF NITRILE COMPOUNDS

Walter Salzer and Hans Andersag, Wuppertal-Elberfeld, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York
No Drawing. Application June 11, 1940, Serial No. 339,892. In Germany May 27, 1939
6 Claims. (Cl. 260—319)

1. The process of preparing nitriles which comprises reacting a compound of the general formula

$$X—CH_2—Y$$

wherein X stands for a radical selected from the group consisting of the β-indole radical and the radical of a hydroxy aromatic compound, the OH group of which is in the same ring as the $—CH_2Y$ group, and Y stands for a secondary amino group with an alkali metal salt of hydrocyanic acid in the presence of a diluent which is inert to the reacting components and at increased temperature.

2,315,662

TREATMENT OF HYDROCARBONS

Walter A. Schulze, Armas A. Ruoho, and Graham H. Short, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware
No Drawing. Application June 7, 1941, Serial No. 397,134
9 Claims. (Cl. 196—28)

1. A process for the removal of carbonyl sulfide from hydrocarbon fluids essentially free of hydrogen sulfide and mercaptans comprising the step of contacting said hydrocarbon fluid with a solid reagent comprising an adsorbent carrier impregnated with an aqueous solution of a soluble cadmium salt, the impregnating solution having a pH between the limits of approximately 8 to 14.

2,315,663

TREATMENT OF HYDROCARBONS

Walter A. Schulze, Armas A. Ruoho, and Graham H. Short, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware
No Drawing. Application June 7, 1941, Serial No. 397,135
7 Claims. (Cl. 196—28)

1. A process for the removal of carbonyl sulfide from hydrocarbon fluids essentially free of hydrogen sulfide and mercaptans comprising the step of contacting said hydrocarbon fluid with a solid reagent comprising an adsorbent carrier impregnated with an aqueous solution of a soluble cupric salt, the impregnating solution having a pH between the limits of approximately 8 to 14.

2,315,664

METHOD OF PURIFYING FATTY ACIDS

Waldo L. Semon, Silver Lake, Ohio, assignor, by mesne assignments, to The B. F. Goodrich Company, Akron, Ohio, a corporation of New York
No Drawing. Application April 24, 1941, Serial No. 390,137
6 Claims. (Cl. 260—419)

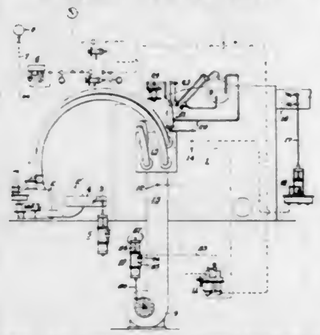
1. The method of separating a fatty acid containing between 12 and 18 carbon atoms from a diarylamine which comprises forming a lower-boiling alkyl ester of the fatty acid and separating the ester and the diarylamine by fractional distillation.

2. The method of forming uncontaminated soap from a fatty acid containing a diarylamine which comprises forming a lower-boiling alkyl ester of the fatty acid, separating the ester and the diarylamine by fractional distillation, and treating the ester to form soap free from the diarylamine.

2,315,665

FEED WATER CONTROL SYSTEM FOR BOILER FURNACES

Charles W. Sengstaken, Scarsdale, N. Y., assignor to John M. Hopwood, Mount Lebanon, Pa.
Application December 2, 1938, Serial No. 243,536
1 Claim. (Cl. 122—448)



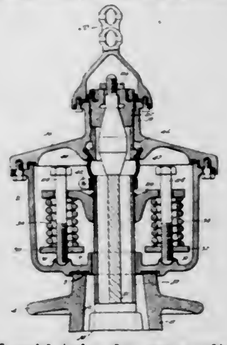
A system for controlling combustion in boiler furnaces in accordance with the demand for steam and controlling the rate of delivery of feed water to the boiler, said system comprising means for developing a control force that is a measure of the rate of supply of combustion air required by the furnace for a given demand for steam, means responsive to said control force for controlling the rate of supply of air to the furnace, a valve for controlling the supply of water to the boiler, means responsive to changes in water level for so operating said valve that the rate of delivery of feed water to the boiler is such that a substantially constant water level is maintained in the boiler at substantially constant load, and means responsive to said control force for operating said valve and effecting a change in the rate of delivery of water substantially simultaneously with a change in the rate of air supply to the furnace, said water level responsive means being arranged to have ultimate control of the rate of delivery of water and particularly at substantially constant loads.

2,315,666

TRANSFORMER BUSHING

Alexander A. Skvortzoff, Sharon, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Original application October 18, 1938, Serial No. 235,611. Divided and this application July 31, 1940, Serial No. 348,718
2 Claims. (Cl. 174—31)

1. In a bushing for high-tension electrical apparatus including a cylindrical casing of dielectric material having a hollow stud extending therethrough and projecting beyond an end thereof, a hollow cap enclosing the projecting portion of said stud including a cover overlying the end of the stud, a flexible tube of fluid-impervious material having one end embracing the end of said stud and means for securing it thereto, a cylindrical flange integral with said cover and depending adjacent to and extending peripherally around the other end of said flexible tube, an opening through said cover axially of said cylindrical flange, and means extending through said opening into engagement with said

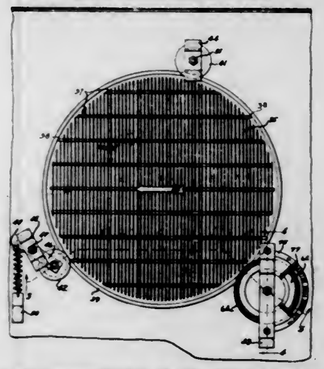


other end of said tube for expanding the latter into intimate peripheral engagement with a wall of said cylindrical flange.

2,315,667

REFRIGERATING APPARATUS

Nelson J. Smith, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application February 28, 1940, Serial No. 321,294
5 Claims. (Cl. 98—40)



1. An air conditioner including a cabinet having a wall provided with a discharge aperture, air conditioning means within said cabinet, air circulating means for drawing air into the cabinet passing it through the air conditioning means and discharging it through said aperture, and adjustable air directing means comprising a grille having a plurality of air directing vanes, a track for supporting said grille, a plurality of spaced rollers in engagement with the outer periphery of said track and including means for rotatably supporting said track and said grille adjacent said aperture, a fixed pivot for one of said rollers, a floating pivot for another of said rollers, means for biasing said floating pivot radially toward the center of said grille, and manipulating means having a driving engagement with said track to cause rotation of said grille upon operation of said manipulating means.

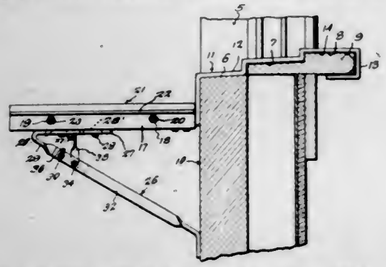
2,315,668

PORTABLE WINDOW STAND

George Ebert Swango, Dearborn, Mich.
Application May 11, 1942, Serial No. 442,519
1 Claim. (Cl. 304—27)

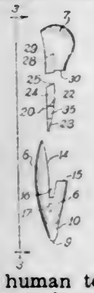
A stand for use on a wall outside and below a window frame having a sill, said stand com-

prising a pair of laterally spaced brackets having portions for resting on the bottom of the frame, and hook portions to span the inner edge of said sill, angle iron extensions on the brackets projecting outwardly from the wall and upwardly facing to provide upstanding side flanges thereon, a platform, and means to detachably attach said platform to said extensions in overlying position relative thereto comprising a pair



of angle iron cleats on the bottom of said platform downwardly facing to provide vertical flanges seating in said extensions and horizontal flanges seating on the vertical flanges of said extensions, and rods extending through the vertical flanges of said cleats and extensions and fixed to the latter, the vertical flanges of said cleats having open bayonet slots therein through which said rods extend.

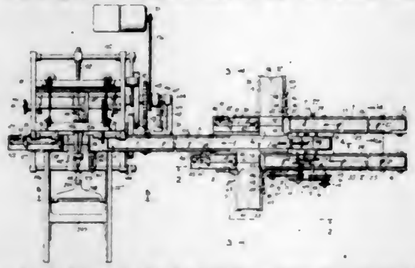
2,315,669
ARTIFICIAL TOOTH
Abraham H. Tamarin, Chicago, Ill.
Application November 25, 1940, Serial No. 366,961
4 Claims. (Cl. 32—9)



1. An artificial human tooth comprising two separate parts of which one part includes the entire biting portion of the tooth and substantially the entire labial portion and extends on the lingual side from the biting portion to a shoulder intermediate the biting portion and the opposite end of the tooth, the other part of the tooth resting on the shoulder and extending therefrom to the portion of the tooth which is adjacent the gums in the human mouth, and a securing member extending through the tooth from one proximal surface to the other and embraced by the two separate tooth parts and substantially entirely enclosed thereby but exposed at the proximal edges.

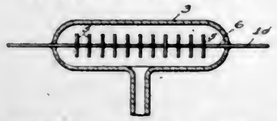
2,315,670
CONVEYING AND DELIVERY MECHANISM
Eugene S. Tascher, Ingleside, Ill., and William Bazant, Wyandanch, N. Y., assignors to National Biscuit Company, New York, N. Y., a corporation of New Jersey
Application April 17, 1940, Serial No. 330,140
21 Claims. (Cl. 198—32)

1. In a machine of the class described, the combination of an endless conveyor adapted to carry articles stacked on edge on its upper run, means for driving the conveyor continuously, rails adjacent the edges of the upper run of the conveyor over which the ends of the articles project, said rails normally being below the upper run, timing means in the path of the moving articles carried by the conveyor and adapted to be engaged and actuated by forward move-



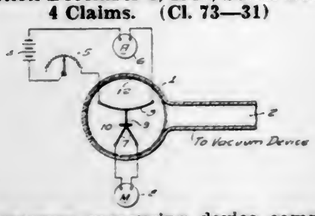
ment of the stacked articles, means controlled by said timing means when actuated by forward movement of said articles to lift said rails relative to the conveyor and raise the articles from the conveyor whereby the articles come to rest, and means controlled by said timing means to push a definite quantity of said articles laterally from the leading end of said stack of articles when at rest.

2,315,671
SENSITIVITY OF THE PIRANI GAUGE
Gereld L. Tawney, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 28, 1940, Serial No. 367,626
3 Claims. (Cl. 201—63)



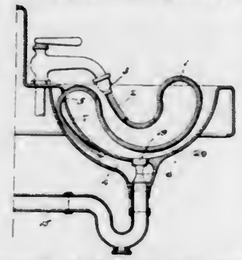
1. In a pressure measuring device having a resistance element exposed to the pressure to be measured, an improved resistance element comprising an elongated resistance body, a plurality of substantially fin-like elements secured to said body to increase the surface area without materially changing the resistance characteristic thereof, at least the surface of said resistance element being constructed of gold.

2,315,672
PRESSURE GAUGE
Gereld L. Tawney and William A. Johnson, Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 4, 1940, Serial No. 368,492
4 Claims. (Cl. 73—31)



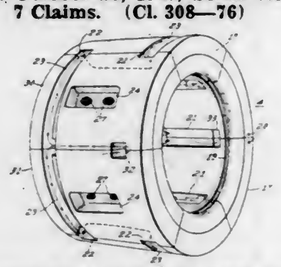
1. A pressure measuring device comprising a glass walled chamber, means for connecting said chamber to the pressure to be measured, a platinized layer substantially covering the inner surface of said chamber, a resistance heating element in said chamber, means for applying a predetermined current to said heating element, a thermocouple in said chamber in spaced relation to said heating element, a metallic member in good thermal contact with said heating element, a gold interceptor interposed in good thermal contact between said metallic member and said thermocouple.

2,315,673
CLEANING DEVICE
William Hugh Taylor, Martin County, Tex.
Application February 26, 1940, Serial No. 320,861
7 Claims. (Cl. 4—256)



1. A cleaning device of the class described, comprising a flexible tube with a closure plug secured in the forward end, said closure plug having a substantially round nose to oppose hanging of the forward end of the tube while moving forward in a cleaning operation, a lateral discharge mouth located in the region of the forward end and means secured to the opposite end for connecting to a water supply.

2,315,674
BEARING
Leonid M. Tichvinsky, Annapolis, Md., and René A. Baudry, Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 26, 1940, Serial No. 362,966
7 Claims. (Cl. 308—76)

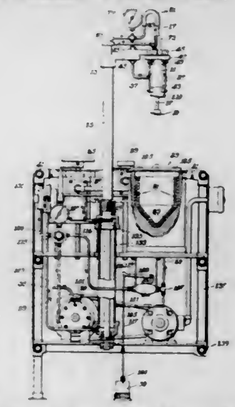


1. A bearing for a rotatable shaft comprising a plurality of segmental bearing shoes having bearing surfaces on their inner faces, each of said bearing shoes having a longitudinal groove in its bearing surface at each side thereof extending substantially from end to end of the bearing surface, and having a circumferential groove in its outer surface near one end thereof, the circumferential groove connecting the longitudinal grooves for the flow of lubricating oil therethrough, and at least some of said bearing shoes being assembled with the circumferential grooves of adjacent bearing shoes at opposite ends of the bearing, whereby oil fed into a longitudinal groove at one side of the bearing at a point distant from the circumferential grooves flows through the longitudinal and circumferential grooves in series to the other side of the bearing.

2,315,675
SIZING OF PAPER
Ernst Trommsdorff, Darmstadt, Germany, assignor to Röhm & Haas Company, Philadelphia, Pa.
No Drawing. Application August 15, 1940, Serial No. 352,741. In Germany August 25, 1939
3 Claims. (Cl. 92—21)

2. In the process of beater-sizing with resins and waxes, a paper made from cellulose pulp, the improvement which comprises adding to the pulp, prior to the formation of a web therefrom, about 0.3% to about 0.5% of a water-soluble salt of a copolymer of which methacrylic acid is the predominating component, the amount of said salt being calculated on the weight of the cellulose content of said pulp.

2,315,676
SHRINKING MACHINE
Alexis E. Ushakoff, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application June 19, 1941, Serial No. 398,773
18 Claims. (Cl. 12—49.1)

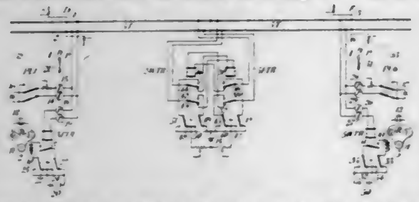


1. A machine of the class described having in combination a carrier for a hollow blank capable of shrinking and containing an article about which it is to be shrunk, a shrinker, means for producing relative movement of approach between the carrier and the shrinker to cause the hollow blank to be acted upon by the shrinker, and a suction device engaging the article for maintaining the article in position during the shrinking of the blank about it.

2,315,677
RAILWAY TRAFFIC CONTROLLING APPARATUS
Herbert A. Wallace, Edgewood, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application September 19, 1941, Serial No. 411,480
7 Claims. (Cl. 246—26)

1. In combination with a stretch of track over which traffic may move in either direction and

which is formed into a plurality of track sections, a track battery and a polarized track relay associated with each end of each of the sections, circuit connections for each end of the adjoining sections at each junction of such plurality of sections for connecting the track rails either to the associated track relay or to the associated battery to receive current of either normal or reverse polarity according as the track relay for the adjacent end of the adjoining section is de-



energized or is energized at normal or reverse polarity, manually controlled means at each free end of the end sections of such plurality of sections for connecting the track rails either to the associated track relay or to the associated battery to receive current of either normal or reverse polarity, and two signals one for each free end of the end sections and controlled to a first or a second or a third position according as the track relay at the same free end is energized at normal or reverse polarity or is deenergized.

2,315,678
CIRCUIT INTERRUPTER
James M. Wallace, Braddock, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 24, 1940, Serial No. 315,306
20 Claims. (Cl. 200—114)

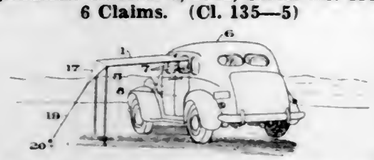


15. In a circuit interrupter, a tubular interrupter casing movably mounted adjacent one end for movement of a terminal portion adjacent its other end into and out of engagement with a cooperating contact, latch means adjacent said contact for latching said interrupter terminal in engagement with said contact, said casing embodying telescoping parts one of which is engageable by said latch means when in a normal extended position partially telescoped, means in said casing for automatically interrupting the circuit in response to the passage therethrough of currents above a predetermined magnitude, means controlled by said interrupting means in response to an interrupting operation thereof, for permitting inward movement of said latch engaging part to a more fully telescoped position so as to become disengaged from said latch means, and said latch engaging part having a closed end, whereby pressures developed by an arc in said casing will tend to prevent release of said latch means until said arc is extinguished.

2,315,679
PROCESS FOR THE PREPARATION OF THE CYANHYDRIN OF FORMISOBUTYRALDOL
Kurt Warnat, Basel, Switzerland, assignor to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey
No Drawing. Application March 10, 1941, Serial No. 382,672. In Switzerland April 24, 1940
2 Claims. (Cl. 260—464)

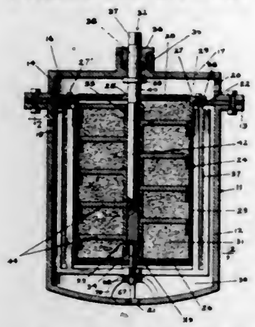
1. In a process for the preparation of the cyanhydrin of formisobutyraldol, the steps which comprise bringing a solution of formisobutyraldol-bisulphite to a temperature of approximately 10°–15° C., adding thereto a water soluble cyanide under such conditions as to cause the temperature to rise immediately and spontaneously to between about 30°–70° C., and permitting the reaction to proceed to completion within such temperature range.

2,315,680
SHELTER ATTACHMENT FOR MOTOR VEHICLES
Carroll Pratt Ward, Galveston, Tex.
Application October 8, 1941, Serial No. 414,099
6 Claims. (Cl. 135—5)



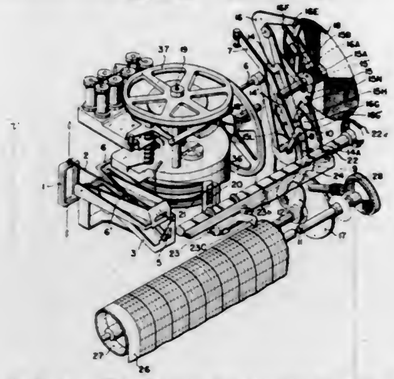
1. A shelter attachment for motor vehicles comprising a flexible top section, spaced extensions projecting inwardly from the inner portions of said top section, a fastening rod removably engaged with the inner portions of said extensions and with inner stationary parts of the associated motor vehicle body, and ground-engaging supporting and securing devices cooperative with the outer portions of said top section.

2,315,681
FILTER
Edwin C. Weisgerber, Los Angeles, Calif.
Application May 31, 1940, Serial No. 338,121
8 Claims. (Cl. 210—142)



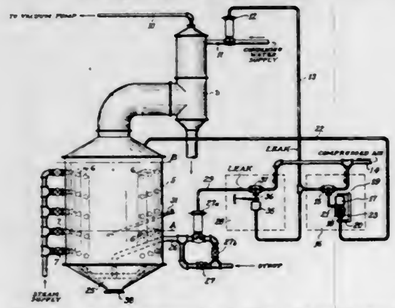
1. A filter comprising a housing having an inlet and an outlet; an annular plate mounted in said housing between said inlet and outlet; a cylindrical screen dependently mounted on said plate; a perforate container mounted on said plate and extending inside of said screen; filter material in said container; a shaft mounted for rotation in said container and extending to the exterior thereof and to the exterior of said housing; a plurality of arms mounted on said shaft for rotation therewith and embedded in said filter material; a scraper structure rotatably mounted in said housing and including a pair of longitudinally extending scraper elements arranged on opposite sides of said screen; and means operatively connecting said shaft and said scraper structure whereby rotation of said shaft rotates said arms and said scraper elements.

2,315,682
MEASURING INSTRUMENT
Edwin C. Wiegmann and Walter G. Trumbower, Philadelphia, and Coleman B. Moore, Carroll Park, Pa., assignors to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania
Application December 2, 1938, Serial No. 244,152
5 Claims. (Cl. 171—95)



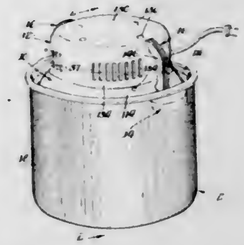
2. In a self-balancing measuring instrument, a deflecting element, a pair of relatively movable members, cyclically operating means to adapted to relatively adjust said members in accordance with deflection of said element, ratchet means operated by said cyclic means and means controlled by said ratchet means to connect said cyclically operating means to said relatively moving members to relatively adjust said members by said cyclically operating means.

2,315,683
APPARATUS FOR CONTROLLING CRYSTAL GROWTH
John G. Ziegler, Rochester, N. Y., assignor to Taylor Instrument Companies, Rochester, N. Y., a corporation of New York
Application July 24, 1940, Serial No. 347,175
2 Claims. (Cl. 159—44)



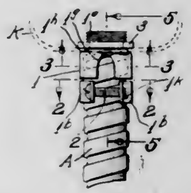
1. In an arrangement of the class described, a vacuum pan, means for heating said pan, a pipe for supplying syrup or the like to said pan, means including a pressure controller for maintaining a predetermined degree of pressure in said pan, and means responsive to the operation of said controller in reducing said pressure for likewise reducing the flow through said pipe.

2,315,684
ELECTRIC WASHING MACHINE
Bernhart A. Benson, Chicago, Ill., assignor to Chicago Electric Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application October 13, 1939, Serial No. 299,339
13 Claims. (Cl. 68—122)



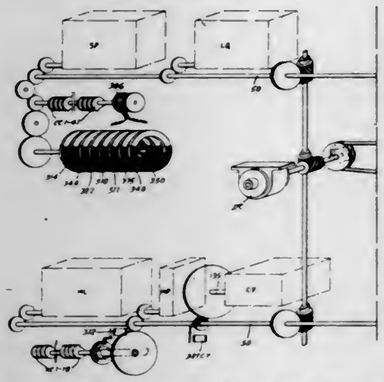
1. In a washing machine of the vertical reciprocating agitator type, a drive mechanism disposed in a housing and comprising a vertically reciprocable agitator operating rod passing through a bushing in the said housing, a suction cup agitator mounted on the rod and extending into a closed washing vessel means for vertically longitudinally reciprocating said rod, said bushing completely circumferentially embracing the rod, said rod being operative in moving to carry washing liquid along the bushing, a catch basin in the housing adjacent one side of the bushing and below the upper peripheral margin of the bushing, means on the upper peripheral margin forming a drain communicating with the catch basin, and means for draining excess washing medium from the catch basin into the washing vessel.

2,315,685
CABLE CONNECTOR
Claude E. Bowers, Los Angeles, Calif.
Application April 1, 1940, Serial No. 327,227
2 Claims. (Cl. 285—6.5)



1. In a cable connector of the class described, a cable connector member provided with the combination of a plurality of curved in cross section longitudinally disposed widely spaced segment portions in alignment with the longitudinal axis of said cable connector and opposed clamp portions integral with one of said segment portions.

2,315,686
COMBINED MULTIPLYING AND DIVIDING MACHINE WITH RESULT CHECKING DEVICE THEREFOR
James W. Bryce, Glen Ridge, N. J., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application March 19, 1941, Serial No. 384,157
9 Claims. (Cl. 235—61.8)



1. In a machine for checking by dividing the results of previous multiplying operations recorded on each record as a product and which record contains designations representing a multiplier amount to be used as a divisor amount in dividing and a multiplicand amount to be checked against a computed quotient, the combination of record controlled receiving means for receiving the multiplicand amount derived from the record, record controlled means for receiving said multiplier amount, a supplemental receiving means, means to transfer the complement of the multiplicand amount from the first named receiving means to said supplemental receiving means before the latter receives quotient digits derived by subsequent dividing operations, record controlled dividend receiving means for receiving said product to be utilized in dividing operations as a dividend, devices coordinated for automatic operation for dividing said dividend derived from said dividend receiving means by the divisor derived from the related receiving means for the multiplier amount and for entering the successive quotient digits in said supplemental receiving means to bring the supplemental receiving means to the same digit position in all orders if the recorded multiplicand amount equals the computed quotient, said dividing devices bringing the dividend receiving means to a zero status upon completion of dividing operations, and means to test the dividend receiving means for determination of an all zero condition and to test the supplemental receiving means for determination of the same digit representation in all orders.

2,315,687
CONSTRUCTION UNIT
Edmund P. Burke, Los Angeles, Calif.
Application July 24, 1939, Serial No. 286,144
6 Claims. (Cl. 72—115)



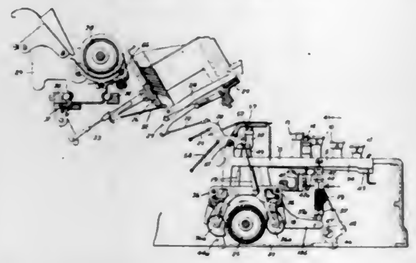
3. A fabricated construction unit comprising a pair of parallel, spaced angle irons in opposing relation, the instanding leg of one angle being coplanar with the instanding leg of the other angle, the coplanar leg of each angle iron being provided with a longitudinally extending groove and an integral, inwardly extending lip at the edge of such leg; and a continuous zigzag member connecting said angle irons in spaced relation, apex portions of the zigzag member being welded to the groove and to the lip of each coplanar leg.

2,315,688
BUS
Thurston Crawford, Columbus, Ga.
Application October 14, 1941, Serial No. 414,973
2 Claims. (Cl. 280—33.1)



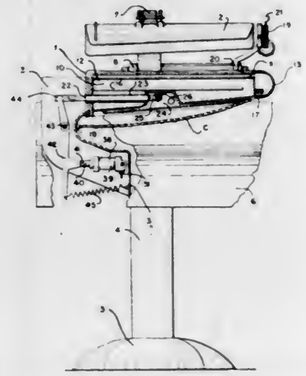
1. In a passenger bus, a tractor unit having front and rear wheels, a trailer unit having rear wheels only, a fifth wheel connection between the front end of the trailer unit and the tractor unit, an underframe for the trailer unit having an upward offset toward the front to overhang the tractor unit, a roof for the trailer unit having a raised portion over the offset portion of the frame, a passenger platform on the tractor unit forward of the overhanging end of the trailer unit, steps on the tractor unit leading to the platform, a front entrance door in the forward end of the trailer unit and an exit door toward the rear of the trailer unit, a driver's cab in front of the passenger platform, and a window in the rear of the driver's cab opposite the entrance door for the collection of fares.

2,315,689
TYPEWRITING MACHINE
Richard W. Davidson, West Englewood, N. J., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application December 13, 1940, Serial No. 369,991
30 Claims. (Cl. 197—17)



9. In a typewriting machine, a series of typebars for printing the digits of amounts one digit at a time; a series of keys, each representing a different amount comprising a plurality of digits; means to operate the typebars one at a time, means controlled by the keys for causing said operating means to operate a plurality of the typebars in succession to print the respective digits represented by the keys, carriage return means, and means rendered effective by the key controlled means for causing an operation of the carriage return means.

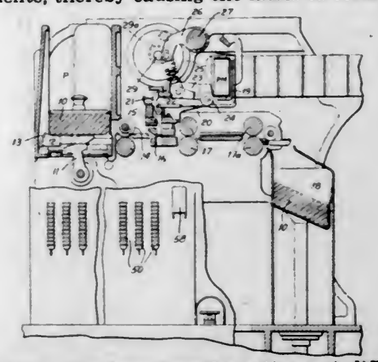
2,315,690
SLEEVE PRESS
Ernest Davis, Syracuse, N. Y., assignor to The Prosperity Company, Inc., Syracuse, N. Y., a corporation of New York
Application July 30, 1941, Serial No. 404,692
2 Claims. (Cl. 223—57)



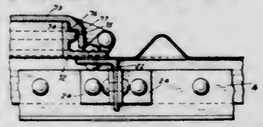
1. In a machine for pressing tubular fabric articles, complemental cooperating pressing elements having relative opening and closing movement, on one of which elements the article is sleeved, said elements being elongated so that a comparatively long article may be sleeved on one of the elements with a portion hanging under said element, said elements having outwardly inclined sides extending in the general direction of the opening and closing movement and the sides of the element on which the article is sleeved being expansible outwardly, means for effecting the relative opening and closing movement and for expanding the element on which the article is sleeved, including an endwisely movable member extending lengthwise of the element on which the article is sleeved, between said inclined sides, and having an endwise operating movement, and connections between the sides and operated by said member to expand said sides, said member and connections being housed entirely within the element on which the garment is sleeved in order to permit sleeving of the article on said element.

2,315,691
PERFORATING MACHINE
Arthur H. Dickinson, Scarsdale, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application December 16, 1941, Serial No. 423,146
4 Claims. (Cl. 164—113)

1. Apparatus for perforating statistical cards at different index point positions, in different columns, comprising a plurality of punch elements, one for each column, each of said punch elements having a different configuration at its piercing end, means for feeding the different index point positions, on each card, past the punch elements, step by step, control magnets for rendering the punch elements operative, and means for selectively energizing the control magnets, as each card is fed, step by step, past the punch elements, thereby causing the latter to form perforations, of different configurations, at different index point positions, on the cards.

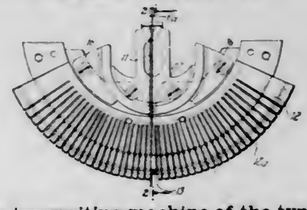


2,315,692
CLOSURE
Frank Ditchfield, Cleveland, Ohio, assignor to The Youngstown Steel Door Company, Cleveland, Ohio, a corporation of Ohio
Application September 2, 1939, Serial No. 293,263
9 Claims. (Cl. 220—1.5)



1. In a freight container having an opening therein, a frame secured to said container and having a leg extending around said opening, a flange projecting outwardly from said leg intermediate the upper and lower edges thereof and extending around said opening, and a hinged closure for said opening, said closure having a depending flange extending around said opening outwardly of and terminating below said projecting flange.

2,315,693
TYPEWRITING MACHINE
Ronald D. Dodge, Rochester, and Jess Earl Wood, Odessa, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application November 29, 1940, Serial No. 367,710
12 Claims. (Cl. 197—183)



1. In a typewriting machine of the type wherein the type bars are mounted with their pivots in an arc and have types swinging in an arc to impact a work sheet at a common printing point and wherein the type bars, intermediate the types and their pivots, strike and are flexed by an anvil which arrests the type bars prior to impact of the types at the printing point to effect said impact of the types by flexure of the type bars

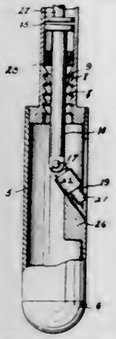
at the anvil contacting portions of the type bars, an anvil shaped to contact the type bars at the center of said arc closer to said arc than the type bars at the ends of the arc to flex the end type bars at points nearer the types thereon than the central type bars.

2,315,694

MEANS FOR TESTING SUBTERRANEAN STRATA FOR LIQUID AND GASEOUS CONTENT

Leslie A. Douglas, San Antonio, Tex.

Application June 10, 1941, Serial No. 397,507
6 Claims. (Cl. 255—1.4)



1. A device of the character described comprising a pipe section having a side wall opening formed therein, a tubular member from which said pipe section is suspended, a piston movable in said tubular member, a rod projecting from said piston, pawl and ratchet connections between said rod and tubular member, a strata-penetrating tool pivotally connected to the end of said rod, said tool having a port formed therein, the joint between said tool and rod permitting swinging movement of the tool with respect to said rod and permitting flow of gas or liquid from the tool past said joint, a port in the rod, and a collecting chamber to which said port leads.

2,315,695

METHOD OF POLISHING METALS

Charles L. Faust, Columbus, Ohio, assignor to Battelle Memorial Institute, Columbus, Ohio, a corporation of Ohio

No Drawing. Application November 23, 1938, Serial No. 241,976
3 Claims. (Cl. 204—140)

3. The method of electro-polishing a metal or alloy selected from the group consisting of iron and its alloys, nickel and its alloys, and German silver, which comprises passing an electric current from the metal or alloy selected from the group named as the anode through a solution of from about 33 to 50% sulfuric acid and from about 33 to 40% glycerine by weight, the balance being largely water, and continuing to pass such electric current while of a sufficient density for a sufficient length of time to affect the polish of said metal or alloy.

2,315,696

POLISHING OF METAL SURFACES

Charles L. Faust, Columbus, Ohio, assignor to Battelle Memorial Institute, Columbus, Ohio, a corporation of Ohio

No Drawing. Application August 16, 1939, Serial No. 290,493
2 Claims. (Cl. 204—140)

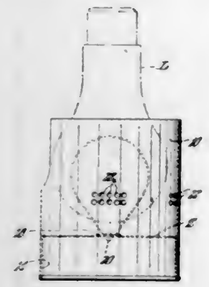
1. An electrolytic solution for use in the anodic polishing of metals and alloys selected from the group consisting of iron and nickel and their alloys and German silver, consisting essentially of about 15% of sulfuric acid, 63% of ortho phosphoric acid and 5% of perchloric acid by weight, the balance being mainly water.

2,315,697

DEODORIZING DEVICE

Nicholas A. Glaskowsky, Westfield, Mass., assignor to Stanley Home Products, Inc., Westfield, Mass., a corporation of Massachusetts

Application February 28, 1940, Serial No. 321,268
1 Claim. (Cl. 21—120)



As a new article of manufacture, a deodorizing device of the class described for removably attaching to a light bulb which is disposed in either upright, inverted or horizontal positions comprising in combination, a cylindrical member having its opposite ends open, a transverse partition wall within said member extending thereacross at a point nearer one end of the member than the other and cooperating with the side walls of the member to provide oppositely-disposed relatively shallow and deep receptacles for deodorizing materials, said member being provided with a series of openings extending circumferentially of the side wall of said deep receptacle, a clip secured to said partition wall and extending outwardly away therefrom and within the deep receptacle for yieldingly engaging a light bulb, said member being provided with a cut-away portion which extends inwardly from the outer marginal edge of the side wall of the deep receptacle to a point in a plane outwardly of said series of openings, all adapted and arranged whereby the device may be associated with a light bulb which is in upright position by engaging the bulb by the clip with the open end of the shallow receptacle uppermost and may be associated with a light bulb which is in an inverted position by engaging the bulb by the clip with the open end of the deep receptacle uppermost and may be associated with a light bulb which is in horizontal position by engaging the bulb by the clip with the bulb extending into said cut-away portion and the open end of the deep receptacle uppermost.

2,315,698

TROUSERS SUPPORTING MEANS

William Gluckmann, Jamaica, N. Y.

Application November 17, 1941, Serial No. 419,358
6 Claims. (Cl. 2—117)

1. In combination a pair of suspenders and a shirt, said suspenders consisting of two front members and a back member and being provided with means for adjusting the length of each of said members, means for attaching them to trousers on the inside of the waistband thereof at a level below the upper edge of said trousers, and said shirt being provided with a plurality of slits adapted to permit the passage of said suspender members therethrough located substantially in line with the points of attachment of said suspenders to said trousers when said shirt,



trousers and suspenders are in place upon a wearer, a strip adapted to cover said slit and attached to the outside of said shirt, and having a slit therein, said trousers attaching means comprising a plate having its lower end bent in the form of a hook to engage the trousers, a downwardly extending clip positioned above said hook to engage the slit in said strip, and a slot between said hook and said clip to receive said strip.

2,315,699

CRYSTALLIZATION OF SORBITOL

Rudolph Max Goepp, Jr., New Castle, Del., assignor to Atlas Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 27, 1939, Serial No. 286,893
5 Claims. (Cl. 260—637)

1. The method of preparing crystalline sorbitol from an overloaded impure feed solution of sorbitol in water, said sorbitol being produced by the hydrogenation of a sugar and having a pyridine number not less than 50, which comprises slowly mixing said solution at approximately constant temperature with a seed magma consisting of a water solution saturated with respect to sorbitol and containing about 10 to 13% separated solids as well-formed sorbitol seed crystals, said seed crystals having substantial thickness and strength such that a gently stirred overloaded sorbitol solution in water at 25° C. and containing at least 8% of such crystals as separated solids remains mobile, said seed magma being present in an amount of at least 60% of the total mixture; continuing said mixing until the amount of well-formed sorbitol crystals in the total mixture increases to 10 to 13%; withdrawing a portion not exceeding 40% of the said total mixture; separating the crystals in the withdrawn portion from the mother liquor; replacing the withdrawn portion with an equal quantity of fresh overloaded impure feed solution of sorbitol in water; and repeating the steps of mixing, withdrawing, separating and replacing to continue the operation of the method.

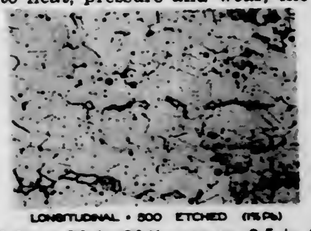
2,315,700

SILICON BRASS ROD

Frederick H. Hehemann, Cincinnati, Ohio, assignor to The Lunkenheimer Company, Cincinnati, Ohio, a corporation of Ohio

Application April 12, 1941, Serial No. 388,339
8 Claims. (Cl. 75—155)

1. In an alloy capable of extrusion having characteristics of free machining with high resistance to heat, pressure and wear, the combi-



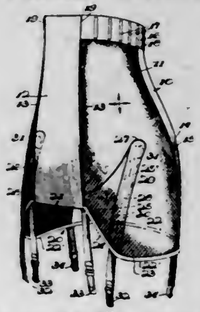
nation of from 70 to 80% copper, 2.5 to 3% silicon, 15 to 29% zinc and .05 to 2.5% lead.

2,315,701

GIRDLE OR LIKE GARMENT

Henry M. Herbener, Thomasville, Ga.

Application December 21, 1940, Serial No. 371,194
7 Claims. (Cl. 2—43)



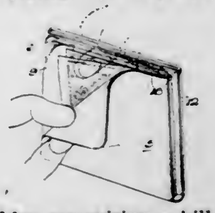
1. A girdle or the like comprising a flexible body portion of sufficient length to extend at its bottom below the crotch of the wearer and at its top above the hip joints, said body portion being provided adjacent to its bottom with a front opening having its top terminating beneath the hip joints to promote the freedom of movement of the legs, and upstanding stiffening rib means disposed upon opposite sides of the front opening and secured to the body portion and extending upwardly from points adjacent to the bottom edge of the body portion and having their upper ends terminating above the top of the front opening and near the elevation of the hip joints, said rib means receiving tension and serving to transmit a portion of the same to the bottom portion of the girdle.

2,315,702

BILL FOLDER

Henry M. Herbener, Thomasville, Ga.

Application February 11, 1941, Serial No. 378,450
3 Claims. (Cl. 150—38)



1. A bill folder comprising a bill holding unit and a pocket unit, the bill holding unit comprising a side, a second side carried by one end of the first side and foldable inwardly upon a

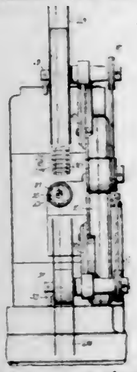
transverse line to assume a position upon the inner face of the first side, a partition arranged upon the inner face of the second side and carried by the second side adjacent to the inner longitudinal edge of the second side, the partition being movable about a longitudinal line, said partition having a transverse edge arranged near the transverse folding line, the bills being arranged upon the inner face of the first and second sides and positioned beneath the partition to be folded about the transverse edge of the partition when the second side is folded inwardly over the first side, the pocket unit comprising a pocket having a side, the pocket unit side being carried by the first side adjacent to the inner longitudinal edge of the first side which inner longitudinal edge is next to the inner longitudinal edge of the partition, the pocket side being foldable upon a longitudinal line toward the inner face of the first side, the pocket unit side being of substantiallly the same length as the first side, the pocket of the pocket unit having its inner end open, the closed bill holding unit and the pocket unit having substantially the same length and being foldable inwardly toward each other along the longitudinal line to assume an opposed closed position exteriorly of each other, the arrangement being such that the inner open end of the pocket is covered and the bills may be stripped from within the bill holding unit without opening the bill holding unit and the pocket unit.

2,315,703

MOTION PICTURE PROJECTOR

Walter H. Hirschfeld, Chicago, Ill., assignor to Max Levey, Chicago, Ill.

Application May 16, 1939, Serial No. 273,975
4 Claims. (Cl. 88—16)



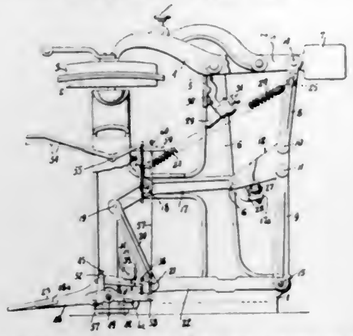
1. A motion picture projector for use with either single-width or double-width films containing the same size pictures, characterized by a single-width framing aperture, which framing aperture is stationary and is arranged for registration and use with either the single row of pictures on a single-width film or with one of the two parallel rows of pictures on a double-width film, means for feeding a film past the aperture from a pay-out reel to a take-up reel, spindles fixedly positioned with respect to the aperture for supporting the reels, and means associated with the spindles for automatically positioning corresponding sides of the reels in the same plane with respect to the stationary single-width framing aperture regardless of whether the reels are narrow and carry only a single-width film having but one row of pictures or are wide and carry a double-width film having two parallel rows of pictures.

2,315,704

GARMENT PRESSING MACHINE

Walter A. Hoch, Forest Hills, N. Y., assignor to New York Pressing Iron Company, Inc., New York, N. Y., a corporation of New York

Application April 18, 1940, Serial No. 330,285
5 Claims. (Cl. 38—36)



1. A garment press having press-operating means and a frame, and a buck fixed to said frame and a head movable up and down relative to said buck, said press-operating means being adapted to operate said head, a first member fixed to a part of said press-operating means and automatically movable in unison with said press-operating means, a locking-member turnably connected to said frame and movable independently of said press-operating means, said first member being moved towards said locking-member by said press-operating means when said head is moved towards said buck by said press-operating means during the closing movement of said press, said locking-member having a bore which is oversized relative to the cross-section of the part of said first member which enters said bore when the press is closed, the locking-member being located so that the first member enters said bore during the closing movement of the press, said bore and said first member being shaped so that said first member moves said locking-member in unison with said first member when said first member is moved in unison with said press-operating means during the movement of the head towards the buck, resilient means adapted to urge said locking-member to a position relative to the first member when the first member is in said bore in which the wall of said bore frictionally locks said first member against movement out of said bore, a release member adapted to move said locking-member against the force of said resilient means to a position in which the locking-member releases the first member.

2,315,705

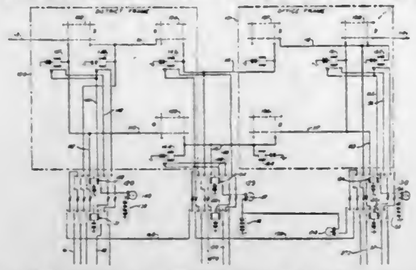
TESTING AND SELECTING SYSTEM

William H. T. Holden, Woodside, and Luther G. Schimpf, St. George, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application July 31, 1941, Serial No. 404,804
7 Claims. (Cl. 179—18)

1. In combination, a plurality of connecting channels each comprising a number of serially related links, a plurality of discharge tubes, one for each of said channels, means for applying potentials to said tubes to condition for operation each tube corresponding to an idle channel, means for producing cyclically a multiplicity of impulses of different phases, circuit means for

applying said impulses to said tubes to cause the operation of the first tube in order corresponding to an idle channel, means to prevent the operation of another one of said tubes, and means controlled by the operated tube for utilizing the corresponding channel in the establishment of a connection.

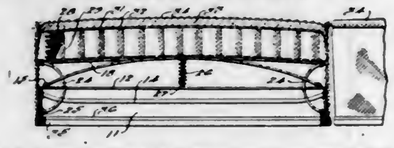


2,315,706

SPRING CONSTRUCTION

Henry Hopkes, Grosse Pointe, Mich., assignor to No-Sag Spring Company, Detroit, Mich., a corporation of Michigan

Application May 8, 1939, Serial No. 272,333
3 Claims. (Cl. 5—351)



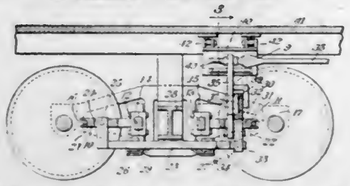
3. A spring assembly including, in combination, a frame, a pluraility of spring strips spanning said frame above the top edge thereof, resilient means supporting some of the ends of said strips, means for attaching other ends of said strips to said frame, and coil springs secured to each other and supported upon said resiliently supported strips with each row of springs aligned with one of said strips to form a soft spring construction having a soft edge.

2,315,707

DEVICE FOR CORRECTING THE UNEVEN WEAR OF BRAKE SHOES

Perry W. Hoshor, Albuquerque, N. Mex.

Application February 24, 1942, Serial No. 432,159
3 Claims. (Cl. 188—52)



1. The combination with a car and the brake beams and the bolster thereof, of rectilinear struts secured to the brake beams, said struts being provided with respective openings, an L-shaped push rod having a vertical leg pivoted in the opening of one strut and having a long horizontal leg, means carried by the bolster in which said horizontal leg is slidably mounted a vertically disposed lever extension pivoted at a point between the ends in the opening in the other strut and pivoted at the lower end to the end of the long leg of the push rod, a vertically disposed operating lever, means connecting the operating lever to the lever extension for forward or rearward movement therewith and for lateral swinging movement with relation thereto, an inverted U-shaped guide hinged to the bottom of the car, the upper end of the operating lever being disposed in said guide, said guide being adapted for lateral swinging movement, and a connecting rod loosely connected to the upper end of the operating lever and adapted to be connected to a conventional air operated piston for moving the operating lever to move the brake beams forwardly or backwardly in a rectilinear direction.

2,315,708

POLYESTER RESINS FROM PHTHALIC ANHYDRIDE PENTAERYTHRITOL AND SOYA BEAN OIL

Almon G. Hovey, Birmingham, and Theodore S. Hodgins and Charles J. Meeske, Royal Oak, Mich., assignors to Reichhold Chemicals, Inc., Detroit, Mich.

No Drawing. Application January 15, 1941, Serial No. 374,558
2 Claims. (Cl. 260—22)

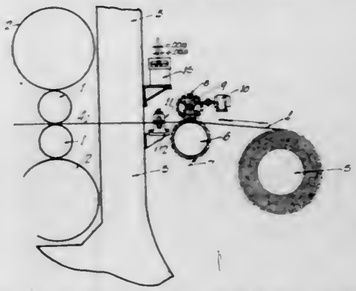
1. A process of producing a resinous product from soya bean oil, pentaerythritol and phthalic anhydride, which comprises heating the oil to about 180° C., adding a small quantity of an alcoholysis producing alkaline catalyst and a quantity of pentaerythritol just sufficient to effect substantially complete alcoholysis of the oil, maintaining the batch at a temperature of about 190° to 220° C. for a period of three-quarters of an hour to three hours until alcoholysis is substantially complete and an alcohol soluble intermediate is obtained, then adding additional pentaerythritol and phthalic anhydride at a temperature of about 200° C. in a quantity sufficient to form a resinous product, and continuing the reaction at a temperature of about 220° to 250° C. until a final resinous product is obtained having an acid number of less than 50.

2,315,709

OFF-GAUGE TOTALIZER

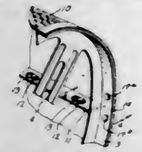
Edwin B. Hudson, Middletown, Ohio, assignor to The American Rolling Mill Company, Middletown, Ohio, a corporation of Ohio

Application May 10, 1940, Serial No. 334,428
12 Claims. (Cl. 33—129)



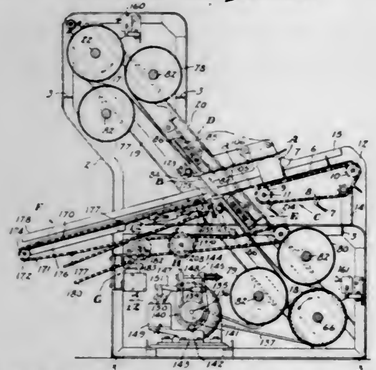
11. In a device of the character described, means for continuously indicating the gauge of strip being rolled, means for pre-establishing a below-gauge tolerance limit, means for measuring the total length of strip being rolled, and means controlled by said strip and operative only during such times as said below-gauge tolerance is exceeded for measuring the length of below-gauge strip being rolled.

2,315,710
SCALE CHART
Bert W. King, Detroit, Mich., assignor to Barnes Products, Incorporated, Detroit, Mich., a corporation of Michigan
Application July 17, 1939, Serial No. 284,962
6 Claims. (Cl. 116—129)



1. In a scale chart, a sheet of light thin metal fashioned into cylindrical form, the adjacent edges of the sheet being turned straight inwardly in abutting relation and being secured together, leaving a substantially unobstructed outer surface at the seam, the inturned edges terminating short of the edges of the drum, and a wheel with a rim fitted within each end of the drum and outwardly of said inturned edges.

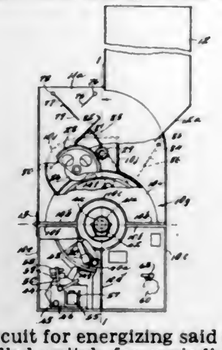
2,315,711
SLICING MACHINE
Arthur A. Kottmann, Davenport, Iowa, and Earl C. Vollmer, Rock Island, Ill., assignors, by mesne assignments, to The Bettendorf Company, a corporation of Maryland
Original application March 6, 1939, Serial No. 260,046. Divided and this application June 28, 1941, Serial No. 400,270
7 Claims. (Cl. 192—129)



1. A slicing machine comprising spaced rotatable drums, a multiplicity of endless cutter bands of resilient material trained under tension about the drums, electric drive means for one of the drums, an electric circuit for operating the drive means, a switch for controlling said circuit to stop the drive means, a movable member mounted to turn about an axis substantially paralleling the rotational axis of one of the drums and extending across a number of the bands and closely adjacent the paths thereof, and means connecting the movable member to the switch, said movable member being moved by the impact thereagainst of a broken band so as to release the switch and stop the drive.

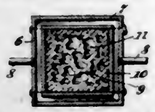
2,315,712
SEPARATING MACHINE
Frank H. Jacobson, Minneapolis, Minn.
Application March 27, 1940, Serial No. 326,218
14 Claims. (Cl. 209—228)

1. A separating device having in combination, a revoluble member having a portion of its periphery formed as a magnet, a stop engaging said member to hold the same stationary, means for rotating said member, a magnet for withdrawing



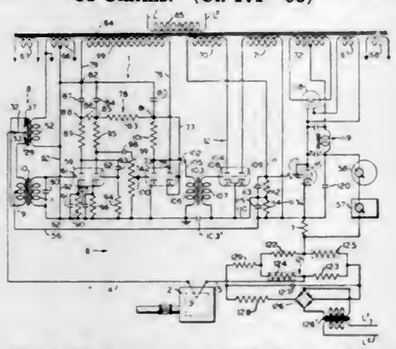
said stop, a circuit for energizing said magnet and a time controlled switch for periodically closing said circuit and withdrawing said stop to permit rotation of said member.

2,315,713
MOLDED ARTICLE, BINDER, AND PROCESS OF MANUFACTURING THE SAME
Fred J. Johnson, Rockville Centre, N. Y.
Application June 18, 1940, Serial No. 341,101
16 Claims. (Cl. 18—47.5)



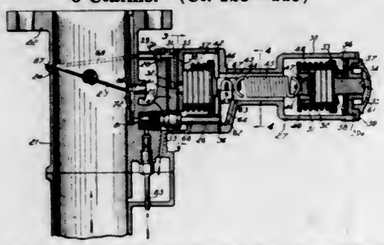
1. A binder for molded articles, consisting essentially of waterglass mixed with zinc stearate and brought to a creamy consistency.

2,315,714
MEASURING APPARATUS
Harry S. Jones, Washington, D. C., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania
Application June 12, 1942, Serial No. 446,831
31 Claims. (Cl. 171—95)



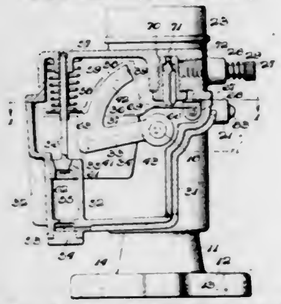
9. Measuring apparatus including a first unidirectional E. M. F. which is variable in magnitude and which varies in magnitude in accordance with the variations in magnitude of a variable condition, a second unidirectional E. M. F. to be measured, a circuit connection to oppose said first and second unidirectional E. M. F.'s to derive a differential E. M. F., means responsive to said differential E. M. F. to vary the magnitude of said first mentioned unidirectional E. M. F. to reduce said differential E. M. F., and means in said circuit connection to compensate for variations in said first unidirectional E. M. F. due to variations in said variable condition.

2,315,715
FUEL SUPPLY CONTROL MEANS
William E. Leibing, San Rafael, Calif., assignor to Leibing-Fageol Company, Detroit, Mich., a partnership composed of F. R. Fageol, Ravenna, Ohio; R. D. Fageol, Detroit, Mich.; Jessie M. Fageol, Ravenna, Ohio; W. E. Leibing, Detroit, Mich.; and D. C. Farnsworth, Veterans Hospital, San Fernando, Calif.
Application January 23, 1939, Serial No. 252,470
8 Claims. (Cl. 123—119)



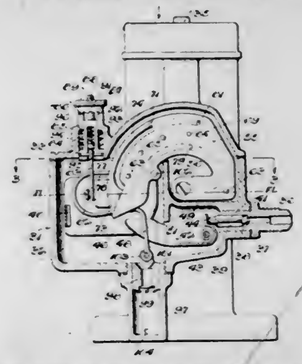
1. In a compensating device for controlling the operation of a fuel supply restricting means in a carburetor or the like, a deformable pressure actuated element; a fuel supply valve operating lever controlled by said element; a spring connected to said element at one end for governing the action of said element; an expansible sealed bellows swivelly connected to the opposite end of said spring and means for adjusting the tension of said spring.

2,315,716
CARBURETOR
William E. Leibing, Detroit, Mich., assignor to Leibing-Fageol Company, Detroit, Mich., a partnership composed of F. R. Fageol, Ravenna, Ohio; R. D. Fageol, Detroit, Mich.; Jessie M. Fageol, Ravenna, Ohio; W. E. Leibing, Detroit, Mich.; and D. C. Farnsworth, Veterans Hospital, San Fernando, Calif.
Application October 1, 1940, Serial No. 359,282
8 Claims. (Cl. 261—34)



1. A carburetor for an internal combustion engine comprising a conduit, a throttle valve in said conduit, a shaft for supporting said valve, a fuel jet in said conduit, a float chamber, said shaft being formed with a fuel passage connected with said fuel jet, and means to connect said fuel passage to said float chamber comprising a hollow arm connected to said shaft to rotate therewith, and extending outwardly therefrom, a portion of said arm being bent upwardly and being formed with a series of metering openings arranged to be successively immersed in the fuel in said float chamber as said throttle valve is opened.

2,315,717
CARBURETOR
William E. Leibing, San Rafael, Calif., and Robley D. Fageol, Grosse Pointe Farms, Mich., assignors to Leibing-Fageol Company, Detroit, Mich., a partnership composed of F. R. Fageol, Ravenna, Ohio; R. D. Fageol, Detroit, Mich.; Jessie M. Fageol, Ravenna, Ohio; W. E. Leibing, Detroit, Mich.; and D. C. Farnsworth, Veterans Hospital, San Fernando, Calif.
Application May 1, 1941, Serial No. 391,412
5 Claims. (Cl. 261—50)



1. A carburetor for an internal combustion engine comprising a conduit, a throttle valve in said conduit, a float chamber, a fuel jet in said conduit, and means to conduct and meter fuel to said fuel jet from said float chamber comprising a slotted member arranged to be progressively immersed in the fuel in said float chamber as said throttle valve moves from closed to open position, means to seal the portion of said slot immediately adjacent the fuel level line in said float chamber in all positions of said slotted member, and means to control the pressure in said slot adjacent said fuel level line.

2,315,718
MOPPING COMPOUND
William J. Lilpfert, Fort Valley, Ga., assignor to Woolfolk Chemical Works, Limited, Fort Valley, Ga., a partnership
No Drawing. Application August 22, 1940, Serial No. 353,684
2 Claims. (Cl. 167—15)

1. A mopping composition in dry form comprising approximately 50% by weight of a powdered arsenical poison and approximately 40% to 50% by weight of powdered bentonite, the powdered arsenical poison and the powdered bentonite being thoroughly commingled in a substantially dry, powdered condition, the particles of arsenical poison and bentonite in the composition being individual and having substantially the same chemical and physical characteristics they initially possessed prior to their being commingled and the said bentonite having the power to absorb a sufficient amount of water to form a highly adhesive and viscous paste, said composition being capable of withstanding deteriora-

tion for substantially long periods and being capable upon being mixed in the proportion of about one part by weight of the composition to about eight parts by weight of water, of forming a non-sprayable, non-dustable, paste having such high adhesiveness and viscosity as to make it capable of being applied to plants as a thick layer by the mopping method and of being retained on the plants without any substantial loss by dripping and having such homogeneity that there is no appreciable separation of the solids for approximately twenty-four hours, whereby the arsenical poison and the bentonite can be evenly distributed by the mopping method upon the plants for the destruction of plant pests such as the boll weevil.

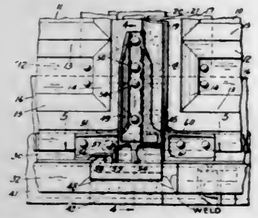
2,315,719

CAR DOOR

Thorvald Madland, Chicago, Ill., assignor to The Youngstown Steel Door Company, Cleveland, Ohio, a corporation of Ohio

Application April 30, 1940, Serial No. 332,507

12 Claims. (Cl. 20—22)



1. As an article of manufacture, a fabricated member for a railway house car having a supporting track and main and auxiliary sliding lift doors supported upon said track, said fabricated member having a vertical flange adapted to be secured to the underframe of said car, a flange extending outwardly from said vertical flange and spaced stop flanges, one of said stop flanges being adapted to engage said auxiliary door when elevated to limit closing movement thereof, the other of said stop flanges being spaced rearwardly from said first mentioned stop flange and being adapted to engage said auxiliary door when lowered and unlocked to permit opening movement thereof to a predetermined amount.

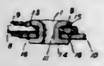
2,315,720

ELECTRICAL CONNECTING DEVICE

Rudolph F. Mallina, Hastings on Hudson, N. Y., and Humphreys O. Siegmund, West Orange, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application March 15, 1941, Serial No. 383,530

6 Claims. (Cl. 173—324)



6. In combination, a single wire conductor covered with insulation and having a loop formed therein, a terminal having an aperture and an eyelet having prongs cut in its shank with the shank inserted in the loop and the aperture and the shank swaged over the terminal so that the prongs will pierce through the insulation on one side of the loop and so that the flange of the eyelet crushes the insulation away from the other side of the loop to establish an electrical connection between the loop and the terminal and the eyelet.

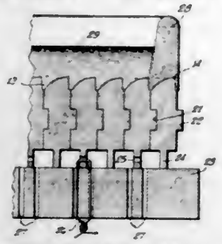
2,315,721

MATRIX ELEMENT FOR MAKING LIGHT TRANSMITTING SCREENS

Otis C. Martin, Los Angeles, Calif.

Application June 28, 1939, Serial No. 281,625

4 Claims. (Cl. 18—34)



1. As an article of manufacture, a flat metal tape adapted to be wound in spiral fashion upon itself to provide a matrix surface for forming a light transmitting screen of the type employing a grooved surface defining a plurality of facets for refracting light received from a projector disposed on one side of a screen into a camera disposed on the other side thereof in which one edge portion of said tape is formed with a roughly triangular cross section defined by two intersecting side surfaces each sloping inwardly toward the other from the side surfaces of said tape.

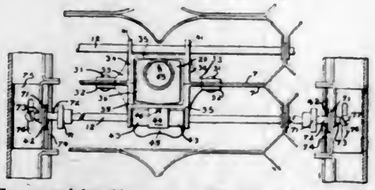
2,315,722

LOCKING DEVICE

Edward H. McCloud, Columbus, Ohio, assignor to The Kinnear Manufacturing Company, Columbus, Ohio, a corporation of Ohio

Original application November 19, 1940, Serial No. 366,269. Divided and this application June 10, 1941, Serial No. 397,417

8 Claims. (Cl. 160—201)



1. In combination, a grill, the area of which includes a number of spaced parallel rods, means for holding said rods in spaced parallel relation, vertical guides extending on each side of said grill and having slots slidably engaged by the ends of said rods, a lock, means for mounting said lock between any two rods lying adjacent to each other, means on at least one end of a rod and on the vertical guide therefor whereby when said rod is rotated said grill will be held in locked position, and latch means on said lock adapted to engage and hold said rod against rotation when said lock is in locked position.

2,315,723

RECORD CONTROLLED MACHINE

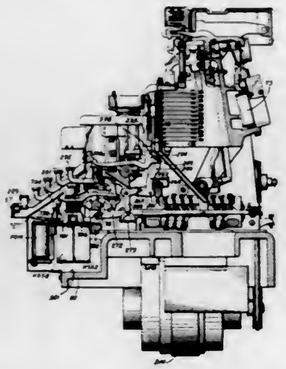
Albert W. Mills and Frank J. Furman, Endicott, and Edward J. Rabenda, Binghamton, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application October 13, 1941, Serial No. 414,818

27 Claims. (Cl. 197—20)

5. In a machine of the class described, means to sense data designations in a record, a series of

operable elements, each representing a character; a series of selector bars common to all of said operable elements and movable singly and in combination to represent a character and by such movement to select the operable element cor-



responding to such character, means to operate the selected element, and means jointly controlled by the record sensing means and by movement of the selector bars for causing operation of the operating means for said element.

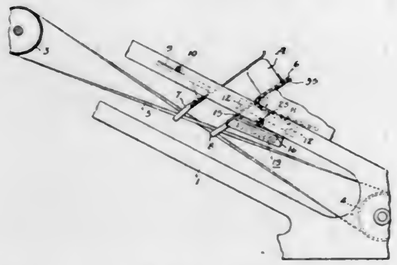
2,315,724

BLADE SPACER

Harold H. Mohl, Davenport, Iowa, assignor, by mesne assignments, to The Bettendorf Company, a corporation of Maryland

Application September 19, 1941, Serial No. 411,518

11 Claims. (Cl. 146—88)



1. In a bread slicing machine having a plurality of cutters and actuating means therefor, a mechanism for spacing and guiding the cutters comprising a plurality of elongated relatively thin guide elements disposed in approximately parallel side by side relation and formed with aligned apertures, a lazy tongs extending horizontally through the apertures and connected to the guide elements, a member extending across the guides in confronting relation to the upper edges of the latter and in parallelism to the lazy tongs, means extending through said member at a plurality of spaced points and having supporting connection with the lazy tongs, the latter being wholly supported thereby, said guide elements being wholly supported by the lazy tongs whereby the bottom edges of the guide elements are unobstructed to permit bread crumbs to fall freely from between adjacent guide elements, and means for actuating the lazy tongs to expand and contract the same.

2,315,725

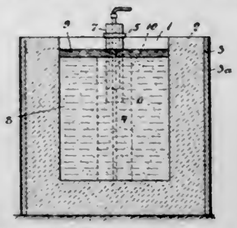
PROCESS FOR METALIZATION, ESPECIALLY ALUMINIZATION OF IRON ARTICLES

Göran August Möller, Lidkoping, Sweden

Application October 4, 1940, Serial No. 359,658

In Sweden October 26, 1939

8 Claims. (Cl. 117—114)



6. Process for application of a metal coating containing a metal of the group consisting of aluminum and magnesium to iron articles, which comprises arranging the coating metal on top of a molten salt layer comprising metal chlorides and having a higher specific gravity than the coating metal in its molten state, keeping said metal in a molten condition by transmission of heat from the molten salt layer, effecting the heating electrically by the aid of electrodes introduced into said molten salt layer, immersing the article to be coated through said molten metal layer into the molten salt layer, leaving it in said salt layer until it has attained a suitable temperature for the coating operation, and then withdrawing the article into the molten metal layer, where it receives a coating of the molten metal.

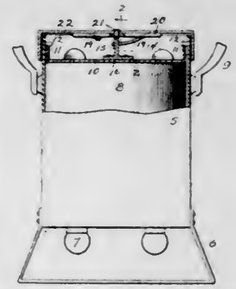
2,315,726

COMBINED BATTERY AND COVER RETAINING MEANS FOR ELECTRIC HAND LANTERNS

William M. Moxley, Kansas City, Mo.

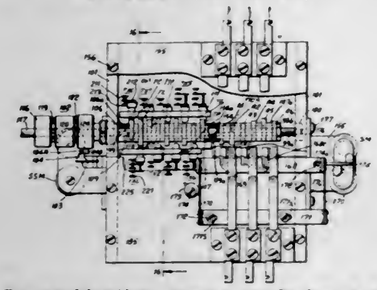
Application February 23, 1942, Serial No. 432,086

3 Claims. (Cl. 240—10.63)



1. The combination with an electric lantern of the type comprising a hollow body, a battery therein and a cover fitted upon the end of the body for turning movement about the axis of said body, of a battery retaining plate dimensioned to rest upon the battery between the battery and cover, inter-engaging means between the battery retaining plate and the side wall of the body shaped to exert a thrust between the body and the battery upon turning movement of said plate, an anchor carried by the battery retaining plate and projecting toward the cover, and members carried by the cover and engaging said anchor to lock the cover upon the body upon turning movement of the cover about the axis of the body.

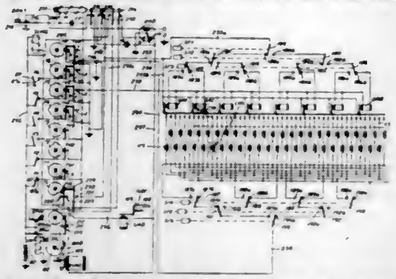
2,315,727
COMMUNICATION SYSTEM
Harry J. Nichols, Point Pleasant, N. J., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Original application August 17, 1940, Serial No. 353,114. Divided and this application June 13, 1941, Serial No. 397,851
10 Claims. (Cl. 178—27)



1. In combination, means producing a signal comprising a code permutation of a plurality of similar electrical signal components, each permutation being characteristic of a predetermined item, a control element, one for each predetermined item, a plurality of mechanical selector members, one for each signal component, a plurality of group relays, circuits controlled by said group relays for selecting said control elements in groups, a plurality of circuit closing elements arranged in a progression to produce successive halving of circuits selected and controlled selectively by certain of said mechanical selector members for selecting one of said group relays, in accordance with certain of the respective components of a certain code permutation, and a plurality of circuit closing elements arranged in a progression to produce successive halving of circuits selected and controlled selectively by the remaining mechanical selector elements in accordance with the remaining components for selecting a chosen one of the control elements of the selected group and in accordance with said certain code permutation only, means sequentially controlled by said separate signal components, means for actuating said mechanical selector elements, and means controlled by said sequentially controlled means for selectively rendering said actuating means operative or inoperative in accordance with the respective signal components.

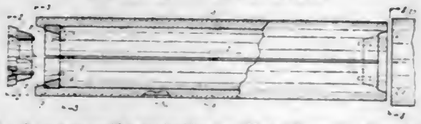
2,315,728
COMMUNICATION SYSTEM
Harry J. Nichols, Point Pleasant, N. J., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Original application August 17, 1940, Serial No. 353,114, now Patent No. 2,288,819, dated July 7, 1942. Divided and this application June 13, 1941, Serial No. 397,852
8 Claims. (Cl. 178—53.1)

1. In a device of the character described, a start-stop shaft, means for producing a single complete rotation of said shaft, a plurality of cams mounted on said shaft, the operating points of the respective cams being distributed sequentially about the shaft circumference, a plurality of push pins, one for each cam, cooperating with said cams, respectively, and mounted for movement generally radially of said shaft under the control of said cams, switches, including switch members, and a resilient member under the control of said push pins, respectively, said resilient members, respectively, urging its associated push pin into engagement with its cooperating cam, and at least one of said switch members cooperating with said resilient member in one radial



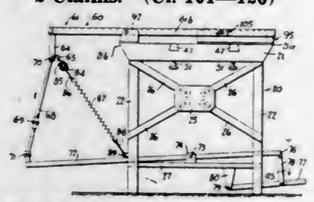
position of said push pins to close an electric circuit and at least one such member cooperating with said resilient member in the opposite radial position of said push pins to close an electrical circuit through the resilient member and said switch members, respectively.

2,315,729
COMBINATION PRINTING ROLL AND CORE SUPPORT
Benjamin L. Nunnally, Scarsdale, N. Y., assignor to Jas. H. Matthews & Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application October 31, 1941, Serial No. 417,325
2 Claims. (Cl. 101—375)



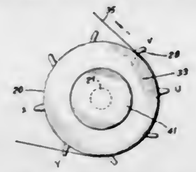
1. A composite printing roll and core structure comprising a printing sleeve, a collapsible core support therefor, said support consisting of half sections having dowel pins for maintaining said sections in angular and axial alignment, said half sections having slots and said printing sleeves having keys for engagement with the slots of said half sections, core heads for said half sections, said half sections having their ends of conical shape for receiving complementary shaped faces of said heads, means for securing said heads to said half sections, and means in said heads for maintaining a fixed relation of said heads to said core structure.

2,315,730
SCREEN PRINTING PRESS
Rudolf Orthwine, New York, N. Y.
Application August 16, 1941, Serial No. 407,151
2 Claims. (Cl. 101—126)



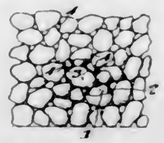
1. In a screen printing press the combination of a table having a plurality of dovetail slots, some of said slots extending the entire width of the table, the balance of said slots at right angles to the other slots, the second lot of slots extending adjacent to the other slots, a slide in each slot, means to maintain the slides in different operative positions, a recess at one end of some of the slides, a clamping member slidably engaged in said recess, a clamping finger connected to one end of clamping member, helical springs interposed between said clamping member and said recess to maintain the clamping member in extended position when not in use and means to securely clamp the material to be printed when a printing medium is pressed thereon.

2,315,731
PAPER FEEDING DEVICE
Robert E. Paris, New York, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application December 17, 1940, Serial No. 370,497
15 Claims. (Cl. 197—133)



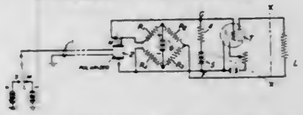
6. In a device for feeding manifolded record sheets having feed control perforations, a platen roller around which said sheets are fed, means for turning said roller, a series of feeding pins arranged around said platen, said pins having a pivot portion and a feed portion eccentrically located with respect to the pivot portion, the axes of said pivot portions being set radially in said platen in which said pins are rotatably mounted, and means for operating said pins to turn them in succession to locate the eccentric feed portion in an advanced position when entering into, and retracted when coming out of, said feed perforations in the manifolded sheets.

2,315,732
POROUS CONCRETE CONSTRUCTION AND METHOD OF MAKING THE SAME
Orin G. Patch, Coulee Dam, Wash.
Application July 31, 1940, Serial No. 348,767
11 Claims. (Cl. 72—0.5)



1. The method of producing porous concrete structures comprising first coating a plurality of aggregate particles individually with a film of chemically hardenable cementing material, placing the coated aggregates in a desired form, manipulating the material to bring adjacent portions of juxtapositioned particles into direct bearing contact by displacing the coating from between said contacting portions to accumulate around the contacting portions without appreciably filling the voids between the aggregate particles, and permitting the cementing material to harden by chemical action and unite the coated aggregate particles into a rigid porous structure.

2,315,733
IMPULSE REPEATER
Kenneth W. Pfleger, Arlington, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 28, 1941, Serial No. 420,754
3 Claims. (Cl. 178—70)

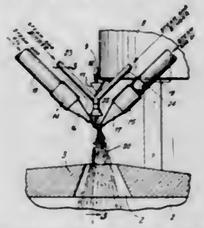


1. A relaying system for impulses comprising electro-mechanical means for closing one or the other of two paths in accordance with the impulses to be relayed, a discharge device connected to be controlled by and in accordance with the pulses, means whereby a definite current condition of the discharge device is established when the first of said paths is closed and remains established independently of the opening of that path until the second of said paths is closed, and means whereby a different definite current condition of the discharge device is established when the second of said paths is closed and remains established independently of the opening of the second of said paths until the first is closed.

2,315,734
PROCESS OF TREATING WATER
Anderson W. Ralston and William O. Pool, Chicago, Ill., assignors to Armour and Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application September 2, 1938, Serial No. 228,257
3 Claims. (Cl. 210—23)

1. The process of treating turbid water for the removal of unfilterable turbidity therefrom which includes adding to the water a small amount, not to exceed five hundred parts per million, of an amino compound chosen from the group consisting of aliphatic primary and secondary amines having at least six carbon atoms in an alkyl group thereof, and water soluble salts of said amines, to cause the turbidity-forming particles in the water to flock together so that they can be separated mechanically from the treated water, and then separating the flocked particles and amino compound associated therewith from the water to give a water freed of such unfilterable turbidity and free of said amino compound.

2,315,735
METHOD OF AND APPARATUS FOR BLOWING MINERAL WOOL
Charles D. Richardson, Alexandria, Ind., assignor to National Gypsum Company, Buffalo, N. Y., a corporation of Delaware
Application May 15, 1940, Serial No. 335,396
14 Claims. (Cl. 49—1)

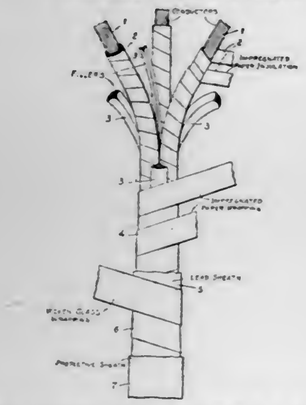


1. The method of blowing mineral wool, which consists in sequentially directing downward

blasts of steam against opposite sides of a downwardly flowing stream of molten material in a manner to produce a composite of the forces of the blasts acting to project the resultant shredded material downwardly through, and confine the same to, a zone of dispersion of substantially definite area directly to a place of deposition.

11. In combination with a vertical blow chamber of relatively large horizontal cross section having a relatively small opening in its top, and of a height to permit shredded molten particles projected through said opening to elongate into fibers before deposition at the bottom of said chamber, a cupola located above said blow chamber and having an outlet for delivering a stream of molten material, a pair of blow caps having nozzles, one of which is located at a higher elevation than the other, said nozzles being adapted to direct blasts of steam in a downward direction against opposite sides of the stream of molten material and thereby project the shredded material produced thereby downwardly through said opening.

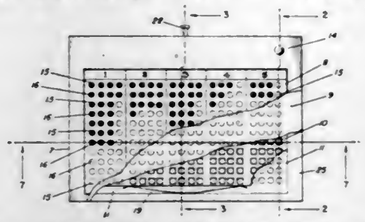
2,315,736
ELECTRIC CABLE
Samuel J. Rosch, Yonkers, N. Y., assignor to Anaconda Wire and Cable Company, New York, N. Y., a corporation of Delaware
Application April 24, 1940, Serial No. 331,326
9 Claims. (Cl. 174—107)



1. An electric cable comprising a metallic conductor, fibrous insulating material surrounding the metallic conductor, a fluid insulating compound impregnating the fibrous insulating material, a lead sheath encasing the conductor and fibrous insulating material, and a woven glass covering applied directly to the surface of and surrounding the lead sheath and reinforcing said sheath against distension as a result of pressure exerted within the sheath.

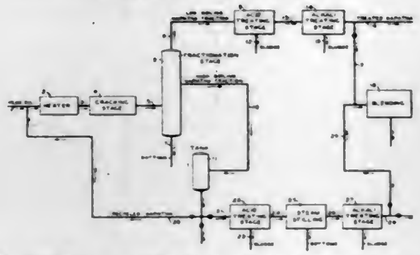
2,315,737
RECORDING DEVICE
Charles Ross, San Diego, Calif., assignor of one-half to Loyd B. Rice, La Jolla, Calif., one-eighth to John M. Sachs and Paul W. Dixon, one-eighth to George Bucknam, and one-sixteenth to Wesley S. Severson, all of San Diego, Calif.
Application August 4, 1941, Serial No. 405,439
6 Claims. (Cl. 116—136)

3. In a recording device, the combination of a placard composed of a plurality of connecting registering perforated layers, one of said layers being in the form of a sheet having lips cut therefrom adjacent to the perforations thereof, and normally extending into the same, and another of said layers being in the form of a grating in



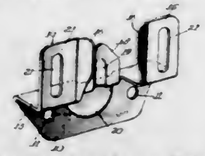
sliding contact with said sheet and positioned to push its lips back into normal position when displaced therefrom, means for bending said lips out of normal position, and means mounted upon said placard and connected to operate the sliding contact of said grating.

2,315,738
TREATMENT OF CRACKED HYDROCARBON DISTILLATES
William J. Ryan, Wilmington, and Marcus T. Kendall, Long Beach, Calif., assignors, by mesne assignments, to The Texas Company, New York, N. Y., a corporation of Delaware
Application May 13, 1939, Serial No. 273,566
2 Claims. (Cl. 196—32)



1. In the manufacture of gasoline, the steps which comprise subjecting hydrocarbon oil having a high sulphur content to thermal conversion by exposure to elevated temperatures in the range at which higher boiling hydrocarbons undergo conversion into lower boiling hydrocarbons, forming cracked naphtha distillate of high sulphur content containing gum-forming constituents as well as non gum-forming polymerizable constituents, separating said distillate into a lower boiling fraction containing constituents susceptible to formation of high boiling polymerization products at ordinary temperature when in the presence of sulfuric acid having a concentration in excess of 60% H_2SO_4, and a higher boiling naphtha fraction substantially free from such constituents and containing gasoline hydrocarbons in substantial amount, subjecting the lower boiling fraction to the action of sulfuric acid of about 50 to 60% H_2SO_4, and at a temperature of about 60 to 75° F. whereby gum-forming constituents are removed without substantially affecting other constituents, removing the acid sludge, subjecting the acid treated oil to the action of concentrated caustic alkali solution at a temperature in the range of about 150 to 300° F. and while under a substantially superatmospheric pressure to remove sulphur-containing bodies, and recycling the higher boiling naphtha fraction to said thermal conversion for further exposure to elevated temperature in the presence of fresh charge oil and wherein it undergoes further conversion.

2,315,739
SUPPORTING BRACKET FOR VALVES
William H. Sale, Sandston, Va.
Application October 27, 1941, Serial No. 416,606
8 Claims. (Cl. 303—1)



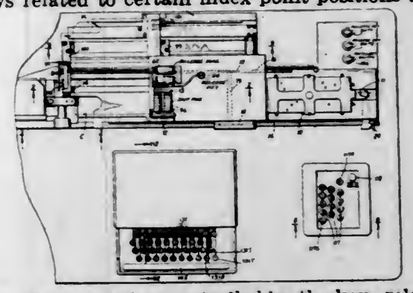
1. A carrying bracket for valves comprising a flange forming a back whereby the bracket can be secured to a support, a forward extension on and at the top of the flange, a pair of upstanding members on the front of the extension and spaced apart laterally to engage and hold between them a portion of the body of a valve-casing and an upstanding member on the extension forwardly of the flange, spaced rearwardly of the space between the front members and disposed to engage only the valve casing at the back of said body portion, so that a portion of the casing will be held between the front and rear upstanding members, the front members being extended to overlap the front of laterally projecting lugs on the casing.

2,315,740
PROTECTED METAL ARTICLE AND PROCESS OF PRODUCING THE SAME
James M. Schoonmaker, Jr., Sewickley, and Franklin Stockton, Coraopolis, Pa., assignors to Standard Steel Spring Company, Coraopolis, Pa., a corporation of Pennsylvania
No Drawing. Application June 16, 1941, Serial No. 398,338
10 Claims. (Cl. 204—37)

1. The method of increasing the corrosion resistant characteristics of ferrous base metal articles, which comprises electroplating directly upon the ferrous base a coat of nickel, then electroplating the nickel coating with zinc, and then sealing the pores resulting from electroplating by heat treating the composite electroplated article to a nickel zinc alloying temperature and under temperature-time relations at which there will be no substantial alloying of the nickel with ferrous base, to cause impregnation into the poles left by electroplating while maintaining the nickel unalloyed with the ferrous base, and with the zinc alloyed only with the nickel.

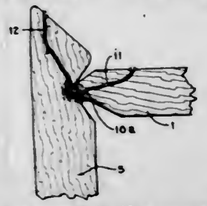
2,315,741
VERIFYING MACHINE
Orville B. Shafer, Owego, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application September 28, 1939, Serial No. 296,961
14 Claims. (Cl. 73—54)

1. In a verifying machine, means for advancing a perforated record card, said card having a column of index point positions in one or more of which positions perforations may be made, a circuit including means for controlling said advancing means, means for sensing the card column, a pair of sets of relays, one set being controlled by the sensing means in accordance with the perforations in part of the index point positions and the other set being controlled by the sensing means in accordance with the perforations in the remaining index point positions, a set of keys, one for each index point position, a second pair of sets of relays, one set being controlled by the keys related to certain index point positions and



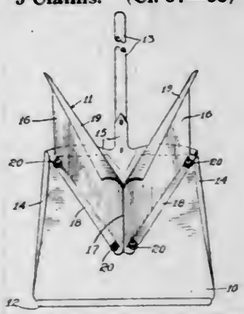
the other set being controlled by the keys related to the remaining index point positions, a pair of relay magnets each controlled by a pair of sets of relays and means jointly controlled by said magnets for completing said circuit.

2,315,742
WOODEN AGING BARREL
Frank M. Shipman, Louisville, Ky.
Application November 18, 1939, Serial No. 305,065
2 Claims. (Cl. 217—80)



1. An improvement in the process of manufacturing wooden whiskey aging barrels having an inner joint surface where a head is jointed into the cylinder comprising: applying a normally solid sealer having a low melting point to the inner-joint surface of the heads before they are jointed into the cylinder; and, after the heads are jointed into the cylinder, subjecting the sealer to heated fluid under pressure, the heat being of an order sufficient to melt the sealer and the pressure being of an order sufficient to force the melted sealer into said inner-joint surface.

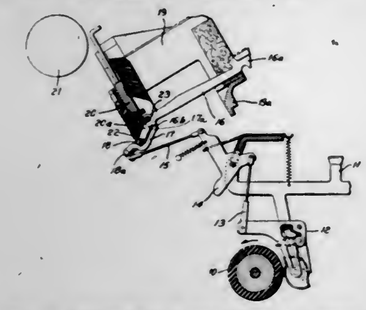
2,315,743
PATH-MAKING DEVICE
Herman F. Sieg, Pittsburgh, Pa.
Application May 8, 1942, Serial No. 442,148
5 Claims. (Cl. 37—53)



1. A device of the character described which

comprises a shovel-like blade, a tubular member disposed on the forward edge of such blade, a deflector removably associated with such blade and having a pair of angularly disposed wings, the lower portions of which are securable to and detachable from said blade and the upper portion of each of which is in the form of a curved overhanging member diminishing in width in a rearward direction.

2,315,744
TYPEWRITING MACHINE
James F. Smathers, Rochester, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application October 13, 1941, Serial No. 414,733
11 Claims. (Cl. 197—31)



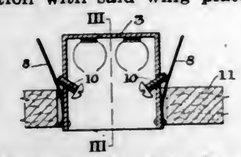
6. In a typewriting machine, a type bar, a segment having two concentric similarly curved pivot wires one acting as a pivot for said type bar and the other as a fixed toggle pivot, and a rebound locking toggle having one arm pivoted to the type bar and the other to the fixed toggle pivot wire, the floating pivot for said toggle being located in a straight line through the fixed toggle pivot and the pivot to the type bar outside of both pivots.

2,315,745
PREPARATION OF LOWER ALKYL ETHERS OF METHYLOLUREA
Ben Edmund Sorenson, Upper Darby, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 23, 1940, Serial No. 347,039
7 Claims. (Cl. 260—553)

1. Process which comprises reacting a dimethylolurea and an aliphatic saturated unsubstituted monohydric alcohol or not more than four carbon atoms at a pH of at least 9 until an ether of a methylolurea is formed and terminating the reaction prior to resinification by removal of the ether from the alkaline menstrum.

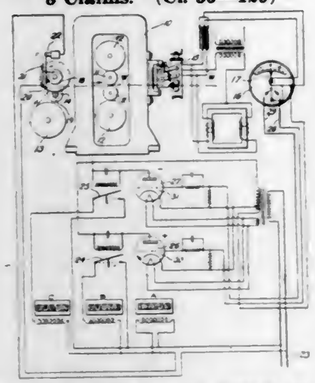
2,315,746
ELECTRICAL CONNECTION BOX
Burns E. Stewart, Columbus, Ohio, assignor of one-half to John Flesch, Columbus, Ohio
Application October 2, 1940, Serial No. 359,367
4 Claims. (Cl. 220—3.6)

1. An electrical connection box comprising a metallic box-like body having side and end walls, lug means disposed at the forward edges of said end walls and projecting away from said body, relatively flexible flat wing plates disposed in parallel relation with and rigidly connected to said side walls adjacent to the forward portions, said plates projecting toward the rear of said body, and adjustable means carried by said body in registration with said wing plates, operation



of said adjustable means serving to flex said plates to swing the free edges thereof toward and away from said body.

2,315,747
TOTALIZER FOR ROLLING MILLS
Spencer B. Terry, West Hartford, and Raymond S. Fox, Canton, Conn., assignors to Niles-Bement-Pond Company, West Hartford, Conn., a corporation of New Jersey
Application July 17, 1940, Serial No. 345,918
8 Claims. (Cl. 33—129)



1. In a strip rolling mill, means to gage the thickness of the material as it is being rolled, a magnetic counter, a circuit for actuating said counter, and means operated by said mill and controlled by said gage to periodically energize said circuit only when said gage is indicating beyond a predetermined range of thicknesses, whereby the total length of material rolled beyond said predetermined range may be determined.

2,315,748
METHOD OF AND APPARATUS FOR TAKING IMPRESSIONS OF CAVITIES FOR DENTAL INLAYS
Morris J. Thompson, Los Angeles, Calif.
Application November 21, 1939, Serial No. 305,488
4 Claims. (Cl. 32—17)



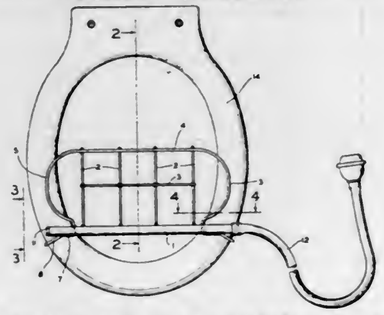
1. A method of taking an impression of a tooth cavity including the steps of injecting in the said cavity a first portion of hydrocolloid heated to fluidity, and then forcing a second portion of hydrocolloid in a tray over the tooth to position the second portion of hydrocolloid in contact with the said fluid hydrocolloid, the second portion of hydrocolloid being at a lower temperature than the portion injected into the tooth cavity, forcing the second portion of hydrocolloid against the first portion of the hydrocolloid and against the tooth surfaces to cause the first portion of hydrocolloid to be forced into all crevices and against all cavity surfaces, cooling the said hydrocolloid portions, and then removing together the bonded hydrocolloid portions with the said tray.

2,315,749
FILE
Harry Tubbs, Owego, N. Y.
Application August 6, 1942, Serial No. 453,880
4 Claims. (Cl. 51—204)



3. A file comprising an abrasive sheet having a notch therein for rotatably receiving an article to be filed, plates mounted on opposite sides of the sheet and having notches therein aligned with the first-named notch, the second-named notches being larger than the first-named notch for exposing the walls of said first-named notch.

2,315,750
WASHING DEVICE
George P. Wakefield, Vermilion, Ohio
Application January 6, 1942, Serial No. 425,765
4 Claims. (Cl. 68—205)



2. A washing device adapted for use with a toilet bowl comprising, a tube having openings for spraying water therethrough and downwardly into the bowl, and a receptacle consisting of a plurality of U-shaped wires secured at one end to said tube, and secured at the other end to a wire the ends of which are secured to said tube, said last-named wire being bent to provide overhanging ledge portions at the ends of said receptacle, said ledge portions adapted for resting on the sides of the upper edge of said bowl with the major portion of said receptacle disposed within said bowl below the level of the upper edge of the bowl.

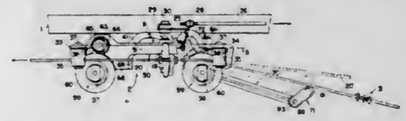
2,315,751
CANDLE ORNAMENTING METHOD
Ralph C. Webber, Whiting, Ind., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application August 15, 1941, Serial No. 406,935
7 Claims. (Cl. 67—22.5)

2. The method of preparing a decorative candle comprising maintaining a body of wax at a temperature at which said wax is in a state of incipient solidification, agitating said body of wax to produce therein small lumps of solidified



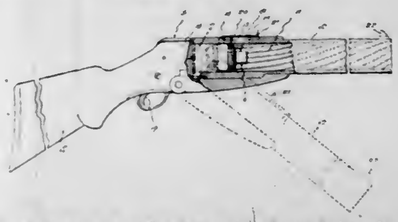
wax, dipping a candle into said agitated body of wax, withdrawing said candle from said body of wax and cooling said candle, whereby said candle acquires an irregular knobby surface.

2,315,752
PLANTER
Charles H. White, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application October 31, 1940, Serial No. 363,597
16 Claims. (Cl. 111—47)



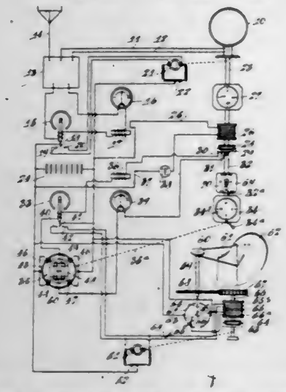
1. In an agricultural implement, a releasable check-head, a check wire cooperating with said check-head, and means responsive to a change in the angular position of the wire relative to the check-head for releasing the latter.

2,315,753
GRENADE GUN
Stewart D. Long, Laurel, Md.
Application February 19, 1942, Serial No. 431,578
2 Claims. (Cl. 42—1)



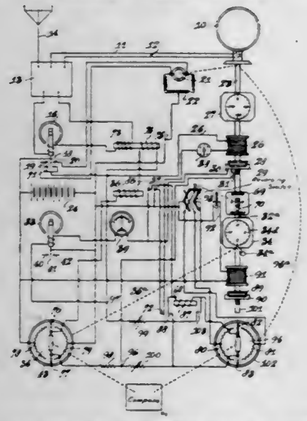
1. In a gun, a rifled barrel, a breech block movably connected to the barrel to permit movement of the barrel relative thereto for the loading of the barrel with a grenade having a safety release for the control of the timed firing mechanism thereof, a shoulder stock on the breech block, said barrel having a hand opening in a wall thereof for the manual removal of the safety release, and means for opening and closing the hand opening.

2,315,754
RADIO NAVIGATOR
Louis Allen Warner, Baltimore, Md.
Application June 19, 1939, Serial No. 279,986
14 Claims. (Cl. 172—282)



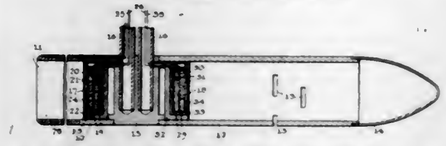
1. A radio navigational control, comprising a rotatable directional antenna system adapted to be carried by a vehicle, means for controlling the rotation of said antenna system for maintaining said system pointing in a predetermined direction with respect to a selected radio transmitting station, a crab angle indicator, and means for rotating said crab angle indicator in a direction opposite that of the antenna rotation and through an angle substantially greater than the angle through which the antenna is rotated, for indicating the crab angle of said vehicle, when using a radio transmitting station astern of the craft for navigational reference.

2,315,755
RADIO NAVIGATOR
Louis Allen Warner, Baltimore, Md.
Application May 27, 1940, Serial No. 337,557
33 Claims. (Cl. 172—282)



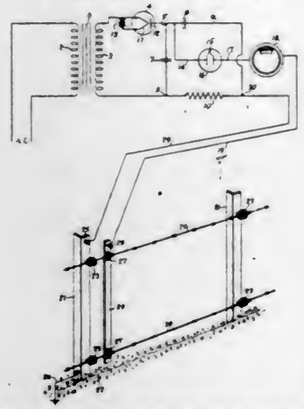
1. In combination, compass control means for navigating, and maintaining selected steering courses against yawing effects, radio responsive means for indicating and correcting a drift action, including means for selecting the proper "Crab Angle" course, electrical means connected to said compass and said radio responsive means for correcting deviation from a predetermined radio station radial, by navigating a course in excess of the said "Crab Angle" course, said last means including means for maintaining the said course, in excess of the "crab angle" course, against yawing effects, and simultaneously preventing the first said means from orienting the craft onto the selected "crab angle" course, until the amount of the drift has been reduced to zero.

2,315,756
AIR SPEED AND SIMILAR INDICATOR
Louis Allen Warner, Baltimore, Md.
Application August 12, 1941, Serial No. 406,569
13 Claims. (Cl. 73—212)



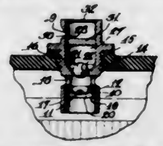
1. A Pitot-static tube unit, comprising: a pair of hollow elements, one of said hollow elements being open for receiving the impact of air, and the other of said hollow elements having openings adapted to permit atmospheric pressure to exist therein, piezo electric crystal elements in each of said hollow elements respectively, pressure responsive means in each of said hollow elements connected to said crystal elements respectively for transmitting pressure thereto, and an electrical circuit for said piezo electric crystal elements connected for indicating the difference in air pressures on said piezo electric crystal elements.

2,315,757
ELECTRICAL FENCE CHARGING APPARATUS
Floyd E. Wenger, Bluffton, Ohio, assignor to Ray L. Triplett, Bluffton, Ohio
Application September 20, 1939, Serial No. 295,799
6 Claims. (Cl. 256—10)



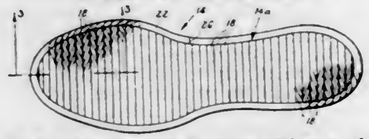
1. An electric fence protective system comprising a transformer having primary and secondary windings, said primary winding being adapted to be connected to a source of alternating current, a circuit including a rectifier solely of the single wave type connected across said secondary winding, a condenser in series with said rectifier, and means for controlling the rate of charging said condenser by the unidirectional current output of said rectifier, a cumulative ionization device and an electric fence connected in series across said condenser, said ionization device being connected directly in series with the fence load except for a current-measuring device.

2,315,758
DIAPHRAGM AND SUPPORT
Leland Ross Willits, Atlantic City, N. J., assignor, by mesne assignments, to Edw. K. Tryon Company, a corporation
Application August 12, 1939, Serial No. 289,938
1 Claim. (Cl. 137—153)



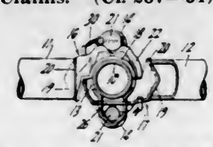
A diaphragm membrane of vulcanized latex rubber substantially free from reclaimed rubber and filler or other adulterant, a thickened rubber center nub carried by the diaphragm and of the same composition as the diaphragm, a ring support for the diaphragm integral with the diaphragm holding the edges of the diaphragm, a valve seat in proximity to the diaphragm and a gravity valve for the seat operated by the nub of the diaphragm.

2,315,759
SHOE AND OUTSOLE THEREFOR
Charles L. Wilpan, New York, N. Y., assignor to Rope Soles, Inc., Paterson, N. J., a corporation of Delaware
Application April 1, 1942, Serial No. 437,234
11 Claims. (Cl. 36—25)



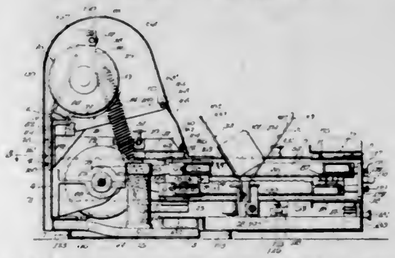
1. In a shoe, an outsole comprising a plurality of individual cut strips of braided rope disposed in adjacent side by side relation and extending from one edge to the opposite edge of the outsole, the opposite ends of said strips terminating near the opposite edges, respectively, of the outsole and said strips varying in length whereby the ends thereof conform to the peripheral contour of the outsole, the opposite side edges of said strips abutting the adjacent side edges, respectively, of adjacent strips for the full lengths of said strips, and means securing said strips in said relation in the outsole.

2,315,760
CONNECTING MEANS
Edward A. Zebulske, North Tonawanda, N. Y., assignor to Hyla F. Maynes and Emma C. Maynes, both of North Tonawanda, N. Y.
Application December 17, 1942, Serial No. 469,376
8 Claims. (Cl. 287—54)



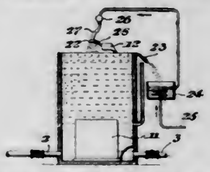
1. Means for connecting elongate structural elements in angular relation, said means comprising a member rigidly connected with an end of one of the members and having a saddle portion, and a loop projecting laterally from the other of said members, said saddle member having an opening for receiving said loop to dispose said saddle member laterally against said other member, a tapered locking pin, said saddle member having hollow spaced pairs of protuberances at opposite sides of said opening for resiliently seating said tapered pin with its intermediate portion in wedging locking engagement in said loop.

2,315,761
BREAD SLICER
Arthur H. Ahrndt, La Porte, Ind., assignor to U. S. Slicing Machine Company, La Porte, Ind., a corporation of Indiana
Application March 18, 1940, Serial No. 324,484
In Great Britain April 19, 1939
27 Claims. (Cl. 146—147)



1. A slicing machine comprising a frame, a raisable knife suporting frame adapted to descend by gravity and pivotally mounted on the first named frame, supporting means including a pivotally mounted suporting member for holding the knife supporting frame in raised position, a pair of knife frames in the knife supporting frame, a motor for reciprocating said knife frames, and means including a common manually controlled member for causing operation of the motor and conjointly moving the supporting member about its pivot to release the knife supporting means and allow gravitational descent of the knife supporting frame.

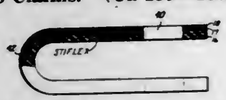
2,315,762
METHOD OF AND APPARATUS FOR SEPARATING CRYSTALS FROM SOLUTIONS
Georg Bernhard Ax and Kurt Helmut Grunewald, Finspong, Oscar Anton Wiberg, Borggard, and Erik Öman, Stocksund, Sweden; said Ax, said Grunewald, and said Wiberg assignors to said Öman
Application January 31, 1942, Serial No. 429,126
In Sweden January 9, 1941
11 Claims. (Cl. 62—124)



1. A method of concentrating solutions, comprising the steps of freezing out part of the solvent to form crystals, floating said crystals upwardly in a vessel containing solution to a point of discharge from said vessel, washing the crystals while at said point of discharge and remov-

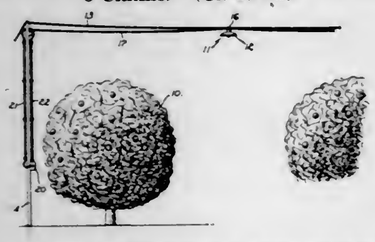
ing the crystals from said point of discharge, and withdrawing solution freed of said crystals from said vessel.

2,315,763
LUG STRAP
Henry M. Bacon, Dayton, Ohio, assignor to The Dayton Rubber Manufacturing Company, Dayton, Ohio, a corporation of Ohio
Application October 28, 1940, Serial No. 363,121
5 Claims. (Cl. 139—153)



1. As an article of manufacture a lug strap comprising an outer layer of parallel strength-giving cords and an inner cushion layer bonded and united together to form an integral U-shaped lug strap, said inner cushion layer being substantially thicker than said outer layer, said cushion layer and strength-giving layers forming, respectively, the inner and outer outline of a U-shaped body comprising the lug strap.

2,315,764
METHOD OF INCREASING THE RESISTANCE OF PLANT LIFE TO FROST DAMAGE
Quinter E. Bashore, Covina, Calif.
Application February 23, 1940, Serial No. 320,308
5 Claims. (Cl. 47—2)



2. A method of preventing frost damage to a plurality of plants in a planted plot that comprises emitting infra-red rays from a plurality of points distributed over said plot to irradiate the major peripheral areas of the various plants on the plot, a major portion of said rays being of wave lengths below 16,000 A.

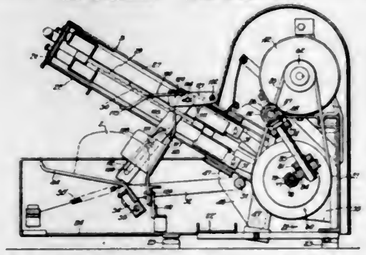
2,315,765
PROCESS FOR THE MANUFACTURE OF QUATERNARY ACYLCYANOGUANIDINES
Jakob Bindler, Basel, Switzerland, assignor to the firm of J. R. Geigy A. G., Basel, Switzerland
No Drawing. Application March 25, 1941, Serial No. 385,207. In Switzerland May 8, 1940
6 Claims. (Cl. 260—401)

6. A process for the manufacture of a water soluble quaternary acylcyanoguanidine, comprising perethylating lauroylcyanoguanidine with diethyl sulfate.

2,315,766
SOLUTIZER PROCESS FOR THE REMOVAL OF MERCAPTANS
Lawson E. Border, Wood River, Ill., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application May 26, 1941, Serial No. 395,233
7 Claims. (Cl. 196—30)

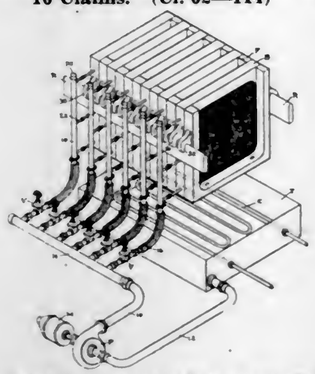
1. In a process of refining sour hydrocarbon distillates containing mercaptans and stronger acids by extraction with an aqueous alkaline solution containing a solutizer for mercaptans, in which process mercaptans are absorbed into the aqueous solution, thereby resulting in a spent solution which is regenerated by steam stripping, the improvement comprising treating said hydrocarbon distillate with an aqueous solution of caustic alkali free from solutizers, to produce a treated distillate and an alkaline aqueous layer containing absorbed acids stronger than mercaptans, separating said aqueous layer from said treated distillate, said separated distillate containing a small amount of residual alkaline water-soluble impurities, separately removing said residual impurities from the separated distillate, and thereafter further treating the latter with said aqueous alkali solution containing solutizer.

2,315,767
BREAD SLICING MACHINE
Morris Brustowsky, Brooklyn, N. Y., assignor to U. S. Slicing Machine Company, La Porte, Ind., a corporation of Indiana
Application September 19, 1940, Serial No. 357,380
28 Claims. (Cl. 146—147)



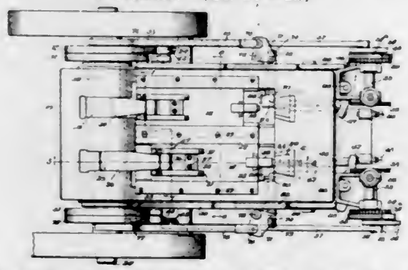
1. In a bread slicing machine, a loaf supporting tray, a knife frame, a plurality of knives carried by the knife frame, a motor, drive means operated by the motor, means operated by said drive means for operating the knives of the knife frame to effect a loaf slicing operation, means operated by the drive means for elevating the knife frame relatively to the loaf tray to permit the placement of an unsliced loaf thereon, and means including a double acting clutch means for rendering said drive means ineffective to operate said knives during elevation of said knife frame and for rendering the drive means ineffective to elevate the frame during operation of the knives.

2,315,768
REFRIGERATING APPARATUS
Algernon R. Burnette, New York, N. Y., assignor to John Edward Fox, New York, N. Y.
Application July 15, 1941, Serial No. 402,445
16 Claims. (Cl. 62—114)



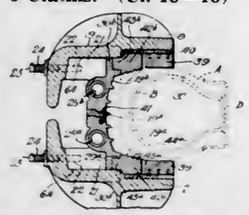
1. Refrigerating apparatus comprising, in combination, support means; a series of freezing plates mounted on said support means in spaced relation to each other and adapted to direct refrigerant onto food products to be frozen; and interchangeable spacing means each interposed between a pair of said freezing plates, said spacing means being adapted to contain food products to be frozen and to receive refrigerant from said freezing plates.

2,315,769
BOLT AND RIVET MAKING MACHINE
William J. Carney, Chicago, Ill.
Application September 21, 1942, Serial No. 459,071
9 Claims. (Cl. 10—12)



8. A heading machine of the character described, embodying a work-shaping die, a movable work abutment operating in the die, a reciprocable slide co-operating with said abutment to shape the work, means for varying at will the extent of movement of the said abutment under the stress of the work thereagainst, whereby the size of the finished product may be varied while the extent of reciprocating movement of said slide remains constant, means for severing the work from the stock, means co-operating with the last said means to position the severed portion of the stock to be operated upon and intermediate the said die and slide, a portion of the abutment movement controlling means being also operable to eject the finished work from the die, and means common to the slide, the said stock severing means, and the said abutment controlling means when the latter serves to eject the work, for actuating them.

2,315,770
RECAPPING AND RETREADING MOLD
Arch B. Cleveland, Los Angeles, Calif.
Application April 2, 1937, Serial No. 134,493
6 Claims. (Cl. 18—18)

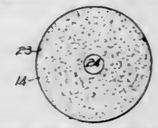


5. In a vulcanizing machine for selectively retreading or recapping tires, a recapping matrix adapted to extend across and engage only the tread portion of the tire lying between the shoulders of the tire to cure a recapped portion only of the tire, means associated with said recapping matrix for supplying heat thereto, a pair of shoulder strip matrices removably associated with said recapping matrix to form therewith a substantially continuous matrix extending across the tread portion and over the shoulder strip portions of the tire to cure a retreaded tire, said shoulder strip matrices forming metallic contact with said recapping matrix whereby said shoulder strip matrices are heated solely by conduction of heat from said recapping matrix, said recapping matrix being constructed and arranged to operate as a complete matrix for a recapping operation.

2,315,771
TREATMENT OF RESIN OILS OF THE COUMARONE-INDENE-STYRENE HOMOLOGUE TYPE
Edwin Louis Cline, Philadelphia, Pa., assignor, by mesne assignments, to Allied Chemical & Dye Corporation, a corporation of New York
No Drawing. Application November 20, 1939, Serial No. 305,336
8 Claims. (Cl. 260—669)

1. A process for removal of color-forming impurities from a crude resin oil in which the polymerizable constituents consist predominantly of material selected from the group consisting of coumarone, indene and homologues of styrene, said process comprising fractionally distilling the oil to separate low-boiling color-forming bodies as distillate while leaving the bulk of the oil including substantially all the above-named polymerizable constituents in the still, and thereafter subjecting this residual oil to low vapor pressure fractional distillation to separate as distillate a refined resin oil comprising substantially all the material that would distill over at temperatures up to about 205° C. at atmospheric pressure, and to separate as still residue high-boiling color-forming bodies which tend to decompose within the boiling range of the said polymerizable constituents at atmospheric pressure, said residual oil being maintained below about 190° C. during the second distillation.

2,315,772
MEANS FOR EXTERMINATING INSECTS
Carl H. Closs, Denver, Colo.
Application May 23, 1941, Serial No. 394,808
5 Claims. (Cl. 43—131)

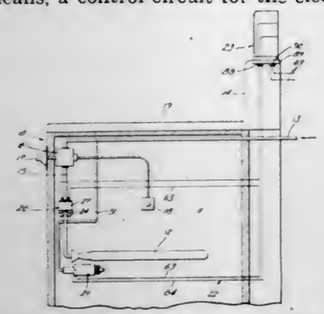


1. An insect exterminator of the character described, comprising a body portion of sheet-like form having a nap surface on one face of the sheet, a quantity of dry, powdered poison distributed throughout the nap surface in adhering relation thereto, and an insect lure on the nap surface spaced inwardly a substantial distance from the marginal edge of said surface.

2,315,773
BURNER CONTROL SYSTEM
William M. Couzens, South Gate, Calif., assignor to Gaffers and Sattler, Los Angeles, Calif., a co-partnership consisting of John H. Sattler, William C. Gaffers, George A. Sattler, Gustav A. Ritter, Emma O. Sattler, Caroline S. Gaffers, Marie A. Sattler, Olive O. Ritter, and Clarence E. Gaffers
Application January 17, 1940, Serial No. 314,273
7 Claims. (Cl. 161—9)

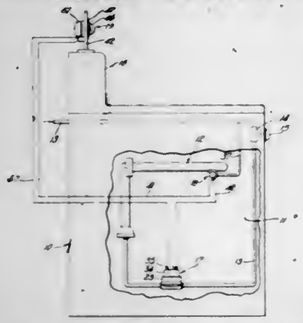
1. In a cooking range having a main fluid fuel burner and a pilot burner each provided with a

fuel supply line, the combination of valve means controlling the supply line of the main burner, electrically actuated means for controlling the valve means, a control circuit for the electrically



actuated means, a clock controlled switch in said circuit, and thermo-electric means energized by the flame of the pilot burner supplying current to said circuit.

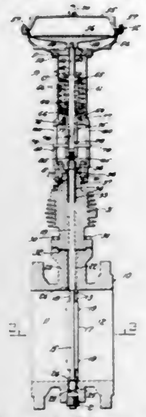
2,315,774
BURNER CONTROL SYSTEM
William M. Couzens, South Gate, Calif., assignor to Gaffers and Sattler, Los Angeles, Calif., a copartnership composed of John H. Sattler, William C. Gaffers, George A. Sattler, Gustav A. Ritter, Emma O. Sattler, Caroline S. Gaffers, Marie A. Sattler, Olive O. Ritter, and Clarence E. Gaffers
Application February 19, 1940, Serial No. 319,720
3 Claims. (Cl. 161—9)



1. A control system for a burner having a supply line and a pilot burner, the system comprising an electrically operated valve in the supply line, an electrical operating circuit for the valve, a thermo-electric generator energized by the flame of the pilot burner supplying current to said circuit, switch means in said circuit, and a manually energized timer manually operable to close the switch means and hold the switch means closed for a given period.

2,315,775
CONTROL VALVE
Alfred C. D'Arcey, Milton, Mass., assignor to Mason-Neilan Regulator Co., Boston, Mass., a voluntary trust of Massachusetts
Application May 12, 1941, Serial No. 393,032
15 Claims. (Cl. 137—139)

1. In a valve for governing the flow of fluids having a body defining a passage including a port, a power device having a non-rotatable reciprocatory element movable in response to variations in magnitude of a power medium, a rotatable valve member cooperating with said port, a rotatable driven member in operative connection with said valve member, a rotatable non-reciprocatory motion translating member in operative connection both with said reciprocatory

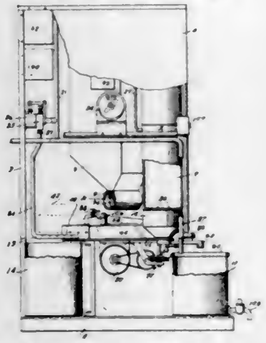


element and with said driven member for converting linear movement of the former to rotary movement of the latter, and means providing for axial expansion of at least one of said rotatable members while maintaining the rotary position established by the power device.

2,315,776
FORMALDEHYDE-UREA ADHESIVE
William C. Dearing and Kenneth D. Meiser, Toledo, Ohio
No Drawing. Application May 14, 1940, Serial No. 335,116
7 Claims. (Cl. 260—9)

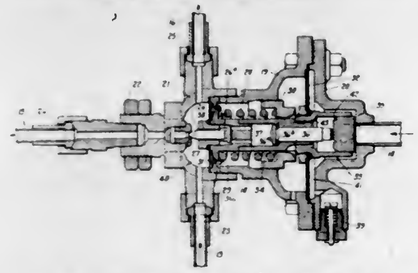
1. An adhesive that, when applied and hardened, produces a bond of superior resistance to dry atmospheric conditions, comprising a substantially stable suspension of up to about one part of cellulosic particles, substantially all of which are less than about .02 millimeter in diameter, in an aqueous solution containing three parts of a formaldehyde-urea reaction product.

2,315,777
AUTOMATIC BEVERAGE BREWER
George A. Denton, Flagstaff, Ariz.
Application April 12, 1940, Serial No. 329,334
4 Claims. (Cl. 53—3)



1. A beverage brewer comprising, in combination, a bin to contain material to be brewed, having automatic measuring mechanism at the bottom thereof, a water boiler having means for heating water to a predetermined temperature, a water measurer positioned beneath said water boiler, a plurality of beverage receiving urns, a grounds receiver, a beverage brewer adapted to move from the brewing position beneath said water measurer to a position for the removal of grounds into said grounds receiver, thence to a position to receive a measured quantity of material to be brewed from said bin and thence back to said brewing position to complete a cycle of operation, together with mechanism for introducing a measured quantity of water into said water measurer, for moving said brewer throughout said cycle of operations, and for directing the brewed beverage alternately to any of said beverage receiving urns.

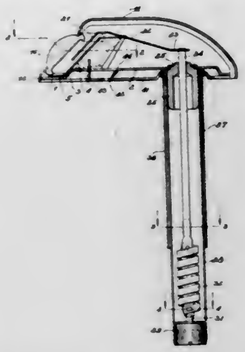
2,315,778
LUBRICATING SYSTEM
Bengt E. Folke, Mamaroneck, N. Y., assignor to Nathan Manufacturing Company, New York, N. Y., a corporation of New York
Application July 31, 1941, Serial No. 404,757
13 Claims. (Cl. 184—7)



1. In a lubricating system, an oil control valve having a chamber with an inlet for oil under pressure, an outlet, and a by-pass, and a fluid pressure connection, a pressure control valve in communication with said outlet, a stop valve within said chamber normally restricting and adapted to close said by-pass, means in said oil control valve for closing said stop valve, and other means for increasing the pressure in said oil control valve to discharge oil from said chamber through its outlet against said pressure control valve for lubricating purposes, both means being actuated by fluid pressure through said connection.

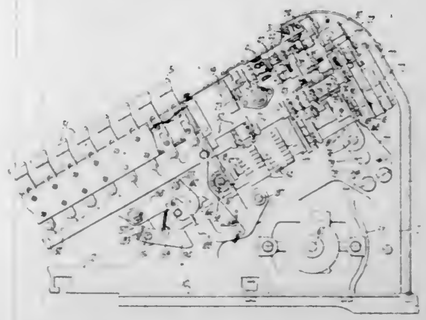
2,315,779
THERMOMETER
George E. Ford, Rochester, N. Y., assignor to Rochester Manufacturing Co., Inc., Rochester, N. Y., a corporation of New York
Application May 15, 1941, Serial No. 393,612
4 Claims. (Cl. 73—367)

4. In a thermometer, the combination with a supporting plate including a marginal portion, an upset central portion and an inclined connecting portion therebetween affording a shoulder, of an elongated curved separate dial plate extending away from the supporting plate with its innermost portion resting against said shoulder, said dial plate including an angular attaching flange coextensive endwise with the dial plate and located parallel to and secured to said marginal portion of the supporting plate, the dial plate being inclined toward the rear of the supporting plate and said attaching flange extending toward the front of the supporting plate and secured between the inclined connecting portion and the front edge of the supporting plate, an indicator shaft journalled in the supporting plate and extending transversely thereof, an indicator carried by said shaft and having a pointer located parallel to and movable over said dial plate, a temperature responsive element connected to the indicator shaft, a cover attached to the support-



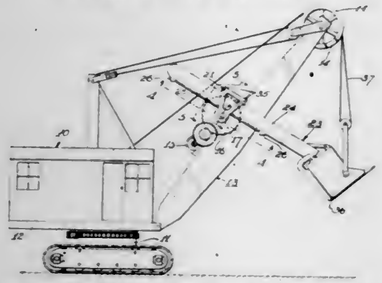
ing plate and having a window opposite said dial plate, and a transparent member located in said window and having terminal portions overlying the inner surface of the cover at points adjacent to the ends of the window, said terminal portions being provided with inwardly extending projections engaging said dial plate which acts yieldably to hold the transparent member in place.

2,315,780
CALCULATING MACHINE
Carl M. Friden, Pleasanton, Calif., assignor to Friden Calculating Machine Co., Inc., a corporation of California
Application May 10, 1940, Serial No. 334,266
8 Claims. (Cl. 235—63)



1. In a calculating machine having a shiftable carriage, a register in said carriage, mechanism for shifting said carriage to a pre-determined position thereof and effecting clearing of said register including a manually operable key, mechanism for shifting said carriage for one or more ordinal positions including a manually operable key, and means responsive to simultaneous depression of both said keys for effecting operation of said last-named mechanism under control of a portion of said first-named mechanism to shift to a second pre-determined position without clearing of said register.

2,315,781
RACK AND PINION FOR EXCAVATING SHOVEL HANDLES
Theron G. Gerow, Chicago, Ill., assignor to Kensington Steel Company, Chicago, Ill., a corporation of Illinois
Application November 2, 1942, Serial No. 464,256
2 Claims. (Cl. 214—135)



1. In an excavating shovel construction a pivotally movable boom, a pillow block attached to said boom, a shaft rotatably mounted on said pillow block, a pair of spaced gears mounted on said shaft, a pair of spaced driving pinions, said driving pinions attached to the outer surfaces of said gears and rotatable therewith, a pair of spaced saddle blocks pivotally attached to opposite ends of said shafts, each of said saddle blocks having a loop portion, a bifurcated dipper handle straddling said boom and having spaced portions, said spaced portions of said dipper handle extending through said loop portions of said spaced saddle blocks, a bucket pivotally attached to the lower end of said dipper handle, said spaced driving pinions each having outer and inner shrouds and a plurality of circumferentially spaced curved involute teeth therebetween, said teeth formed with their upper portions extending above and their lower portions extending below the pitch diameter of the shrouds, a rack attached to the under side of each of said spaced portions of said dipper handle, each of said racks having an inner and an outer shroud and a plurality of spaced curved involute teeth therebetween, said teeth formed with their upper portions extending above, and their lower portions extending below the top level of said shrouds, said shrouds of said pinions positioned to ride on said shrouds of said racks, and said curved involute teeth of said pinions positioned to mesh with said curved involute teeth of said racks and adapted by their curved, involute form extending above and below said shrouds to provide full surface contact between said pinions and said racks regardless of side sway of said bucket and said dipper handle, and rollers rotatably attached to the tops of said loop portions of said saddle blocks, said rollers adapted to roll on the top surfaces of said spaced portions of said dipper handle for retaining the teeth of the racks in mesh with the teeth of the pinions.

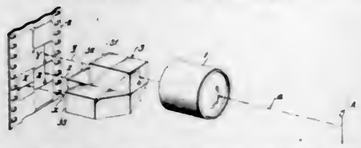
2,315,782
WOVEN CARTRIDGE BELT
Edwin J. Gibbons, East Providence, R. I., assignor to Thomas French & Sons, Ltd., New York, N. Y., a corporation of New York
Application December 6, 1940, Serial No. 368,802
4 Claims. (Cl. 139—389)

1. A woven cartridge belt comprising two oppositely faced bands of woven warp and weft, in which the warp threads are arranged in pairs and interlace in pairs throughout the length of the fabric, and in which the interlacing is in plain weave order, approximately one-half of the number of alternate pairs of warp threads in one oppositely faced band interchanging on a



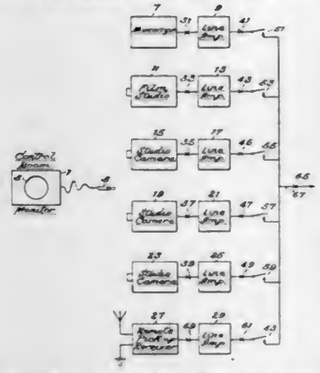
single pick with an equal number of alternate pairs of warp threads of the other band, successive interchanges completing a standard cartridge pocket, for the purpose of carrying a plurality of aligned cartridges.

2,315,783
COLOR PHOTOGRAPHY
Otto C. Gilmore, Van Nuys, Calif., assignor to Cosmocolor Corporation, Los Angeles, Calif., a corporation of Delaware
Application December 12, 1940, Serial No. 369,891
5 Claims. (Cl. 88—16.4)



1. A motion picture film having recorded thereon a plurality of consecutive groups of images each group comprising three separate oblong color component images; two of said images being of substantially equal size and being arranged one above the other and the third image being arranged beside the other two, turned on its side with respect to them and larger than either of the other two to an extent such that its long dimension approximates the sum of the short dimensions of the small images and the three images cumulatively occupy an area substantially commensurate to the area of a normal motion picture frame; the ratio of short side to long side being equal in all of said images.

2,315,784
ELECTRICAL CIRCUIT
Elmer Dudley Goodale, Bayside, Long Island, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application November 25, 1941, Serial No. 420,376
6 Claims. (Cl. 178—6)



1. A transfer network having substantially zero attenuation and a substantially linear phase

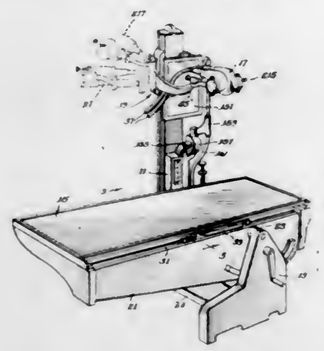
characteristic up to a predetermined maximum frequency comprising a series arm composed of a condenser connected in parallel with two serially connected inductances, said inductances being coupled to produce negative mutual inductance, and a shunt arm comprising a condenser connected to the common junction point of said inductance.

2,315,785
SAFETY SHAVING DEVICE
William H. Greenleaf, Chicago, Ill.
Application June 26, 1939, Serial No. 281,143
5 Claims. (Cl. 30—32)



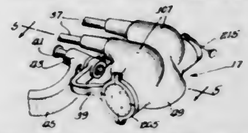
1. A shaving head for a safety shaving device comprising in combination a head member of sheet metal pressed into form providing inwardly opening channels along opposite edges with a central opening therebetween, and two blades gripped tightly in said channels so as to be held firmly by said head member with their cutting edges oppositely disposed at a short distance from each other and with the blades in fixed angular relation to each other at such an angle as to cause each blade in turn at every shaving stroke of the other blade to serve effectively as a guard for preventing the user from cutting himself.

2,315,786
TUBE CASING AND SUPPORT
Julius J. Grobe, Oak Park, Ill., assignor to General Electric X-Ray Corporation, Chicago, Ill., a corporation of New York
Application May 20, 1939, Serial No. 274,778
14 Claims. (Cl. 250—57)



1. A mounting for an X-ray tube comprising an elongated support member, and mounting means for carrying said tube on and in spaced relationship with respect to said support member for movement longitudinally of the support member and for swinging movement with respect to said support member whereby the tube may be positioned at will on one side of the support member within the area of a normal projection of said table and outwardly of said area on another side of said support member.

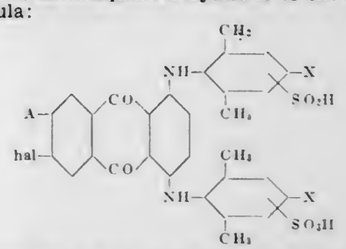
2,315,787
TUBE CASING AND SUPPORT
Julius J. Grobe, Oak Park, Ill., assignor to General Electric X-Ray Corporation, Chicago, Ill., a corporation of New York
Original application May 20, 1939, Serial No. 274,778. Divided and this application July 15, 1940, Serial No. 345,534
15 Claims. (Cl. 250—90)



1. A mounting for an X-ray tube comprising a casing having an elongated cavity for receiving an X-ray tube, said casing having lateral openings, and means forming elongated chambers communicating laterally thereof with said cavity through said openings, said chambers having axes lying in a plane substantially parallel to and spaced from the longitudinal axes of said cavity.

2,315,788
ARYLAMINO ANTHRAQUINONE DYESTUFFS AND A PROCESS FOR THEIR MANUFACTURE
Ernst Gutzwiller, Basel, Switzerland, assignor to the firm of Sandoz Ltd., Fribourg, Switzerland
No Drawing. Application December 20, 1940, Serial No. 371,049. In Switzerland December 20, 1939
4 Claims. (Cl. 260—374)

1. The anthraquinone dyestuffs of the general formula:

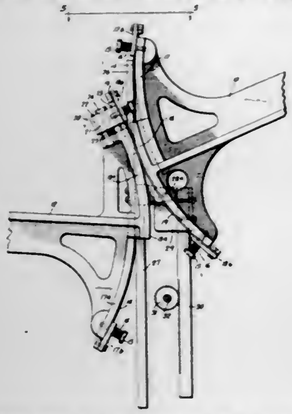


wherein hal stands for a member of the group consisting of chlorine and bromine, A stands for a member of the group consisting of hydrogen, chlorine and bromine and X stands for a member of the group consisting of hydrogen and methyl, said dyestuffs being valuable compounds for dyeing wool and silk in fast blue shades.

2,315,789
AUTOMATIC DIAL SCALE
Harlan A. Hadley, River Edge, N. J., assignor to Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois
Application December 29, 1939, Serial No. 311,454
4 Claims. (Cl. 265—62)

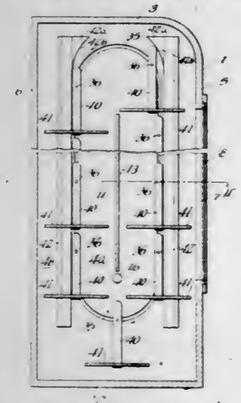
1. In a weighing scale, a pair of load counterbalancing pendulums having sector arms extending therefrom, one toward the other, each of said sector arms having two distinct arcuate portions of unequal radius of curvature, a flexible tape extending a substantial distance over, and being connected at its ends to the arcuate portions of lesser radius, a second flexible tape extending diagonally of said first tape and interconnecting the arcuate portions of said arms which have the greater radius, said tapes being adapted to pre-

vent movement of one of the pendulums independently of the other, and rotary weight indi-



cating means operatively connected to one of said tapes.

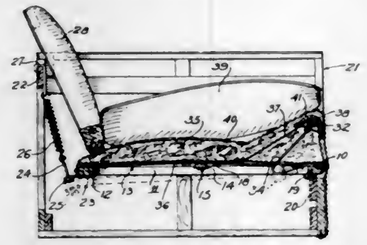
2,315,790
MERCHANDISE EXHIBITING MEANS
Nathan A. Hallwood, Columbus, Ohio
Application March 28, 1940, Serial No. 326,451
11 Claims. (Cl. 312—182)



10. In a cabinet, longitudinally spaced, vertically arranged endless chains mounted in said cabinet, drive and guide sprockets journaled in said cabinet and around which said chains are trained, said sprockets being positioned to provide ascending and descending linear paths of movement for said chains, a plurality of spaced brackets having laterally projecting arms carried by said chains, each of said brackets having a fixed pivotal connection with a chain and a slotted pivotal connection therewith, the arms projecting away from said chains, and a plurality of commodity-receiving shelves pivotally suspended from the arms on said brackets.

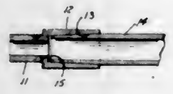
2,315,791
SPRING SEAT CONSTRUCTION
Hayden H. Hiatt and Otto L. Kramer, Los Angeles, Calif.
Application November 29, 1941, Serial No. 420,984
4 Claims. (Cl. 155—55)

1. In an article of furniture, a seat frame hinged at its forward portion therein and yieldingly swingable in a vertical direction on its said hinge, padding extending over the seat frame, and spring members at the sides of the



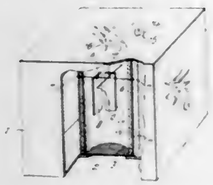
frame having upper angular spring rails in overlapping relation, forming a spring support for the forward portion of said padding, extending continuously above and along the hinged forward portion of the seat frame.

2,315,792
ADAPTER
Arthur B. Hoss, Milwaukee, Wis.
Application April 21, 1941, Serial No. 389,648
2 Claims. (Cl. 285—160)



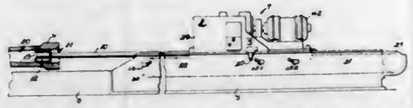
1. An adapter of the character described comprising a tubular member having cylindrical sleeves disposed on both ends, said sleeve portions having their inner surfaces tapered downward from the open end toward one another, said tapered inner surfaces provided with a plurality of inwardly extending serrations disposed longitudinally with said tapered inner surfaces.

2,315,793
MUSICAL EDUCATIONAL DEVICE
Benjamin F. Jay, New York, N. Y.
Application May 23, 1942, Serial No. 444,187
13 Claims. (Cl. 84—476)



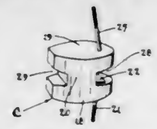
1. A musical educational device comprising a series of hollow substantially cubical blocks, indicia on at least one of the faces of each block including a letter from A to G inclusive and the picture of an animal the name of which has the corresponding initial letter, a musical note within each block corresponding to said letter, and a sheet of music the notes of which have said animal pictures associated therewith, whereby a child may learn to play tunes by picture reading.

2,315,794
METHOD OF AND APPARATUS FOR HONING
Albert M. Johnson, Rockford, Ill., assignor to Barnes Drill Co., Rockford, Ill., a corporation of Illinois
Application May 8, 1939, Serial No. 272,334
19 Claims. (Cl. 51—34)



15. A honing machine, in combination, an expansible and contractible honing tool, a support for said tool, a support for a work piece to be operated on by the tool, means for effecting relative rotation of the tool support and the work, means for reciprocating one of said supports to effect a relative traverse of the tool from one end of the work piece to the other, pressure fluid actuated tool expanding means, a source of pressure fluid for actuating said tool expanding means, pressure regulating means associated with said source, and control means for said regulating means operative in response to the movements of the reciprocating support to actuate said regulating means and thereby vary so as to increase the pressure of the fluid supplied to the tool expanding means when the reciprocating support is moving in one direction and to decrease the pressure of the fluid when the reciprocating support is moving in the opposite direction.

2,315,795
ARTIFICIAL LIMB
Conrad B. Johnson, Eau Claire, Wis., and Raymond B. Trautman, Minneapolis, Minn.
Application June 17, 1940, Serial No. 340,976
8 Claims. (Cl. 3—2)



1. In an artificial leg having a foot and a shank as members thereof, an ankle joint structure hingedly tying said foot to said shank and consisting of a block of elastic material formed with a base flange and a head flange, means for rigidly anchoring said base flange to said foot, and means for rigidly anchoring said head flange to said shank, said block rendering the connection between shank and foot elastic, whereby the one leg member may be moved by force hingedly relative to the other, but upon cessation of such force will resume its initial relationship with respect to such other member.

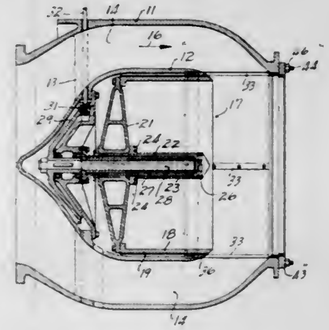
2,315,796
LOOM HARNESS
John Jacob Kaufmann, Elkins Park, Pa., assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Original application December 29, 1939, Serial No. 311,455. Divided and this application July 21, 1941, Serial No. 403,302
12 Claims. (Cl. 139—91)

5. In loom harness, a bail member made of a single piece of relatively stiff round wire and having a relatively wide horizontal portion and harness engaging portions extending therefrom, and a thin flat and wide steel connector having a hook portion detachably engaging the horizontal portion of the bail member over the greater portion



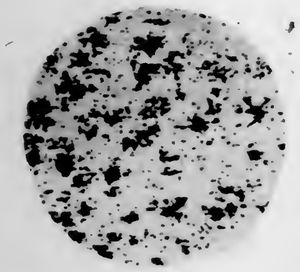
of its width, said hook portion having a vertically extending lip.

2,315,797
SEAL MEANS FOR TUBE VALVES
Phillip A. Kinzle, Denver, Colo.
Application June 10, 1941, Serial No. 397,382
2 Claims. (Cl. 251—78)



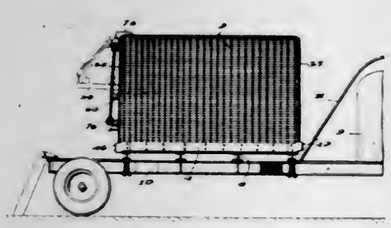
1. In a tube valve having inner and outer body portions forming between them a fluidway, a closure tube, and means for moving the closure tube to closed position, the combination of resilient gaskets secured to the closure tube adjacent the upstream and downstream ends thereof, a liner for the inner body portion surrounding the closure tube with which the upstream gasket cooperates when the valve is closed, a flared section on the upstream side of the liner for guiding the gaskets thereinto, a tapered portion on the downstream edge of the upstream gasket, a tapered portion on the downstream edge of the downstream gasket, a tapered seat against which the tapered edge of the downstream gasket fits when the valve is closed, and means to admit fluid under pressure from the fluidway to the tapered edges of the upstream and downstream gaskets for forcing them into sealing relation with the liner and tapered seat respectively.

2,315,798
PACKING RING OR BEARING ELEMENT
Emil A. Koether, Baltimore, Md., assignor, by mesne assignments, to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware
Application October 15, 1938, Serial No. 235,228
9 Claims. (Cl. 309—44)



2. A cast iron piston ring having its sealing face formed primarily of Steadite and graphite.

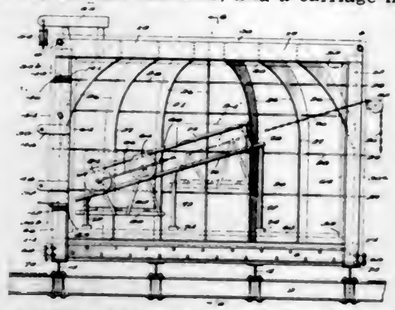
2,315,799
SAFETY DEVICE FOR HANDLING EXPLOSIVES
Fiorello H. La Guardia, New York, Thomas W. Rochester, Tuckahoe, Hyman W. Barron, Laurelton, and John T. Gibala, Little Neck, N. Y.
Application June 12, 1941, Serial No. 397,828
21 Claims. (Cl. 109—1)



1. A safety device for handling explosives generally, and particularly of the fragmentation type, such as infernal machines, comprising an explosion chamber, completely enclosed, of open-mesh construction formed of heavy metallic intermeshed cables and including a floor and canopy, the mesh permitting escape of the explosion gases but serving to retain fragments resulting from an explosion, and means for supporting the explosive spaced from the floor and canopy.

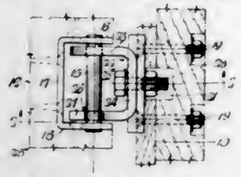
2,315,800
APPARATUS FOR HANDLING EXPLOSIVES
Thomas W. Rochester, Tuckahoe, Hyman W. Barron, Laurelton, and John T. Gibala, Little Neck, N. Y.
Application June 9, 1942, Serial No. 446,394
17 Claims. (Cl. 109—1)

1. A safety apparatus for handling explosives generally, and particularly bombs of the fragmentation type, comprising a gas permeable chamber of heavy interlaced metallic cables, a guideway in said chamber, and a carriage mov-



able on said guideway, for carrying the explosive to substantially the center of said chamber.

2,315,801
HINGE CONSTRUCTION
Roy E. Lave, Homewood, Ill., assignor to Apex Railway Products Co., Chicago, Ill., a corporation of Delaware
Application March 30, 1942, Serial No. 436,850
8 Claims. (Cl. 16—172)



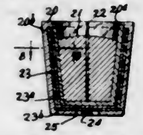
6. An assembly for a hinge construction of the kind described and embodying therein a hinge element having oppositely facing hook shaped arms and a plate portion connecting one end of said arms together, a plate like member, means providing a guided movement of said hinge element toward and away from said plate like member and about which said hinge element may be turned from one position to another, and means on said plate-like member and adapted to be engaged by a part of said plate portion when the hinge element is in one position for preventing said turning movement of said hinge element from said one position to said another position.

2,315,802
NICKEL PLATING
Rudolf Lind, Euclid, William J. Harshaw, Shaker Heights, and Kenneth E. Long, South Euclid, Ohio, assignors to The Harshaw Chemical Company, Elyria, Ohio, a corporation of Ohio
No Drawing. Application April 20, 1940,
Serial No. 330,696
11 Claims. (Cl. 204—49)

1. An electroplating solution comprising an aqueous, acid solution of a nickel electrolyte of the class consisting of a nickel sulfate and nickel chloride, said solution having the capability of producing bright and ductile deposits of nickel, such capability having been imparted thereto by the inclusion therein of cooperating addition agents, one said addition agents comprising an alkaloid of cyclic structure and soluble in the bath to the extent of at least 0.002 gram per liter and mixtures of such alkaloids, said addition agents being present in the solution to an extent to exert their brightening effect and the other

of said addition agents being selected from the group consisting of naphthalene sulfonates, the single ring aryl sulfonamides and single ring aryl sulfonimides and mixtures thereof, said second type being present in solution in the bath to the extent of at least 0.2 gram per liter.

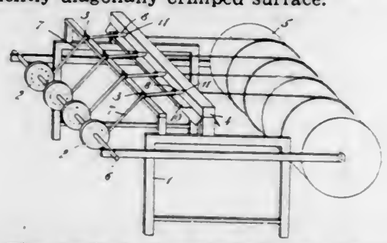
2,315,803
SAFETY NIGHT LIGHT GLASS
Charles Lipari, Brooklyn, N. Y.
Application December 10, 1941, Serial No. 422,315
5 Claims. (Cl. 67—21)



3. A safety night light glass or candlestick, comprising an open top glass container for a candle and having a side wall and a bottom wall, and a metallic safety shield embedded within said side and bottom walls, comprising a pair of inter-engaged perforated sheet metal cups, having alignable perforations, and means for moving one of said cups relative to the other for aligning said perforations and for moving said perforations out of alignment, said glass being constructed of inter-engageable cup shaped members with said perforated sheet metal cups being disposed between said cup shaped members.

2,315,804
REGENERATED CELLULOSE TUBING AND METHOD FOR MAKING THE SAME
Peter D. Massoline, Jersey City, N. J.
Application August 9, 1941, Serial No. 406,207
3 Claims. (Cl. 93—94)

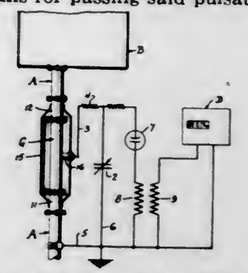
1. Regenerated cellulose tubing having a permanently diagonally crimped surface.



3. The method of manufacturing decorative crimped tubing from a length of regenerative cellulose tape which comprises, simultaneously curling in the presence of heat, each of the edges of said tape until said curled edges meet while producing a continuous lengthwise strain along and within the central area of said tape of such a nature that the surface of said tape acquires permanent irregular and oppositely disposed diagonal crimps, and then permitting said tubing to cool.

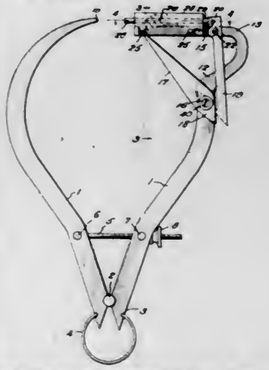
2,315,805
FLUID METER
Frank V. Mayo, Stockton, and William H. Misson, Los Altos, Calif.
Application May 15, 1940, Serial No. 335,296
5 Claims. (Cl. 73—194)

1. An apparatus for utilizing the flow of a liquid in a conduit to actuate a registering instrument, comprising a section in the conduit insulated from the remainder of the conduit, in which an electric current will be developed by the flow of liquid through the conduit, means for converting said current into a pulsating current, a transformer, means for passing said pulsating current



through the transformer to amplify the current and to convert it into an alternating current, a registering mechanism, and current actuated means for actuating the registering mechanism.

2,315,806
CALIPER
Dennis McGreevy, New Orleans, La.
Application August 2, 1941, Serial No. 405,251
1 Claim. (Cl. 33—148)

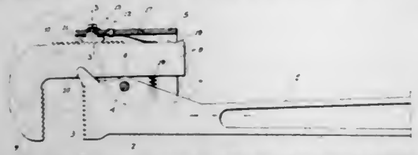


In a caliper having pivoted legs with a slidable contact finger mounted on the end of one leg and a lever mounted on that leg arranged to operate the slidable contact finger, an indicator finger in operative contact with said lever having a pivotal orifice formed with a radially disposed notch, a thimble formed with concentric spaced annular flanges, the outer flange of the thimble forming a bearing seat for the pivotal orifice of the finger, means extending through the inner annular flange to secure the thimble to the caliper leg, a coil spring positioned intermediate the flanges with one end engaged in the radial notch of the finger, and an anchoring post positioned to engage the other end of the spring, the thimble and the caliper leg.

2,315,807
PIPE WRENCH
Lawrence C. Mead, Whittier, Calif.
Application February 17, 1941, Serial No. 379,273
3 Claims. (Cl. 81—103)

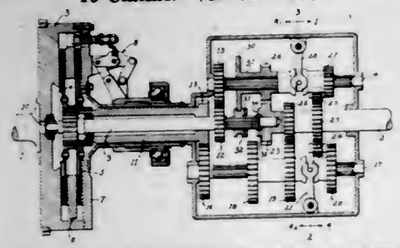
1. A wrench including a handle having a fixed jaw on one end, a yoke, means pivoting the yoke on the handle adjacent one edge thereof and adjacent the jaw, a shank slidable in the yoke, a movable jaw on the outer end of the shank, a row of teeth along the outer edge of the shank, a co-

operating tooth mounted in the yoke between the pivot and the jaws, the shank being spaced from the top of the yoke, and a compression spring disposed in the space between and bearing against the top of the yoke and the adjacent face of the



shank, the pivot means being disposed between the points of engagement of the spring and yoke tooth with the shank whereby to cause the yoke adjacent the tooth thereon to turn toward the shank.

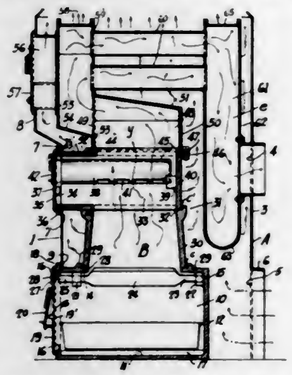
2,315,808
PRESELECTIVE TRANSMISSION
Kay Miller, Rockford, Ill., assignor to The Atwood Vacuum Machine Company, Rockford, Ill., a copartnership
Application March 18, 1942, Serial No. 435,152
15 Claims. (Cl. 74—330)



1. In a power transmission system, a power input shaft, a power output shaft, telescoping intermediate shafts in coaxial relation to the input and output shafts, a two-way clutch comprising a flywheel driven by the input shaft, two driven disks separately connected to the intermediate shafts and means for selectively engaging either of said disks to turn with the flywheel, two countershafts parallel with the output shaft and separately drivingly connected continuously with the intermediate shafts, driven gears on the output shaft, and pre-selective drive gears cooperating with the last named driven gears for transmitting drive to the output shaft selectively from either countershaft.

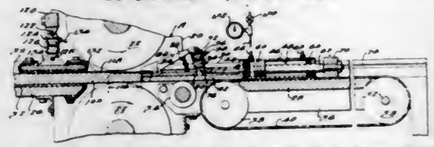
2,315,809
HOT-AIR FURNACE
Randall Moyle, Mehlville, Mo., assignor of one-fourth to Melvin Keeton, one-fourth to Charles R. Cullmann, and one-fourth to Frederick J. Gosebrink, all of St. Louis, Mo.
Application August 4, 1940, Serial No. 351,424
2 Claims. (Cl. 126—99)

1. A hot-air furnace comprising an upright outer casing of substantially rectangular cross section having an air intake opening through its wall low down and a heated air outlet at its top, said casing having its front wall provided with a firing-door aperture and an ash-door aperture, stove structure disposed in the middle of and spaced from the walls of said casing comprising a substantailly rectangular ash-pit having an ash removal opening extension registering with the ash-door aperture and a substantially rectangular fire-pot mounted upon the ash-pit and having the inner face of its wall downwardly and outwardly tapered and a substantially rectangular fire-box mounted upon the fire-pot provided with a flue opening at its top and having a fuel-charging opening extension registering with the fire-door aperture, a flue header offset forwardly from the stove structure in the upper part of said upright outer casing and connected adjacent its lower end with the flue opening, a dust box within the outer casing located between and spaced from the rear wall of the stove structure and the rear



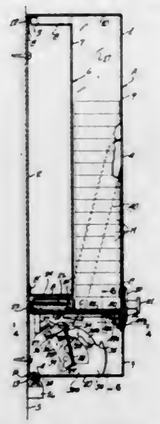
wall of said casing and having its upper portion formed as a rear flue header substantially aligned with the forward flue header, a plurality of flue tubes connected between said forward flue header and the upper flue header position of the dust box and extending substantially horizontally from front to back over the stove structure, and an outlet flue leading from the rear wall of said dust box at a point below the openings of said flue tubes into said dust box.

2,315,810
METHOD OF ROLLING SHEET METAL AND APPARATUS THEREFOR
Emil A. Nelson, St. Clair Shores, Mich.
Application April 26, 1941, Serial No. 390,490
13 Claims. (Cl. 80—19)



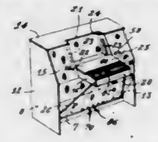
1. In the manufacture of metal sheets differing in thickness and/or contour at different points in the length thereof, the steps of forming a plate-like mandrel of a length and width at least as great as the length and width of the desired final product and varying in thickness and/or cross-sectional configuration at different points in the length thereof in a manner complementary to the variation desired in the final product, placing a sheet of the desired metal and of uniform thickness throughout in contact with a surface of said mandrel to form an assembly, passing said assembly through power driven rolls maintained at a fixed axial distance with respect to each other and spaced from each other by a distance less than the maximum thickness of said assembly, and constantly maintaining that portion of said sheet discharged from said rolls under a sufficient longitudinal tension during passage of said sheet through said rolls to move the leading edge of said sheet at a greater speed than said mandrel.

2,315,811
VENDING MACHINE
Fred Niewoehner, New York, N. Y., assignor to Interstate Vending Machine Company of St. Louis, St. Louis, Mo., a corporation of Missouri
Application July 28, 1941, Serial No. 404,359
5 Claims. (Cl. 194—93)



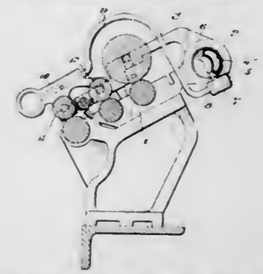
1. A vending machine comprising a housing providing a compartment for articles to be vended by the machine, a slide for delivering said articles one at a time from said compartment, and coin-controlled means for normally locking said slide against article-delivering movement and operable on introduction of a proper coin into the machine to release said slide for such movement, said coin-controlled means comprising a structure supported for pivotal movement and engaged by a part of said slide, a locking abutment, a locking member movable with and with respect to said structure and adapted for engagement with said abutment to prevent movement of said structure and movement of said slide, and means including a part of said pivotally supported structure for supporting a coin introduced in the machine in such a position that said coin deflects said locking member so that it clears said abutment and permits movement of said structure and said slide.

2,315,812
PIANO-VIBRAPHONE
Gerald A. O'Connell and Carl M. Larson, De Kalb, Ill.
Application April 7, 1941, Serial No. 387,212
9 Claims. (Cl. 84—410)



1. A musical instrument of the xylophone type, including two substantially parallel rows of vertically hung bars, one row being spaced above the other, each of said bars being adapted when struck to be set into vibration to produce a tone of a musical scale differing from the tones produced by the others, an individual hammer for striking each of said bars, all of the hammers being pivoted on a common support extending in spaced parallel relation to one of said rows of bars, all of the hammers extending from said support in the same direction, the hammers for striking the bars of the adjacent row being of one radius and the hammers for striking the bars of the other row being of another radius, finger operable key means for operating the hammers, an individual damper for each of said bars normally spring pressed into engagement therewith, means associated with each hammer to move the related damper out of engagement with the bar when the hammer is actuated to strike the bar, all of said dampers being pivoted on the aforesaid hammer support and extending all in one direction from said support, the dampers for engaging the bars of the adjacent row being of one radius and the dampers for engaging the bars of the other row being of another radius, the dampers for engagement with the bars of the row adjacent said support having engagement with said bars in laterally offset relation to the longitudinal center lines of said bars, and the related hammers being mounted on said support so as to strike said bars on the opposite side of the longitudinal center lines, and means for moving all of said dampers out of engagement with all of said bars independently of the operation of said hammers.

2,315,813
WEIGHTING DEVICE
Jakob Oettli and Heinrich Hess, Winterthur, Switzerland, assignors to Actiengesellschaft Joh. Jacob Rieter & Cie, Winterthur, Switzerland
Application October 16, 1941, Serial No. 415,310
In Germany January 15, 1940
2 Claims. (Cl. 19—135)



1. A weighting device for the top rollers of draw frames in spinning machines, comprising a slotted support for the top roller holders, a hose in said support, a pressure piping connected with said support, a valve connecting said piping with said hose, pressure plates introduced through the slots of said support and bearing against said hose, said pressure plates having a notched projection engaging through a slot of said support and resting with its notch on one side of the slot, an eye formed in said pressure plates and a weight lever secured in said eye and acting in front upon the saddle of the frame resting on the top rollers and thus subjecting the top rollers to pressure variable as to spinning conditions.

2,315,814
POCKET FOR CLOTHING
Samuel J. Reidbord and Zelik Reidbord, Pittsburgh, Pa.
Application August 30, 1939, Serial No. 292,676
3 Claims. (Cl. 2—248)

1. The method of making a re-inforced pocket which consists in sewing a re-inforcing strip

transversely along the lower portion of a pocket base fabric by a corded seam along the top edge of the strip, folding the two about a vertical line and stitching the raw contour edges of the base fabric and the re-inforcing strip, to form a pocket



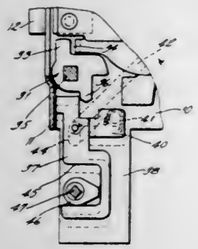
with the re-inforcing strip folded inside, turning the pocket thus formed inside out, to place the reinforcing strip on the outside of the pocket, and re-stitching the border of the pocket to place a second stitch through the raw edges of the base fabric and the strip.

2,315,815

VEHICLE DOOR LATCH

Holden W. Rightmyer, Toledo, Ohio, assignor to The American Swiss Company, Toledo, Ohio, a corporation of Ohio

Application February 15, 1941, Serial No. 379,064
3 Claims. (Cl. 292—169)



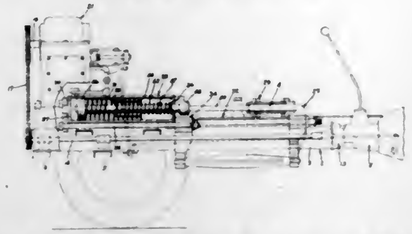
1. A vehicle door latch comprising a case plate, a tensioned latch bolt movably connected to the plate, inside operated means to retract the bolt, outside operated means to retract the bolt including a rotatable roll back, a vertically disposed dogging slide below the roll back movably connected to the case plate for movement toward and away from the roll back for blocking rotation thereof in one position of the slide, said slide having a cutout which extends through one of the sides thereof and which is formed to provide spaced walls disposed at substantially right angles to the direction of movement of the slide, a rotatable cam having a nose and sides disposed in its entirety within the cut out, means to actuate the cam to engage said walls of the cut out to move the slide into and out of dogging position, said cam in one position being movable to a neutral position with its nose extending toward the rear of the cutout and its sides disposed between the opposed walls of the cutout, a lateral extension below the roll back, secured at one end to the opposite side of the slide, a toggle spring connected to the opposite end of the extension and to the case plate, and means accessible from the inside of the vehicle for actuating the slide into and out of dogging position independently of the cam when the cam is in said neutral position thereof to move the slide into and out of dogging position.

2,315,816

PRESSURE APPLYING APPARATUS

James S. Rodgers, St. Louis Park, Minn., assignor to Rodgers Hydraulic Incorporated, St. Louis Park, Minn., a corporation of Minnesota

Original application February 18, 1938, Serial No. 191,277. Divided and this application January 10, 1942, Serial No. 426,365
3 Claims. (Cl. 121—38)



1. A cylinder having means at one end for supplying a fluid pressure thereto, a ram mounted for reciprocal movement within the cylinder and having a piston head at one end, a spring coiled about the ram and having one end seated against one end of the cylinder, a cup-shaped retainer mounted within the cylinder and providing an abutment for the opposite end of said spring, a relatively larger diametered spring having one end seated against the piston head and its opposite end against the opposite end of said cup-shaped retainer, and whereby the inner ends of said springs are retained in axial and telescoping relation, said springs being substantially equal in strength whereby they will yield uniformly to pressure when the piston is actuated by fluid pressure, and the over-all length of said retainer being slightly greater than the combined over-all length of said springs when the springs are completely compressed, whereby said retainer may also function to provide an abutment stop for the ram when the ram is at the limit of its forward movement.

2,315,817

ENOLESTERS OF THE SATURATED AND UNSATURATED PREGNANE-20-ONES AND PROCESS FOR THE CONVERSION OF ACETYLENE DERIVATIVES

Leopold Ruzicka, Zurich, Switzerland, assignor, by mesne assignments, to Ciba Pharmaceutical Products, Incorporated, Summit, N. J., a corporation of New Jersey

No Drawing. Application February 8, 1940, Serial No. 317,986. In Switzerland February 10, 1939
11 Claims. (Cl. 260—397.4)

1. Process for the conversion of acetylene derivatives of the saturated and unsaturated cyclopentanopolyhydrophenanthrene series, comprising causing to react acetylene derivatives of the said series with mercury salts of a member of the group consisting of organic and inorganic acids, in neutral, non-aqueous solvents and splitting the resulting organo-mercury derivatives.

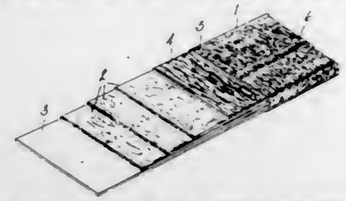
2,315,818

FILLER STRIP

Wade E. Sackner, Grand Rapids, Mich., assignor to Grand Rapids Fibre Cord Company, Grand Rapids, Mich.

Application March 31, 1941, Serial No. 386,042
3 Claims. (Cl. 154—43)

1. A filler strip for trimming comprising a flat strip of creped cellulose wadding, a stiffening form maintaining element comprising a strip of plain stiff smooth kraft paper completely overlying one face thereof, and a strip of creped kraft paper completely overlying the opposite face



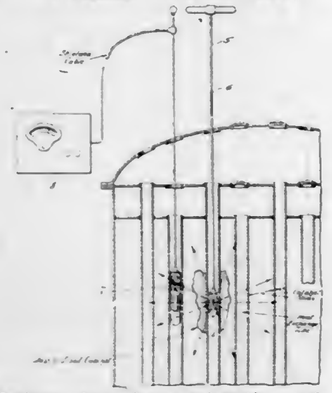
thereof with the lines of creping extending transversly of the strip, and a flexible cover sheet of light flexible creped cellulosic sheet material surrounding and holding said strips in assembled relation with the lines of creping extending transversely of the strip.

2,315,819

METHOD OF EXPLORING OPERATING STRUCTURES

Carleton H. Schlesman, Camden, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York

Application September 14, 1940, Serial No. 356,781
2 Claims. (Cl. 250—83.6)



1. Method for the exploration of ramified structures comprising moving a source of radiant energy through portions of said structure in maintained geometric relationship with a detector moved through other portions of said structure which detector is capable of translating incident radiant energy into proportional electrical energy, amplifying electrical energy so generated to desirable signal strength, measuring the proportional amount of electrical energy so generated, and determining conditions between the source of radiant energy and the detector by analyzing fluctuations in the amount of radiant energy translated between said source and said detector.

2,315,820

PROCESS FOR SWEETENING SOUR HYDROCARBON OIL

Walter A. Schulze and Albert E. Buell, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Continuation of application Serial No. 166,022, September 27, 1937. This application May 27, 1940, Serial No. 337,548
10 Claims. (Cl. 196—29)

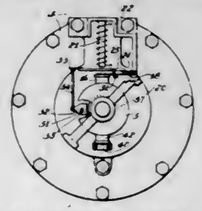
1. A process for sweetening sour hydrocarbon oils relatively unstable with respect to color and gum formation comprising admixing air with said oils and passing them in contact with a solid sweetening reagent comprising a solid adsorbent carrier impregnated with a solution of a cupric salt and a soluble chloride, the chloride to water weight ratio of said reagent being maintained within the limits of from 0.05 to about 0.25, and containing between 13 and 26 per cent water.

2,315,821

GENERATOR REGULATOR

Erle I. Shobert, II, St. Marys, Pa., assignor to Stackpole Carbon Company, St. Marys, Pa., a corporation of Pennsylvania

Application May 12, 1941, Serial No. 393,072
2 Claims. (Cl. 171—229)



1. In a generator output regulator of the type in which normally engaging rotatable and reciprocable conductors are connected in a generator field circuit and electrically actuated means connected in the generator armature circuit are operatively connected to the reciprocable conductor for moving it away from the rotatable conductor when said output reaches a predetermined value; a clutch ring adapted to be connected to said rotatable conductor coaxially thereof, a lever disposed substantially radially of said ring with its inner end close to the periphery of the ring, said lever having a transverse slot through it, a fulcrum projecting into said slot, and means for pivotally connecting the outer end of the lever to said electrically actuated means for swinging and moving the lever bodily laterally, said lever being so formed that when swung in one direction it frictionally engages and turns said ring.

2,315,822

INTERLOCKING SILT ACCUMULATOR ASSEMBLAGE

Harry M. Smith, Valley, Nebr.

Application May 16, 1940, Serial No. 335,529
2 Claims. (Cl. 61—3)



1. A silt accumulator comprising a plurality of like sections, each said section having three elongated frames, said frames each having two oppositely disposed spaced apart side rails, a strut being disposed between and secured to said rails adjacent to each end of the rails, two of said frames being so secured together that a configuration of cruci-form in plan is provided, the rails of the third frame each being disposed lengthwise across and secured to one of the arms of said cross and having approximately equal portions of its length disposed at each side of the frames

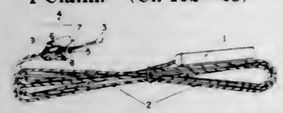
which define said cross, a detent having an end secured to an end of a rail of said third frame, said detent being disposed diagonally with respect to said third frame and having its other end secured to the end of a rail of one of said frames which provide said cruci-form; said sections being disposed side by side upon the bed of a stream with the frames which carry said third frames disposed in approximately longitudinal alignment across said bed and supported inclinedly therefrom by those ends of said third frames which carry said detents, and a cable having ends anchored to the bank of said stream, said cable being engaged with each said section for joining said sections together, a portion of the lower ends of aligned frames being disposed against the detents of a next adjacent section at the up stream side of said detents for facilitating a maintenance of said approximate alignment during use.

2,315,823

SHUNT FOR ELECTRIC BLASTING CAPS

Roscoe B. Smith, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

Application November 26, 1938, Serial No. 242,466
1 Claim. (Cl. 102—28)



For use with an electric detonator and its pair of lead wires, where said lead wires are of a size commonly used in electric detonators and being bare for a portion of their length at the outer ends and being insulated for the remainder of their length inwardly to the detonator, a portable shunt consisting of resilient conductive material for short-circuiting said lead wires and adapted to be positioned on said bare wire portions immediately adjacent said insulated wire portions, said shunt comprising a resilient arcuately curved base portion having a perforation at the vortex thereof diametrically sufficient to permit passage therethrough of said insulated wire portions, diametrically opposed resilient arms extending outwardly from said base portion in spaced relation to each other and being held in biased relationship relative to each other by means of said resilient base portion, the outer ends of each of said arms being bent at substantially right angles inwardly toward each other to form a gripping element, the gripping elements being positioned in overlapping relation with each other, a lug struck inwardly from one of said arms and positioned between and in substantially parallel relation to said base portion and gripping elements, said lug and each of said gripping elements having a wire receiving aperture, the apertures being alignable in axial relation with said perforation to receive said pair of bare wire portions, said apertures being of a diameter to permit passage of said pair of bare wire portions and prevent passage of said pair of insulated wire portions thereby permitting automatic and positive positioning of said shunt immediately adjacent said insulated wire portions on said bare wire portions.

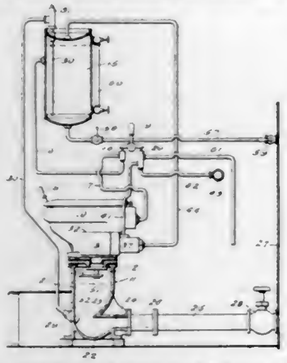
2,315,824

COMBINED PNEUMATIC AND HYDRAULIC WATER CLOSET

Arthur O. Sweeny, Kittery, Maine

Application November 6, 1941, Serial No. 418,070
7 Claims. (Cl. 4—77)

1. A combined pneumatic and hydraulic water closet comprising a hopper and a dump valve normally closing the outlet of said hopper, a receiving chamber under said hopper and into which said hopper discharges when said dump valve is opened, a discharge chamber communicating with the lower portion of said receiving chamber and into which the contents of said receiving chamber may be downwardly forced, said discharge chamber having an outlet provided with a check valve, means for conducting water to said hopper to flush same when said dump valve is opened, whereby the hopper contents will enter said receiving chamber, valved means for conducting compressed air into the upper end



of said receiving chamber after again closing said dump valve, to force the contents of said receiving chamber to a low level and cause most of same to enter said discharge chamber, means controlled by said low level and operatively connected with said valved means for actuating the latter to discontinue the supply of compressed air to said receiving chamber when the liquid reaches said low level, thus preventing any of said compressed air from entering said discharge chamber, a water nozzle operatively related with said outlet of said discharge chamber for scavenging the latter of waste, and valve controlled means for supplying water under pressure to said water nozzle.

2,315,825

CONNECTOR

Oscar F. Tallman, St. Louis, Mo., assignor to James R. Kearney Corporation, St. Louis, Mo., a corporation of Missouri

Application February 16, 1942, Serial No. 431,100
3 Claims. (Cl. 287—50)



1. A connector for electrical conductors comprising a structure formed from a single length of resilient material shaped to provide a curved bridge portion and a pair of opposed elongated leg portions which are extended from said curved bridge portion, curved conductor-engaging portions formed on said elongated leg portions adjacent to the outer ends thereof and arranged in substantial alinement with said bridge portion when the connector is in its effective conductor-connecting condition, said conductor-engaging portions being inclined at angles extended transversely and longitudinally of the connector, said bridge portion and said conductor-engaging portions of said elongated leg portions being adapted to engage one of a pair of conductors connected by the connector, substantially straight portions extended from said conductor-engaging portions of said elongated leg portions, and conductor-gripping portions comprising curved seats formed on said elongated leg portions and offset from the direction of alinement of said bridge portion and said conductor-engaging portions of said elongated leg portions for engaging the other of a pair of conductors connected by the connector.

2,315,826

WIRE ATTACHING DEVICE

Oscar F. Tallman, St. Louis, Mo., assignor to James R. Kearney Corporation, St. Louis, Mo., a corporation of Missouri

Application February 27, 1942, Serial No. 432,542
3 Claims. (Cl. 24—129)



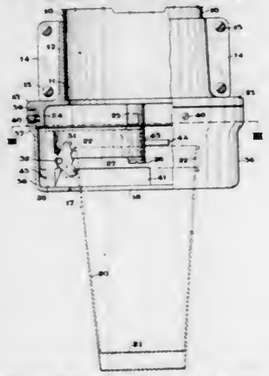
3. A wire attaching device formed from a single length of strip material and comprising an elongated portion twisted about its longitudinal axis to provide said elongated portion with a groove which extends spirally of said elongated portion in the direction of the length thereof, an eye at an end of the device which is an integral continuation of said elongated portion, the portion of the strip of material which produces said eye being channel-shaped in cross-section and the channel of said eye being a continuation of the spiral groove of said elongated portion, and integral hook-shaped portions formed on the attaching device at the end opposite to the end thereof at which the eye is located for engaging portions of a wire engaged by the device.

2,315,827

MACHINE FOR HOLDING AND DISPENSING DRINKING CUPS

Leslie R. Tansley, Columbus, Ohio, assignor to White Castle System, Inc., Columbus, Ohio, a corporation of Delaware

Application January 6, 1941, Serial No. 373,325
7 Claims. (Cl. 312—43)



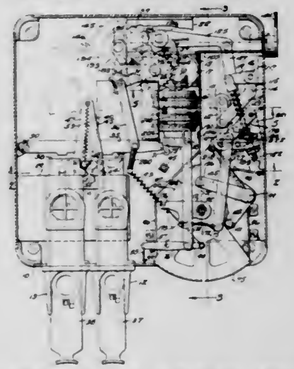
1. In apparatus for dispensing paper cups and the like, a cup retaining magazine having an outlet in the bottom thereof, a ring rotatably mounted in connection with the bottom of the magazine, arms pivoted to the bottom of the magazine for turning movement in horizontal planes, cup-engaging jaws pivotally connected to the outer ends of said arms, and cam elements carried by said ring, said elements coacting with said arms to control the operative positions of said arms and the jaws carried thereby in the outlet of said magazine.

2,315,828

COIN OPERATED MAILING MACHINE

Linden A. Thatcher, Stamford, Conn., assignor to Pitney-Bowes Postage Meter Company, Stamford, Conn., a corporation of Delaware

Application March 25, 1939, Serial No. 264,055
2 Claims. (Cl. 101—273)



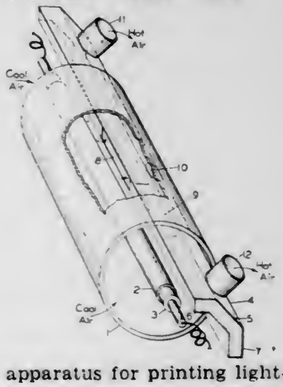
1. In a device of the character described for printing a stamp impression upon letters, a printing die, a platen member, means for supporting a letter on edge in a vertically disposed position between the printing die and platen member, a stop positioned in the path of the leading edge of the letter, said letter supporting means having longitudinal movement toward the stop to advance the leading edge of a letter thereagainst before printing, and having rocking movement to release the letter therefrom to space therebelow after printing, and a drive including connections with said letter supporting means to effect each of the advancing and rocking movements.

2,315,829

COOLING APPARATUS

Frederick O. Trump, Binghamton, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

Application March 11, 1942, Serial No. 434,209
5 Claims. (Cl. 95—77.5)



1. In an apparatus for printing light-sensitive

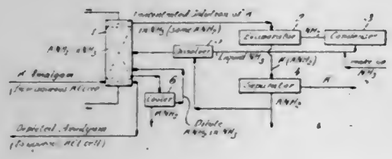
material having a transparent printing surface and a light source, a hollow box having angularly disposed sides, a plurality of intake openings in the geometric center of the surfaces of said box, and exhaust openings adapted for attachment to suitable suction means, the total area of said exhaust openings being approximately equal to the total area of the intake openings.

2,315,830

PRODUCTION OF ALKALI METALS AND THEIR AMIDES

Raymond A. Vingee, Syracuse, and Charles K. Lawrence, Baldwinsville, N. Y., assignors to The Solvay Process Company, New York, N. Y., a corporation of New York

Application August 12, 1939, Serial No. 289,760
13 Claims. (Cl. 204—59)



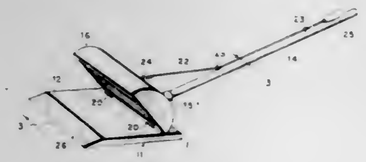
13. In an electrolytic process involving formation of potassium at the cathode, the improvement which comprises electrolytically decomposing potassium amide in a solution of potassium amide in liquid ammonia, to form potassium, in a cell having a potassium amalgam anode.

2,315,831

DEVICE FOR HANDLING INCENDIARY BOMBS

Everett Wilcox, Hyattsville, Md.

Application July 23, 1942, Serial No. 452,020
2 Claims. (Cl. 294—55)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A device for handling incendiary bombs comprising a flat base, a long handle attached to the back of said base, a hood adapted to be disposed on said base, and a long handle attached to said hood, said base and hood being fabricated of a material which will not fuse at the combustion temperature of the bomb to be handled, said handles being parallel when said hood is on said base.

2,315,832

UNDERSKIRT ATTACHMENT

Kate Wiley, Lake City, Minn.

Application November 1, 1941, Serial No. 417,554
2 Claims. (Cl. 2—211)

1. The combination with an underskirt such as a slip and the like, of a panel of material disposed upon the inner side of the front portion only of the skirt adjacent the bottom and secured along the edge remote from the bottom



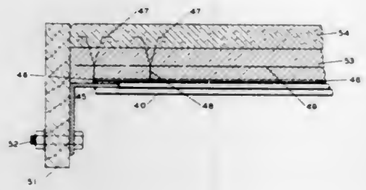
edge of the skirt and at its side edges, the material being fulled between the secured side edges and free of connection with the skirt along its bottom edge.

2,315,833

PANEL FURNACE CONSTRUCTION

Malcolm P. Youker and William H. Creel, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware

Application September 28, 1939, Serial No. 297,009
3 Claims. (Cl. 72—101)



1. A furnace structure at least partially enclosed with removable panel sections, said panel sections being provided with supporting members and comprising a corrugated steel backing, metallic reinforcing including a reinforcing rod welded to the corrugated steel backing at the ridges of said corrugations, said metallic reinforcing being embedded in a refractory lining cast directly upon the backing and substantially coextensive therewith providing the inner wall of the furnace exposed to high temperatures, the panels being provided with flanges extending rearwardly and secured to said supporting members so as to be removable as a unit from the furnace.

2,315,834

1-AMINOARYL-5-PYRAZOLONE-4-SULPHONIC ACIDS

Paul Zervas, Cologne Mulheim, Germany, assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application August 9, 1941, Serial No. 406,239. In Germany April 6, 1939
5 Claims. (Cl. 260—310)

1. Process of preparing 1-aminophenyl-5-pyrazolone-4-sulphonic acids which comprises treating 1-nitrophenyl-5-pyrazolone-4-sulphonic acid with reducing agents for nitro groups.

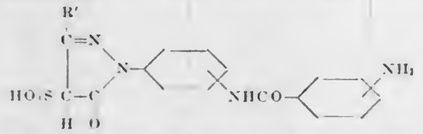
2,315,835

CONDENSATION PRODUCTS OF 1-AMINOARYL-5-PYRAZOLONE-4-SULPHONIC ACIDS

Paul Zervas, Cologne-Mulheim, Germany, assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application August 9, 1941, Serial No. 406,240. In Germany June 8, 1939
6 Claims. (Cl. 260—310)

1. The new products corresponding to the general formula:



wherein R' stands for a radical selected from the group consisting of alkyl and COOH.

2,315,836

5-PYRAZOLONE-4-SULPHONIC ACIDS

Paul Zervas, Cologne Mulheim, Germany, assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application August 9, 1941, Serial No. 406,241. In Germany June 9, 1939
6 Claims. (Cl. 260—310)

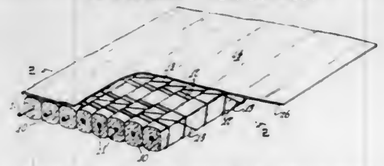
1. Process of preparing 1-phenyl-3-methyl-5-pyrazolone-4-sulphonic acid which comprises pouring on ice the sulphonation mixture formed by the action of fuming sulphuric acid containing 20 per cent of anhydride upon 1-phenyl-3-methyl-5-pyrazolone at 50–55° C.

2,315,837

INSULATING COVERING

George B. Brown, Martinsville, and Phillip D. Cannon, Warren Township, Somerset County, N. J., assignors to Johns-Manville Corporation, New York, N. Y., a corporation of New York

Application March 23, 1940, Serial No. 325,547
18 Claims. (Cl. 96—26)



1. A heat-insulating covering comprising a plurality of substantially parallel asbestos rovings and braiding strands maintaining said rovings in assembled relationship to form a blanket, said braiding strands securing each roving to an adjacent roving.

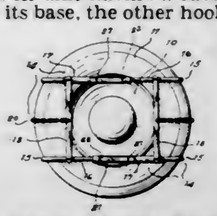
2,315,838

WHEEL TRACTION DEVICE

Benn Adelmer Bryon, Saugerties, N. Y.

Application December 11, 1940, Serial No. 369,602
2 Claims. (Cl. 152—223)

1. A wheel traction device consisting of two units, each including two spaced apart hook-like members having base portions and having bill portions presented inwardly at one side of the unit, said units being arranged for wheel-engagement with their bases adjacent the outer side of the wheel and with their bill portions arranged to receive the outer tread portion of a tire therein and to fit partly around such tire transversely in embracing relation, one hook-like member in each unit having a tubular shank extended from its base, the other hook-like member



of such unit having a shank at its base adapted to engage slidably in the tubular shank of an opposed similar unit, and means to releasably fasten the telescoped shanks in adjusted positions.

2,315,839

CATALYTIC TREATMENT OF NON-BENZENOID HYDROCARBONS

Robert E. Burk and Everett C. Hughes, Cleveland Heights, Ohio, assignors to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application June 10, 1940, Serial No. 339,760
10 Claims. (Cl. 260—668)

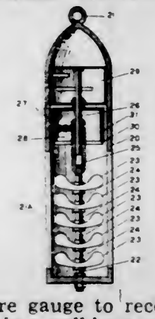
5. A process of forming aromatic hydrocarbons, which comprises maintaining at high temperature a series of bodies of a gel type contact mass containing 18–30 mol per cent of chromium oxide and 82–70 mol per cent of aluminum oxide, and passing through the series a non-benzenoid hydrocarbon of gasoline range, while returning a portion of the off-gas from the process to at least a part of the series of bodies of contact mass, and controlling the total gas pressure during contacting at 40–180 pounds per square inch.

2,315,840

BOREHOLE THERMOMETER

Wilbur J. Crites, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

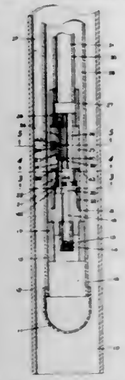
Original application July 11, 1938, Serial No. 218,659. Divided and this application June 8, 1940, Serial No. 339,567
1 Claim. (Cl. 73—369)



A temperature gauge to record the variation in temperature in a well bore comprising a housing, thermally responsive means comprising an expansion fluid container responsive to temperature conditions in the well bore, said container assuming the shape of a collapsed sphere with the collapsed surfaces coming in close proximity with each other, the collapsed surfaces being responsive to the expansion and contraction of the fluid medium due to temperature change, coupling means mounted on the container for

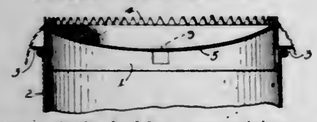
transmitting movement, a clock mechanism mounted in the housing having a shaft rotated by said mechanism, a record cylinder attached to the shaft, and a stylus carried by the coupling means on the container and movable therewith bearing against the recording cylinder.

2,315,841
WELL PUMP
Wilbur J. Crites, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application May 12, 1941, Serial No. 393,105
4 Claims. (Cl. 103—244)



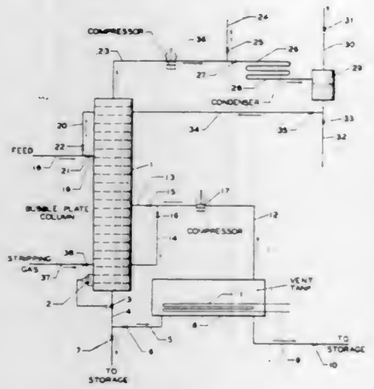
1. In deep well lifting apparatus having rotatable inner tubing disposed within outer tubing and forming an annular space therewith, a source of high pressure gas communicating with the annular space, surface means for rotating the inner tubing, and a pumping mechanism having a fluid accumulation chamber communicating with the inner tubing, a passage in the pumping mechanism establishing communication between the annular space and the fluid accumulation chamber, said passage alternately opening and closing to admit gas at regular intervals into the fluid accumulation chamber, the improvement in the pumping mechanism comprising a valve body connected to the inner tubing and rotatable therewith, a gas inlet passage in the valve body, a valve within the valve body for opening and closing the gas inlet passage, a fluid passage extending through the valve body, a cam body associated with the valve body, a cam on the cam body cooperating with the valve to actuate the same at regular intervals, a check valve controlled passage in the cam body, and means for preventing rotation of the cam body with respect to the valve body.

2,315,842
PAINT STRAINER
Anthony Dariano, San Jose, Calif.
Application May 9, 1941, Serial No. 392,693
1 Claim. (Cl. 210—158)



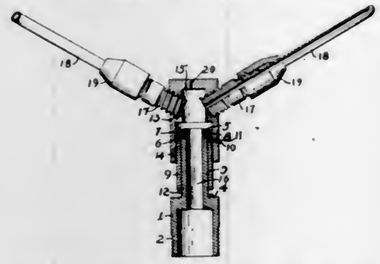
A strainer-cloth holder comprising, an annulus of resilient sheet metal or the like having a diameter less than that of the bucket on which it is to be mounted, and having lips punched outwardly and upwardly therefrom intermediate its width and spaced about its periphery and adapted to seat on a bucket top to support the lower portion of the annulus within the bucket, and said annulus having strainer-cloth engaging teeth formed integrally therewith and on the top edge thereof.

2,315,843
METHOD OF DEGASSING LIQUIDS
Harry E. Drennan, Phillips, Tex., and William G. Hiatt and William H. Creel, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware
Application April 20, 1939, Serial No. 269,022
2 Claims. (Cl. 196—11)



1. A method for separating undesirable gases from gasoline comprising passing a stream of gasoline containing an undesirable gas dissolved therein into a stripping zone, intimately contacting the gasoline therein with a stripping medium, passing the gasoline effluent of the stripping zone to a zone of lower pressure wherein vapor is evolved, passing the vapors evolved in the zone of lower pressure to the stripping zone as stripping medium and passing hydrocarbon gas having a composition containing none of the undesirable gas into the stripping zone as additional stripping medium in amount sufficient to displace the undesirable gas.

2,315,844
SPRINKLER HEAD
Francesco Ferrando and Giuseppe Ferrando, Menlo Park, Calif.
Application January 19, 1942, Serial No. 427,358
1 Claim. (Cl. 299—69)



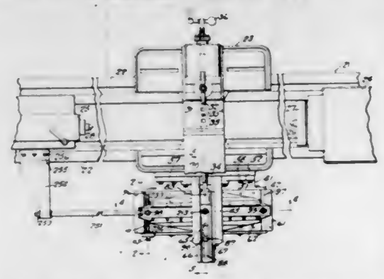
A sprinkler head comprising, a tubular base

member having one end of reduced diameter to form a shoulder thereon, and stop means mounted thereon in opposed relation to said shoulder, a sleeve rotatably and slidably mounted on said end between said shoulder and stop, resilient means disposed between the sleeve and shoulder to urge the sleeve toward said stop, and spraying means mounted on said sleeve to rotate and move as a unit therewith.

2,315,845
WEAR TEST METHOD AND COMPOSITION
Seymour W. Ferris, Mount Holly, N. J., assignor to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania
No Drawing. Application October 25, 1941, Serial No. 416,605
10 Claims. (Cl. 250—107)

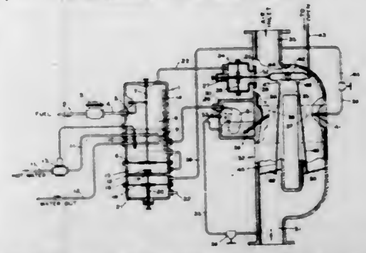
1. The method of determining wear of a surface, which comprises providing a radioactive surface of substantially unaltered wear-resisting properties, subjecting said surface to wear in the presence of a fluid capable of carrying radioactive wear debris, and measuring the radioactivity of the fluid carrying said debris.

2,315,846
TAPER MECHANISM
Frank A. Fritzsch, Cincinnati, Ohio, assignor to The Lodge & Shipley Machine Tool Company, Cincinnati, Ohio, a corporation of Ohio
Application June 26, 1939, Serial No. 281,101
9 Claims. (Cl. 82—17)



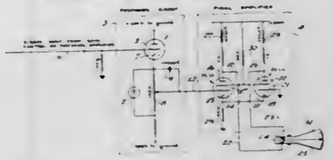
1. In taper mechanism, the combination with the bed, the carriage movable lengthwise thereon and the tool holder movable crosswise on the carriage, of a housing movable with said carriage, said housing provided with encompassing walls to form a cavity in said housing extending lengthwise of said bed, a carrier, a taper guide adjustable thereon and having operative connection through said housing with the tool holder to move said tool holder crosswise on the carriage, means for lengthwise supporting and lateral and hold down movements between said carriage and said carrier comprising opposing supporting and lateral and hold down guides and opposing supporting and lateral and hold down rotary friction reducing members coacting therewith, mounting means for the latter comprising bearings in said housing having bores open at the outer periphery of said housing, bushings in said bores, said rotary friction reducing members eccentrically mounted in said bushings, means at the outer ends of said mountings wherewith to relatively laterally adjust the distance relation between the axes of rotation of said opposing supporting and lateral and hold down rotary friction reducing members from the outside of said housing, and means to fixedly position said bushings in said bores to retain such adjustments.

2,315,847
HIGH VAPOR PRESSURE FUEL VAPORIZER-CARBURETOR COMBINATION
Owen L. Garretson, Detroit, Mich., assignor to Phillips Petroleum Company, a corporation of Delaware
Application October 6, 1941, Serial No. 413,838
4 Claims. (Cl. 261—16)



4. In a throttling arrangement for an internal combustion engine carburetion system adapted for handling higher than normal vapor pressure fuel including means separating said fuel into liquid and gaseous phases, a dual branched carburetor, each branch including a Venturi tube and a fuel nozzle, a passage for liquid fuel leading from the separating means connected with one nozzle and a passage for gaseous fuel leading from the separating means connected with the other nozzle, to induce liquid and gaseous fuel flow in accordance with air flow through said Venturi tubes, the improvement comprising a valve in each branch of the dual carburetor to control the air flow and thereby the relative fuel flow thereto, a fulcrum, a manually operable lever adjustable with respect to said fulcrum, arms pivoted to said lever on opposite sides of the fulcrum and operably connected with said valves and means for shifting the pivots toward and from the fulcrum to vary the position of the valves and thereby the relative proportions of liquid and gaseous fuel induced in the branches by air flow through the Venturi tubes.

2,315,848
CATHODE-RAY OSCILLOGRAPH
William A. Geohegan, New York, N. Y., assignor to Allen B. Du Mont Laboratories, Inc., Passaic, N. J., a corporation of Delaware
Application January 4, 1940, Serial No. 312,358
3 Claims. (Cl. 171—95)



1. In a system of the character described, a cathode-ray oscillograph, a deflecting plate amplifier-balancer circuit apparatus and a positioning circuit for said oscillograph comprising an amplifier tube with its output load circuit connected to its cathode, said load circuit consisting of a first resistive section and a second resistive section, said load circuit comprising means for passing desired signals undisturbed and comprising means by which variation of the direct current voltage output of the cathode resistor network causes positioning of the cathode-ray beam, said positioning circuit preceding and controlling said deflecting plate circuit.

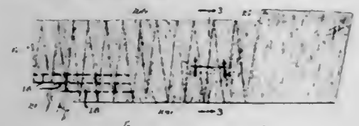
2,315,849
MANUFACTURE OF RUBBER
Roscoe H. Gerke, Nutley, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application April 26, 1940, Serial No. 331,819
13 Claims. (Cl. 260—763)

1. A process which comprises mixing rubber with a relatively large amount of carbon black, and a poly-amido derivative of carbonic acid containing at least one primary amido group, heating the mix to a temperature substantially above 250° F. but not above about 370° F. to severely flocculate the black, and thereafter masticating the mix to substantially completely disperse the flocculated black.

2,315,850
MANUFACTURE OF RUBBER
Roscoe H. Gerke, Nutley, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application May 25, 1940, Serial No. 337,205
4 Claims. (Cl. 260—763)

1. A process which comprises mixing rubber with a relatively large amount of carbon black, and a small amount of hydrazine, heating the mix to severely flocculate the black at a temperature substantially above 250° F. but not above about 370° F., and thereafter masticating the mix to substantially completely disperse the flocculated black.

2,315,851
STAY STRIP
Joseph Goldman, New Brunswick, N. J., assignor, by mesne assignments, to Santee Mills, a corporation of South Carolina
Application August 2, 1940, Serial No. 349,505
12 Claims. (Cl. 229—49)

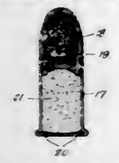


1. A stay strip in the form of a ribbon-like strip, said strip comprising a plurality of webs of unspun long fibers, the fibers of said webs being arranged in thin striated web form in a preponderant fiber direction and said webs being disposed in a plurality of superposed laminations with the preponderant fiber direction of fibers in different superposed webs angularly disposed and with the preponderant fiber direc- of at least one of said webs disposed transversely of the strip within 45° of a line extending directly across the strip, said webs and the fibers of said webs being bonded together to form an integral composite stay strip.

2,315,852
METHOD OF INHIBITING CORROSION
Wallace E. Gordon, Wilmington, Del., and Joseph E. Williamson, Stratford, Conn., assignors to Remington Arms Company, Inc., a corporation of Delaware
No Drawing. Application June 12, 1940, Serial No. 340,088
4 Claims. (Cl. 117—127)

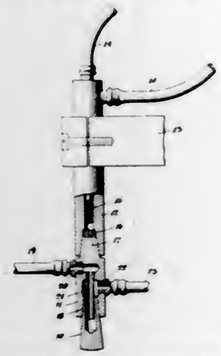
1. The method of imparting corrosion resistance to a ferrous metal body comprising treating said body by subjecting the surface thereof to an aqueous solution consisting of an inorganic nitrite, water and a wetting agent comprising sodium lauryl sulphate, borneol terpene and an alcohol; and thereafter removing the solvent by drying said body.

2,315,853
AMMUNITION
Joseph H. Hodgson, Westport, Conn., assignor to Remington Arms Company, Inc., a corporation of Delaware
Application July 11, 1940, Serial No. 344,938
2 Claims. (Cl. 102—91)



1. A projectile consisting substantially of lead particles and finely divided iron oxide particles, said lead and iron oxide particles being inclosed in a substantially continuous sheath.

2,315,854
WELDING ELECTRODE HOLDER
Edman Francis Holt, Indianapolis, Ind., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware
Application March 28, 1942, Serial No. 436,692
4 Claims. (Cl. 219—4)



1. A pressure exerting welding electrode support comprising, in combination, a hollow tubular holder adapted to be clamped to the arm of a welding machine and conduits leading to and from said holder for circulating cooling fluid therethrough, a hollow adapter supported on the end of said holder and conductively in contact therewith and conduits leading to and from said adapter for circulating cooling fluid therethrough independently of circulation through said holder, said adapter having an electrode supporting portion formed therein to receive a welding electrode in current and heat conducting contact therewith, and thermal insulating material between the hollow portion of said holder and said adapter to retard heat flow therebetween.

3. A welding electrode adapter for supporting a welding electrode in a welding electrode holder comprising a hollow tubular body having a closed end and an open end, said closed end being tapered to fit a tapered socket, said open end having a tapered socket to receive a tapered welding electrode shank and fluid inlet and outlet tubes attached to the body of said adapter and communicating with the hollow interior thereof.

2,315,855
MANUFACTURE OF RUBBER
Louis H. Howland, Cheshire, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application March 16, 1940, Serial No. 324,344
4 Claims. (Cl. 260—763)

1. A process which comprises mixing rubber with a relatively large amount of a rubber reinforcing black, and an aromatic nitroso compound which is incapable of exhibiting tautomerism, heating the mix to a temperature substantially above 250° F. and not above about 370° C., and thereafter milling the mix to a viscosity suitable for milling in further desired compounding ingredients.

2,315,856
MANUFACTURE OF RUBBER
Louis H. Howland, Cheshire, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application April 9, 1940, Serial No. 328,681
8 Claims. (Cl. 260—763)

1. A process which comprises mixing rubber with a relatively large amount of carbon black, and a small amount of a para-quinone oxime compound comprising the group —O—N=A=, wherein N is nitrogen, O is oxygen, and A is any quinonoid nucleus, heating the mix to a temperature substantially above 250° F. and not above about 370° F. to severely flocculate the black, and thereafter masticating the mix to substantially completely disperse the flocculated black.

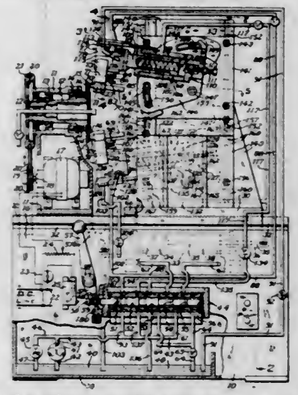
2,315,857
MANUFACTURE OF RUBBER
Louis H. Howland, Cheshire, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application April 24, 1940, Serial No. 331,384
8 Claims. (Cl. 260—763)

1. A process which comprises mixing rubber with a relatively large amount of carbon black, and a small amount of a di(primary) amine, heating the mix to a temperature substantially above 250° F. to severely flocculate the black, and thereafter masticating the mix to substantially completely disperse the flocculated black.

2,315,858
FRUIT COMPOSITIONS AND METHOD OF PRESERVATION
William Redmond Johnston, Bronx, William E. Stokes, Brooklyn, Margaret H. Kennedy, New York, and Charles N. Frey, Scarsdale, N. Y., assignors to Standard Brands Incorporated, New York, N. Y., a corporation of Delaware
No Drawing. Application December 30, 1937, Serial No. 182,494
9 Claims. (Cl. 99—154)

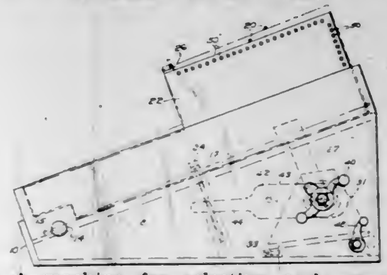
9. A stabilized flavoring material containing an aromatic, flavoring and coloring principle of natural fruit origin, and an organic oxidation inhibitor of the chemical compound type belonging to the group consisting of hydroquinone, toluhydroquinone, catechol and resorcylaldehyde.

2,315,859
LAPPING MACHINE
Herbert S. Indge, Westboro, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application January 24, 1941, Serial No. 375,828
4 Claims. (Cl. 51—67)



3. In a lapping machine having a base, a rotatable work support thereon, a transversely movable slide on said base which is arranged to move in a direction parallel to the axis of said work support, a pair of lapping heads adjustably mounted on said slide each having a reciprocable lapping element which are arranged to engage a work piece at diametrically opposite points, means independently to adjust each of said heads toward and from the axis of the work support, a fluid motor and a control valve therefor on each of said heads rapidly to reciprocate said lapping elements, and independent means to adjust each of said heads angularly and in a plane normal to the axis of said work support so that adjacent angularly disposed faces on a work piece may be simultaneously lapped.

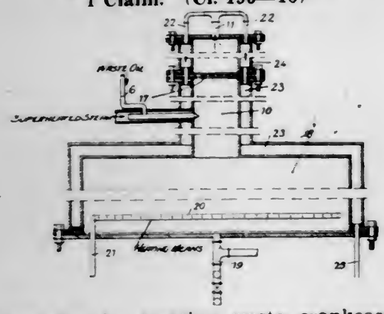
2,315,860
CARD SELECTOR
Walter Leland Jones, Webster Groves, Mo.
Application May 30, 1942, Serial No. 445,147
6 Claims. (Cl. 129—16.1)



1. A machine for selecting and separating cards from a pack of cards, said cards having notches in their edge portions and holes adjacent their edge portions, said machine comprising a support including a declining stationary slide, an elongated card container comprising at least two longitudinal plates fixed in laterally spaced vertical relation to extend along the top of said slide, rear upper portions of said plates being vertically extended to define selector rod supports and provided along their upper edges and rear edges with selector rod retaining aper-

tures, legs fixed to and extending downwardly from said plates below said slide, selector rods passing through certain of said apertures of the container and arranged to retainably enter certain of the holes formed in the edge of some of the cards of a pack of cards disposed in said container between said selector rod supports while passing freely through certain of the notches in the edges of other cards of the pack, a carrier normally substantially horizontally positioned on said support and engaging the legs of the container and tilting means on said support for tilting said carrier forwardly and upwardly so as to tilt said container from a normally depressed position to a forwardly angulated position in which the lower edges of the retained cards are elevated from the surface of said slide and the unretained cards fall out of the pack to rest upon the surface of the slide.

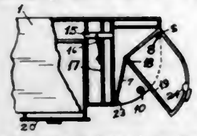
2,315,861
TREATMENT OF CRANKCASE OIL
Jean André Lautrette, Paris, France; vested in the Alien Property Custodian
Application July 19, 1939, Serial No. 285,464
In France September 9, 1939
1 Claim. (Cl. 196—16)



Apparatus for treating waste crankcase oil, comprising an enlarged vaporizing chamber, an atomizer in communication with said chamber, a conduit for introducing a stream of superheated gaseous fluid under pressure into said atomizer, a second conduit for introducing a stream of waste crankcase oil into said atomizer, whereby said oil is subjected to dynamic and thermal treatments therein, an annular insulating jacket surrounding said vaporizing chamber, baffle means in the upper portion of said vaporizing chamber for separating liquids from vapors, an outlet for the vaporized lighter constituents in the upper portion of said chamber, said outlet communicating with said annular jacket whereby the vaporized lighter constituents act as an insulating medium between the vaporizing chamber and the atmosphere and are pre-cooled therein, means in the lower portion of said vaporizing chamber for heating the unvaporized heavier constituents, and means for condensing said vaporized lighter constituents.

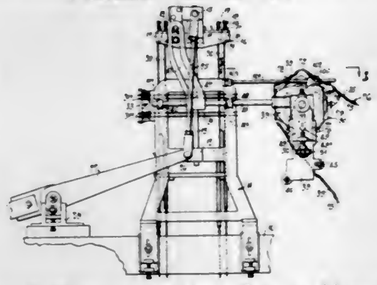
2,315,862
TABLE CABINET
William H. Ledbetter and Ila Ledbetter, Muskegon, Mich.
Application March 20, 1940, Serial No. 325,020
1 Claim. (Cl. 45—95)

In a table cabinet, the combination comprising a cabinet structure having a plurality of swingable drawers in vertical formation, each drawer being swingable outward of the cabinet structure from the end thereof and to closed position within the said end of the cabinet structure and around a vertically disposed pivot rod at its back corner adjacent the end of the cabinet, a separator between each pair of drawers and having



mounted thereon a ball bearing having its axis in inclined relation to the top of the separator whereby a fractional number of the balls of the ball bearing will be engaged by the bottom of the drawer above the separator.

2,315,863
PATTERN MECHANISM FOR LOOMS
John O. Lee and Allen C. Campfield, Swannanoa, N. C.
Application September 16, 1941, Serial No. 411,052
4 Claims. (Cl. 139—317)

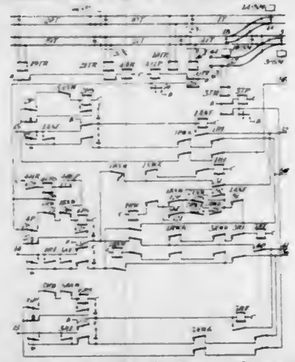


1. In a pattern means for a Jacquard loom having a plurality of pattern cards secured to each other, reading fingers for reading the pattern cards to control the loom, an elongated member having rounded ends and a plane surface along one of its sides and provided with perforations therein in alinement with said reading fingers, rotary means disposed at each end of the plane surface for moving the cards one at a time into parallel relation on to said plane surface, each of said cards having a hole in each end thereof, radially movable plungers in each of said rotary members, spring means normally urging the plungers outwardly, each of said plungers having collars thereon for holding the cards away from the rotary means, means for moving the plungers radially outwardly to penetrate said holes to advance the cards one at a time to a position which is parallel but in spaced relation to the plane surface, means for permitting said plungers to move radially inwardly to allow said advanced card to move against said plane surface, and means for moving said member having a plane surface toward said fingers to effect the reading operation, the rounded ends on the elongated member serving as cams to move the cards off of said plungers.

2,315,864
RAILWAY TRAFFIC CONTROLLING APPARATUS
Lloyd V. Lewis, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application December 6, 1941, Serial No. 421,865
27 Claims. (Cl. 246—134)

1. In an interlocking control system, a track

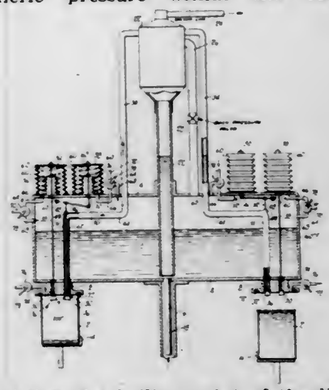
layout including track switches adapted to form different traffic routes, a route button for each route end, a normal and a reverse route relay for each track switch, a route circuit network of conductor portions arranged to provide energizing circuits for the route relays and to be connected end to end over front contacts of such route relays to form route circuits, there being one such circuit for each available route through the track layout, each route circuit comprising two conductors extending from contacts associated with the route button for one end to contacts associated with the route button for the other end of the corresponding route so arranged that the route relays for the switches of any route which face in opposite directions are energized over different conductors, means normally responsive to the momentary operation of the route button for the entrance end of a desired route to connect a source of current to one con-



ductor of the route circuit for such route at that end thereby successively energizing one route relay for each trailed switch in such route, means for maintaining said source of current connected to said one conductor until the route is cancelled, means responsive to the subsequent momentary operation of the route button for the exit end of the desired route to extend the connection of said source of current to the other conductor of the same route circuit at that end thereby successively energizing one route relay for each facing switch of said route, means controlled by one of the route relays energized over said other conductor for maintaining the connection between the two conductors of the energized route circuit until said route is cancelled, and means controlled by the energized route relays for operating the track switches to corresponding normal or reverse positions as required for the desired route.

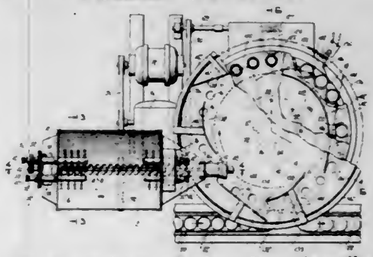
2,315,865
MACHINE FOR AND METHOD OF FILLING CONTAINERS
Douglas M. McBean, Rochester, N. Y., assignor to Beech-Nut Packing Company, Canajoharie, N. Y., a corporation of New York
Application March 6, 1940, Serial No. 322,449
5 Claims. (Cl. 226—116)

2. The method of filling a container with liquid of the class described which comprises supplying steam into the interior of the container to heat the wall thereof, permitting the steam to condense on the inner side of the wall of the container, while the container is in such heated condition, closing the open end of the container, reducing the atmospheric pressure within the container to a point to cause the moisture therein to vaporize and to be exhausted with the air from the container, when this has been effected admitting the liquid into the top of the container while maintaining the atmospheric pressure within the container



slightly below the boiling point of the liquid so as to cause vapor to rise from the liquid and be exhausted from the container, and when the container has been filled with the liquid shutting off the admission of liquid and the exhaust.

2,315,866
FILLING MACHINE
Douglas M. McBean, Rochester, N. Y., assignor to Beech-Nut Packing Company, Canajoharie, N. Y., a corporation of New York
Application March 19, 1940, Serial No. 324,845
9 Claims. (Cl. 226—96)

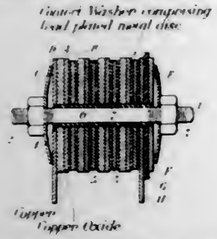


1. In a machine of the class described, the combination of a table adapted to be rotated about a vertical axis, a plurality of pockets carried by the table having their upper and lower ends open and their upper ends substantially flush with the top of the table, said pockets being arranged near the periphery of the table and spaced apart, means for rotating the table, means for feeding material on to the top of the table at a point located in the path of the pockets, and means for directing the material on the table back and forth over the tops of the pockets during the rotation of the table.

2,315,867
ELECTRICAL RECTIFIER
John D. McCluer, Charlotte, N. C., assignor to The Union Switch and Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application August 8, 1941, Serial No. 406,019
4 Claims. (Cl. 175—366)

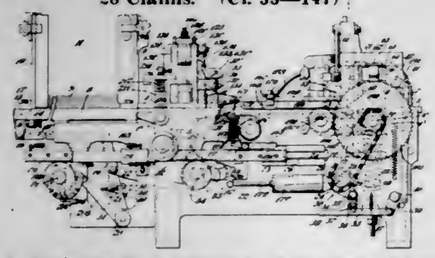
4. A contact member for making contact with the oxide surface of a copper oxide rectifier washer in a rectifier stack, said contact member comprising a disc of iron, steel or other metal

having the same inside diameter as said rectifier washer and a slightly smaller outside diameter than the rectifier washer, said disc being plated



on both sides with lead which covers all of the contiguous side but a small annular area adjacent the inner edge of the disc.

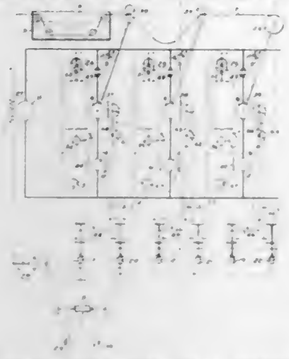
2,315,868
GRADING MACHINE
Arthur G. B. Metcalf, Milton, Mass., assignor to North American Holding Corporation, Syracuse, N. Y., a corporation of New York
Application November 23, 1940, Serial No. 366,853
28 Claims. (Cl. 33—147)



1. In a grading machine of the type having measuring means to determine the thickness grades of successive blanks of stock and grading means adapted to be adjusted in accordance with the thickness grades of the blanks as determined by the measuring means, the combination of setting mechanism responsive to the measuring means and transmission mechanism for adjusting the grading means, the transmission mechanism being controlled by the setting mechanism but actuated independently thereof, said setting mechanism including a controller member to govern the extent of movement of the transmission mechanism and grading means, and controller operating mechanism adapted to impart to the controller member adjustments proportional in extent to the various measuring positions of the measuring means.

2,315,869
CONTROL SYSTEM AND METHOD
Terryl B. Montgomery, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application November 21, 1941, Serial No. 419,890
10 Claims. (Cl. 172—239)

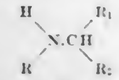
8. In a system for maintaining relatively different values of tension in predetermined parts of a moving strip of material, a plurality of dynamo-electric machines, means for mechanically connecting one of said dynamo-electric machines to one said predetermined parts of said strip, means for connecting another of said dynamo-electric machines to another of said predetermined parts of said strip, means for connecting said dynamo-electric machines across a voltage source, means for varying said voltage source to vary the speed of said strip, means for maintaining the counter E. M. F. of said dynamo-electric machines equal to the voltage of said source independently of load current change, said means comprising a plurality of auxiliary dynamo-electric machines, one of which is connected in series with said one of said dynamo-electric machines and another of which is connected in series with said another of said



dynamo-electric machines, said means further comprising means for varying the excitation of said auxiliary dynamo-electric machines in accordance with the current therethrough and the voltage thereacross, and means operatively responsive to operation of said voltage varying means for varying the excitation of said auxiliary dynamo-electric machines to compensate said dynamo-electric machines for inertia involved in varying the speed of said strip.

2,315,870
ISOALKYLAMINE SALTS OF ORGANIC SULPHONIC OR CARBOXYLIC ACIDS
Friedrich Nadler, Cologne-Mulheim, Richard Wegler, Leverkusen-Schlebusch, and Otto Bayer, Leverkusen-I. G. Werk, Germany, assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application March 2, 1940, Serial No. 322,014. In Germany November 5, 1938
3 Claims. (Cl. 260—208)

1. Salts formed from an organic dyestuff containing at least one acid salt-forming group and from an isoalkylamine of the following constitution

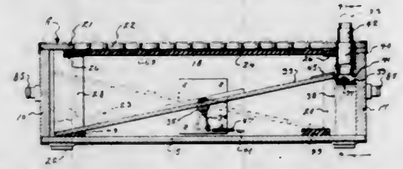


wherein R stands for a member of the group consisting of hydrogen and alkyl, and R_1 and R_2 each stand for a member of the group consisting of alkyl and cycloalkyl, the number of the carbon atoms present in the radicals defined by R, R_1 and R_2 being at least 8, said salts being insoluble or difficultly soluble in water, but soluble in organic solvents.

2,315,871
PROCESS FOR TREATING MONOHALIDES
George G. Oberfell and Frederick E. Frey, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware
Application April 24, 1941, Serial No. 390,208
17 Claims. (Cl. 260—658)

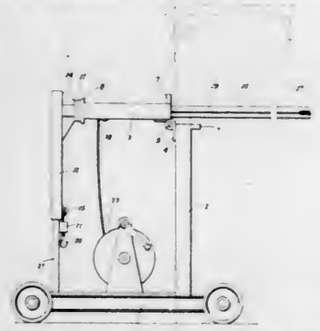
1. A process for the production of primary alkyl monohalides from isomeric alkyl monohalides of the same molecular weight, which comprises subjecting a material comprising nonprimary alkyl monohalides to conditions of elevated temperature and superatmospheric pressure effecting substantial intramolecular rearrangement of said nonprimary alkyl monohalides to a primary alkyl monohalide.

2,315,872
GAME APPARATUS
Carl M. Peshal, Milwaukee, Wis., assignor of one-half to Bolus S. Wisniewski, Milwaukee, Wis.
Application August 19, 1940, Serial No. 353,261
1 Claim. (Cl. 273—144)



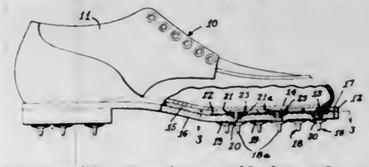
In a game apparatus, a hollow body, an agitating board rockably mounted in said body for supporting a group of counters, manual means for rocking the board to shift the counters back and forth, means for selecting one counter at a time from the group of counters and for delivering the selected counter exteriorly of the box upon each movement of the board, said means including an inclined trough on one end of the board for receiving counters, a stationary guard having a channel for receiving counters from the trough when the end of the board carrying the trough is in a raised position, a vertically disposed guide sleeve extending through the table having a counter receiving opening in alinement with the channel, and a cylindrical counter receiving member slidably mounted in the guide normally closing said opening and adapted to extend below the opening for receiving a counter when the end of the board carrying the trough is in a depressed condition, and means for operatively connecting the cylindrical counter selector member with the board.

2,315,873
PORTABLE FOLDING HOIST
Philip Richards, Fresno, Calif.
Application May 12, 1941, Serial No. 393,006
2 Claims. (Cl. 254—143)



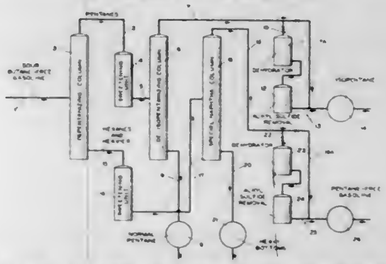
1. A hoist comprising a relatively fixed upstanding mast unit, an extension mast slidably mounted on said unit for longitudinal movement relative thereto, a winch, a hoist cable extending from the winch to and having a portion normally depending from the upper end of the extension mast, means guiding the cable between the winch and extension mast so that if said extension mast is free for vertical movement and said cable portion is held against upward movement the extension mast will be raised by a pull on the cable at the winch and means to prevent movement of the extension mast and to releasably hold the same in any extended position; said last named means comprising a longitudinal rib projecting from one side of the extension mast and having a row of holes therethrough, ears fixed on the adjacent side of the fixed mast unit and straddling the rib and a removable pin projecting through the ears and any one of said holes.

2,315,874
GOLF SHOE
Isadore Sabel, Philadelphia, Pa., and Laurie S. Macdonald, Brockton, Mass.
Application April 25, 1939, Serial No. 269,868
3 Claims. (Cl. 36—2.5)



1. The combination in a golf shoe of an outer sole including a forepart, a plurality of calks on said forepart, each calk having a stem extending upwardly through the sole, certain of said calks being positioned adjacent the marginal edges of the forepart and others of said calks being positioned near the center of the forepart, fastening elements at the inside of the outersole and cooperating with the stems to hold the calks on the outer sole and a relatively thin flexible metallic plate on the inside of the sole overlying all of the calks, the fastening elements for the calks near the center of the forepart being attached to the plate, the remaining fastening elements being unattached to said plate.

2,315,875
PROCESS FOR TREATING HYDROCARBONS
Walter A. Schulze and Lloyd C. Morris, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware
Application October 28, 1941, Serial No. 416,882
19 Claims. (Cl. 196—24)



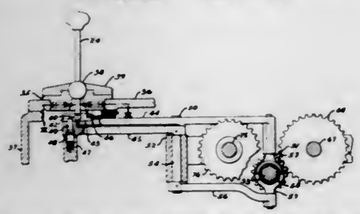
2. The process of producing an isopentane fraction which comprises fractionating sour gasoline which is substantially butane- and hydrogen sulfide-free, to recover a fraction comprising essentially pentanes and containing lower mercaptans and methyl sulfide, sweetening said frac-

tion to convert said mercaptans to disulfides, fractionating said sweetened fraction and recovering a normal pentane fraction containing said disulfides and an isopentane fraction containing said methyl sulfide, and treating said isopentane fraction to remove said methyl sulfide therefrom and form substantially pure isopentane.

2,315,876
CASTING OF METAL ALLOYS
Cecil Spencer Sivil, Roselle, Edward O. Liebig, North Arlington, and Robert St. Clair Low, Newark, N. J., assignors to Baker & Company, Inc., Newark, N. J., a corporation of New Jersey
No Drawing. Application December 19, 1941, Serial No. 423,602
3 Claims. (Cl. 75—122)

1. The method of casting alloys, comprising mixing finely divided powders of metals in predetermined proportional relationship, heating the resultant powder mixture at an elevated temperature to produce a friable sinter cake, whereby initial diffusion of the powdered metals is obtained, comminuting said sinter cake, compressing said comminuted sinter cake into a plurality of shaped units of predetermined weight, subjecting said compressed units to a heat treatment at an elevated temperature to produce a coherent bonded mass of diffusion alloy, melting at least one of said units to molten alloy, and casting said molten alloy into a mold of predetermined configuration.

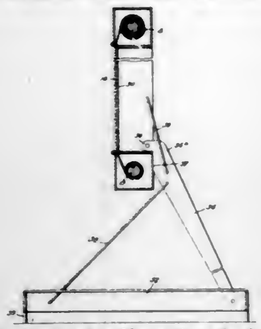
2,315,877
MACHINE TOOL
Willis Jay Snyder, Defiance, Ohio, assignor to Defiance Machine Works, Inc., Defiance, Ohio, a corporation of Ohio
Application June 9, 1941, Serial No. 397,227
5 Claims. (Cl. 77—3)



1. A machine tool comprising a work holder, a tool holder, a source of power, a transmission including a manually operable shifting member having at least three operating positions, and neutral positions through which it is movable while moving from any of its operating positions to another, a separate driving mechanism corresponding to each operating position of the shifting member, which is brought, by movement of the shifting member to that position, into driven relation with said source of power, but is idle while the shifting member is in a neutral position, and a separate member driven by each of said driving mechanisms, said driven members being each adapted to produce a different relative movement of said work holder and said tool holder.

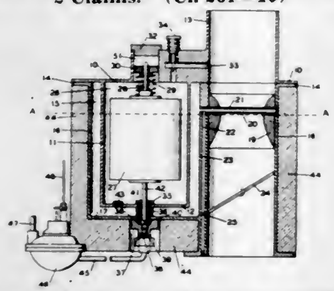
2,315,878
ROAD SIGN
Raymond W. Stacey and Theodore M. Blomquist, Menlo Park, Calif.
Application June 9, 1941, Serial No. 397,316
2 Claims. (Cl. 40—86)

1. In a road sign of the character described, a frame adapted for mounting a double reel and web therein, a supporting base, standards pivoted at one end thereof to the base and at an opposite end thereof to said frame and provided at the last-named end with abutment shoul-



ders against which an adjacent end of said frame abuts when the sign is set up for use, and brace members pivotally connected to said base and said standards.

2,315,879
CHARGE FORMER
Theodore A. St. Clair, Pontiac, Mich., assignor to Phillips Petroleum Company, a corporation of Delaware
Application August 4, 1941, Serial No. 405,437
2 Claims. (Cl. 261—10)

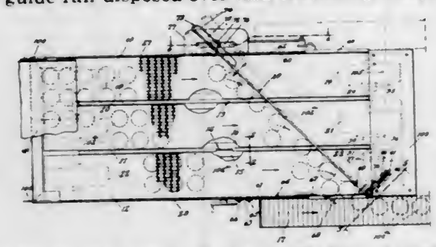


1. Charge-forming apparatus for utilizing hydrocarbon fuels, certain components of which possess a superatmospheric vapor pressure comprising in combination, a fuel reservoir having a float controlled inlet, a separate chamber substantially surrounding the side and bottom walls of the fuel reservoir in heat exchange relationship therewith, said chamber having an outlet at an intermediate point to form a closed compartment in the upper portion thereof, a metering orifice in the bottom wall of the reservoir, an air passage including a Venturi tube, a fuel discharge conduit extending from said outlet to the Venturi tube to subject the chamber to low pressure and cause vaporization of the high pressure components therein, the cooling effect thereby produced being imparted to the fuel reservoir to cool and prevent vaporization of fuel therein.

2,315,880
CONVEYER FEEDING SYSTEM
John W. Stiles, New York, N. Y.
Application April 14, 1942, Serial No. 438,965
8 Claims. (Cl. 198—32)

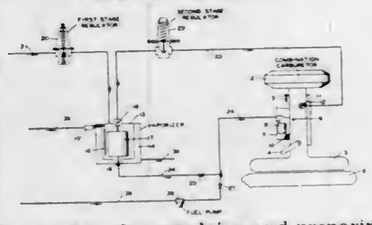
1. In an apparatus for feeding a main conveyer belt traveling at a predetermined speed, a plurality of parallel adjacent feed belts, unitary loading means extending transversely over the forward portions of all of said feed belts whereby

they may all be simultaneously loaded, one of the end feed belts having its outer lateral edge adjacent said main belt, an adjustable discharge gate adjacent the outer edge of said end belt, means to actuate said belts at different predetermined speeds, the speed of said end feed belt being greatest and that of the others decreasing progressively towards the opposite end belt, and a guide rail disposed over and extending oblique-



ly across said feed belts forwardly from a predetermined point behind said gate thereby forming a discharge opening, said gate being adjustably movable with respect to the rail to vary the size of said discharge opening, whereby units of predetermined sizes traveling on said feed belts will be deflected by said guide rail from the slower to the faster moving belts and towards said opening for discharge upon said main conveyer belt.

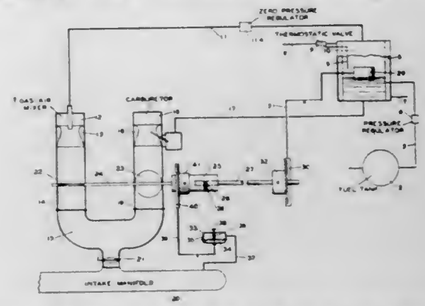
2,315,881
HIGHER VAPOR PRESSURE FUEL SYSTEM AND COMBINATION CARBURETOR
Rosswell W. Thomas, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application September 9, 1941, Serial No. 410,224
7 Claims. (Cl. 62—1)



1. In a system for supplying and preparing for use in an internal combustion engine a mixture of hydrocarbon fuels, some of which have higher vapor pressures at ordinary atmospheric temperatures than gasoline, a carburetor, a chamber for separating said mixture into liquid and gaseous phases, separate passages for conveying said liquid and gaseous phases to the carburetor, means in said chamber for automatically controlling the relative flow of said liquid and gaseous phases through said passages, means for effecting a primary pressure reduction on the mixture entering said chamber, and means for further reducing the pressure of the gaseous phase flowing from the chamber to the carburetor.

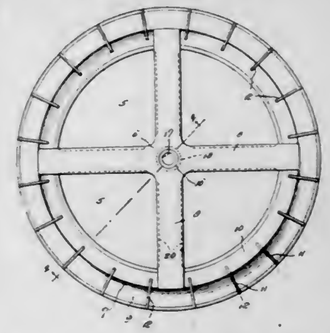
2,315,882
ANTIKNOCK CONTROL SYSTEM
Harold M. Trimble and Rhea R. Couch, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware
Application September 3, 1941, Serial No. 409,426
9 Claims. (Cl. 123—121)

1. In an internal combustion fuel supply system adapted for handling a multi-phase fuel including a normally gaseous phase and a normally liquid phase, fuel air inlets for said liquid and gaseous phases, separate conduits for the liquid and gaseous phases leading to the fuel air inlets, regulative means responsive to the proportional



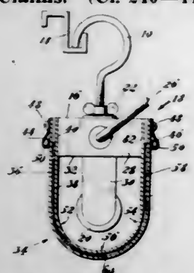
supply of the liquid phase relative to the gaseous phase to control the flow of the respective liquid and gaseous phases to the fuel air inlets, and means for increasing the proportional flow of gaseous phase to liquid phase responsive to pressure increase in the intake manifold.

2,315,883
TRACTION WHEEL
Johan R. Uddenborg, Chicago, Ill.
Application March 2, 1942, Serial No. 433,081
3 Claims. (Cl. 97—215)



1. A traction wheel comprising side members formed of similar dished disks of spring metal cut away to provide central portions and rim portions connected by uniformly spaced radial spokes, said central portions having aligned openings, said rim portions having outwardly converging outer parts and inwardly converging inner parts contacting at their free edges and coacting to provide a hollow rim compressible to temporarily reduce the major width thereof, the outer parts of said rim members being provided with aligned transverse slots at regular intervals, and transverse cultivating and traction blades inserted in said slots, said blades being centrally recessed at the inner edges thereof to provide the blades with inwardly projecting portions at opposite sides of said recesses adapted to extend inwardly beyond the central portion of the rim of greatest width, said recesses being undercut so that the blades will be retained in place upon return of the rim to normal width after being depressed for assembly of the blades thereof.

2,315,884
LIGHTING EQUIPMENT
Van L. Vendope, New York, N. Y.
Application September 25, 1942, Serial No. 459,631
5 Claims. (Cl. 240—11.4)



1. In a lighting equipment for a light source, a housing for the light source, an enveloping transparent transversely elongated guard or hood for the light source and comprising an outer member and an inner member spaced therefrom to form a track therebetween around the light source, said hood being substantially U-shaped and open ended, the inner member being shorter than the outer member to space the ends of the inner member inwardly from the ends of the outer member and a translucent shade held in the track for movement therein relative to the light source to selectively slidably position the shade in the guard or hood, said shade of dimension along the periphery of the guard or hood less than the corresponding dimension of the guard or hood and conformable to the shape of the guard or hood upon selectively positioning the shade therein and of length such that the ends of the shade are accessible from the inside of the hood or guard at a space between an end of the inner member and a corresponding end of an outer member.

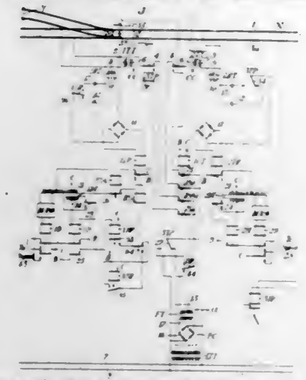
2,315,885
METHOD OF MINIMIZING BREAKAGE OF GLASS DURING THE PRODUCTION OF SURFACED CONTINUOUS STRIPS OF GLASS
Frederic Barnes Waldron, Prescot, and James Harris Griffin, St. Helens, England, assignors to Pilkington Brothers Limited, Liverpool, England, a British company
Application March 21, 1942, Serial No. 435,738
In Great Britain April 24, 1941
4 Claims. (Cl. 51—283)



1. The method of minimizing breakage of glass during the production of a continuous strip of glass comprising the steps of making a shallow depression in the surface of the glass in the area of glass strained by a fault and then grinding both surfaces of the strip simultaneously, the depth of the depression being slightly greater than the thickness of glass removed by the grinding.

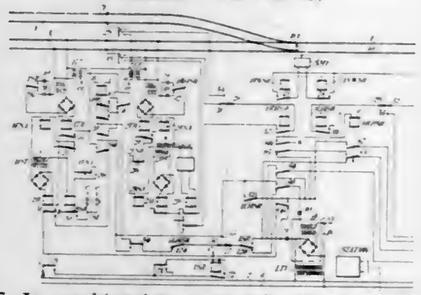
2,315,886
RAILWAY TRAFFIC CONTROLLING APPARATUS
Herbert A. Wallace, Edgewood, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application September 17, 1941, Serial No. 411,160
8 Claims. (Cl. 246—33)

1. In combination, a stretch of railway track including a track section, means for applying at opposite ends of said section differently characterized energies one of which has the characteristics effective for controlling train-carried apparatus, two track relays one at each end of said section, means for conditioning each of said relays to respond only to the characteristics of the energy applied at the opposite end of said section, means responsive to movement of a



train on said stretch for depriving one end of said section of energy there normally applied, means effective in the event that said section is deprived of said one energy to shift the energy applied at the opposite end from the other to the said one form of energy, and means also effective for causing said conditioning means to condition said relays to respond only to energy of the characteristics applied to the opposite end of the section.

2,315,887
RAILWAY TRAFFIC CONTROLLING APPARATUS
Herbert A. Wallace, Edgewood, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application September 17, 1941, Serial No. 411,162
7 Claims. (Cl. 246—3)



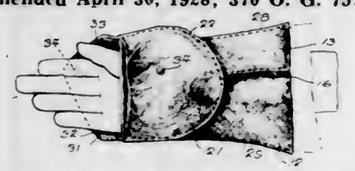
7. In combination, a stretch of railway track divided into a plurality of successive adjoining track sections, means for supplying two distinctive track circuit currents, one for each direction of traffic, to each of said sections, one of said track circuit currents having preselected characteristics adapted to effect control over train-carried apparatus, signals governing traffic in opposite directions through said stretch, means controlled from a remote point for conditioning said signals to permit a train movement in one direction through said stretch while preventing opposing movements, means controlled by said track circuit currents for controlling said signals, when conditioned for a train movement, in accordance with traffic conditions on said stretch, and means also controlled by said track circuit currents for causing track circuit current of said preselected characteristics to be supplied to the sections for transmission through the track rails toward a train on the stretch irrespective of the direction of the train movement.

2,315,888
GLOVE
Carroll G. Wells, Washington, D. C.
Application November 10, 1941, Serial No. 418,440
2 Claims. (Cl. 2—158)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



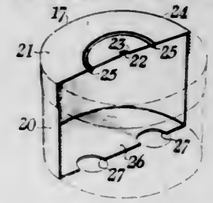
1. A glove comprising a back portion, a palm portion joined thereto, said palm portion having an opening therein lying in a longitudinal plane parallel with the edges of said palm portion, flaps joined to the glove along the periphery of said opening, one of said flaps having a female fastener positioned on the lower end thereof, the other of said flaps having a male fastener positioned on the lower end thereof, said fasteners adapted to coact in such a manner that the flaps will normally tend to keep said opening closed while allowing the projection of the fore or index finger of the wearer.

2,315,889
MITTEN
Carroll G. Wells, Washington, D. C.
Application July 28, 1942, Serial No. 452,601
2 Claims. (Cl. 2—158)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



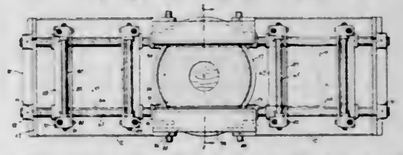
1. As an art of manufacture, a mitten comprising, in general, a front side, a back side and a thumb portion; the front side consisting of a palm section the full width of the mitten, a thumb, and a wrist section extending rearwardly from the palm to the end of the mitten; the back side of the mitten consisting of a back hand portion corresponding in shape to the palm portion of the front side and united therewith by a line of stitching extending completely around the palm from a point adjacent the base of the thumb to a point directly opposite the thumb base; said back hand portion terminating at the rear in a straight edge extending across the mitten from the opposite ends of said stitching, and arranged to permit folding against the front wrist to expose the hand of the wearer, and a wrist portion the full width of the mitten and having its edges united with the opposite edges of the front side of the mitten by opposite lines of stitching; the wrist portion including a flap extending forwardly over the back surface of the back hand portion, said flap being pointed and having a fastener adjacent the point; the arrangement being such that the flap of the rear wrist portion extends over the back of the hand and conceals the hand to the base of the fingers.

2,315,890
DETERGENT DISPENSING DEVICE
Glenn M. Bader, Rochester, N. Y.
Original application December 8, 1939, Serial No. 308,266. Divided and this application June 10, 1940, Serial No. 339,834
2 Claims. (Cl. 141—9)



1. A dispensing unit for housing and controlling the discharge of alkaline detergent material, said unit being adapted to be subjected to the moisture within a washing machine, which comprises a container having a small opening in the top thereof, the rim of said opening being raised above the surface of said top, whereby to limit the amount of moisture entering said container to contact and promote disintegration of the cake therein to form a concentrated solution, and dispensing apertures in said container below the top thereof, whereby to discharge said concentrated solution to said washing solution.

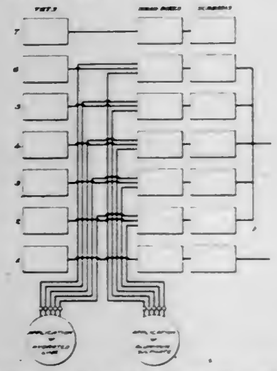
2,315,891
APPARATUS FOR RESURFACING
John Y. Blazek, Bedford, and Gilbert E. Sears and Vernon R. Roy, Cleveland, Ohio, assignors to Lempco Products, Inc., Bedford, Ohio, a corporation of Ohio
Application January 15, 1941, Serial No. 374,508
10 Claims. (Cl. 51—128)



3. The combination of a base, an abrasive wheel rotatably carried thereby and presenting a horizontally disposed upper radial surface adapted for abrading an article, means for supplying coolant to said surface by passing coolant through said wheel, a pair of parallel bars disposed over said wheel for guiding an article which is in contact with said surface, a plurality of rollers disposed to one side of said surface and a plurality of rollers disposed to the other side of said surface whereby an article to be abraded can be passed from one of said plurality of

rollers between said bars and in contact with said surface and finally onto the other of said plurality of rollers.

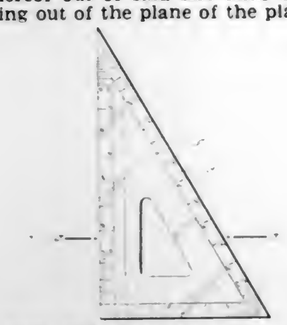
2,315,892
PROCESS OF MANUFACTURING PAPER AND BOARD
Levis M. Booth, deceased, late of Plainfield, N. J., by Alice Lippincott Booth, executrix, Plainfield, N. J.
Application April 6, 1939, Serial No. 266,382
14 Claims. (Cl. 92—21)



14. The method of making paper board containing at least three inner filler plies on a multicylinder machine utilizing one given main filler stock stream, to eliminate the tendency to channelling caused by drainage of water from the inner filler plies to the outer plies, which comprises, dividing said main filler stock stream into a plurality of divisional filler ply streams adding to said divisional streams respectively different quantities of a first reagent, adding to said divisional streams respectively substantially reacting quantities of a second reagent, said reagents each being selected from groups of chemicals which mutually react to form a precipitate of a gelatinous characteristic which is insoluble and which decreases the water drainage rate from said filler stock, forming a central filler ply from said divisional filler stock stream having a relatively high content of said reagents and forming filler plies outside the central filler ply from respective divisional stock streams whose content of said reagents decreases with the number of plies a given intermediate ply outside said central ply is spaced from the central filler ply, and then consolidating said plies into a single sheet of board with said central filler ply in the center thereof and said outer filler plies arranged outwardly therefrom.

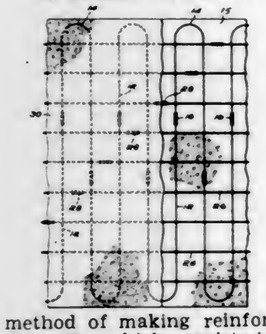
2,315,893
DRAFTSMAN'S IMPLEMENT
Eudell Chapin, Omaha, Nebr.
Application February 11, 1942, Serial No. 430,456
2 Claims. (Cl. 33—104)

1. An instrument of the class described comprising a triangular plate having a continuous edge slot extending around the same in the plane of the plate, and a similarly shaped scale bearing frame of one-piece skeleton form and flexible material slidably fitting in said slot with the outer side edges thereof substantially flush with the outer side edges of the plate, said frame being slidable relative to said plate to retract one side thereof into the slot and project the other sides thereof out of said slot clear of the same for flexing out of the plane of the plate whereby



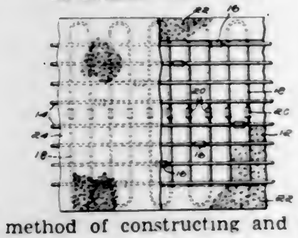
the retracted side may be slid out of the slot and the frame thereby detached from the plate.

2,315,894
CONCRETE CONSTRUCTION
John M. Crom, Jackson Heights, N. Y.
Application October 16, 1940, Serial No. 361,404
19 Claims. (Cl. 72—13)



12. A method of making reinforced concrete tanks and the like which consists in providing a horizontally endless form and relatively spaced reinforcing rods adjacent to but spaced from the outer face of the form and extending vertically thereof, placing concrete against the form and in bonding engagement with the end portions of the rods, preventing permanent bonding of the concrete to the intermediate portions of the rods, tensioning the rods at their intermediate portions after the concrete has set whereby placing the concrete under compression vertically, and placing additional concrete over and bonded to the first-named concrete and the intermediate portions of the rods.

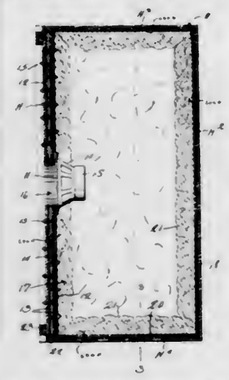
2,315,895
CONCRETE CONSTRUCTION
John M. Crom, Jackson Heights, N. Y.
Application September 11, 1941, Serial No. 410,417
12 Claims. (Cl. 72—13)



6. A method of constructing and reinforcing

cylindrical concrete structures under compression, which consists in providing a form and a plurality of annular reinforcing rods thereabout each embodying a turnbuckle therein, coating certain of the rods with a material preventing bonding of the structure thereto but leaving a portion of each coated rod remote from the turnbuckle uncoated, forming a cylindrical monolithic structure over the rods and in bonding engagement with the uncoated portions of the rods but not bonded to the turnbuckles and coated portions, tightening the turnbuckles to place the structure under compression, and thereafter applying further cementitious composition to the turnbuckles to bond them to the concrete structure.

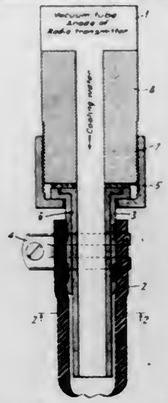
2,315,896
RADIO SPEAKER UNIT SUPPORT
Ellsworth O. Dumas, Scottville, Mich.
Application July 5, 1941, Serial No. 401,251
6 Claims. (Cl. 181—31)



4. A radio loud speaker unit support comprising a housing, one wall of which constitutes a baffle board having a central opening over which the unit is secured, said baffle wall being of laminated construction and including a central layer of sheet lead and inner and outer layers of wood, securing elements extending from said lead layer inwardly to and connected with the inner wood layer, securing elements extending from the lead layer outwardly to and secured to the outer wood layer, the housing having top, bottom, side and back walls, a sheet of lead covering each of said last mentioned walls, and a relatively thick layer of fibrous sound absorbing material covering the inner wall surfaces of the housing.

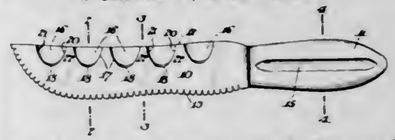
2,315,897
REPLACEABLE FITTING
Clarence W. Hansell, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application April 12, 1939, Serial No. 267,406
1 Claim. (Cl. 204—197)

A replaceable fitting for apparatus subjected to electrolysis in the normal operation thereof comprising a metallic flanged-shaped member for terminating the ends of a fluid conducting member, and a second metallic flanged-shaped member telescoped within said first metallic member, the length of said second member being greater than said first member to prevent electrolysis forming on said first mentioned member, and a ring-like compressible gasket member covering the flanged ends of both the first and second members to prevent leakage of fluid and for



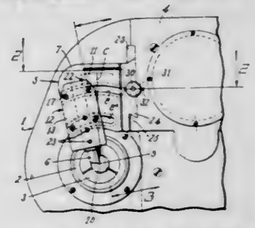
maintaining both flange-shaped members in good electrical contact.

2,315,898
KNIFE
James E. Krilow, Atlantic City, N. J.
Application April 3, 1941, Serial No. 386,594
2 Claims. (Cl. 30—351)



1. A knife consisting of a blade formed by a relatively wide back and sides tapering to a sharp cutting edge, said blade having a plurality of substantially semi-circular recesses therein to receive material pressed out of the product being cut, said recesses opening through said back and longitudinally spaced to form a plurality of plane surfaces respectively between pairs of said recesses, said surfaces increasing in width from said back whereby material leaving said recesses is smoothed into the face of said product.

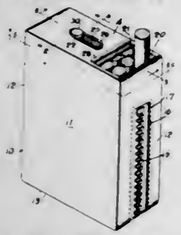
2,315,899
MACHINE TOOL
Raymond L. Kuehn, Hartford, Conn., assignor to The Billings & Spencer Company, a corporation of Connecticut
Application July 14, 1941, Serial No. 402,306
20 Claims. (Cl. 164—36)



18. In a tool supporting and rake adjusting mechanism, a tool supporting plate having arcuate guiding means thereon struck about an axis beyond one edge of said plate, a tool holder adjustably positioned on one face of said plate in said guiding means and having a tool projecting

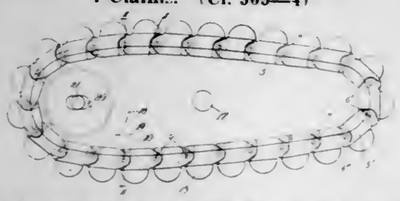
beyond said edge and having its tip disposed in said axis in all positions of adjustment of said tool in said arcuate guiding means, a slide adjustable relative to a support and carrying said plate and disposed perpendicularly relative to said tool, and means for adjusting said slide and plate relative to a support including a threaded adjusting member carried on said slide perpendicularly relative to said tool.

2,315,900
CIGARETTE CASE
Robert N. Lupfer, Springfield, Ohio, assignor to The Springfield Leather Products Co., Springfield, Ohio, a corporation of Ohio
Application September 27, 1940, Serial No. 358,678
2 Claims. (Cl. 206—41)



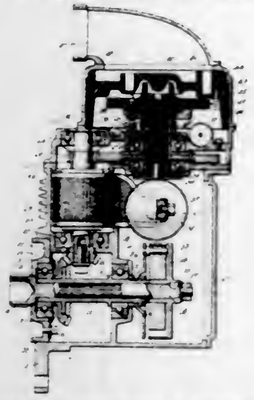
1. A cigarette dispensing case made of flexible material and shaped to receive and hold a package of cigarettes snugly therein, said case having a continuous slide fastener opening in one end and in the adjacent portions of the side walls to permit insertion of a package of cigarettes, the other end of the case being provided with a double end wall having a dispensing opening located adjacent to one side of the case, the inner wall portion of said double end wall terminating at its opposite edges in a pair of guide rails, a closure plate of relatively stiff material confined in the case in face contact with the inner surface of said inner wall portion, said plate being guided in the lateral direction by said rails, said closure plate having an operating element projecting through the end wall and accessible on the outside of the case, and a flat reenforcing member carried by the side wall adjacent to the dispensing opening and substantially the same width as the said side wall.

2,315,901
ENDLESS TRACK ELEMENT FOR AIRCRAFT AND LAND VEHICLES
Owen Finlay Maclaren, West Drayton, England, assignor to Maclaren Undercarriage Company Limited, London, England
Application October 27, 1941, Serial No. 416,750
In Great Britain July 16, 1940
7 Claim... (Cl. 305—4)



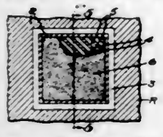
1. An endless track running element comprising a body of elongated form having side walls and edge flanges directed outwardly from the walls to present laterally at each side of the body inner and outer substantially horizontal bearing surfaces, a track band rotatable about the body and constituted by pivotally connected links, and rotatable bearing members engaging said inner and outer bearing surfaces and carried by said track band.

2,315,902
MAGNETO CONSTRUCTION
Edward B. Nowosielski, Bloomfield, N. J., assignor to Edison-Splitdorf Corporation, West Orange, N. J., a corporation of New Jersey
Application October 29, 1940, Serial No. 363,315
7 Claims. (Cl. 171—209)



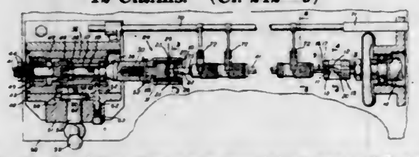
1. In a magneto including a housing: the combination of a pair of concentric shafts journalled to said housing, the inner one of said shafts having bearing surfaces engaging interior surfaces of the outer one of said shafts and adapted at one end for connection with an engine; a rotor structure journalled to said housing and drivingly connected to said outer shaft; and an automatically controlled timing device located exteriorly of said outer shaft and connected between the same and said inner shaft.

2,315,903
PROCESS OF ENGRAVING
John J. Ormond, Boston, Mass., assignor of two-thirds to Joseph D. Ramsey, Boston, Mass.
Application June 30, 1941, Serial No. 400,426
8 Claims. (Cl. 41—43)



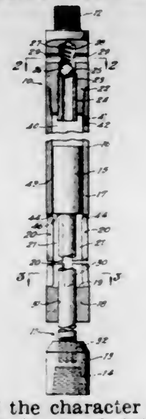
1. That improvement in methods of engraving a design on textile printing rolls which comprises applying from a printing plate, carrying an image of the design, a resist material to provide an outline of the design while maintaining a part of the area within the said outline free of resist material, applying a series of lines of a second acid-resist material from another printing member within the outline, then covering the surfaces of the roll within the design and between the spaced-apart lines with a coating adapted to resist penetration of an etching reagent for a limited period of time, and then etching the roll for a period adapted to allow acid first to attack the metal in the outline and thereafter to penetrate through the coating and attack metal between the spaced-apart lines.

2,315,904
ARBOR CHUCKING DEVICE
Albert L. Pizzi, Newark, and Willis R. Quackenbush, Elizabeth, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application April 2, 1941, Serial No. 386,472
12 Claims. (Cl. 242—9)



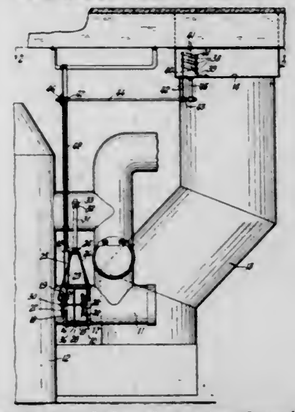
1. A chucking device comprising spaced rotatable units to respectively hold opposite ends of an arbor, means to rotate one of the units to cause rotation of the arbor, a spring associated with one of the units and actuable to apply a pulling force longitudinally of the arbor to hold the arbor against deflection when rotating, and a member movable to actuate the spring.

2,315,905
JARRING TOOL
Guy N. Stafford, Gardena, Calif., assignor to Ira J. McCullough, Los Angeles, Calif.
Application March 1, 1940, Serial No. 321,737
4 Claims. (Cl. 255—27)



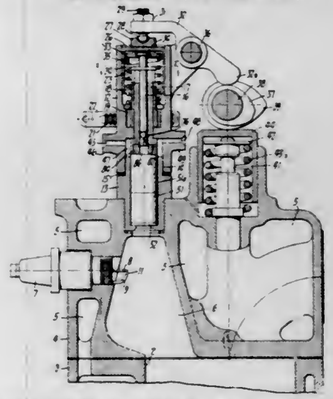
1. In a jar of the character described, for use in a tool line which extends into a well, the combination of: a cylinder having a wall closing one end thereof, said wall comprising attachment means for connecting it to a part of said line; an annular wall providing an anvil; means connecting said annular wall to said cylinder in a position spaced from the open end thereof, said means comprising a cylindric wall having an opening to connect the open end of said cylinder with the exterior of the jar; a piston slidable from a position in said cylinder wherein it defines a chamber within said cylinder, to a position outside said cylinder and within said cylindric wall wherein it will strike said anvil; a rod extending from said piston through said annular wall; an attachment means at the outer end of said rod for connecting it to another part of said line; and means limiting the entry of fluid into said chamber when said piston is in said cylinder, whereby the fluid pressure differential acting against the exposed ends of said piston and said wall of said cylinder will resist relative movement of said piston toward said anvil until said piston is moved out of said cylinder.

2,315,906
GASEOUS MIXTURE REGULATOR
Joseph B. Stanford, Akron, Ohio
Application August 14, 1941, Serial No. 406,839
4 Claims. (Cl. 236—101)



1. A regulator of the character described comprising a duct having two openings therein, a valve closure member associated with each opening, one on the inside of the duct, and the other on the outside of the duct, and each movable to and from the associated opening, and means for mounting said valve closures to move in unison, simultaneously toward closed positions or toward open positions, said means comprising a freely movable member for balancing the weights of said valve closures, said valve closures being mounted on said member whereby their weights substantially balance each other.

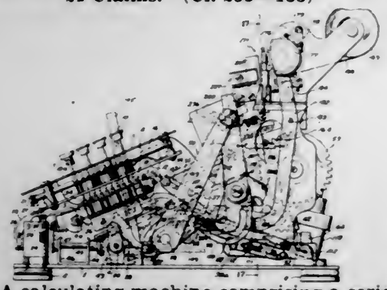
2,315,907
INTERNAL COMBUSTION ENGINE
Allan M. Starr, Piedmont, Calif., assignor to Starr & Sweetland, San Francisco, Calif., a copartnership composed of Ernest J. Sweetland and Allan M. Starr
Application December 6, 1940, Serial No. 368,828
14 Claims. (Cl. 123—32)



1. Fuel injector means for internal combustion engines comprising a plurality of injector nozzles each having an orifice; a pump plunger and a pump barrel; a plurality of ports leading from said barrel to said injector nozzles; valve means on said pump plunger to control the flow through said ports; and means to cause said

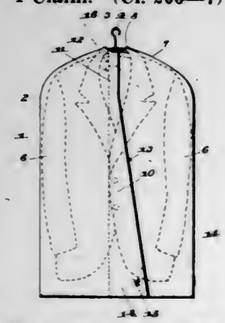
plunger to rotate about its axis; said valve means having surfaces arranged and constructed to vary the discharge through said ports and nozzles by rotation of said plunger while said plunger is operating at a substantially constant length of stroke; said surfaces varying in shape to produce a greater variation in discharge through one of said nozzles than through the other.

2,315,908
CALCULATING MACHINE
Rupert M. Starrett, Bridgeport, Conn., assignor of thirty per cent to John Kovats, ten per cent to John J. Kovats, and eleven per cent to George C. Johnson, all of Fairfield, Conn.
Application August 23, 1939, Serial No. 291,503
21 Claims. (Cl. 235—133)



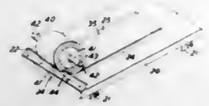
1. A calculating machine comprising a series of differential actuator gears, a series of normally stationary longitudinally movable carry racks separate from said gears, an accumulator comprising a series of adding wheels comprising gears normally in mesh with said racks before the machine is operated to thus determine the position of the wheels, means for shifting the adding wheels from the racks to mesh with the differential actuator gears, means for holding the racks in normal stationary position, springs tending to shift the racks, and said racks when in normal position retaining the adding wheels in normal position and movable from normal position to carry one unit into the wheels for addition and movable to normal position to carry one unit into the wheels for subtraction, and means on the adding wheels for releasing said holding means.

2,315,909
LAUNDRY BAG
William E. Stephenson, Missoula, Mont., assignor of thirty-five and five-tenths per cent to Howard B. Hawk, twenty-six per cent to Clarence E. Stephenson, and twelve and five-tenths per cent to E. Curtis Chambers, all of Missoula, Mont.
Application May 21, 1940, Serial No. 336,432
1 Claim. (Cl. 206—7)



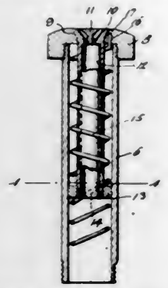
A laundry bag consisting of a single sheet of material providing back, front and shoulder portions, said shoulder portions extending forwardly and downwardly to form said front portion terminating in flaps, one of the flaps having a straight longitudinal edge, the other flap having a matching portion with an edge parallel to said longitudinal edge, then extending off at an angle to define an expansive bottom tip for an adequate coverage when the two flaps are overlapped, means sealing the overlapped flaps in the shoulder portion and at said longitudinal and parallel edge portion, and fastening means carried by the inner flap near its bottom and adapted to engage the outer flap for closing the flaps temporarily.

2,315,910
METHOD OF MAKING ROLLERS
Henry J. Thielker, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application December 30, 1938, Serial No. 248,451
3 Claims. (Cl. 18—47.5)



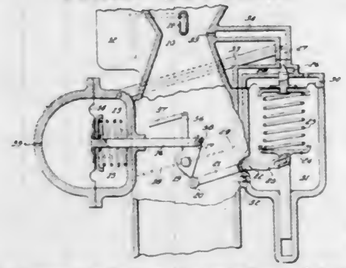
1. The method of making rollers which method comprises steps of forming a uniformly thick flat layer of molten roller surfacing material, chilling one face only of the layer to cause the material to set as a slab having one solidified face and one adhesively soft face, rolling up the slab about a roller core with the soft face of the slab in contact with the core and while the soft face is still adhesively sticky, and allowing the rolled up and adhered slab to set throughout.

2,315,911
LAWN SPRINKLER
Edward M. Truedson, Inglewood, Calif.
Application February 21, 1942, Serial No. 431,867
2 Claims. (Cl. 299—61)



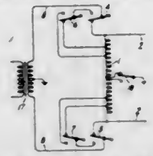
2. A lawn sprinkler comprising a supply pipe forming a barrel, a nozzle responsive to pressure of water for projecting the nozzle from the pipe, spring means for retracting the nozzle, and a combined plunger and guide carried by the nozzle and having an opening slidably receiving one end of the spring, said guide having a working fit in the pipe, the spring having a binding fit in the opening to anchor the spring to the nozzle, said spring being fed through the opening upon a rotary movement of the nozzle relative to the pipe to adjust the tension of the spring, and means for anchoring the other end of the spring to the pipe.

2,315,912
GOVERNOR
Stanley M. Udale, Detroit, Mich., assignor to George M. Holley and Earl Holley
Application July 13, 1942, Serial No. 450,824
1 Claim. (Cl. 123—103)



In a governor for an internal combustion engine of the type in which the suction in the venturi in the air entrance to the engine is utilized to control the maximum speed by closing a throttle valve located in the air entrance on the engine side of the venturi, means for utilizing the suction on the engine side of the throttle to augment the suction in the venturi comprising a chamber, a movable wall in said chamber, said chamber communicating with the engine suction, a valve carried by the moving wall, a passage connecting the engine suction with the throat of the venturi, a valve therein, said valve being connected to the moving wall, a spring engaging in the moving wall so as to close said valve, a movable cam adapted to be moved by said throttle, said cam being also adapted to engage with said spring to vary the pressure on said movable wall, whereby the engine suction which unseats the valve has a specific value at every specific position of the throttle valve.

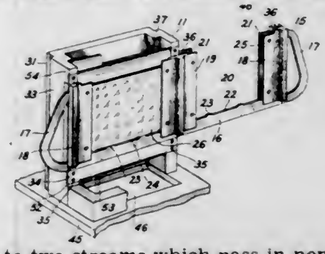
2,315,913
VOLTAGE REGULATOR
James M. Weed, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application October 23, 1940, Serial No. 362,398
6 Claims. (Cl. 171—119)



1. In combination, an alternating-current supply circuit having a grounded neutral and having a pair of outer conductors, a voltage regulating autotransformer having a grounded neutral, said autotransformer also having two sets of equally spaced taps located respectively on opposite sides of its grounded neutral, switching means for selectively connecting said conductors to different taps in said sets respectively, and means for controlling said switching means so as to prevent variations in the magnitude of the voltage difference between said neutrals.

2,315,914
FILM GATE FOR PROJECTORS
Raymond W. Wengel, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application September 26, 1940, Serial No. 358,489
10 Claims. (Cl. 88—24)

1. In a projection apparatus, the combination with a gate adapted to receive an image area to be projected, a cooling-air blast directed toward one side of said gate, of an air-foiled section positioned in said gate and adapted to split said



blast into two streams which pass in non-turbulent relation through said gate and over the opposite sides of said area to cool the latter, and means for supporting said area on said section.

2,315,915
METHOD AND APPARATUS FOR HANDLING CONCRETE
Cecil J. White, Minneapolis, Minn.
Original application November 20, 1939, Serial No. 305,317. Divided and this application December 1, 1941, Serial No. 421,112
4 Claims. (Cl. 94—39)

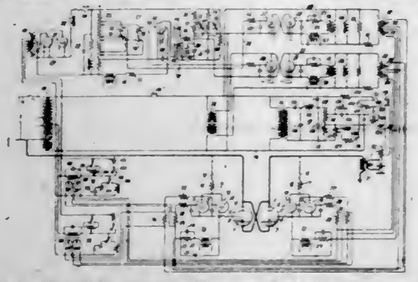


1. In apparatus on the kind described for constructing concrete slabs including an upstanding sheet of joint material, a holder for said sheet including a member having a groove engaging the upper edge of the sheet, said member having downwardly inclined fingers located at predetermined distances from the joint material, said fingers being spaced apart from each other a distance less than the diameter of larger particles of the concrete, comprising guides for directing larger particles into the body of the concrete away from the joint material into the body of the concrete and permitting the finer particles of the concrete to lodge against the upstanding surfaces of the joint material.

2,315,916
ELECTRIC WELDING SYSTEM
Austyn L. Whiteley and Bertram G. Higgins, Rugby, England, assignors to General Electric Company, a corporation of New York
Original application January 5, 1940, Serial No. 312,520, now Patent No. 2,269,967, dated January 13, 1942. Divided and this application January 29, 1941, Serial No. 376,542. In Great Britain March 20, 1939
5 Claims. (Cl. 219—4)

1. In combination, an alternating current supply circuit, a welding circuit including welding electrodes and means for controlling the pressure exerted by said electrodes upon the work, electric translating apparatus connected between said circuits, excitation means for controlling said translating apparatus to transmit to said welding circuit a predetermined value of current during a predetermined number of cycles of voltage of said alternating current supply circuit and for transmitting to said welding circuit a predetermined smaller value of current during an interval of time subsequent to said first mentioned interval, and timing means energized from said

supply circuit for controlling the pressure controlling means to increase the pressure exerted by said electrodes during the second mentioned



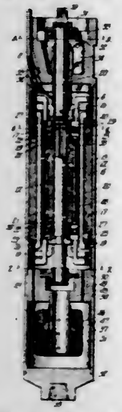
interval and for controlling said excitation means to establish the above stated current-time relationship.

2,315,917

SUBMERGIBLE ELECTRIC MOTOR FOR DEEP WELL PUMPS

Armais Arutunoff, Bartlesville, Okla., assignor to Reda Pump Company, Bartlesville, Okla., a corporation of Delaware

Application September 30, 1937, Serial No. 166,560
2 Claims. (Cl. 172—36)



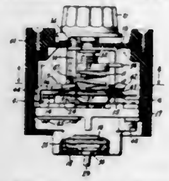
1. In an electric motor, a vertical housing, a plurality of laminations positioned in said housing, said laminations comprising alternate sections of non-magnetic and magnetic material, bearings supported by said non-magnetic laminations, said bearings including respective annular bearing rings, each bearing ring being provided with a plurality of axially extending openings, bushings journaled in said bearing rings, said bushings being provided with oil holes, a shaft extending through said bushings, said shaft being provided with an axially extending duct, said duct being closed at its upper end and open at its lower end, cross ducts communicating with said axially extending duct at respective bearing bushings, a squirrel cage rotor secured to said shaft, oil in said housing, said housing being formed with a partition adjacent its lower end forming a chamber, an imperforate annular bearing ring supported by said partition, the lower end of said shaft extending through said bearing ring, means providing communication between said axial duct and said chamber, straining means for said communicating means, a duct through said partition, the construction being such that, upon rotation of the rotor, oil will circulate from the axial duct through said cross ducts, through said bushing oil holes, downwardly between the stator and the rotor through said bearing ring openings through said partition duct into said chamber, through said straining means, through said communicating means to said axial duct.

2,315,918

CONTROL DEVICE

Edgar H. Ayers, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application April 30, 1942, Serial No. 441,148
7 Claims. (Cl. 200—83)



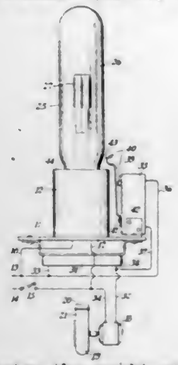
1. A control device comprising a rectangular metal frame, an operating member extending across said frame, means securing said operating member to said frame for limited sidewise sliding movement with relation to said frame, a bellows temperature responsive operating device mounted between one side of said operating member and one end of said frame, a compression spring between the other side of said operating member and the other end of said frame, said frame forming a support for said parts and holding said parts together against the force of said spring, means for adjusting the force applied by said spring to said operating member, and switching means outside of said frame operated by said operating member.

2,315,919

MOTOR CONTROL FOR PROJECTORS

David L. Babcock, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application April 2, 1942, Serial No. 437,352
7 Claims. (Cl. 176—10)



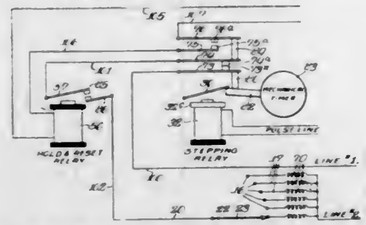
3. In a projector, the combination with a blower, a motor for driving said blower, a lamp socket for the selective reception of electric incandescent lamps having filaments enclosing portions of different diameters, of a resistor arranged in the circuit of said motor, a self-opening switch shunted across said resistor, and a switch closing member positioned to be moved to switch closing position by the engagement therewith of a lamp portion of predetermined diameter when the lamp is positioned in said socket.

2,315,920

IMPULSE OPERATED SELECTOR SWITCH FOR ALTERNATING AND DIRECT CURRENT

Edward G. Baker and Thedore Obszarny, Chicago, Ill., assignors to Guardian Electric Manufacturing Co., Chicago, Ill., a corporation of Illinois

Application October 8, 1940, Serial No. 360,282
8 Claims. (Cl. 175—375)



2. In a selector switch, the combination of a plurality of contacts connected in separate branches of a main electrical circuit, a movable contact arm, means for shifting said arm into engagement with a predetermined contact for completing a portion of a preselected branch circuit, a pair of switches connected in series in the main circuit, one of said switches being normally open and the other normally closed, a separate normally open switch connected in an auxiliary circuit, an electro-magnet in said auxiliary circuit for controlling said normally open series switch, and mechanical timing means for controlling the other two switches in such correlation to each other as to cause the auxiliary switch and electromagnet of the auxiliary circuit to be controlled during an overlapping interval of the two series switches, said timing means being responsive to and operated by said first mentioned means, whereby said switches are controlled in a manner to effect energization of the preselected branch circuit for a predetermined limited time, in delayed timed relation, subsequent to engagement of said arm with the contact of the preselected branch circuit.

3. In a selector switch, the combination of a plurality of contacts connected in separate branches of a main electrical circuit, a movable contact arm, electrical impulse operated electromagnetic means for shifting said arm in step-by-step fashion into engagement with a predetermined contact for completing a portion of a preselected branch circuit, switch means for controlling said main electrical circuit, and mechanical timing means for controlling said switch means, said timing means being responsive to and rendered operable by said electro-magnetic means, whereby said switch means is controlled to effect energization of the preselected branch circuit in delayed timed relation, subsequent to engagement of said arm with the contact of the preselected branch circuit.

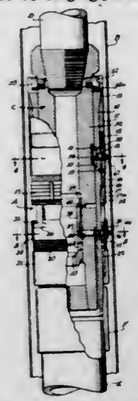
2,315,921

WELL PACKER APPARATUS

Reuben C. Baker, Coalinga, Calif., assignor to Baker Oil Tools, Inc., Los Angeles, Calif., a corporation of California

Application March 18, 1940, Serial No. 324,485
27 Claims. (Cl. 166—12)

1. An apparatus of the character described, including a packer body adapted to be moved through a well casing by a tubular string, retracted means carried by said body for engagement with such casing, means coupling said body to said tubular string, means for enabling said body and retracted means to be moved with respect to each other to engage said retracted means



with said casing, and means operable during movement of said retracted means to casing engaging position for disconnecting said coupling means.

2,315,922

PREPARATION OF N-MONOMETHYL-P-AMINOPHENOL

Frederic R. Bean, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application December 6, 1939, Serial No. 307,887
7 Claims. (Cl. 260—574)

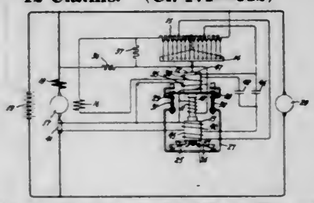
1. A process for preparing N-monomethyl-p-aminophenol comprising decomposing p-hydroxyphenylglycine to N-monomethyl-p-aminophenol in a protective reaction medium containing essentially an organic compound other than aldehydes and ketones and having a boiling point above 140° C., said reaction medium containing, in an amount equal to not more than about 10% by weight of the reaction medium, of an organic compound selected from the group consisting of aldehydes and ketones having a boiling point above 140° C.

2,315,923

ELECTRIC CONTROL SYSTEM AND APPARATUS

Guy Bellows, Jr., Erie, Pa., assignor to General Electric Company, a corporation of New York

Application January 14, 1942, Serial No. 426,732
12 Claims. (Cl. 171—312)



1. In an electric control system, the combination comprising a direct current generator having a field winding, a variable resistor connected in series circuit relation with said field winding to complete an energizing circuit for said generator, a condenser having terminals connected across points of normally differing potential in said energizing circuit, a dynamic regulator having a

voltage responsive floating element arranged to control the resistance of said resistor thereby to regulate the voltage of said generator, a stabilizing winding on said floating element, and a second condenser connected in series with said stabilizing winding across the terminals of said first condenser, whereby said stabilizing winding is transiently energized through said second condenser upon any change in the charge upon said first condenser.

2,315,924

PROCESS FOR PREVENTING RUBBER OBJECTS FROM STICKING TOGETHER AND IMPROVING THE QUALITY AND DURABILITY OF RAW RUBBER IN A DIVIDED STATE

Simon Hendrik Bertram, The Hague, Netherlands; vested in the Alien Property Custodian

No Drawing. Application September 27, 1938, Serial No. 232,010. In the Netherlands September 28, 1937

1 Claim. (Cl. 260—746)

Process for the production of nonsticking rubber powder which comprises spray drying an aqueous rubber suspension and mixing infusorial earth powder with the sprayed aqueous rubber suspension while it is in suspension in the drying gas.

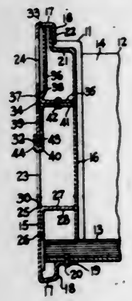
2,315,925

LABEL HOLDER

Palmer Bescherer, York, Pa., assignor to York Safe and Lock Company, York, Pa., a corporation of Delaware

Original application December 9, 1940, Serial No. 369,215. Divided and this application April 1, 1941, Serial No. 386,234

2 Claims. (Cl. 40—8)



1. In a drawer, a front comprising an outer member and an inner member arranged in spaced relation to said outer member, both of said members being flat, plate-like elements, said outer member having a rearwardly extending top of less width than the space between said members, said inner member having a forwardly extending portion at the top of less height than the height of the top of said outer member and a width less than the space between said members, said front member and said rear member each having abutting portions at the top thereof for securing said members together, an elongated slot formed in the top of said outer member, a window opening formed in the front of said outer member directly beneath said slot, and an L-shaped member disposed in the space between said outer member and said inner member, said L-shaped member having a horizontal flange at the bottom spanning the space between said outer member and said inner member and having a vertical portion arranged in spaced relation to said window opening and extending from the rear edge of said slot downwardly to a point beneath the lower edge of said window opening so as to form a pocket inside of the drawer front in proximity to said window opening for an index card.

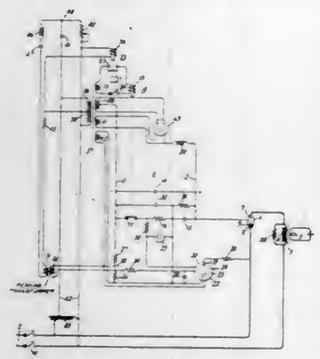
2,315,926

ELECTRIC VALVE CIRCUIT

Maurice E. Bivens, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application November 22, 1941, Serial No. 420,111

11 Claims. (Cl. 250—27)



1. In combination, an alternating current supply circuit, a load circuit, electric translating apparatus connected between said circuits and including electric valve means having a control member, excitation means for transmitting an impulse of current to said control member and comprising a capacitance, means for charging said capacitance, means for discharging said capacitance and including an electric discharge device having an anode, a cathode and a pair of control electrodes, means for impressing on one of said control electrodes a voltage tending to maintain said discharge device nonconductive, means for impressing on the other control electrode a voltage of peaked wave form the magnitude of which is insufficient to render said discharge device conducting when said hold-off voltage is effective, and means for initiating conduction by said electric discharge device and for initiating energization of said load circuit comprising means for modifying said hold-off potential and for permitting said peaked voltage to render said discharge device conducting at the time determined by the phase relation of said peaked voltage relative to the voltage of said supply circuit.

2,315,927

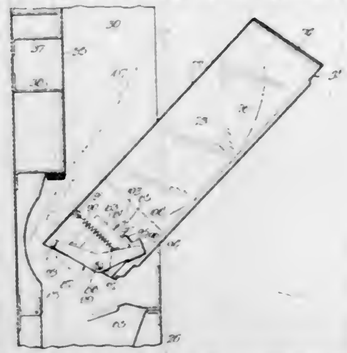
WASHBASIN

Joseph L. Brack, Chicago, Ill., assignor to Pullman-Standard Car Manufacturing Company, Chicago, Ill., a corporation of Delaware

Application July 1, 1941, Serial No. 400,641

13 Claims. (Cl. 4—169)

1. The combination of an upright cabinet having a recess in its front face, a removable washbasin supported in the recess, a lug on each of the vertical sides of the cabinet recess and projecting into the recess, means providing a cooperating slot on each side of the basin opening adjacent to the rear edge of the basin, each lug being adapted to project into its corresponding basin slot, and a releasable catch member on the



basin adapted to engage the corresponding lug to hold the basin in the cabinet recess.

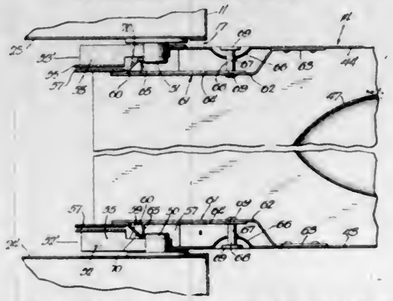
2,315,928

WASHBASIN

Joseph L. Brack, Chicago, Ill., assignor to Pullman-Standard Car Manufacturing Company, Chicago, Ill., a corporation of Delaware

Application February 18, 1942, Serial No. 431,405

14 Claims. (Cl. 4—169)



1. The combination of a cabinet having a recess in its front face provided with vertical sides, a removable washbasin supported in the recess, a trunnion on each of the vertical sides of the cabinet recess and projecting horizontally into the recess, means providing a cooperating slot on each side of the basin opening adjacent to the rear edge of the basin, each trunnion being adapted to project into its corresponding basin slot and to be admitted through the opening therein at the rear of the basin, a releasable latch on at least one side of the basin adjacent to one of the slots and adapted to engage the corresponding trunnion to hold the basin in the cabinet recess, and means accessible from said side of the basin for disengaging the latch from the trunnion, thereby allowing the basin to be removed from the recess.

2,315,929

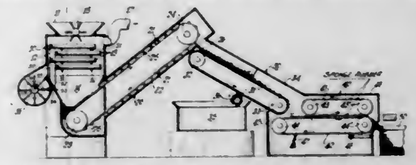
METHOD FOR CLEANING HARD OR FROZEN BERRIES

Cole Bridges, Calais, Maine

Application June 14, 1941, Serial No. 398,046

2 Claims. (Cl. 146—219)

1. In a method of cleaning hard or frozen berries and the like, the procedure of freeing therefrom stems and foreign particles and wiping clean surfaces thereof by massaging the berries comprising, feeding the berries to between a pair of endless belts having opposed surfaces of readily yieldable material located apart a distance appreciably less than the mean diameter of the berries, and moving the opposed surfaces of the belts in the same direction to carry the berries therewith and at the same time to execute a wiping action on surfaces on opposite sides of the berries.



2,315,930

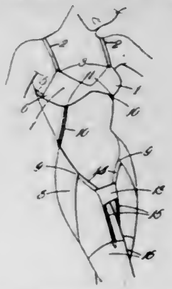
LADY'S SUSPENDER GARMENT

Marjory Norma Burke, Whitegate, near Northwich, England

Application March 28, 1942, Serial No. 436,569

In Great Britain July 26, 1941

2 Claims. (Cl. 2—30)



1. A suspender garment for ladies, comprising in combination a brassière portion, a seat panel open at the front, shoulder straps connected to the upper part of the brassière portion and joined to rings at the back, side straps connected to the lateral parts of the brassière portion and joined to said rings, auxiliary straps extending from said rings and joined to a centrally disposed ring, at least one strap extending from the centrally disposed ring to the seat panel, straps connected to the lower part of the brassière portion and to the seat panel, a front panel connected to the seat panel and adapted to retain the latter against the posterior, and suspenders carried by the seat panel and front panel for supporting the stockings.

2,315,931

LINER HANGER APPARATUS

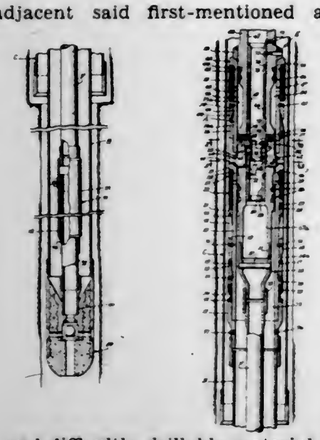
Clarence E. Burt, Los Angeles, Theodore Sutter, Huntington Park, and Thomas M. Ragan, Downey, Calif., assignors to Baker Oil Tools, Inc., Los Angeles, Calif., a corporation of California

Application June 17, 1940, Serial No. 340,984

37 Claims. (Cl. 166—1)

1. An apparatus of the character described including a body adapted to be lowered in a well casing, means for anchoring said body to said casing against movement in an upward direction, means for anchoring said body to said casing against movement in a downward direction, said body consisting of readily drillable mate-

rial adjacent said first-mentioned anchoring



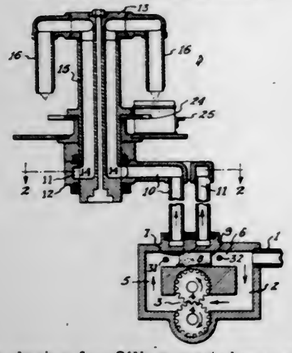
means and difficultly drillable material adjacent said second-mentioned anchoring means.

2,315,932

CONTAINER FILLING DEVICE AND METHOD

Robert V. Burt and Neil Macneale, Cincinnati, Ohio, assignors to The Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio

Application July 31, 1940, Serial No. 348,879
21 Claims. (Cl. 226—125)



6. In a device for filling containers with flowing liquid, semi-liquid, or plastic material, in combination: automatic means for regulating the flow of said material at a rate which is unaffected by pressure changes in the supply of material; and automatic means communicating with said flow regulating means for directing said flowing material into each of successive containers for a controlled period of time, adapted by a cooperating connection between said flow regulating means and said directing means to vary said periods for successive containers in inverse proportion to said rate of flow so that equal amounts of material may be filled into all containers.

2,315,933

COLLAPSIBLE FRAME

Dannie Jay Butts, Alhambra, Calif.; Ethel L. Butts, executrix of said Dannie Jay Butts, deceased, assignor to Ethel L. Butts, Alhambra, Calif.

Application January 2, 1942, Serial No. 425,389
1 Claim. (Cl. 211—171)

In a device of the class described, a standard of circular cross-section, an upper hub of tubular sheet metal closed at its upper end rotatably seated on the top end of the standard, a lower hub also of tubular sheet metal slidably mounted on the standard below the upper hub, elongated sheet metal straps secured at their centers to and in spaced relation about said hubs and having their opposite ends angularly bent to project radially of the hubs, the adjacent ends of the straps being disposed in closely spaced relation to form pairs of parallel ears, frame members having one end of each pivotally engaged with a pair of the ears on one of said hubs, brace members having one end of each pivotally engaged with a pair of the ears on the other of said hubs and the other end with a frame member at an intermediate point thereon, an out-



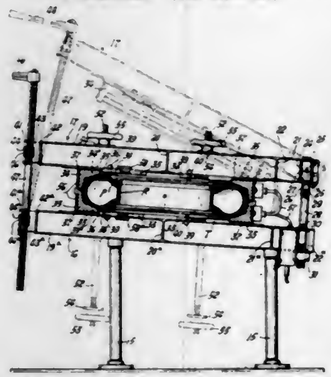
wardly depressed portion formed longitudinally of each of said straps and extending into the bent ends thereof to reinforce the same, said frame and brace members being normally collapsed relatively to the standard and adapted to be extended radially of the latter upon movement of the lower hub relatively to the upper hub, said lower hub being elongated below the straps thereon to provide a hand engaging portion to facilitate its manipulation, and means carried by the standard to hold the lower hub when it is moved to frame member extending position, said lower hub being rotatable with the upper hub when the frame members are moved about the standard.

2,315,934

TIRE VULCANIZING EQUIPMENT

Perry O. Chambers, Chicago, Ill., assignor to Safety Vulcanizer Company, Chicago, Ill., a corporation of Illinois

Application July 8, 1941, Serial No. 401,500
9 Claims. (Cl. 18—18)



5. A vulcanizer of the character described comprising a relatively fixed lower platen and a relatively movable upper platen in spaced superposed relation thereto, said platens each being correspondingly fabricated from sectional beams having welded connecting joints, said platens each including a pair of elongated beams extending transversely in divergent relationship in the plane thereof, one or more lengths of sectional beams rigidly connecting between said elongate beams, extensions of said elongated beams at the more widely separated ends of the pairs thereof providing spaced hinge arms at one side of the vulcanizer, a plurality of lengths of sectional beams connected to said elongate beams to provide clamping arms extending radially outwardly with respect to the center of the vulcanizer, hinge means mounted between each pair of corresponding upper and lower hinge arms of said upper and lower platens, releasable clamping means cooperatively mounted on said upper and lower clamping arms for clamping said platens together, annular tread matrices mounted on said upper and lower platens for registry with each other when the platens are clamped together, said tread matrices engaging said elongate beams and said clamping arms of the respective platens at circumferentially spaced points, each of said hinge means including a pair of elements pivotally connected to each other, one of each pair of said hinge elements being adjustable with respect to its hinge arms, means for adjusting said adjustable elements to apply clamping pressure to said matrices at the hinged side of the vulcanizer, brackets mounted across the more closely spaced ends of said pairs of elongate beams of said upper and lower platens, oppositely internally threaded members pivotally mounted on said brackets, a screw shaft having opposite threads at opposite ends thereof threaded through said threaded members, and means for turning said shaft to swing said platens from and toward each other on said hinge means, said screw shaft being operable on said platens to apply clamping pressure between said registering matrices.

2,315,935

STABILIZING HEAVY FUEL OIL

William C. Child, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application August 10, 1940, Serial No. 352,068
5 Claims. (Cl. 196—75)

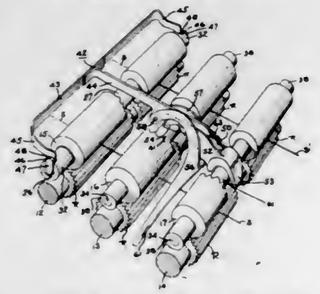
1. A method for producing a stabilized heavy fuel oil from a pressure still tar of petroleum of substantially the same gravity having a tendency to precipitate excessive quantities of sediment, which comprises heating the initial pressure still tar without addition of lighter petroleum distillate oil to a temperature between about 450° F. and 750° F. for a period insufficient to cause cracking, ranging from ¼ hour to 3 hours, while maintaining said tar under pressure.

2,315,936

TOP ROLL LOADING DEVICE

Leland D. Cobb, Forestville, Conn., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application January 2, 1942, Serial No. 425,416
20 Claims. (Cl. 19—135)



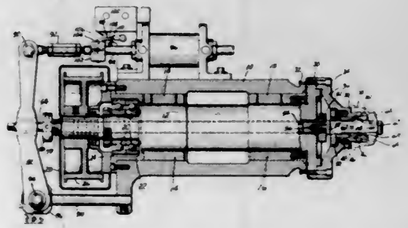
1. A pressure applying mechanism for a plurality of spaced top rolls comprising a pair of connected load applying members respectively resting on the opposite ends of one of said top rolls, another load applying member bearing on at least one of said other top rolls, and weight applying means distributing downward pressures to all of said load applying members.

2,315,937

CHUCKING MECHANISM

Raymond H. Cramer, Newark, N. J., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Original application July 30, 1940, Serial No. 348,398. Divided and this application March 13, 1941, Serial No. 383,199
13 Claims. (Cl. 279—107)



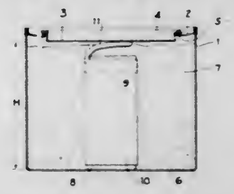
1. In a device of the character indicated, a chuck, a hollow spindle for rotating the chuck, a draw bar slidable within the spindle, a diametrically slotted bar connected to the draw bar and having end walls, angular clamping fingers having shanks fitting side by side within and extending lengthwise of the slot from one end wall substantially to the other for axial shifting thereby, and a cam face for swinging the fingers against a work-piece upon shifting movement of the draw bar with the shanks.

2,315,938

TWO COMPARTMENT CONTAINER

Wentworth W. Crouch, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application January 22, 1941, Serial No. 375,463
1 Claim. (Cl. 206—47)

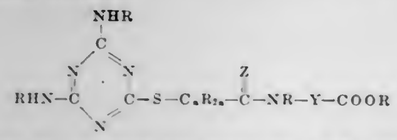


In a two compartment can adapted to contain two ingredients, one in one compartment and the other in a second compartment, the combination with an outer container including a pair of spaced end walls at least one of which is adapted for removal, of an inner container adapted to be positioned in the outer container and to be covered with the ingredients placed therein, a pull tab attached to the inner container and projecting therefrom and of a length to at least contact with one end of the outer container when the inner container rests on the other end of the outer container whereby in

filling the outer container with the inner container therein said tab may project through the ingredients poured into the can and whereby said tab may project from said ingredients when said outer container is opened, and means tending to hold said pull tab in an erect position said inner container including a cover to give access to the ingredients contained therein, a band extending around the container to hold the cover thereon and supporting said pull tab whereby said tab may also facilitate opening the cover of the inner container.

2,315,939
TRIAZINE DERIVATIVES
Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
No Drawing. Application January 28, 1942, Serial No. 428,552
18 Claims. (Cl. 260—248)

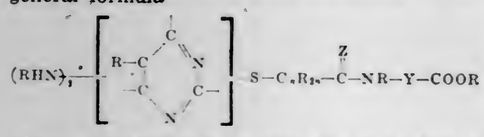
1. Chemical compounds corresponding to the general formula



where n represents an integer and is at least 1 and not more than 2, Z represents a member of the class consisting of oxygen and sulfur, Y represents a divalent carbocyclic radical, and R represents a member of the class consisting of hydrogen and monovalent hydrocarbon and halohydrocarbon radicals.

2,315,940
DIAZINE DERIVATIVES
Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
No Drawing. Application January 30, 1942, Serial No. 428,905
18 Claims. (Cl. 260—251)

1. Chemical compounds corresponding to the general formula



where n represents an integer and is at least 1 and not more than 2, Z represents a member of the class consisting of oxygen and sulfur, Y represents a divalent carbocyclic radical, and R represents a member of the class consisting of hydrogen and monovalent hydrocarbon and halohydrocarbon radicals.

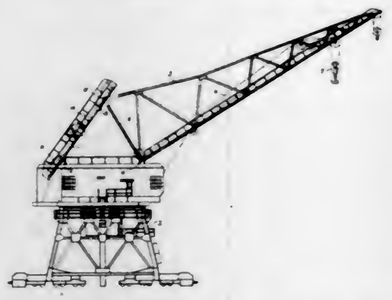
2,315,941
COURSE STICK
Celestino G. D'Amato, Philadelphia, Pa.
Application July 5, 1940, Serial No. 343,980
2 Claims. (Cl. 33—106)

1. A course stick comprising a plurality of sections pivoted to each other with their flat faces opposed whereby they may be swung transversely relative to one another in either direction, a supporting pin consisting of a shank and nose at right angles to each other, said nose being tapered, and means for screwing the pin to a preselected end section so that the shank rests against a flat face of the preselected end section



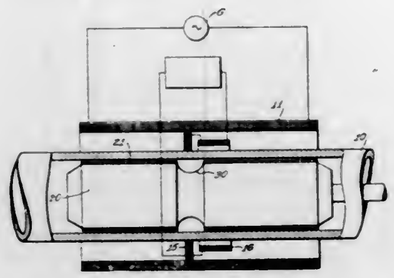
opposite that on which other sections may fold with the nose projecting outward therefrom.

2,315,942
LUFFING CRANE
Joy Wendell Deist, Mount Lebanon, Pa., assignor to Dravo Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Application September 29, 1942, Serial No. 460,051
1 Claim. (Cl. 212—8)



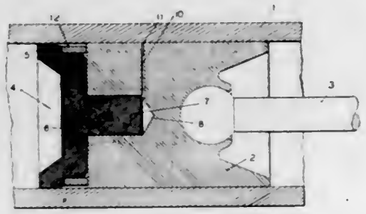
Means for swinging a structure pivotally mounted upon a support and having extension in the direction of the axis of pivoting, such means including a frame, two pairs of carriages mounted in the frame, the carriages of each pair in alignment, and the two pairs arranged in succession in the direction of the said axis of pivoting, the carriages mounted for longitudinal movement in the frame, one carriage of each pair being pivoted to the swinging structure and the other carriage of each pair being pivoted to the support at points remote from the said axis of pivoting, two pairs of nuts mounted one pair in each of said carriages, two screws simultaneously engaging severally the two nuts of the two pairs and adapted on rotation to effect the drawing together and the separation of the so-engaged carriages, two motors, driving connections from the motors severally to the two screws, and a cross-shaft interconnecting the two screws, whereby the two motors co-operate in rotating the two screws and the load imposed upon the motors is equalized between them.

2,315,943
MEANS FOR TESTING TUBES
Loren J. De Lanty, Spring Valley, N. Y., assignor to Sperry Products, Inc., Hoboken, N. J., a corporation of New York
Application November 2, 1940, Serial No. 363,986
2 Claims. (Cl. 175—183)



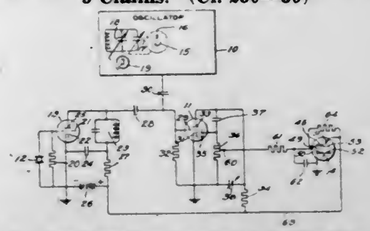
1. In a device for testing tubes, an A. C. exciting means surrounding the tube for generating flux, means responsive to variations in current induced in said tube, and means for concentrating said flux in the walls of said tube, said last named means comprising a metal insert substantially filling the hollow interior of said tube and characterized by low resistance and high eddy current generating properties, said insert having a cutout portion in cooperative relation with said responsive means so as to offer no impediment to deflection of flux in said tube by a defect.

2,315,944
SEALING MEANS FOR PISTONS
Burns Dick, Ferguson, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware
Application March 29, 1940, Serial No. 326,545
6 Claims. (Cl. 309—33)



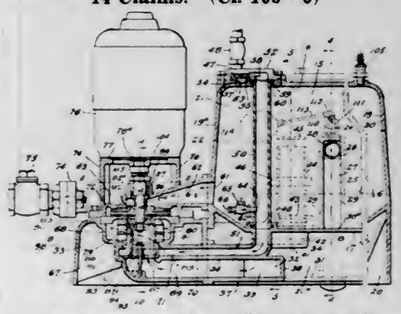
1. Sealing means for association with a piston and cylinder comprising an unsplit cylindrical ring positioned adjacent the head of the piston for cooperating with the cylinder wall, and a normally uncompressed member positioned within the ring, said ring being made of non-metallic material having a surface the coefficient of friction of which is low with respect to the cylinder wall, and capable of limited expansion by outwardly directed radial pressures, and said member within the ring being made of material readily yieldable as compared with the material of the ring and being exposed to direct contact by fluid in the cylinder whereby when the fluid is placed under pressure said member will be so compressed as to produce a radial force acting on the inner surface of the ring which is sufficient to cause said ring to be expanded and snugly engaged with the cylinder wall.

2,315,945
CALIBRATING DEVICE
Reginald L. Downey, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application December 26, 1941, Serial No. 424,393
5 Claims. (Cl. 250—39)



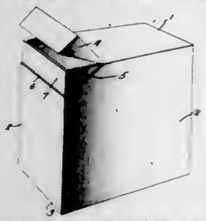
1. In combination, a visual indicating device having a fluorescent surface and means including a control electrode for producing fluorescence over a portion of the area of said surface variable in response to voltage on said control electrode, a source of alternating voltage whose frequency may vary over a range of frequencies over which indications of frequency are desired, and low pass filter means for applying said alternating voltage to said control electrode attenuated in progressively increasing amounts as the frequency of such voltage increases, the attenuation of said voltage being substantially a maximum at an extreme frequency of said range and being progressively smaller at frequencies removed from said extreme frequency, whereby minimum visual indication is produced by said device when the frequency of said voltage is high and progressively greater indication is produced as the frequency of said voltage approaches zero.

2,315,946
VACUUM CONDENSATION PUMP
Augustus C. Durdin, Jr., Lincolnwood, Ill.
Application April 7, 1941, Serial No. 387,118
14 Claims. (Cl. 103—6)



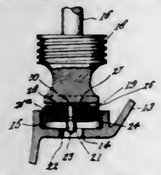
1. In a vacuum condensation pump, the combination of a tank having a receiving chamber and a hurling watef chamber, the latter opening out to the atmosphere, water and air pumping means having their suction inlets in communication with the receiving chamber, the air pumping means employing water for its operation and having a water inlet and a discharge outlet in communication with said hurling water chamber and a float valve controlled port between the hurling water chamber and receiving chamber, the float of which is contained in the hurling water chamber and acts to open the valve when moved upwards or downwards from its normal position as governed by a predetermined water level in the hurling water chamber.

2,315,947
CARDBOARD BOX TOP CONSTRUCTION
Robert E. Edmonson, Beaumont, Tex.
Application April 22, 1941, Serial No. 389,805
6 Claims. (Cl. 221—11)



1. In a carton having its walls weakened along predetermined lines to form a hinged closure, a lip forming strip of sufficient size to embrace the inner faces of the walls having said weakened lines to mask said lines and have its upper edge extend to lie in a plane adjacent and parallel with that of the top of the carton, said strip having means to permit of its contraction when folded to dispose the portions thereof in embracing relationship to said walls.

2,315,948
VALVE STEM FOR FAUCETS
Miguel Esnard, Matanzas, Cuba
Application December 3, 1941, Serial No. 421,505
10 Claims. (Cl. 251—160)



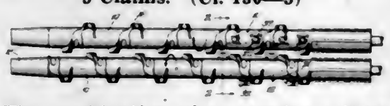
1. A valve member for faucets having valve seats, comprising a stem adapted to be mounted in a faucet for movement toward and from the valve seat, said stem having a flat lower end portion providing a backing plate and having an integral axial shank extending below the backing plate and terminating in an enlarged head, said shank having mounted thereon above the head a washer of resilient material having a central opening of a diameter less than that of the shank and a reinforcing cap fitting over the upper portion of the washer and having a central opening of larger diameter than the head of the shank for free passage of the reinforcing cap thereover, said head having a tapering shoulder at its upper end engaging the lower portion of the washer to yieldingly hold the same and said reinforcing cap upwardly against said backing plate.

2,315,949
FERTILIZING BY CARTRIDGES
Albert C. Fischer, Chicago, Ill.
Application July 3, 1940, Serial No. 343,902
7 Claims. (Cl. 47—1)



1. As an article of manufacture; a soil-treating cartridge comprising a sheet-like body coiled into separable convolutions and having incorporated therewith a soil-treating medium; the convolutions being superimposed one upon another and being circumferentially movable relatively one to another to partially unwind them and cause their separation.

2,315,950
ATTACHMENT FOR CORN PICKERS
Frank A. Fitzloff, Spencer, Iowa
Application May 14, 1941, Serial No. 393,355
5 Claims. (Cl. 130—5)

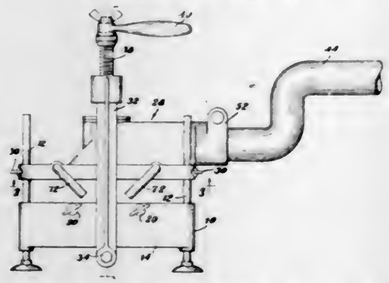


1. The combination of a snapping roll having a cylindrical body and a spirally arranged upstanding rib thereon, with a removable lug attached to said body portion intermediate the convolutions of said rib, said lug having a thin upstanding flange extending radially from said roll in a plane parallel to the axis thereof.

2,315,951
CONDENSATION PRODUCTS OF DIARYL ETHER SULPHONIC ACIDS WITH FORMALDEHYDE
Arthur L. Fox, Woodstown, N. J., and Paul O. Bare, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application April 25, 1941, Serial No. 390,330
5 Claims. (Cl. 260—49)

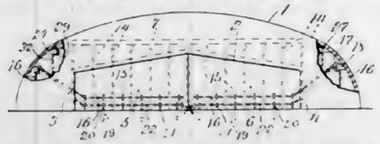
1. The condensation product of diphenyl ether monosulphonic acid with formaldehyde, said condensation product having been prepared by heating formaldehyde with said sulphonic acid at a temperature that is low enough to avoid excessive discoloration of the condensation product.

2,315,952
APPARATUS FOR FORMING MEAT LOAF
Anthony Giglio, Boston, Mass., assignor to Fulton Stuffer Corporation, Boston, Mass., a corporation of Massachusetts
Application November 9, 1940, Serial No. 365,059
3 Claims. (Cl. 226—93)



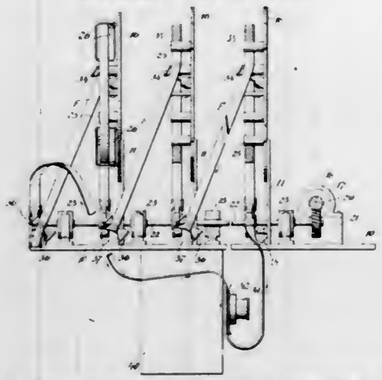
1. In apparatus for forming meat loaf, the combination of a conduit adapted for connection to a source of ground meat under heavy pressure; a discharge head on the outer end of said conduit having a substantially flat mold-engaging face; a meat discharging and distributing passage extending through said head from said conduit to said face, said passage including a substantially horizontally disposed duct connected at one end to said conduit and decreasing in depth toward a substantially vertical wall forming the opposite end of said duct, an opening through the bottom of said duct adjacent said wall, and a passage extending from said opening through said face of said head having end walls sloping outwardly from adjacent said opening and side walls sloping inwardly centrally from adjacent said opening to provide an elongated, centrally narrowed mouth for said passage in said face of said head; and means to clamp the open end of a mold to said head around the mouth of said passage.

2,315,953
DOORWAY CLOSURE
Charles R. Goudie, Kansas City, Mo.
Application February 11, 1942, Serial No. 430,375
10 Claims. (Cl. 160—344)



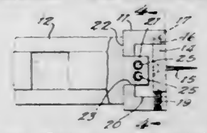
3. In a closure for a doorway, a curtain adapted to extend across the doorway, transverse supporting means at the inner side of and above the doorway, carrying means supported by and adapted for travel along said supporting means, spaced apart flexible strands depending from said carrying means and attached to the upper edge of and supporting said curtain, means by which said curtain, when stretched out and closed may be drawn edgewise, gathered into folds extending upwardly and downwardly and disposed at one and the inner side of the doorway, and means for anchoring releasably the lower end of the curtain in its closed position.

2,315,954
AUTOMATIC REWIND FILM CARRIER
Alfred Gruenhut, New York, N. Y., assignor, by mesne assignments, to Gertrude Israel, New York, N. Y.
Application March 6, 1941, Serial No. 381,975
3 Claims. (Cl. 88—18.7)



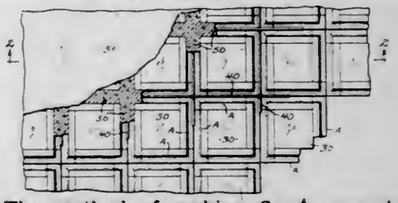
1. A film carrier comprising a base plate, a plurality of stationary film carrier plates secured to said base plate, each of said film carrier plates having a circular set of idle rollers rotatably mounted thereon, each set of rollers supporting an annular film coil, said film coils forming portions of an endless film strip, a plurality of radial rollers on each of said film carrier plates for supporting the edges of the film coils on said carrier plates, a frame consisting of two portions for each of said radial rollers, the lower portion of each of said frames being secured to one of said film carrier plates and embracing the axis of its radial roller, the upper portion of each of said frames being hinged to its lower portion and having a snap engagement therewith to permit opening of the frame for the purpose of removing one of said annular film coils from its carrier plate, a drive shaft, means for rotating said drive shaft, a plurality of sprocket wheels on said drive shaft, each of said sprocket wheels being arranged to feed the film from the inner periphery of one of said film coils to the outer periphery of the adjacent film coil.

2,315,955
BATHROOM FIXTURE AND THE LIKE
Gustave A. Hallenscheid, Los Angeles, Calif.
Application January 7, 1942, Serial No. 425,897
2 Claims. (Cl. 248—223)



2. A bathroom fixture, comprising a hollow base element having an opening in its rear face, means secured to a wall and projecting into said opening to engage the base element and hold it in place, a polygonal-shaped opening through the front wall of said base element, a fixture having a shank adapted to extend through said polygonal-shaped opening and conforming thereto, said fixture having a shoulder adjacent said shank and abutting against the front face of the base element, the shank being formed with transverse openings therethrough, and tapered pins adapted to be driven into said openings and overhanging the opposite ends thereof to cooperate with the shoulder of the fixture in rigidly holding the fixture to the base.

2,315,956
METHOD OF AND MEANS FOR MAKING REINFORCED CONCRETE FLOORS
Frederick Heath, Tacoma, Wash., assignor to Chadwick N. Heath, Decatur, Ga.
Application October 17, 1939, Serial No. 299,851
13 Claims. (Cl. 72—66)

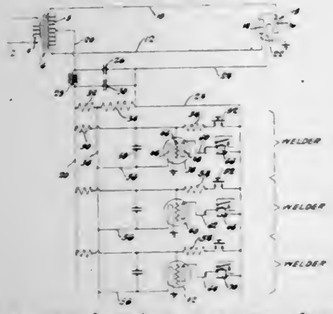


1. The method of making floors comprising forming hollow tile with a projecting flange along one side at the bottom of the tile, thereafter placing such forming tile in engagement with a filler, then binding the tile and filler together to make a composite unit with the flange extending outwardly, thereby producing units which may be placed in contiguous relationship on a suitable support to enable casting a concrete beam in the space provided between adjacent tile and above their flanges.

2,315,957
COLOR STABILIZATION OF LIGHT DISTILLATES
Amiot P. Hewlett, Summit, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application August 10, 1940, Serial No. 352,132
7 Claims. (Cl. 44—77)

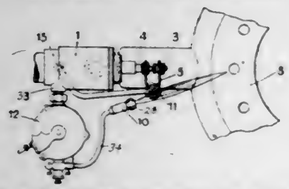
1. The method of stabilizing the color of a refined substantially colorless light petroleum oil product which comprises dissolving in said product a small but sufficient proportion of pentanediol in the range from 0.05% to about 1% by weight to suppress discoloration of the product by the action of sunlight radiations.

2,315,958
CONTROL SYSTEM
Frank E. Hill, Detroit, and Francis G. da Roza, Ferndale, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application December 22, 1941, Serial No. 423,962
6 Claims. (Cl. 171—97)



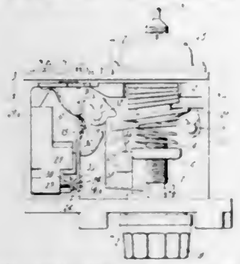
6. In a control system, a source of power, a plurality of units to be supplied therefrom and to operate intermittently, switching means to control the connection of the units to the source of power, and control means for the switching means comprising a plurality of gaseous electronic tubes connected in parallel, each tube connected to and controlling the switching means for one of the units in which the voltage drop across the tube during its conductive period is only a small part of that required to make it initially become conductive whereby only one tube may conduct at a time and only one unit may operate at one time.

2,315,959
SAFETY SHUTOFF DEVICE FOR GAS VALVES
John Hermann Gustav Horstmann, Bath, England
Application September 11, 1941, Serial No. 410,472
In Great Britain January 15, 1940
2 Claims. (Cl. 158—117.1)



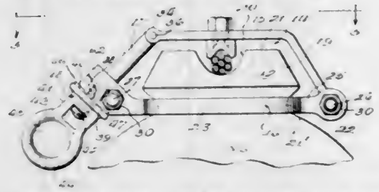
1. In a gas burning appliance, a main burner, a gas supply line for said burner, a main valve in said gas supply line for controlling flow of gas to said burner, a thermally operable valve in said gas supply line between said main valve and said main burner for controlling flow of gas to said main burner, a thermosensitive element operatively connected to said thermally operable valve and operable when heated to open said thermally operable valve and when cool to close said thermally operable valve, an auxiliary burner mounted adjacent to said thermo-sensitive element in a position to direct its flame when lighted to apply intense heat to said thermo-sensitive element to quickly heat the same and thereby cause the same quickly to open said thermally operable valve, a gas supply tube for said auxiliary burner connected with said gas supply line between said main valve and said thermally operable valve, control means for said auxiliary burner interposed in said gas supply tube and including means whereby it is operable by the supply of gas thereto to ignite said auxiliary burner and then to cut off the supply of gas thereto and thereby extinguish the same after the elapse of a brief predetermined period of time, and a second auxiliary burner separate from said first mentioned auxiliary burner and having a gas supply connection with said gas supply line between said main valve and said thermally operable valve, said second mentioned auxiliary burner being intended to burn constantly and being mounted in a position relative to said thermo-sensitive element to apply a small non-damaging amount of heat to said thermo-sensitive element sufficient to cause the latter to maintain said thermally operable valve open, said thermo-sensitive element thereby being operable to close said thermally operable valve to cut off the supply of gas to said main burner upon extinguishment of said second mentioned auxiliary burner and consequent cooling of said thermo-sensitive element.

2,315,960
CIRCUIT CONTROLLER
Frederick W. Hottenroth, Jr., Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application October 31, 1941, Serial No. 417,286
9 Claims. (Cl. 200—83)



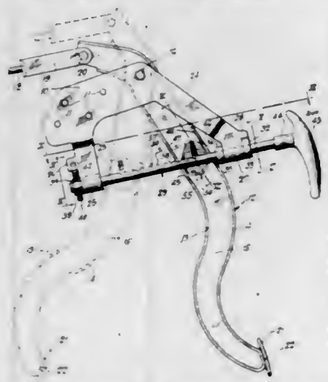
1. A circuit controller comprising a fixed contact, a switch member having a rigid base portion rotatably mounted upon a fixed pivot and movable between circuit opening and circuit closing positions, a substantially rigid contact arm carrying at one end a movable contact and having its other end flexibly connected to said rigid base portion, said contact arm in the circuit closing position of said switch member being disposed in non-parallel relation with respect to a line passing through said fixed pivot and said fixed contact, means for rotating said rigid base portion of said switch member to said circuit opening position, and snap action means for releasably retaining said contacts in engagement during a predetermined initial rotation of said rigid base portion and for re-engaging said contacts with a snap action, whereby disengagement of said contacts is necessarily preceded by relative sliding movement and said contacts are re-engaged without substantial wiping action.

2,315,961
CONDUCTOR-INSULATOR CLAMP
David C. Hubbard, Centralia, Mo., assignor to A. B. Chance Company, Centralia, Mo., a corporation of Missouri
Application December 11, 1941, Serial No. 422,476
10 Claims. (Cl. 174—172)



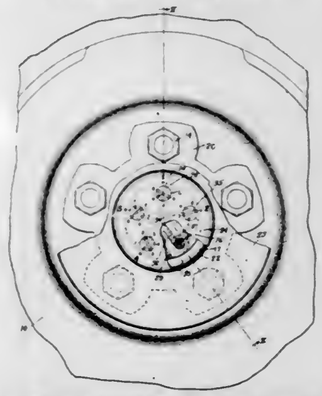
10. In a conductor-insulator clamp for electric lines, the combination of clamping means adapted to be permanently secured in the peripheral groove of an insulator, with a resilient arm pivotally mounted in said clamping means and adapted to engage a line conductor carried by said insulator, a connecting rod pivotally secured to said arm, and securing means carried by said connecting rod and engaging said clamping means for urging said resilient arm into engagement with the conductor on said insulator, said securing means comprising a threaded member threadedly engaging said connecting rod, said threaded member having an eye formed therein for engagement with a clamp stick.

2,315,962
BRAKE LEVER
Herbert S. Jandus, Detroit, Mich., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application February 20, 1941, Serial No. 379,769
15 Claims. (Cl. 74—535)



1. A lever construction comprising a swinging member, clutching members normally cooperating for holding said swinging member in an adjusted position, means on said swinging member slidably and rotatably carrying one of said clutching members, and means on the other of said clutching members for actuating said clutching members into and out of said cooperation.

2,315,963
AUTOMOBILE WHEEL LOCK
Herbert S. Jandus, Detroit, Mich., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application February 23, 1942, Serial No. 432,005
2 Claims. (Cl. 70—167)

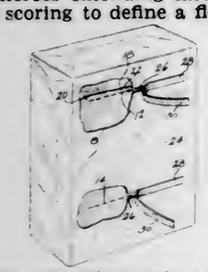


1. A locking assembly on an automobile wheel of the type shown, comprising a keeper element in the form of a cylindrical cup having a laterally extending flange apertured to receive the wheel supporting bolts to be thereby secured to the wheel, a locking cover in the form of a cylindrical cup for receiving the keeper member and having a laterally extending flange for location in front of the wheel supporting bolts to prevent access thereto, the outer wall of said locking cover having a plurality of circular holes therethrough and the outer wall of said keeper element having locking holes in alignment with said circular holes, a plurality of integral lock bolts each having a cylindrical head for engagement with one of said circular openings and having an intermediate enlarged body part, a plate secured to the inner side of the outer wall of said locking cover and having slots receiving said bolts between their heads and enlarged portions whereby to hold said bolts with their heads in said circular openings, said bolts having locking tongues on their inner ends and the openings through the front wall of said keeper element having slots extending therefrom for receiving said tongues when said locking cover is applied to the keeper element, said bolts being individually rotatable to move their tongues out of the respective locking slots for locking engagement of the tongues with the keeper element after application of the locking cover thereto whereby said bolts must all be individually rotated to predetermined positions before their locking tongues are brought into alignment with said locking slots for removal of the locking cover from the keeper element.

2,315,964
CIGARETTE PACKAGE HAVING MEANS FOR ATTACHING MATCHES THERETO
Harry H. Johnson, Kansas City, Mo.
Application August 18, 1941, Serial No. 407,293
1 Claim. (Cl. 206—48)

In a multiple unit package of the character described, a case forming a part of one unit having two lines of perforations provided therein; a jacket enclosing the case having a slit provided therein in register with each of said lines of perforation respectively; and a strip removably over-

lying each slit, said case having a scoring therein parallel to and in spaced parallel relation with one of the lines of perforations, said one line of perforations having terminal perforations at each end thereof extending laterally therefrom toward the scoring to define a flap, the other of



said lines of perforations being spaced from the first mentioned line to the side thereof opposite from the scoring, the edges of the slits being on each side of the respective lines of perforations to expose the latter after the said strip has been removed.

2,315,965

INSECTICIDE AND METHOD OF USING

William A. Knapp, New York, N. Y., assignor to General Chemical Company, New York, N. Y., a corporation of New York

No Drawing. Application January 1, 1942, Serial No. 425,344

8 Claims. (Cl. 167—30)

1. An insecticide comprising as an active insecticidal ingredient a dihydroanthracene.

2,315,966

PHOTOGRAPHIC EMULSION

Edward Bowes Knott, Wealdstone, England, assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application April 8, 1941, Serial No. 387,446. In Great Britain April 15, 1940

5 Claims. (Cl. 95—6)

5. A self-developable photographic material comprising a support bearing a layer comprising a sensitive gelatino-silver bromide emulsion containing a substantially water-insoluble resin selected from the group consisting of soft lac resins and glyptal resins, and hydroquinone such that 8 liters of emulsion contain about 50 grams of hydroquinone and about 100 grams of the resin.

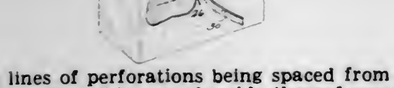
2,315,967

BUILDING CONSTRUCTION

Eben Knowlton, Cold Spring Harbor, N. Y.

Application June 13, 1942, Serial No. 446,851

5 Claims. (Cl. 20—4)



1. A surface covering to cover an existing surface; consisting of a plurality of plywood panels laid on said surface, the adjoining portions of said panels having rabbets in the exposed face thereof, the rabbets defining grooves, a substantial number of elongated fibrous strips mounted on a fabric backing filling said grooves and adhesively secured therein with the exposed faces of said strips substantially coplanar with the face of said panels, means to flexibly attach adjoining edges of said strips and means to secure said strips in said rabbet.

2,315,968

EDGE ROLL FOR MATTRESSES

Phillip Krakauer, Brooklyn, N. Y., assignor to Kay Manufacturing Corporation, Brooklyn, N. Y., a corporation of New York

Application May 11, 1938, Serial No. 207,316

5 Claims. (Cl. 5—360)



1. In a roll edging for furniture and mattresses, a cylindrical core comprising a plurality of strips of paper twisted into a hard compact roll, an elongated fabric strip helically wound around and twisted with the roll and substantially covering said roll, the adjacent helical edges of the strip being slightly spaced apart, said strip having a tendency to unwind from the roll and being unsecured thereto except by the means hereinafter mentioned, and means for retaining the twisted strip in place on the roll and for covering the roll comprising solely a narrow covering sheet of woven fabric of slightly greater width than the circumference of the roll and having edge portions projecting beyond the roll and bent back on themselves to form two thicknesses of material on each of said edge portions, and stitching passing through the edge portions closely adjacent the roll and securing said portions together and tensioning said covering sheet about the roll sufficiently to prevent the helically wound strip from unwinding.

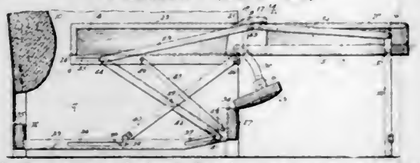
2,315,969

FOLDING COUCH BED

Abraham Krakauer, Brooklyn, N. Y., assignor to Kay Manufacturing Corporation, Brooklyn, N. Y., a corporation of New York

Application February 21, 1940, Serial No. 320,071

8 Claims. (Cl. 5—31)



1. In a couch-bed having a relatively fixed back, a pair of fames hinged together and foldable into a seat-forming position wherein one frame is above the other and both frames are below and in front of the back, a mechanism to lift the lower frame and to move said lower frame forwardly on the rotation of the upper frame through an angle of approximately 180°, said mechanism including a radius control bar pivoted at one end to a relatively fixed point of the couch in front of and below the back and pivoted at its other end to said lower frame, a pair of crossed legs each pivoted at its upper end to the lower frame, fixed means on the couch for supporting the lower ends of the legs, and a link bar connected at one end to the upper end of one of the legs and to the lower frame and operatively connected at its other end to the upper frame and movable therewith.

2,315,970

SASH CORD GUIDE

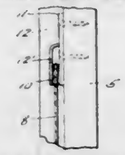
Adolf G. Krocker, Waco, Tex.

Application July 21, 1941, Serial No. 403,425

1 Claim. (Cl. 16—214)

The combination with the cord of a sliding

window sash, of a sash cord guide comprising a plate adapted to be secured adjacent to a sash guide, a saddle formed on the plate and comprising a substantially semi-circular body portion having a cord groove extending through the entire length thereof, a guard plate formed integral with the body portion and extending upwardly



from the body portion, the upper end of the guard plate extending inwardly and being connected with the plate above the body portion, providing a clearance for the sash rope moving over the saddle, and said groove adapted to hold the cord moving therethrough, against lateral movement with respect to the saddle.

2,315,971

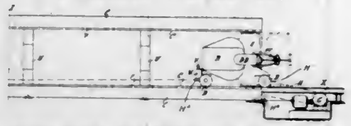
MACHINE FOR STRETCHING METALS

Norman Cecil Lake, Stockton-on-Tees, England, assignor to Head, Wrightson & Company, Limited, Thornaby-on-Tees, England

Application June 24, 1941, Serial No. 399,546

In Great Britain November 13, 1939

6 Claims. (Cl. 153—35)



1. A stretching machine comprising in combination a pair of gripper heads, gripper jaws on the heads to grip material to be stretched between the heads, means to move the heads relatively apart to stretch material gripped by the heads, and a frame to which the stretching load is transmitted from the heads, the frame being a structure which is self-contained to resist the load and the frame including a pair of opposed longitudinal members spaced apart to receive the heads between them and engaged directly by the heads so that the load due to a stretching operation is transmitted from the heads to the longitudinal members as a compressional load at zones which are diametrically opposed about the stretching axis between the heads and the frame including also a plurality of transverse open jaw-shaped parts connected at their jaw extremities respectively to the longitudinal members to support them against buckling under the compressional load, all the jaw shaped parts being located at the same side of the longitudinal members with the jaw openings facing the longitudinal members to provide ready access to the heads from the other side of the longitudinal members.

2,315,972

GARMENT

Edward C. Lindfelt, Des Moines, Iowa

Application May 15, 1939, Serial No. 273,748

2 Claims. (Cl. 2—51)

1. A water-proof apron of tailored construction comprising a protector sheet for covering the front of the body, said sheet being provided with a relatively narrow top edge extending from shoulder to shoulder, a collar strap for suspending the sheet from the neck comprising a wide, double-thick band of non-stretching material folded at the front edge and reenforced with binding at the rear edge, said strap having its rear edge portion spread to a wider dimension at the ends, attaching means for securing said ends to the top edge of said sheet wherein the rear edges of the sheet comprise elongations of the rear edges of said strap and form a gradual curve where joining the rear edge of the lower portion of the apron, the rear portion of said ends being adapted to draw the strap to fit the neck when the apron



is worn, and providing additional area for attachment of the strap to said sheet, said sheet having an enlargement at both sides extending toward the rear at about waist level, and strap anchors on the enlarged portion at said level comprising flaps secured to the sheet and strap ends secured to said flaps while lying against but unattached to said sheet to minimize tearing of said sheet, and a tie strap connected to said anchors to secure the apron to the waist of a wearer.

2,315,973

METHOD OF PREPARING CELLULOSE FOR ESTERIFICATION

Carl J. Malm, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application May 9, 1939, Serial No. 272,677

4 Claims. (Cl. 260—229)

3. A method of preparing cellulose for esterification which comprises presoaking one part of the cellulose with a relatively large amount of lower fatty acid of 75–95% strength, substantially the remainder being water, at least until activation of the cellulose has occurred, removing all but approximately one-half part of the acid from the cellulose by pressure, mixing into the mass approximately one-half part of anhydrous acid of the same kind as employed initially, and subjecting to pressure to remove all but one-half part of acid.

2,315,974

METHOD OF COATING

Carl J. Malm and Gerard J. Clarke, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

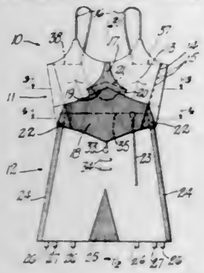
No Drawing. Application November 10, 1939, Serial No. 303,871

4 Claims. (Cl. 117—85)

1. A method of applying a flexible, strongly-adhering coating to a surface of an object which is not affected by moderate heat, which comprises applying thereto a thin layer of a cellulose ester having a melting point of not more than 230° C. and a char point at least 40° C. above its melting point, containing not more than 20% of a non-resinous plasticizer and substantially free of resin, subjecting the layer to a melting temperature 20–30° C. above the melting point of the ester for 4–5 minutes, cooling and after the layer has hard-

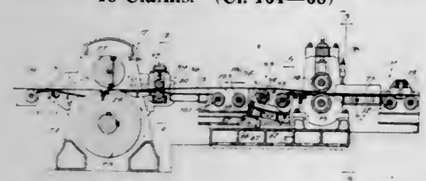
ened, applying thereto at least one overcoating of good flexibility comprising a cellulose ester compatible with the base layer.

2,315,975
COMBINATION BRASSIERE AND GIRDLE
Lilyan Malmstead, New York, N. Y.
Application November 27, 1941, Serial No. 420,642
6 Claims. (Cl. 2—30)



1. A foundation garment including a brassière having a front wall having a top section and a bottom section, the former having bust receiving pockets, the latter lying below said pockets, and elastic means between the pockets and interconnecting the same whereby the top section is expansible, with the bottom section being connected to the pockets to restrain the same and being free of said elastic means for vertical movement of the latter relative to the said bottom section so that the bottom section is capable of exerting a downward pull principally on said pockets.

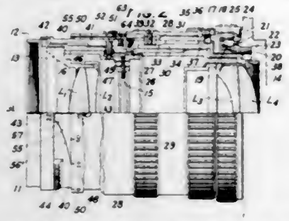
2,315,976
APPARATUS FOR OPERATING ON SHEET MATERIAL
Harold S. Method, East Chicago, Ind., assignor to Inland Steel Company, Chicago, Ill., a corporation of Delaware
Application April 14, 1941, Serial No. 388,531
18 Claims. (Cl. 164—68)



1. In apparatus comprising means for feeding sheet material and means to which said material is fed and operating on said material during the feeding of said material and in such operation exerting an accelerating action on the material and reciprocatory piston and cylinder fluid-pressure means between said first and second named means for yieldingly exerting force against the material in a direction to deflect the material during said accelerating action.

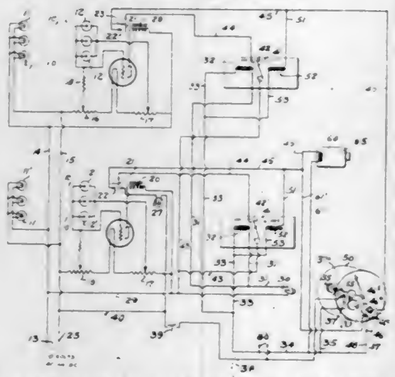
2,315,977
DEPTH OF FIELD INDICATOR FOR CAMERAS
Joseph Mihalyi, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application June 7, 1941, Serial No. 397,088
3 Claims. (Cl. 95—44)

1. A focusing lens mount for cameras comprising in combination a lens barrel housing a lens, a rotatable focusing ring for focusing the lens and having a focusing scale extending circumferentially of its periphery, a diaphragm in said lens barrel, a diaphragm operating ring rotatably mounted on said lens barrel and connected to said diaphragm for adjusting the same, a depth of field ring connected to said mount to telescope with said focusing ring and held against rotation, said depth of field ring provided with a depth of field scale comprising a pair of curves, based upon



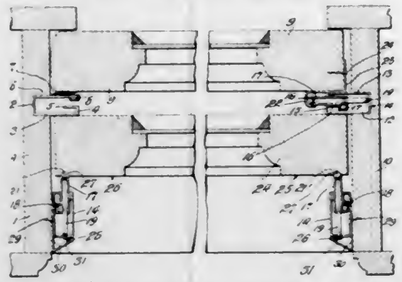
the depth of field of said lens with different diaphragm settings and different focus adjustments of the lens, disposed symmetrically on opposite sides of a given point and adapted to overlap and embrace a length of said focusing scale, and means connecting said depth of field ring to said diaphragm operating ring whereby the former is adapted to be moved axially of the mount to move the depth of field scale transversely of said focusing scale during adjustment of the diaphragm.

2,315,978
PHOTOGRAPHIC TIMING DEVICE
William P. Moorefield, St. Petersburg, Fla., assignor, by mesne assignments, to Automatic Electrical Devices, Inc., St. Petersburg, Fla., a corporation
Original application November 15, 1935, Serial No. 50,051. Divided and this application December 20, 1940, Serial No. 371,037
8 Claims. (Cl. 95—11)



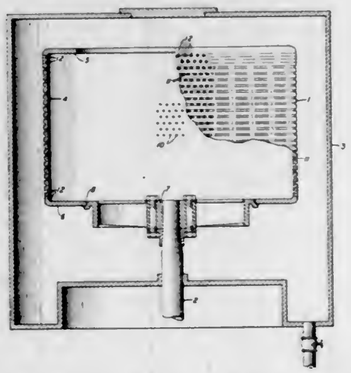
6. Apparatus for judging races at a race track including a plurality of light beam projectors at one side of the track positioned to project a plurality of beams in substantially vertical alignment across the track, a plurality of similar aligned photoelectric cells positioned at the opposite side of the track to receive the beams from said projectors, an associated circuit including a relay adapted to be actuated through interruption of said beams, said circuit including amplifying means and adjustable resistors coacting with said relay in a manner such that the relay will remain inoperative until a predetermined number of beams are interrupted.

2,315,979
WEATHER STRIP
Axel G. Norden, Valley Stream, N. Y., assignor to Eben Knowlton, New York County, N. Y.
Original application May 26, 1942, Serial No. 444,513. Divided and this application September 23, 1942, Serial No. 459,358
3 Claims. (Cl. 20—68)



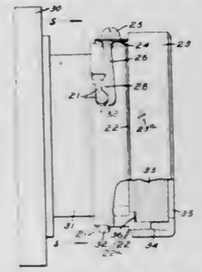
1. In a window having a frame with two vertically sliding sash members, and a groove in each side of the frame intermediate the sash members adapted to receive a parting strip, a hollow parting strip fitted to each of said grooves, an angular strip which extends longitudinally of one of said sash members secured to one side thereof, a U-shaped member mounted in one of said hollow parting strips, the legs of which extend into the rectangular parting strip, spring means which hold the closed portion of the U against the angular strip secured to the sash, means to prevent the U-shaped member moving outwardly beyond a predetermined point, similar members mounted on opposite vertical sides of the frame so that the U-shaped portion engages the face of the other sash member and urges said other sash member towards the parting strips.

2,315,980
CENTRIFUGE BASKET
Charles A. Olcott, West Milford, N. J.
Application March 12, 1941, Serial No. 382,851
2 Claims. (Cl. 210—76)



1. In a machine of the kind described, a centrifugal basket comprising a cylindrical wall having a multiplicity of holes for the discharge of centrifuged materials, said holes being arranged in a plurality of circumferential rings, and an upper and a lower basket head integral with said cylindrical wall, said wall having a plurality of external circumferentially complete grooves each overlying a respective one of said rings of holes, at least one of the rings of holes nearest the respective basket heads being ungrooved.

2,315,981
FILTER MOUNT FOR PHOTOGRAPHIC CAMERAS
Harold T. Olson, Rochester, N. Y., assignor to The Folmer Graflex Corporation, Rochester, N. Y., a corporation of Delaware
Application October 3, 1941, Serial No. 413,435
9 Claims. (Cl. 95—81.5)

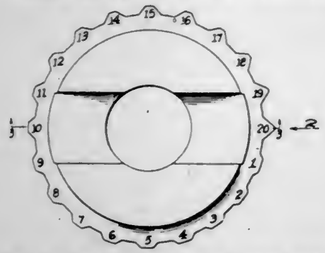


1. In a filter mount for photographic cameras wherein there is provided a body member supporting the filter and retaining cap therefor, which body member has a peripheral surface that is truly cylindrical throughout, and wherein there is provided a lens barrel to receive detachably said cylindrical body in concentric relation thereto, which lens barrel has a peripheral surface that is truly cylindrical throughout for such concentric reception of the said body member, and wherein one of said parts—viz. the body member and the lens barrel—is provided at an edge thereof with a plurality of spaced bayonet-type slotted openings and the other of said two parts is provided with a corresponding plurality of correspondingly spaced radial pins for reception in said slotted openings; cooperating holding means for maintaining said pins and slotted openings in locking relation, said cooperating holding means including a spring arm for at least one of said slotted openings and its pin, said spring arm being curved to present an inner face that is concentric with and is received directly against the peripheral surface of that one of said parts that has the slotted openings, said cooperating holding means also including securing means to secure each such spring arm in said concentric position partially overlying the corresponding slotted opening, so as to engage and press against a lateral surface of the corresponding pin, and so that relative turning movement of the said two parts to disengage the same causes each such pin to stress or flex the corresponding spring arm upon said securing means as its point of support along the concentric peripheral surface to which it is secured.

2,315,982
CIRCULAR BROACHING CUTTER
Wilrose J. Phaneuf, Hudson, Mass., assignor to The Lapointe Machine Tool Company, Hudson, Mass., a corporation of Maine
Application April 28, 1941, Serial No. 390,691
1 Claim. (Cl. 29—95.1)

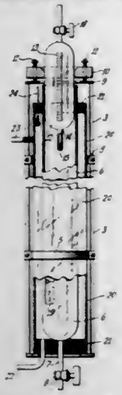
An axially reciprocated circular broaching cutter comprising a body having a substantial peripheral series of axially extended and outwardly projecting end-cutting broaching teeth each formed as a single unitary cutting element, all of said teeth springing from a single cylindrical base

surface and all having substantially the same base lengths and the same base angles but increasing progressively in height from tooth to tooth, each tooth having an external and non-reentrant cutting surface which is continuous from



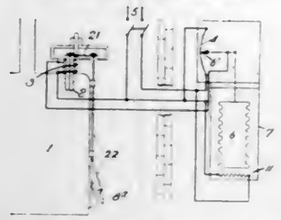
base surface to base surface, only one tooth being operative at any one time and each tooth being adapted to operate successively in every cut in the work, and each successive tooth slightly deepening at its apex the cut made by the next preceding tooth.

2,315,983
METHOD AND APPARATUS FOR FOAM DETERMINATION
John Ross, Manhasset, and Gilbert De Wayne Miles, New York, N. Y., assignors to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware
Application March 8, 1941, Serial No. 382,372
13 Claims. (Cl. 73—51)



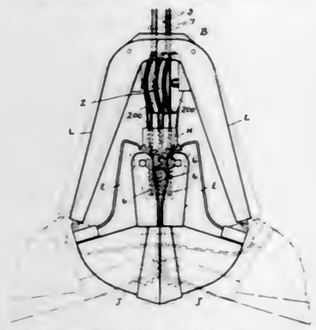
12. A device for measuring the foaming properties of liquids which comprises a frame; a vertical, cylindrical, substantially transparent receiving vessel attached to said frame and having a mouth at the upper end thereof; supporting means attached to said frame above the mouth of the receiving vessel and adapted to hold a container extending into the mouth of said receiving vessel; a container having an outside diameter only slightly smaller than the inside diameter of said receiving vessel, adapted for being held by said supporting means and for releasably retaining a predetermined quantity of liquid and having a stopcock at the upper portion thereof for releasing said liquid and an outlet orifice at the lower portion thereof whereby said liquid can be broken up into droplets during discharge therefrom; means for regulating and maintaining a substantially constant predetermined temperature in the receiving vessel and the container whereby liquid discharged from said container into a pool in said receiving vessel can introduce air beneath the surface of said pool to form foam; and means for measuring the resulting column of foam.

2,315,984
TEMPERATURE REGULATOR
Leonard Satchwell, Slough, England
Application January 20, 1940, Serial No. 314,848
In Great Britain January 31, 1939
1 Claim. (Cl. 236—91)



Apparatus for varying the temperature of a heating medium consequent on variation of weather conditions comprising a thermostat sensitive to and controlling the temperature of the heating medium, an auxiliary electric heating device in thermal contact with said thermostat, a thermally sensitive member in a container having walls exposed to weather conditions, an electric heating means for introducing heat into said container at a constant and substantially uniform rate, and electrical control means operated by said thermally sensitive member for gradually increasing or decreasing the supply of heat from said auxiliary heating device to said thermostat, whereby a continually varying quantity of heat is supplied to the thermostat as the outside temperature changes.

2,315,985
CLAMSHELL BUCKET
Daniel M. Schwartz, Pittsburgh, Pa., assignor to Dravo Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Application October 19, 1942, Serial No. 462,486
6 Claims. (Cl. 212—81)

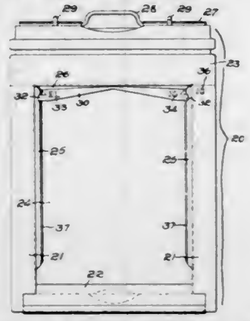


1. In apparatus for operating a clamshell bucket that includes bucket, holding line, and closing line, the invention herein described, which consists in an equalizer and cushion device, such device consisting of a longitudinally reciprocable stem, means for effecting reciprocation of the stem in one direction or the other in response to the tension upon one or other of the said lines in excess of that upon the companion line, and spring resistance to stem reciprocation in either direction.

2,315,986
METHOD OF SEPARATING CINEOLES FROM HYDROCARBONS
Paul H. Scrutchfield, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 29, 1941, Serial No. 385,850
8 Claims. (Cl. 260—333)

1. The method of separating cineole from a cineole-terpene mixture, which comprises dissolving the mixture in a petroleum hydrocarbon solvent therefor, treating the solution so formed with a predetermined amount of a selective liquid solvent for the cineole selected from the group consisting of phenol, resorcinol, hydroquinone and pyrogallol, separating the separated selective solvent from the mixture and recovering the cineole from the selective solvent.

2,315,987
PHOTOGRAPHIC CUT FILM HOLDER AND IDENTIFYING STENCIL OR TAB THEREFOR
Byron L. Smith, East Rochester, N. Y., assignor to The Folmer Graflex Corporation, Rochester, N. Y., a corporation of Delaware
Application October 1, 1941, Serial No. 413,132
15 Claims. (Cl. 95—1.1)



1. A sensitized surface holder for photographic purposes having a film septum or septums provided with forwardly turned-over top and lateral edges to receive a cut film, and a film identification device applied to a film septum of said holder having ends to engage and to be held in place by turned-over edges of said septum, said device comprising a sheet-like member adapted to be positioned in the holder overlying an edge portion only of the said film septum at the dark-slide insertion end of the said holder, so as to overlie an edge portion only of the cut film when positioned for exposure, said member being adapted to receive identification data upon its surface, and thereby to provide contrasting surface portions, permitting the identification-marking of said film.

2,315,988
TREATMENT OF SULPHURIC ACID FOR REMOVAL OF NITROGEN OXIDES
Norman C. Somers, Carneys Point, N. J., and Walter Crews Woodings, Jr., Brandywine Hundred, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 8, 1940, Serial No. 360,226
3 Claims. (Cl. 23—172)

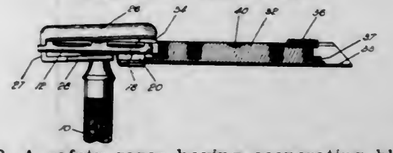
1. A process of removing nitrogen oxides from concentrated sulphuric acid that contains at least 85% of sulphuric acid which comprises adding a ferrous salt to said sulphuric acid and then blowing with a relatively inert gas.

2,315,989
TERMITE SHIELD
Alfred A. Tennison, Texarkana, Ark., and James D. Tennison, Memphis, Tenn.
Application August 7, 1940, Serial No. 351,734
3 Claims. (Cl. 43—107)



1. A termite shield having a substantially flat portion terminating at one end in a downwardly bent portion, the opposite sides of the shield being formed with reversely curled edges at right angles to the bend of the bent portion, adapted for longitudinal sliding telescoping engagement with complementary curled edges of adjacent shields during installation and adapted thereafter to be flattened down to provide tight seams and said downwardly bent portion having laterally projecting wings resulting from formation of said curled edge portions, said wings being adapted to overlap complementary wings of said adjacent shields to complete sealing of one end of each seam throughout the length of the shield.

2,315,990
SAFETY RAZOR
Nicholas Testi, Boston, Mass., assignor to Gillette Safety Razor Company, Boston, Mass., a corporation of Delaware
Application September 10, 1940, Serial No. 356,173
20 Claims. (Cl. 30—40)

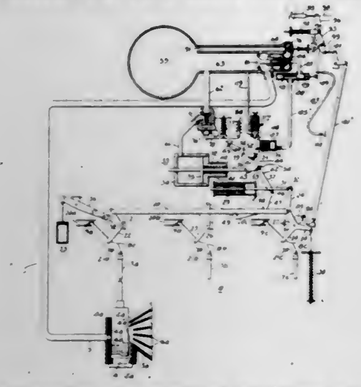


13. A safety razor having cooperating blade-clamping members spring pressed into clamping engagement and one having a fulcrum, in combination with an elongated magazine shaped to engage the fulcrum and movable to pry the blade-clamping members apart to receive a blade from the magazine.

2,315,991
ELECTRIC CIRCUIT BREAKER
Carl Thumim, Yeadon, Pa., assignor to General Electric Company, a corporation of New York
Application June 28, 1940, Serial No. 343,002
14 Claims. (Cl. 200—148)

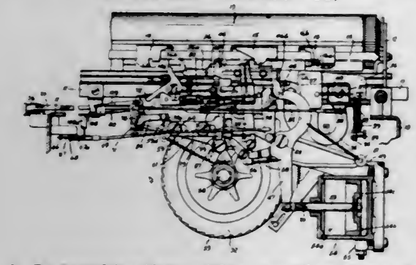
1. In an operating system for an electric circuit breaker comprising a plurality of relatively movable contacts, means for producing relative movement between said contacts to open said circuit breaker, a source of fluid under pressure, a blast valve associated with said source for producing upon opening thereof a blast of fluid past the contacting portions of said contacts for arc-

extinguishing purposes during the opening movement of said circuit breaker, pneumatic means for initiating the opening movement of said circuit breaker, and valve means directly controlled



by the opening movement of said blast valve for connecting said source and said pneumatic means to initiate the opening movement of said circuit breaker only after a predetermined opening movement of said blast valve.

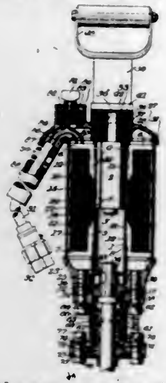
2,315,992
TYPEWRITING MACHINE
Richard von Reppert, Rochester, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application December 6, 1940, Serial No. 368,829
31 Claims. (Cl. 197—66)



1. In combination with a carriage for a typewriting machine, power means to return the carriage, normally ineffective margin defining means associated with the carriage, carriage retarding means, means to initiate operation of the carriage return means and power means set in operation by the initiating means for rendering the retarding means cooperative with the margin defining means.

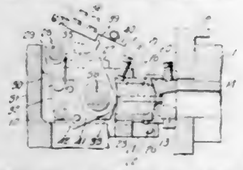
2,315,993
PERCUSSION TOOL
Carl S. Weyandt and Edward J. Missien, Homer City, Pa., assignors to Syntron Company, Homer City, Pa., a corporation of Delaware
Application October 3, 1941, Serial No. 413,533
In Belgium June 4, 1938
11 Claims. (Cl. 172—126)

1. In a percussion tool, a tubular guide member, electromagnet laminations surrounding said member and providing a dead center air gap substantially at the middle of the member, a piston adapted to reciprocate in said guide member, coil means surrounding said laminations, means to supply substantially spaced successive current impulses of like polarity to said coil means to provide a single pulsating magnetic field to reciprocate said piston, a tool adapted to be struck by said piston at one end of its stroke, resilient means providing a stop for said tool, and a buffer



selected from the group comprising polymerized butadiene and its homologues and substitution products or copolymers thereof with unsaturated compounds at the opposite end of said tubular member, said resilient means and buffer being adapted to maintain the piston in synchronism with the pulsating magnetic field.

2,315,994
CHIP CONTROL MECHANISM
Richard Lester Wilcox, Waterbury, Conn., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn., a corporation of Connecticut
Application May 18, 1942, Serial No. 443,405
26 Claims. (Cl. 10—24)

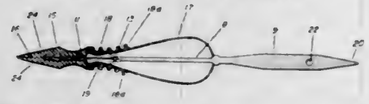


1. In combination with tools which cooperate to cut one or more chips from a workpiece, having an open space surrounding the point of severance of the chips; a member outside one of the tools and substantially concentric therewith, having movement with relation thereto which in one of its positions projects into said open space and forms an enclosed wall around a portion thereof at said point of severance, that portion of the space not enclosed being below the said point of severance.

2,315,995
ADDITION AGENT FOR ENHANCEMENT OF THE PROPERTIES OF DRILLING MUDS
Milton Williams, Houston, Tex., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Original application September 21, 1937, Serial No. 164,870. Divided and this application February 15, 1941, Serial No. 379,043
7 Claims. (Cl. 252—1)

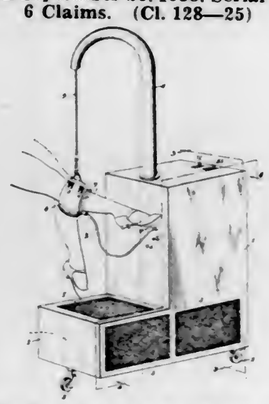
1. A water-soluble glass which is a shock chilled anhydrous glassy melt of an alkali metal phosphate homogeneously associated with an oxygen containing compound, of a normally solid element other than phosphorus, of groups 2–8 of the periodic system having a normally solid oxide, the content of said element, in terms of its oxide, in said glass being at least 1% by weight, said glass having a more permanent deflocculating and viscosity reducing effect upon a solid aqueous suspension than an equal quantity of sodium hexametaphosphate.

2,315,996
FOUNTAIN ART BRUSH
Myrtle F. Workman, San Diego, Calif.
Application July 11, 1941, Serial No. 401,915
6 Claims. (Cl. 15—136)



1. In a fluid applicator, the combination of an integral central support having a discharge spout in one end thereof, said spout having a ridge on its outer wall and an inlet through said wall, a sponge rubber brush point mounted upon said spout and secured against displacement by said ridge, and a bulb fluid reservoir mounted upon one end of said support and discharging into said inlet, the said end of said support being located within and extending through the walls of said reservoir.

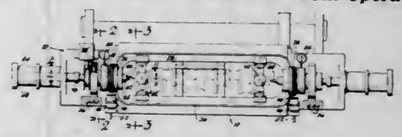
2,315,997
VASCULAR EXERCISER
Philip L. Ginsberg, New York, N. Y.
Application September 26, 1938, Serial No. 231,623
6 Claims. (Cl. 128—25)



1. A method of treating a limb of the human body which consists in raising and lowering the same relative to the body and also maintaining said limbs stationary between consecutive up-and-down movements, while exerting circumferential pressure on said limb substantially only during the lowering of the limb.

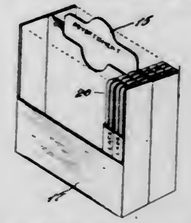
2,315,998
MASS CENTERING MACHINE
Frank W. Haeger, Lansing, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application August 2, 1940, Serial No. 349,388
1 Claim. (Cl. 73—53)

In a balancing machine, the combination of a frame adapted to be rotated, means for yieldingly mounting the frame so it may be displaced in response to unbalance, means for rotating the frame, spaced means located adjacent the ends of said frame for adjustably supporting a part to be balanced in said frame with its axis substantially parallel to the axis of rotation of said frame, said means comprising adjustable holding devices spaced angularly about the axis of said frame, a plurality of signals, a signal operating assembly, means for adjustably mounting the assembly adjacent the frame so that it may be moved toward or from operative



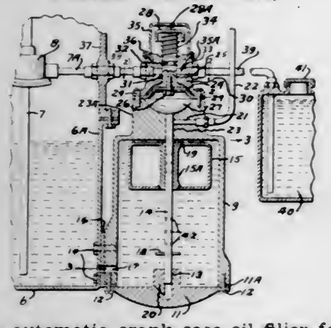
position adjacent the axis of rotation of said frame, said assembly comprising a plurality of signal operating means, actuators on said frame, each actuator being arranged in longitudinal alinement with one of said holding devices and in the same transverse plane as one of said signal operating means so as to actuate said means to give a signal when the angular position assumed by said frame while rotating due to unbalance causes said actuator to engage the corresponding signal operating means thereby indicating the angular location of unbalance.

2,315,999
DISPLAY BOX
Carl B. Holm, Englewood, N. J., assignor to International Braid Company, a corporation of Massachusetts
Application September 18, 1939, Serial No. 295,363
1 Claim. (Cl. 206—44)



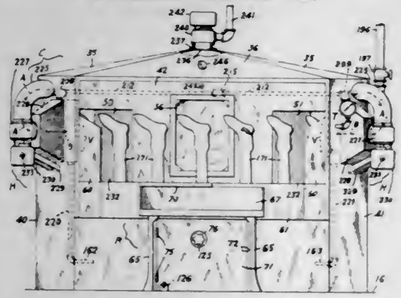
A generally rectangular display box having a bottom wall and upstanding side and end walls of equal width throughout their length and of a single thickness and a top wall provided with a centrally located opening therein, said side walls being slit at opposite points intermediate their ends, and said bottom wall being foldable along a line connecting said slit to dispose the other pair of walls in adjacency for supporting the box upright on said other pair of walls, a portion extending upwardly above the fold when the bottom wall of the box is folded back on itself, said end walls being integral with the front wall and folded at right angles therewith along a line intersecting said front and end walls and having a tab thereon folded at right angles thereto and extending within the box into frictional engagement with the bottom wall to secure the same in place, and a closure member for said display box having side and end walls and a bottom wall providing an open side for removably receiving said display box when said box is in unfolded position with the end wall of the closure member engaging the end walls of the box and of a depth to prevent folding of the box when the closure is in position.

2,316,000
AUTOMATIC CRANKCASE OIL FILLER
Alfred O. James, Detroit, Mich.
Application May 31, 1940, Serial No. 338,037
1 Claim. (Cl. 184—103)



In an automatic crank case oil filler for supplying oil to an engine pump, the same comprising a control unit secured to said crank case, the top portion of said control unit removably secured to the bottom portion thereof for forming a chamber therein, a valve vertically positioned within a bore of said top portion, a pipe line directly connected to a supply tank and to an oil pump by the use of a transversely extending passage positioned within the aforesaid top portion, a diaphragm positioned intermediate the control unit and the top portion thereof, the said valve being adjacent said diaphragm within said chamber, the control unit having a bore and a passage for a vacuum line to control said diaphragm and valve, and means to open and close the aforesaid transversely extending passage.

2,316,001
FABRIC DRYING AND SHAPING APPARATUS AND METHOD
Frank Y. Kitzmiller, Reading, Pa.
Application August 26, 1940, Serial No. 354,152
9 Claims. (Cl. 223—76)



1. In textile fabric drying and shaping apparatus, a support, a form carrier rotatably mounted on said support comprising a hub-like fluid distributor, arms extending radially from said distributor, an annular series of forms disposed one on each of said arms and conduit means supported by each of said arms providing a fluid path from said distributor to the corresponding forms.

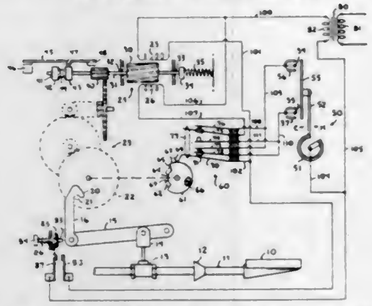
2,316,002
NECKTIE KNOT PROTECTOR
Onnie G. Koivisto, Bovey, Minn.
Application July 7, 1941, Serial No. 401,358
1 Claim. (Cl. 2—144)

A necktie knot protector comprising a shell formed from a single circular blank of Celluloid having a downwardly directed rearwardly bent upper portion and two laterally directed rearwardly bent side portions, said portions having their free convex edges spaced and confronting one another to thereby provide a Y-shaped opening in the back of the shell to permit a necktie knot being pressed in a rectilinear direction from



rear to front of the shell to apply the shell to the knot, said rearwardly bent upper portion providing a flap adapted to straddle the top of the knot while the rearwardly bent side portions provide flaps adapted to straddle the sides of the knot, the front of the shell provided with a concave upper edge and being substantially triangular and adapted to engage the front of the knot.

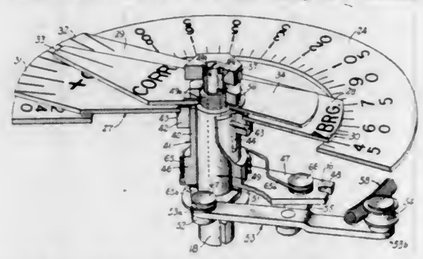
2,316,003
CONTROL APPARATUS
John P. Kriechbaum, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application June 7, 1941, Serial No. 397,039
16 Claims. (Cl. 172—239)



15. In a two-stage control system, in combination, a device biased to a safe position and adapted to be actuated to either of two active positions, means including a rotary electrical motor for operating said device, a lifting winding and a holding winding for said motor, a first pair of electrical connections through which said lifting winding may be energized, a second pair of electrical connections through which said holding winding may be energized, and multiple switch means operated simultaneously with said device for opening each of said first pair of connections at different predetermined positions of said device, while preventing closure of more than one of said second pair of connections at any position of said device.

2,316,004
COMPENSATING DEVICE
Edward J. Kuebert, Bellmore, and Hilliard F. Penfold, Hollis, N. Y., assignors to Fairchild Aviation Corporation, Jamaica, N. Y., a corporation of Delaware
Application July 17, 1941, Serial No. 402,798
7 Claims. (Cl. 250—11)

1. A compensating device for use with a radio compass having a revoluble loop antenna, in combination, a driving mechanism connected to and operable by said antenna upon rotation thereof, a scale, a rotatable sleeve, means connecting said sleeve to said driving mechanism for operation thereby, a pointer secured to said sleeve and rotatable thereby over said scale to indicate thereon the setting of said loop antenna, a hollow shaft rotatably mounted within said sleeve, means connecting said shaft to said sleeve and accordingly to said driving mechanism for operation thereby, an adjustable device for effecting movement of



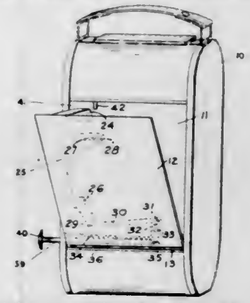
said shaft relative to said sleeve during the rotational movement of said shaft and sleeve in proportion to a difference between the antenna bearing and the true bearing of the radio wave intercepted thereby, and a pointer connected to said shaft and located adjacent said first pointer to indicate relative movement between said sleeve and said shaft whereby to visibly determine said difference between the antenna bearing and the true bearing of the radio wave.

2,316,005
RECOVERY OF SORBED OIL
Frank B. Lachle, San Mateo, Calif., assignor to The Schwarz Engineering Company, Inc., San Francisco, Calif., a corporation of Nevada
No Drawing. Application October 26, 1940, Serial No. 363,009
2 Claims. (Cl. 260—428)

1. A process of recovering oil sorbed in materials of the character described, said material being characterized by its preferential wetting by water with reference to oil, which includes the steps of adding water to the material in an amount to effect a surface displacement of the oil by water without passing the transition point at which mudding will occur, subjecting the resulting mixture to a ball mill effect for a sufficient time to produce a homogeneous condition, then flooding the mixture with an excess of water and performing a rapid mixing operation to provide a homogeneous slurry, then recovering the oil from the slurry.

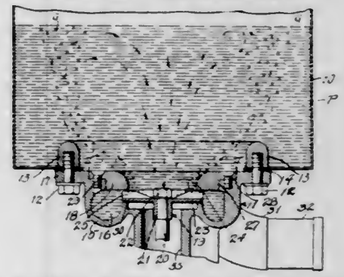
2,316,006
SHUTTER RELEASE FOR FOLDING CAMERAS
Lew W. Lessler, Binghamton, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
Application May 7, 1941, Serial No. 392,243
4 Claims. (Cl. 95—53)

1. A folding camera having a body including a front wall provided with an opening, a bed hinged to said body at one edge of said opening for movement between open and closed positions in the latter of which said bed forms a closure for said opening, a camera front movable through said opening between a retracted position when said bed is closed and an extended picture-taking position near the free end of said bed when the bed is open, a shutter and shutter operating member on said camera front, an actuating member mounted on said bed and movable with reference to said bed for engagement and operation of said shutter operating member when the camera front is extended over said bed, an operating member normally projecting from the camera, means connecting said operating member and said actuating member for move-



ment of either member by the other, and a control member mounted in the body at an edge of said opening remote from the bed hinge, said control member engaging and moving said actuating member for retracting said operating member when said bed is moved to closed position.

2,316,007
BOOSTER PUMP THROAT
William J. Lockett, Los Angeles, Calif., assignor to Thompson Products, Incorporated, Cleveland, Ohio, a corporation of Ohio
Application January 14, 1942, Serial No. 426,691
9 Claims. (Cl. 103—111)

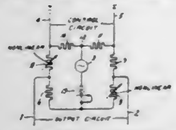


1. In a pump having a driven impeller with vanes radiating outwardly toward the periphery thereof, the improvement of an inlet throat for said pump comprising a ring member having its whole inner periphery formed by curved surfaces extending outwardly in opposite axial directions toward the end surfaces thereof, one of said curved surfaces being described by a greater radius than the other of said curved surfaces, said ring member overlapping the periphery of said impeller in closely spaced relation therefrom with said other and shorter curved surface lying adjacent said vanes.

2,316,008
ELECTRIC CONTROL CIRCUITS
Leslie Carter Ludbrook, near Rugby, England, assignor to General Electric Company, a corporation of New York
Application November 12, 1941, Serial No. 418,795
In Great Britain December 12, 1940
13 Claims. (Cl. 171—229)

1. In combination, a control circuit for producing a variable control voltage, an output circuit, means for producing an alternating volt-

age, means connected between said control circuit and the last mentioned means for controlling the phase of the voltage impressed on said output circuit with respect to said alternating voltage and in response to said control voltage



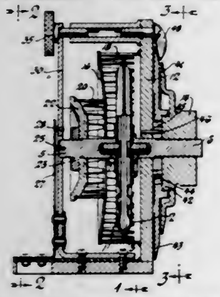
and comprising a bridge circuit having a pair of parallel non-reactive branches each including an impedance element, and impedance means connected to said control circuit for controlling the current through said impedance elements in response to said control voltage.

2,316,009

BAROMETRIC DEVICE

Edward J. Martin, Pleasant Ridge, and Robert H. Dietz, Birmingham, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application August 25, 1941, Serial No. 408,164
6 Claims. (Cl. 137—156)



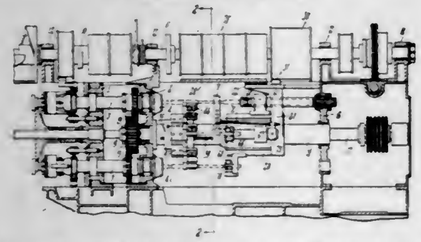
1. A barometric device to control a mechanism in response to a change in atmospheric pressure, including an aneroid cell, and a varying rate spring resiliently opposing the load of atmospheric pressure on the cell; said spring having a sinuous force/deflection curve with a low rate in a part of its operating range, whereby the device has increased sensitivity to changes in atmospheric pressure in a limited part of its working range.

2,316,010

STOCK HANDLING MECHANISM FOR AUTOMATIC LATHES

Carroll E. Miller, Windsor, Vt., assignor to Cone Automatic Machine Company Inc., Windsor, Vt., a corporation of Vermont

Application September 9, 1939, Serial No. 294,140
8 Claims. (Cl. 29—37)



1. The combination with a turret, and a plurality of tubular work spindles journaled in said turret, of a carrier movable with said turret, and having ways extending parallel to the axis of said turret, means for indexing said turret, a plurality of work supports, means for securing said work supports in said ways in desired positions therealong, and means for feeding work through said spindles into supported relation to said work supports.

2,316,011

FUELS FOR INTERNAL COMBUSTION ENGINES

Pharis Miller and Gould H. Cloud, Elizabeth, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application October 28, 1939, Serial No. 301,779
10 Claims. (Cl. 44—57)

7. A compression-ignition engine fuel comprising a hydrocarbon oil boiling above the gasoline range and 0.2 to 3% of a thiazole.

2,316,012

MOTOR FUEL

Pharis Miller, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application December 28, 1939, Serial No. 311,252
9 Claims. (Cl. 44—77)

1. A motor fuel composition comprising mostly hydrocarbons adapted as a fuel for spark-ignition engines blended with a minor but effective octane improving amount of at least 1% by volume of a ketonic compound boiling in the boiling range of said fuel and having the formula:

$$R \cdot CO \cdot R^1 \cdot CO \cdot R^2$$

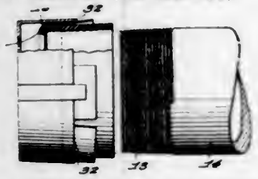
wherein R and R^2 are terminal organic groups, and R^1 represents an aliphatic hydrocarbon radical separating carbon atoms linked to oxygen, each oxygen atom being bound to only one carbon atom, said fuel composition being free of any substantial amount of other oxygen-containing organic compounds.

2,316,013

PIPE THREAD PROTECTOR

Thomas Mulholland, Pittsburgh, Pa.

Application March 22, 1941, Serial No. 384,749
3 Claims. (Cl. 138—96)



1. A pipe-thread protector comprising a liner sleeve of compressible material arranged to be slid over the threads to be protected, a variable-diameter pressure-sleeve composed of separate circumferentially spaced plates held assembled in the form of a sleeve by attachment each at one end to a mounting ring and arranged to telescope over the surface of the liner sleeve opposite the threads to be protected, and a clamping sleeve arranged to be forced into clamping telescopic relation with the pressure sleeve to vary the diameter of the latter and cause the latter to compress the liner sleeve against the threads to be protected.

2,316,014

TREATMENT OF COTTONSEED RESIDUE

Harold S. Olcott, Pittsburgh, Pa., assignor to Cotton Research Foundation, a corporation of Tennessee

No Drawing. Application August 25, 1941, Serial No. 408,214
2 Claims. (Cl. 99—2)

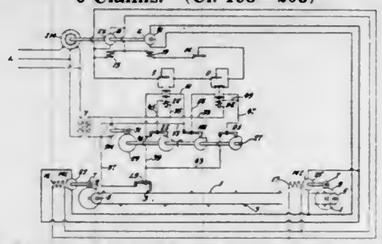
1. The method herein described of processing the residue of the solvent extraction of cottonseed meal in which a petroleum fraction is the solvent, and with retention of nutritive value, which consists in comminuting the whole of the quantity of the residue to be treated substantially to a degree of fineness capable of passing a 325-mesh screen, and subjecting the comminuted material to steam treatment.

2,316,015

CONVEYER CONTROL

John C. Owens, Grand Blanc, and Raymond A. Schomer, Flint, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application August 23, 1941, Serial No. 408,062
6 Claims. (Cl. 198—203)



1. A constant speed drive and control system comprising a conveyer having a multiplicity of equally spaced locating means fixed thereon for locating objects to be conveyed, motors for driving the conveyer, a source of power for the motors, output regulating means for said power source serving as speed regulating means for said motors, and control means for said output regulating means comprising a plurality of switches interconnected with said output regulating means, one of said switches being operable intermittently by said conveyer locating means and time controlled means for operating other of said switches at constant speed in timed sequence relation with said conveyer operated switch so that said output regulating means is controlled jointly by said switches at frequent intervals to maintain the speed of the conveyer constant.

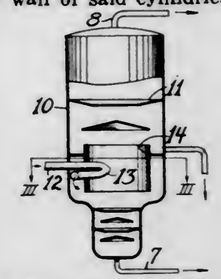
2,316,016

REMOVAL OF ENTRAINED PARTICLES FROM VAPORS

John W. Packie, Green Village, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application October 23, 1940, Serial No. 362,407
2 Claims. (Cl. 183—75)

1. Separation zone comprising a cylindrical drum, feed means for introducing a feed mixture into said drum, one substantially horizontal loop comprising an extension of said feed means the discharge end of which is substantially tangent to the inner cylindrical wall of the separation drum, said horizontal loop being characterized by having a diameter appreciably less than the diameter of said cylindrical drum, said separation drum also containing disposed therein an inner concentrically disposed cylindrical shell the upper end of which is adjacent said feed means and loop, said inner concentric disposed cylindrical shell being attached at its upper end to the inner wall of said cylindrical drum by a



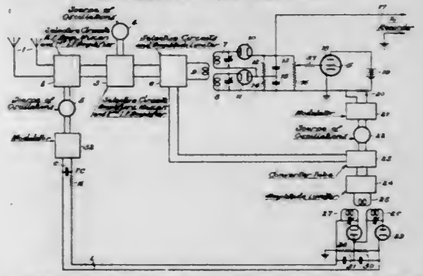
solid shield in a manner that vapors cannot flow upwardly between the cylindrical drum and the cylindrical shell, means for withdrawing vapors overhead and liquid from the bottom of said separation drum.

2,316,017

FREQUENCY CONTROL

Harold O. Peterson, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application May 23, 1941, Serial No. 394,763
15 Claims. (Cl. 250—8)



1. The method of detecting variations in the frequency of signals comprising wave energy the frequency of which varies abruptly in accordance with control potentials from a first frequency indicating a first signalling condition to a second frequency indicating a second signalling condition separated one from the other by a difference frequency which includes the following steps, producing oscillating voltages which are shifted in frequency from one frequency to another frequency as said wave energy varies from said first to said second frequency, inhibiting shifts in the frequency of said produced voltages in the presence of variations in the frequency of said wave energy of less extent than said variations in accordance with said control potentials, combining said wave energy with said produced voltages to produce other wave energy the frequency of which varies in accordance with the difference between said wave energy and said produced voltages, and detecting the frequency changes in said other wave energy.

2,316,018

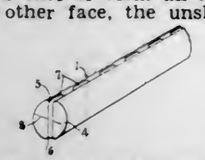
BELT

Lloyd F. Plummer, Dover, N. H., assignor to I. B. Williams and Sons, Inc., Dover, N. H., a corporation of New Hampshire

Application April 25, 1941, Serial No. 390,235
2 Claims. (Cl. 69—21)

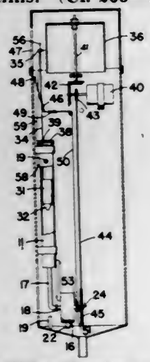
1. Solid round leather belting consisting of a

strip of leather equal in width and thickness to twice and half the desired diameter of the finished belt, respectively, a longitudinal slit along its median line extending partially through said strip from one face to form an integral hinge adjacent the other face, the unslit face being



folded upon itself upon said hinge thus forming a strip of square cross-section twice the thickness and half the width of the original strip, longitudinal stitching through both halves of said folded strip midway between the edges, the corners of said folded and stitched strip being trimmed to obtain a round cross-section.

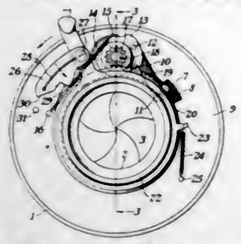
2,316,019
DEVICE FOR TESTING FLUIDS
Edgar G. Reese, Junction, Tex.
Application August 29, 1941, Serial No. 408,728
5 Claims. (Cl. 265—2)



1. A specific gravity indicating device comprising, in combination, a container, means arranged for periodically admitting fluid samples to said container, and for withdrawing them, a member in said container arranged for vertical movement therein and for assuming a vertical position which is a function of the specific gravity of a sample in the container, a marking device carried by said member, a thermally responsive member arranged for thermal contact with the sample in said container, a marking device arranged for movement by said thermally responsive device, a chart arranged adjacent said marking means and means arranged to bring said marking means in contact with said chart during the interval the fluid sample is in said container.

2,316,020
AUTOMATIC SHUTTER
William A. Riddell, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application February 17, 1942, Serial No. 431,279
7 Claims. (Cl. 95—63)

1. In a camera shutter, the combination with a shutter casing having an exposure aperture therein, leaves movably mounted over the exposure aperture, an oscillatable master member, operable connections between the master member and the shutter leaves, gear teeth carried by the master member, a spring for driving the master member in one direction, a movable rack meshing with the teeth of the master member, a latch element on the rack, a trigger including a latch element positioned to engage and move



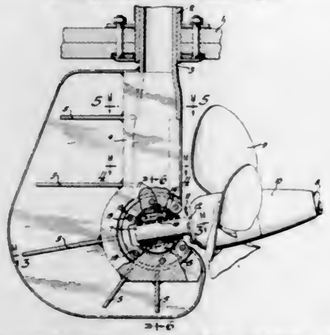
the latch on the rack and means operable by moving the trigger for releasing the latch elements after a predetermined travel of the trigger to set and release the master member to make an exposure.

2,316,021
AIR LOG
Edward V. Rippingille, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application August 8, 1941, Serial No. 406,015
4 Claims. (Cl. 170—132)



1. In a device driven by fluid flow, a shaft, an impeller blade with a bendable hub portion extending substantially normal to the axis of said shaft on opposite sides of a plane containing the shaft axis and the center line of the impeller blade, said hub portion of the impeller blade being attached to the shaft only on one side of said plane along a line parallel to and removed from the center line of the impeller blade, and screw means on the other side of said plane for adjusting the pitch of the impeller blade by bending deflection of its hub portion about its line of attachment to the shaft.

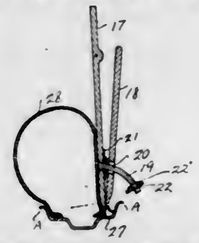
2,316,022
PROPELLER HUB AND RUDDER POST CONSTRUCTION
Edward V. Rippingille, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application November 27, 1941, Serial No. 420,607
4 Claims. (Cl. 115—35)



1. In combination, a rudder having a transverse opening near the bottom thereof, a pair of

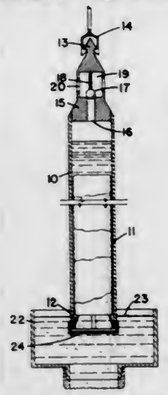
bearing caps secured to the rudder on opposite sides of the opening for cooperation in forming a split spherical bearing socket whose center is on the axis of the rudder, a bearing ball seated within said socket and a propeller shaft pilot journaled within the bearing ball on an axis passing through the center of said spherical socket.

2,316,023
TIRE REMOVING TOOL
Henry John Sauer, Oakland, Calif.
Application July 23, 1941, Serial No. 403,684
1 Claim. (Cl. 157—6)



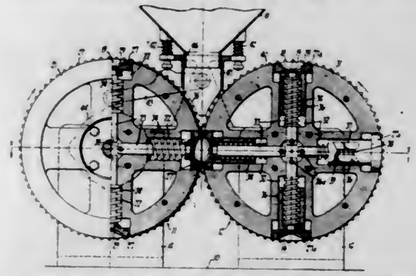
A tire removing device of the character described having in combination an oblong wedge-shaped plate capable of being inserted between the outer side wall of the tire and the inner edge of the rim of the wheel that carries the tire, the corners of said plate being rounded, means for hooking said plate to the rim of the wheel that carries the tire, an arm fixed into the lower portion of the plate and curving downwardly therefrom, a bifurcated implement capable of straddling said plate loosely mounted on said curved arm and capable of having reciprocative movement thereon, a tapered coiled spring mounted on said arm and arranged between said plate and said bifurcated implement, and means on the outer end of asid arm for limiting the outer movement of the bifurcated implement, a portion of the bifurcated implement being capable of producing a cam action against the plate to remove the bead from its seat.

2,316,024
METHOD AND MEANS FOR TAKING CORES
Benjamin W. Sewell, Tulsa, Okla., assignor to Standard Oil Development Company, a corporation of Delaware
Application August 16, 1940, Serial No. 352,854
6 Claims. (Cl. 255—72)



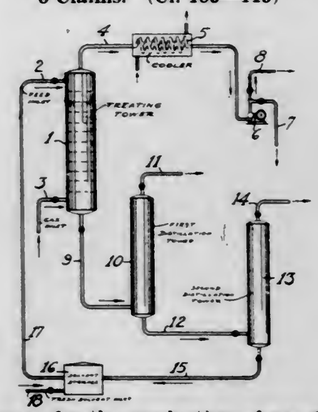
1. A device for obtaining cores comprising, in combination, a body adapted for longitudinal movement in a drill stem provided with a passage arranged for containing the solid mineral portion of said core open at the bottom for receiving said core, means in the lower end of said body, for retaining a core in said passage without closing the entrance to the passage, and a transparent cylinder arranged in said body having its lower end in fluid communication with said passage, and its upper end provided with a closure.

2,316,025
NUT CRACKING MECHANISM
Frank E. Smith, San Jose, Calif.
Application August 6, 1940, Serial No. 351,609
11 Claims. (Cl. 146—11)



1. In a nut cracker, a pair of aligned discs having parallel axes, means gearing said discs together for timed movement, a series of equally spaced pocket forming members in each of said discs, whereby said pocket forming members cooperate to provide a pocket between the adjacent discs to receive and crack a nut, one of said pocket forming members comprising a yieldable plunger having a recess in the side thereof bounded by a cam face on one edge of the recess and a latching nose on the other edge of the recess, a locking disc having a flange extending into said recesses of said one series of plungers, said locking disc having a cam surface for successive engagement with the cam surfaces of said pocket members, and a fixed stop for engagement with the latching noses of said pocket members, a spring urging said cam disc in one direction relative to said pockets and an adjustable stop for engagement by said locking disc when being rotated by one of said pocket members.

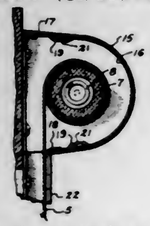
2,316,026
REFINING PROCESS
Eldon E. Stahly, Baton Rouge, La., assignor, by mesne assignments, to Jasco, Incorporated, a corporation of Louisiana
Application January 25, 1940, Serial No. 315,495
8 Claims. (Cl. 183—115)



1. Process for the production of gas fractions

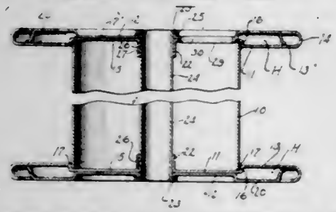
having a relatively high concentration of unsaturated constituents from feed gas mixtures containing the same, comprising treating said feed gas mixtures, with a solvent solution of a high molecular weight substantially saturated polymer product produced by polymerizing relatively low molecular weight olefinic hydrocarbons, under conditions to selectively dissolve the unsaturated constituents, separating the solvent solution and recovering the unsaturated constituents therefrom.

2,316,027
DARK CLOSURE
Frank W. Swormstedt, Fort Thomas, Ky., assignor to Higgin Products, Inc., Newport, Ky., a corporation of Delaware
Application March 15, 1940, Serial No. 324,222
2 Claims. (Cl. 160—21)



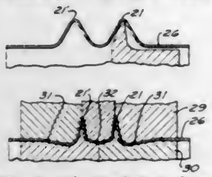
1. In a housing for a spring roller, substantially semi-circular end wall members each having an attachment foot, said end wall members shaped to provide respectively pivotal and non-pivotal support for a spring roller, and a pair of telescopic sections forming lateral wall portions of said housing, said sections having sockets on their ends, and said end wall members having pins to enter said sockets whereby the said lateral wall portions of said housing may be removed without disturbing the said end wall members.

2,316,028
SPOOL
George G. Tucker, Jr., Berwyn, Ill., assignor to Hubbard Spool Company, Chicago, Ill., a corporation of Illinois
Application October 6, 1941, Serial No. 413,726
4 Claims. (Cl. 242—123)



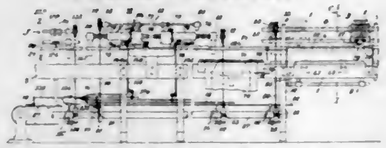
2. A sheet metal spool comprising a barrel, head structures for said barrel each comprising an inner member and an outer member, the inner member of each head structure projecting beyond the end of the barrel to form a flange and having its portion adjacent the barrel end deflected outwardly to form an annular seat for the barrel end, the outer member of each head structure being secured to the inner member thereof by spot welding, each inner member having an axial passage therethrough surrounded by an inwardly extending flange and each outer member having an axial passage therethrough surrounded by an outwardly extending flange in alignment with said inwardly extending flange, and an arbor tube extending through said barrel and said passages and interlocked at its ends with said inwardly and outwardly extending flanges to hold the head structures against the barrel ends and to hold said arbor tube against rotational displacement relative to said heads.

2,316,029
METHOD OF MAKING BRAKE DRUMS
Andrew S. Van Halteren, East Lansing, and Charles W. Gressle, Lansing, Mich., assignors to Motor Wheel Corporation, Lansing, Mich., a corporation of Michigan
Application April 11, 1941, Serial No. 388,044
7 Claims. (Cl. 29—152.2)



1. The method of making brake rings for brake drums which comprises providing a cylindrical sheet metal hoop, forming an annular external rib in the hoop intermediate the ends thereof, shrinking the hoop in an annular zone intermediate one side of the rib and the adjacent end of the hoop, thereafter bending the peripheral portion of said rib radially inwardly and axially away from said zone and simultaneously stretching the hoop radially outwardly in said zone to provide for bending the rib.

2,316,030
STRAIGHT BAR KNITTING MACHINE
Arnold Friedrich Verbeek, Oberlungwitz, Germany, assignor to Kalio, Inc., New York, N. Y., a corporation of New York
Application March 31, 1939, Serial No. 265,310
In Germany March 31, 1938
9 Claims. (Cl. 66—127)



1. In a flat full-fashioned type knitting machine having a plurality of carrier rods and yarn guides supported thereon, a yarn carrier driving mechanism including means for automatically coupling and uncoupling selected carrier rods to be driven by said mechanism, and an auxiliary driving mechanism for shifting said uncoupled carrier rods to an idling position beyond the limit of active traverse of said yarn carriers.

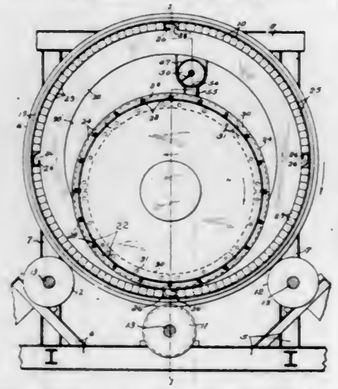
2,316,031
TENSIONING DEVICE FOR YARN, THREAD, OR THE LIKE
Arthur G. Vogt, Toledo, Ohio
Application February 26, 1942, Serial No. 432,470
10 Claims. (Cl. 242—149)



1. Yarn tensioning device comprising a pair

of arms, one being movable resiliently toward the other, a finger attaching part on one arm, a clamp embracing said arms providing a guide for yarn between the clamp and one of the arms, and means for causing said clamp to impose greater or lesser tension on the yarn passing through said yarn guide.

2,316,032
GRINDING MILL
John J. Wallace, Gouverneur, N. Y.
Application March 19, 1942, Serial No. 435,366
1 Claim. (Cl. 83—9)



A grinding mill of the kind having a grinding cylinder rotative about a fixed horizontal axis, driving means for said cylinder, and a floating grinding roll of substantially less diameter than the internal diameter of said cylinder located within and extending longitudinally of the cylinder and movable by gravity into contact with the cylinder, characterized in that the cylinder and roll are provided with grinding coverings the coactive grinding surfaces of which are substantially truly cylindrical and smooth, the grinding covering of the roll being constructed of blocks of hard and wear resistant vitreous material, and the grinding covering of the cylinder comprising a plurality of circumferentially spaced segmental portions each constructed of blocks of hard and wear resistant vitreous material and also comprising a plurality of spacing bars of hard and wear resistant material each closing the gap between the adjacent ends of two of said segmental portions of the covering, each of which spacing bars has formed therein a channel which extends substantially throughout the length of the spacing bar and extends into the spacing bar from the grinding surface of the cylinder covering in a direction generally converse to the direction of rotation of the cylinder to pick up material being ground at the lower part of the cylinder and discharge the picked up material upon the upper portion of the roll.

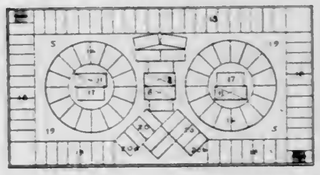
2,316,033
GLOVE ATTACHER
Margaret M. Walsh, New York, N. Y.
Application December 6, 1941, Serial No. 421,868
3 Claims. (Cl. 2—162)

1. The combination with a hand covering article, of a device for holding said article captive when not in use, said device consisting of a strip of flexible material secured to said article near the entrance end edge thereof in such manner that it may be formed into a loop disposed inside of the article or outside thereof, cooperative fastener elements on the strip to retain the strip in loop formation, and additional cooperative fastener elements on the strip and article respec-



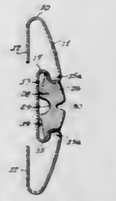
tively to retain the strip in loop formation inside of the article and disengageable so that the strip in loop formation may be disposed outside of the article.

2,316,034
PARKING GARAGE SYSTEM
Harry E. Warren, Bronxville, N. Y.
Application August 17, 1940, Serial No. 353,026
4 Claims. (Cl. 214—16.1)



1. In a vehicle parking and storing floor substantially rectangular in shape, two annular rotatable floor portions spaced longitudinally and comprising a part of the parking area of said floor, at least one elevator between and adjacent the outer edges of said portions, and at least one elevator within each of said portions.

2,316,035
MOLDING
Frederick J. Westrope, Pleasant Ridge, Mich., assignor, by mesne assignments, to F. L. Jacobs Co., a corporation of Michigan
Application November 4, 1940, Serial No. 364,206
6 Claims. (Cl. 20—74)



1. In a molding strip, an elongated base member of sheet material bent centrally and inwardly to form a longitudinal recess with overhanging edges and return bent outwardly in opposite direction away from said recess and terminating

in inwardly directed free edges to form a supporting portion, and an insert of resilient material sprung into said recess between said overhanging edges whereby said supporting portion will expand into engagement with its support.

2,316,036
ELECTRIC CIRCUIT INTERRUPTING DEVICE
Fritz Weil, Berlin-Oberschoneweide, Germany, assignor to General Electric Company, a corporation of New York
Application June 5, 1941, Serial No. 396,770
In Germany June 12, 1940
6 Claims. (Cl. 200—120)

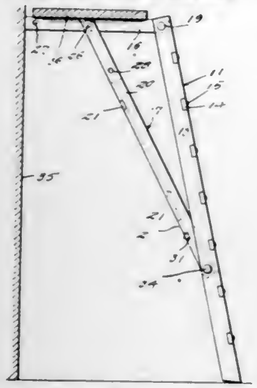


5. In a high voltage circuit interrupting device, a circuit interrupting element having a long fusible section designed to dissipate ultimately throughout substantially the whole of its length upon subjection to a short circuit current, a pair of terminals for said element, a fusible conductor connected to each of said terminals and to different spaced intermediate points of said fusible section whereby said section is divided into a plurality of substantially equal portions connected in parallel between said terminals, said fusible conductors effecting a relatively low resistance path between said terminals for normal operation, said conductors being fusible prior to said interrupting element whereupon said interrupting element will be connected in series between said terminals and present a relatively higher resistance path therebetween, the length of said fusible section being such that the specific resistance of said section will effect a substantial reduction in the current flow following the fusing of said conductors and prior to the vaporization of said section.

2,316,037
TREATMENT OF CELLULOSIC MATERIALS
Clifford Collier Wilcock, Salford, and Charles Percival Tattersfield, Audenshaw, near Manchester, England, assignors to Courtaulds Limited, London, England, a British company
No Drawing. Application March 11, 1941, Serial No. 382,840. In Great Britain April 4, 1940
4 Claims. (Cl. 117—161)

1. A process of treating cellulosic materials which comprises applying to the material a substance selected from the group consisting of paraffin wax, ceresin wax, Japan wax, beeswax, spermaceti, stearic acid and palmitic acid and from 0.5 per cent to 6 per cent of a condensation product of cyanamide and formaldehyde.

2,316,038
COMBINATION SUPPORT
Burton Wilson, San Jose, Calif.
Application February 19, 1942, Serial No. 431,581
7 Claims. (Cl. 228—2)



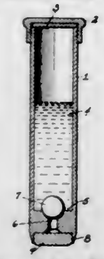
1. A structure of the class described comprising a straight ladder member including upwardly converging side pieces connected by spaced rungs, a bar having one end disposed between and pivotally connected to the upper ends of the side pieces, a brace including a pair of legs pivotally connected at corresponding ends thereof to the bar, intermediate of its ends, said brace being of a length to support the bar in an approximately horizontal position when the brace is in upwardly diverging relation to the straight ladder, and means for detachably fastening the legs to the free end of the bar to hold the brace in an extended position relatively to the bar, said bar and brace, when thus arranged, being of substantially the same length as the ladder member, so that the bar and brace can be disposed at an acute angle to the ladder member, to form a step-ladder.

2,316,039
CEMENT COMPOSITION
Howard Raymond Wilson, Cleveland, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application April 4, 1940, Serial No. 327,787
15 Claims. (Cl. 106—109)

1. A process for producing a relatively stable cement composition comprising intimately associating together and in only substantially equimolecular proportions relatively dry, finely-divided iron sulfate containing 1 to 7 mols of hydrate water and an alkaline calcium compound from the group consisting of calcium oxide, calcium hydroxide and calcium carbonate.

2,316,040
FOUNTAIN-TYPE MARKING DEVICE
James W. Wirfel, Ridgewood, N. Y.
Application January 16, 1941, Serial No. 374,673
4 Claims. (Cl. 101—327)

1. A device of the character described comprising, a tubular ink container having one end adapted to be sealed substantially entirely airtight by a removable cap for filling, a constricted ink passage at the other end of said container, said passage having at its interior end an enlarged portion to serve as a valve seat, an ink pad carried at said other end of the container, a freely movable weighted valve member within said container and arranged to seat against said valve seat, a shoulder at the outer end of said constricted passage for spacing said pad from said constricted passage whereby said pad can be moistened only in response to an impulse from said valve member for forcing ink through

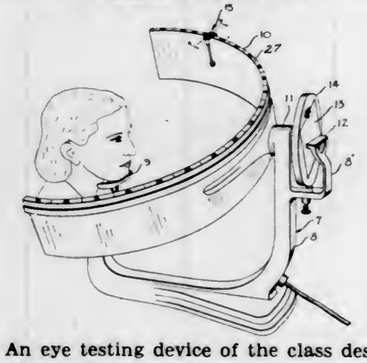


and out of said constricted passage which impulse is produced by the free falling of said valve against said seat, the dimensions of said passage being such that ink cannot run therefrom on to said pad even though said valve member is off its seat except in response to said impulse.

2,316,041
PROCESS FOR SIMULATING HAMMERED METAL
Gerald E. Armentrout, Flint, Mich., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 12, 1940, Serial No. 323,533
2 Claims. (Cl. 117—37)

1. The process of producing a simulated hammered metal finish which comprises applying to a rigid base a substantial film of a composition containing a film-forming agent, at least one volatile solvent, 2–15% granular pigment, and from 1–5% of a flake metallic powder, allowing the film to partially set by evaporation of the solvent, immediately thereafter spattering thereon a composition consisting of highly volatile solvents for the film-forming agent, substantially in the form of coarse droplets under a fluid pressure of about 2 lbs. and an air pressure of less than 15 lbs. per sq. in. whereby the spattered solvent dissolves the film-forming agent and thereby forms apparent metallic craters, and drying the same to a hard finish.

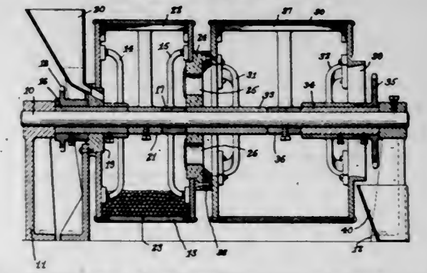
2,316,042
ADJUSTABLE PERIMETER TARGET
Robert J. Beitel, Jr., Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application May 19, 1941, Serial No. 394,056
8 Claims. (Cl. 88—20)



1. An eye testing device of the class described

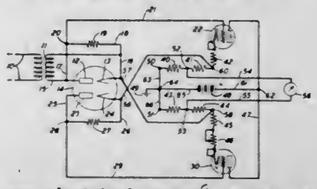
comprising a test object track, a central fixation point disposed adjacent said track, a carriage movably mounted on said track, said carriage having a spindle rotatably mounted thereon, a test object having a plurality of different indicia thereon connected to one end of said spindle, test object indicating means having indicia thereon corresponding to the indicia on the test object mounted adjacent the opposing end of said spindle, and means adjacent said test object indicating means permitting only one of said indicia of the test object indicating means to be visible, said visible indicia on the test object indicating means corresponding to a test object indicia disposed in a given position.

2,316,043
TREATMENT OF PIGMENTS OR THE LIKE
Edmund Billings, Weston, and Harold H. Offutt, Winchester, Mass., assignors to Godfrey L. Cabot, Inc., Boston, Mass., a corporation of Massachusetts
Application January 30, 1939, Serial No. 253,580
12 Claims. (Cl. 23—313)



1. A process of converting into granular form fine powders which are naturally non-agglomerative, characterized by the consecutive and related steps of first subjecting the particles of the powder in a dry state to intimate mechanical stress by grinding, thus imparting agglomerative properties thereto, and then subjecting the treated and now agglomerative powder to turbulent agitation without grinding until, without binding agents, it assumes the form of discrete tenacious and substantially dustless granules.

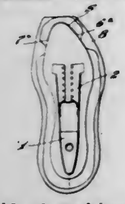
2,316,044
ELECTRONIC APPARATUS
Royer R. Blair, Scotch Plains, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 18, 1941, Serial No. 415,574
7 Claims. (Cl. 250—27)



1. In an electrical system, a pair of vacuum tubes, each tube including a control grid, a cathode and an anode, means individual to each cathode to apply thereto a positive biasing potential and thereby an effective negative biasing potential to the associated control grid determined by the anode current in each tube, an output circuit connected between one point on said individual cathode biasing means of one tube and a further point on said individual cathode biasing means of the other tube, and circuit

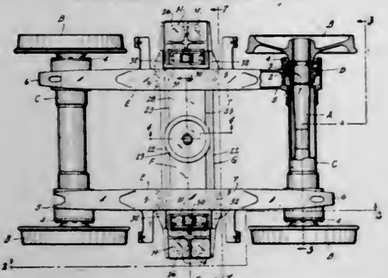
means to connect a corresponding point of said individual cathode biasing means of each tube to the control grid of the other tube to utilize a portion of the positive cathode biasing voltage of each tube to counteract the effective negative biasing voltage applied to the control grid of the other tube to equalize substantially the anode currents of both said tubes.

2,316,045
METHOD OF MAKING STITCHDOWN SHOES
Frank J. Braga, Hudson, Mass.
Application October 2, 1941, Serial No. 413,316
10 Claims. (Cl. 12—142)



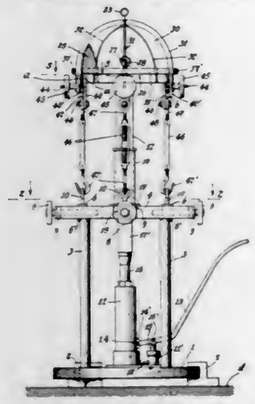
1. That method of making stitch-down shoes which comprises as steps assembling an upper with a last, spindling and pulling over the toe portion of the upper and inserting a tack through the margin of the upper and into the bottom of the last at each side respectively of the toe portion of the last, turning back the toe portion of the upper, assembling an insole with the last and pulled-over upper, turning down the toe portion of the upper so that its inner or lining surface overlies the upper surface of the insole, stitching to the insole that portion of the margin of the upper which intervenes between the tacks, removing the tacks, setting the upper material about the toe by the application of pressure and heat, and stitching the remainder of the margin of the upper to the insole beginning adjacent to the heel of the upper and proceeding forwardly first at one side of the shoe and then at the other, to join the ends respectively of the toe stitching.

2,316,046
TRUCK
Tracy V. Buckwalter, Massillon, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio
Application July 26, 1941, Serial No. 404,139
3 Claims. (Cl. 105—182)



1. An inboard car truck comprising axles, wheels on the ends thereof, housings for said axles, side frame members connecting said housings inwardly of said wheels, said side frames having central openings with bottom walls, a spring plank extending through said openings seating on said bottom walls and having stepped down end portions projecting outwardly beyond said side frames, springs on said projecting end portions of said spring plank, a secondary spring plank whose ends rest on said springs, springs on the end portions of said secondary spring plank in vertical alinement with the springs on said spring plank, and a bolster extending through said side frame openings and having upwardly offset projecting portions resting on said last named springs.

2,316,047
HAT BLOCKING APPARATUS
Edward Cairns, Montclair, N. J.
Application August 18, 1942, Serial No. 455,269
8 Claims. (Cl. 223—15)



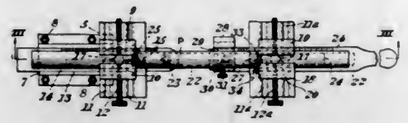
1. In a blocking machine for shaping the crowns of hats and the like the combination with a rotatable frame of an upright ram element slidably mounted in said frame, a block member removably supported thereon whose upper surface generally conforms to the shape of the inner surface of the desired crown to be shaped in such apparatus, adjustable stretching means carried by said frame, including a plurality of spaced jaws adapted to grip the margin of the crown to be stretched at spaced locations along the same and means for clamping such a crown to said block to maintain the same in a stretched condition following its removal from the machine and during the drawing thereof.

2,316,048
FISH LURE
Arthur S. Clarke, Jamestown, R. I.
Application October 22, 1941, Serial No. 416,107
8 Claims. (Cl. 43—40)



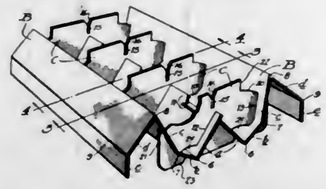
1. A fish lure comprising a flexible device having one or more hooks attached thereto and adapted to receive an eel lengthwise over said flexible device, and a substantially conical weight secured to said flexible device in a position thereon to simulate the head of the eel.

2,316,049
MACHINE FOR BENDING PIPES AND THE LIKE
Richard Connor, Steubenville, Ohio
Application December 7, 1940, Serial No. 368,985
9 Claims. (Cl. 153—39)



1. In a pipe or the like bending apparatus, spaced apart clamping means for gripping and holding a straight member to be bent only along the portions of material that are to become the tangents of the curve of the arc to be formed, and linkage means cooperating with and pivoted to both of the clamping means free of contact with said member throughout the distance between said clamping means and guiding the clamping means into the relative motion they would have were the material entering the bend to bend with constant length of arc throughout the bending operation and with a uniform radius of curvature throughout the length of the arc at any instant regardless of any reaction developed by the member being bent.

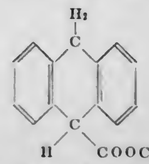
2,316,050
HOLDER FOR EGGS OR THE LIKE
Joseph L. Coyle, London, Ontario, Canada, assignor to Leon Benoit, New York, N. Y.
Application October 11, 1940, Serial No. 360,731
4 Claims. (Cl. 229—29)



2. A holder for eggs or the like wherein is combined a plurality of spaced one-piece vertical parallel cross walls each provided with registering pairs of slots spaced apart a fixed distance and extending inwardly from its bottom edge, each slot having a narrow opening beyond which the slot edges are extended divergingly, and a pair of like blanks each formed with spaced longitudinally extending parallel bend lines adapted to define two angularly related bottom sections and a side section extending upwardly from one of them, each blank being formed with a plurality of transversely extending slots arranged in aligned pairs, whereby to render each blank receivable within one set of registering slots of the cross walls for interfitting therewith the two bottom sections adapted to rest against the diverging slot edges of the cross walls to derive support therefrom and be maintained thereby a fixed distance apart.

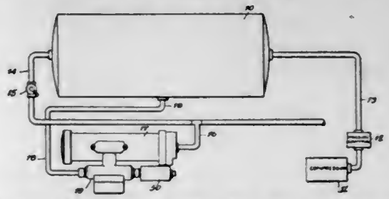
2,316,051
ANTISPASMODIC AGENTS
John W. Cusic, Chicago, and Robert R. Burtner, Skokie, Ill., assignors to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois
No Drawing. Application December 31, 1941, Serial No. 425,178
4 Claims. (Cl. 260—469)

1. New compounds, useful in therapeutics, consisting of the basic esters of 9, 10-dihydroanthracene-9-carboxylic acid, represented by the formula



wherein n is chosen from the integers 2 and 3, R is one of the group consisting of a hydrogen atom and saturated alkyl groups containing not more than four carbon atoms; and R' is an alkyl group containing not more than four carbon atoms.

2,316,052
MOISTURE REMOVING DEVICE FOR AIR COMPRESSOR SYSTEMS
Max Dach, Flushing, N. Y.
Application December 21, 1940, Serial No. 371,167
1 Claim. (Cl. 303—88)

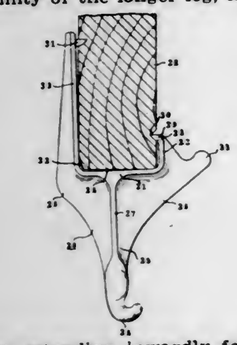


In combination with an air tank and a compressor having an outlet pipe, a drainage pipe, a valve connected to said drainage pipe, a chamber communicating with said valve, an opening from the atmosphere to said valve, said valve being circular in shape and having a channel therein adapted to alternately connect said drainage pipe with said chamber and said chamber with said opening to the atmosphere when said valve is alternated, means for alternating said valve, said means including a shaft in said valve adapted to rotate therewith, a segment on said shaft, a rack engaging said segment, and means operated by air from said compressor for reciprocating said rack when said compressor is operated.

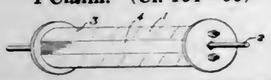
2,316,053
ANCHOR FOR CLOTHESLINES OR THE LIKE
Bert Davis, Columbus, Ohio, assignor to Synchrone Manufacturing Company, Columbus, Ohio, a partnership
Application December 22, 1941, Serial No. 423,874
1 Claim. (Cl. 248—353)

An anchor for a line, or the like, comprising a member having a yoke portion and two spaced legs extending from one side of the yoke portion, said legs being rigid relative to said yoke and being spaced for straddling a support block, or the like, one of said legs being materially shorter than the other of said legs; a cleat formed at the extremity of said short leg, said cleat extending toward the longer leg, said cleat being adapted

to be embedded in said support block for forming a pivot about which said device can be rotated in a direction for causing said legs to straddle the support block; a cleat formed adjacent the outer extremity of the longer leg, the last mentioned cleat extending inwardly for embedding in said support block when said device straddles said support member; and means for attaching a line, or the like, to said device whereby the weight of said line, or the like, tends to rotate said device in said direction.

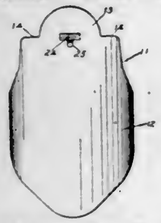


2,316,054
PERFORATING APPARATUS
Clyde Oliver Davis and William Stanton Pilcher, Woodbury, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application May 20, 1942, Serial No. 443,734
1 Claim. (Cl. 164—99)



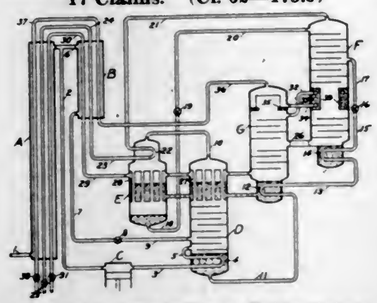
In a paper perforating assembly the combination of a substantially cylindrical perforating roll having a metal surface, pointed perforators projecting from said external metal surface, and helically arranged thereon, said perforating roll having at least one flattened portion longitudinally along its surface, said flattened portion being free from projecting perforators, means for feeding paper to said perforating roll, and means for rotating said perforating roll while the paper is passing thereover.

2,316,055
SHIELD
Paul H. Davey, Kent, Ohio
Application July 10, 1939, Serial No. 283,679
3 Claims. (Cl. 89—36)



2. A shield of the type described, provided with an aperture, a transparent window mounted in the upper part of the aperture, the lower part of said aperture being adapted to receive a firearm, and means in said lower part of the aperture adjacent the lower edge of said window to absorb the shock of firing the arm to prevent injury tc said window while permitting said arm to be sighted, said means being formed in spaced sections to permit of an uninterrupted line of sight on said firearm through said window.

2,316,056
METHOD AND APPARATUS FOR RECTIFYING FLUID MIXTURES
William Lane De Baufre, Lincoln, Nebr.
Application August 26, 1939, Serial No. 292,081
17 Claims. (Cl. 62—175.5)



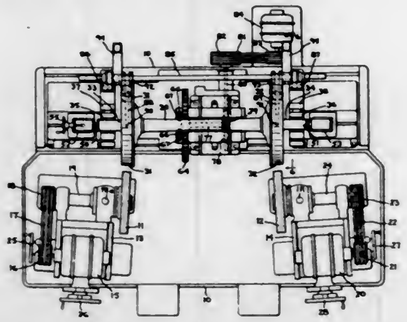
1. Method of separating a fluid mixture which includes subjecting the fluid mixture to a main rectification into a vapor component and a liquid component, subjecting one component to an auxiliary rectification into a vapor product and a liquid product, withdrawing one product of the auxiliary rectification and subjecting it to heat exchange with fluid of the opposite phase undergoing the main rectification whereby a portion of the product withdrawn is changed in phase, and returning said portion to the auxiliary rectification to serve as reflux fluid therein.

2,316,057
TEXTILE MATERIAL
Arnold Doser, Cologne, and Otto Bayer and Karl Hintzmann, Leverkusen I. G. Werk, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application May 16, 1939, Serial No. 274,024. In Germany September 29, 1937
1 Claim. (Cl. 117—168)

In the process of producing finishes on textile material the improvement which comprises impregnating the material with an aqueous paraffin emulsion containing a zirconium compound selected from the group consisting of zirconium oxychloride, zirconium oxynitrate and the water-soluble hydrolysates obtainable therefrom, rapidly passing the so-treated material through a dilute aqueous sodium acetate solution and finally drying the material at an elevated temperature.

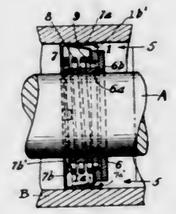
2,316,058
CAR WHEEL GRINDING MACHINE
Carl G. Flygare and Herbert A. Silven, Worcester, Mass., assignors to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application March 18, 1942, Serial No. 435,214
6 Claims. (Cl. 51—165)

1. In a car wheel grinding machine having a base, a rotatable support for a car wheel assembly including an axle and two spaced car wheels thereon, a pair of spaced rotatable grinding wheels, an independent longitudinal traversing mechanism for each of said wheels, an independent wheel feeding mechanism independently to feed each of said wheels transversely to grind the peripheries of said car wheels, and a size indicating device including a rock shaft, a pair of adjustably spaced feeler arms thereon each having a work engaging contact point, a normally open limit switch associated with each of said feeler arms which are arranged to be closed by movement thereof, an electric light bulb connected in series with each of said switches, and a counter-



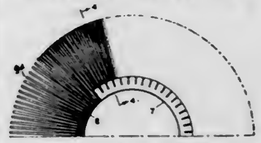
balance mechanism for said arms and switches whereby the feeler arms may be moved toward the surfaces of the car wheels being ground, said feeler arms being arranged so that one of them may be moved into operative engagement with the car wheel after a preliminary grinding operation to indicate a difference in diameter of the wheels so that the larger diameter wheel may be readily reduced to the size of the smaller diameter wheel by manipulation of the feeding mechanism.

2,316,059
SEALING MEANS
Nathan F. Fretter, Royal Oak, Mich.
Application June 19, 1941, Serial No. 398,793
10 Claims. (Cl. 286—7)



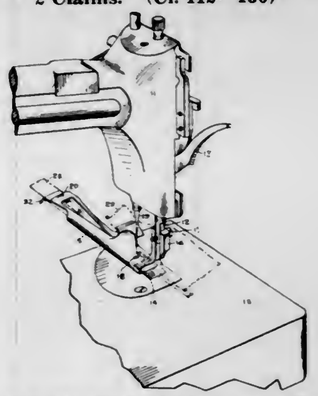
1. A sealing device adapted to be mounted between inner and outer relatively rotatable members, comprising an annulus formed of thin resilient metal and having a radially extending flange and a substantially conically shaped side wall, said side wall extending substantially axially of said members relative to said flange for engagement with the wall of said outer member, the resiliency of the metal serving to maintain the outer end portion of said side wall in normal yielding contact with the wall of said outer member, a sealing ring secured to the flange of said annulus and arranged to sealingly engage the adjacent surface of the inner member, and means for holding said sealing ring in engagement with the surface of said inner member.

2,316,060
CORDLIKE PRODUCT
George H. Fullerton, Laurel Park, N. C., and Theron V. Moss, Hunting Valley, Ohio
Application September 23, 1941, Serial No. 412,008
7 Claims. (Cl. 28—78)



1. An article of the character described including a plurality of cords, the individual cords comprising plural strands interlocked by stitching in free run-off condition one such strand with each of the others, said cords being capable of longitudinal stretching and at the same time being non-ravelling at their ends.

2,316,061
COMBINED FOLDING AND FEEDING STITCHING DEVICE
Bernard Furer, Brooklyn, N. Y., assignor to Picardy Mills, Inc., Brooklyn, N. Y., a corporation of New York
Application September 7, 1940, Serial No. 355,705
2 Claims. (Cl. 112—136)

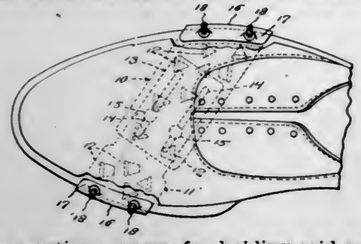


1. In a single piece device, means for rigidly securing said device to a sewing machine presser bar, means for folding and guiding a tubularly formed overlapped folded edge piping therethrough comprising a downturned lip at the outer end, a tubular opening adjoining said lip and an inturned flange adjoining said tubular opening turned down and under cn one side and a second inturned flange on the opposite side from said first flange turned down so that it runs inwardly towards a side guiding portion as it overlaps said first flange in an edge turned back on itself, means for folding and guiding a fabric edge therethrough so that said piping is guided in its folded tubular position under said folded fabric edge comprising a side guiding plate and an undercut groove under the inner end of said plate immediately over said inner tubular end opening.

2,316,062
NONSKID ATTACHMENT FOR SHOES
Stephen L. Gingo, McKeesport, Pa.
Application January 8, 1941, Serial No. 373,663
2 Claims. (Cl. 36—62)

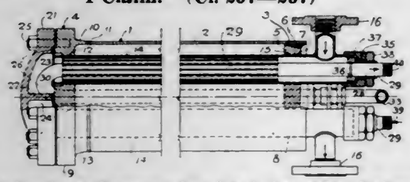
1. A non-skid attachment for shoes, compris-

ing a comparatively narrow elongated device adapted to extend at an angle across the sole of the shoe to provide maximum non-skid protection with a minimum of non-skid surface area, said device including relatively adjustable over-



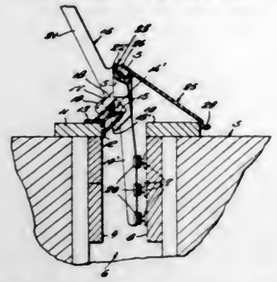
lapping sections, means for holding said sections fixed relatively in any given position, cleats carried by said sections, sole engaging clips rising from the outer ends of the sections, and sole engaging clamping screws mounted on the clips at an angle thereto.

2,316,063
HEAT EXCHANGER
Addison Y. Gunter, Larchmont, N. Y., assignor to American Locomotive Company, New York, N. Y., a corporation of New York
Application April 9, 1942, Serial No. 438,260
1 Claim. (Cl. 257—237)



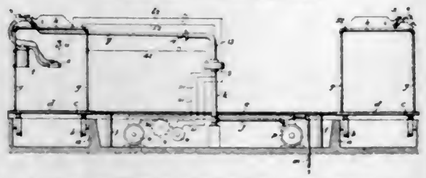
A heat exchanger for heat transfer between two fluids, comprising a shell; a header at one end thereof; a tube sheet at the other end thereof; two short and two long sleeves extending longitudinally in said shell, said header having a header plate and a detachable cover for said plate having two compartments, said sleeves, at one end thereof, extending into orifices formed in said plate, a long and a short sleeve thereby communicating with each compartment, said short sleeves opening at their other ends into said shell, said long sleeves extending through said tube sheet and having end portions therebeyond; closures for said end portions, said end portions each having an orifice providing one an inlet and the other an outlet, said sleeves, compartments and shell cooperating through intercommunication thereof for series flow therethrough of one of said fluids, said short sleeves being secured in said plate and said long sleeves slidably engaging said plate and being secured in said tube sheet, whereby said sleeves are free for expansion and contraction; and a fin tube having U-bends disposed one in each of said compartments and legs extending through said sleeves from the ends of each U-bend, the legs extending through said short sleeves further extending through said tube sheet and having end portions extending therebeyond, said tube further having a U-bend disposed exterior of said shell connecting said tube end portions, the legs extending through said long sleeves extending through said closures thereof, one providing an inlet and the other an outlet for said other fluid, said legs and U-bends cooperating through intercommunication thereof for series flow therethrough of said other fluid.

2,316,064
SAFETY TROLLEY PLOW
Raymond Hans, Pascagoula, Miss.
Application January 16, 1942, Serial No. 427,077
1 Claim. (Cl. 191—25)



The combination with a support having a horizontal open top conduit therein with vertically spaced horizontal conductor rails on one side wall thereof, and a plurality of cover plates for said conduit normally resting on said support in end-to-end relation and upwardly swingable laterally and successively, of a plow for swinging said plate including an elongated carriage adapted to travel endwise along and above said conduit and having a longitudinally bowed laterally inclined top, means to mount said carriage on said support directly over said conduit for traveling movement along the latter comprising grooved rollers mounted at the ends of the carriage on the under side of the same to incline laterally from one side thereof in a common plane, said rollers straddling one edge of the support along said conduit, a contact arm depending from the center of the carriage in upright position and bridging said conductor rails, a carriage operating arm inclining upwardly and laterally from said side of the carriage, and an elongated strip-like member extending lengthwise conformably along the top of the carriage and having opposite ends extending beyond the ends of said carriage and into said conduit to pick up said plates, said strip-like member being provided with rollers spaced apart longitudinally of the same.

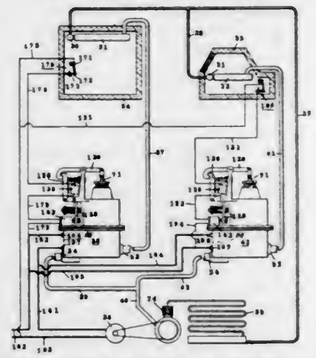
2,316,065
COW MILKING APPARATUS
Cyrus Howard Hapgood, Nutley, N. J., assignor to The De Laval Separator Company, New York, N. Y., a corporation of New Jersey
Application February 10, 1940, Serial No. 318,211
7 Claims. (Cl. 31—58)



5. A cow milking apparatus comprising a rotary table adapted to carry cows to be successively milked, milking machine units, including electrically controlled pulsators, arranged around and rotatable with the table, means providing a vacuum passage carried by and rotatable with the table and pneumatically connectable with said milking machine units, electric conducting means extending around and rotatable with the table and connected with said electrically controlled pulsators, a stationary vacuum pump, a

stationary generator, a vertical stationary vacuum conduit connected with said pump and located at approximately the center of rotation of the table, an elbow pipe having a downwardly extending section in sleeved relation with and turnable on said stationary vacuum conduit and an outwardly extending section, a radially extending pipe pneumatically connected and rotatable with said rotary vacuum passage and in sleeved relation with the outwardly extending section of the elbow pipe, a stationary brush electrically connected with one terminal of said generator, a ring carried by and rotatable with the downwardly extending section of said elbow pipe and in its rotation contacting with said brush, an electrical connection between said ring and said electric conducting means and electric connections between said rotatable electric conducting means and the other terminal of the generator.

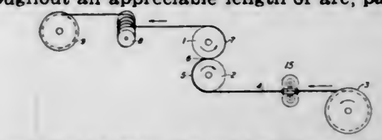
2,316,066
CONTROL APPARATUS
Paul Haymond, Fairmont, W. Va.
Application August 3, 1940, Serial No. 350,889
15 Claims. (Cl. 62—4)



1. A refrigerating system comprising in combination, a plurality of evaporators; means for withdrawing gaseous refrigerant from the evaporators, condensing the refrigerant and delivering refrigerant to the evaporators; a valve for controlling the flow of refrigerant through one of the evaporators; means responsive to pressure changes in said one evaporator for actuating the valve; a second valve for controlling the flow of refrigerant through another of the evaporators; means responsive to pressure changes in said other evaporator for actuating the second valve; and control means actuated by the second mentioned means for initiating operation of the first mentioned means when the first mentioned valve is opened, said control means also being actuated by the third mentioned means for initiating operation of the first mentioned means when the second valve is opened, and said control means being actuated by the second and third mentioned means to terminate operation of the first mentioned means only when both of said valves are closed.

2,316,067
METHOD OF THREADING ROLLING MILLS
Clarence N. Hickman, Jackson Heights, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 20, 1939, Serial No. 280,042
1 Claim. (Cl. 80—60)

In a rolling mill for rolling filamentary material into flat tape, said mill having at least two work rolls with a work point therebetween, the method of rolling said material into tape comprising the step of passing the material about one of said rolls and in frictional contact therewith throughout an appreciable length of arc, passing

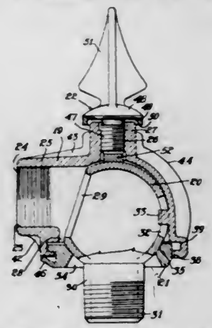


the material between the rolls at the work point, applying pressure to the material at the work point to reduce it to a smaller cross sectional area as it passes through, and upon leaving the work point keeping the material in constant substantially static frictional contact with one of the rolls throughout an appreciable length of arc.

2,316,068
VITAMIN D DISTILLATION PROCESS AND PRODUCT
Kenneth C. D. Hickman and Edward Le B. Gray, Rochester, N. Y., assignors to Distillation Products, Inc., Rochester, N. Y., a corporation of Delaware
No Drawing. Application April 13, 1939, Serial No. 267,716. In Great Britain April 20, 1938
3 Claims. (Cl. 167—81)

1. The distillation process whereby a plurality of antirachitic substances contained in a fish oil can be separated and segregated therefrom, which process comprises in combination converting the antirachitic substances into free alcohols by saponifying the fish oil, separating the non-saponifiable matter from the saponification mixture, subjecting it to high vacuum, unobstructed path distillation and separating fractions containing different antirachitic substances at approximately 105, 120, 135, 160, 170, and 185° C.

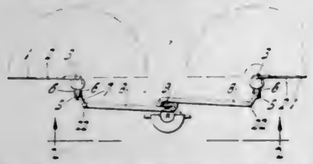
2,316,069
END FITTING FOR STREET LIGHTS
Andrew A. Hocher, Etna, Pa., assignor to Hubbard and Company, a corporation of Pennsylvania
Application August 6, 1940, Serial No. 351,601
5 Claims. (Cl. 285—91)



5. An end fitting for street lights which comprises a housing having a lateral hollow extension adapted to be attached to the distal end of the bracket of a street light pole, a hollow upwardly projecting boss and a bottom opening bounded by an annular flange which has spaced cut-away portions in its lower side wall, a hollow spherical member disposed within said housing having an

opening in substantial registration with the lateral extension of said housing and a hollow depending exteriorly threaded extension adapted to make connection with an illuminating unit, said spherical member being adapted for introduction and withdrawal through the bottom opening of said housing and through which the depending extension projects, means cooperating with said annular flange for locking said spherical member within said housing and means operating through said hollow boss to maintain the housing and spherical member in a desired angular relationship.

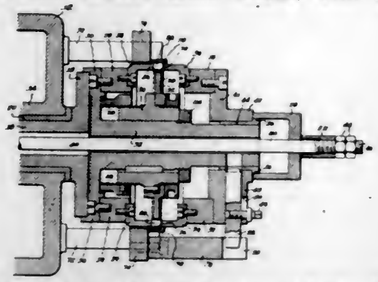
2,316,070
WINDSHIELD CLEANER
Erwin C. Horton, Hamburg, and Anthony C. Scinta, Buffalo, N. Y., assignors to Trico Products Corporation, Buffalo, N. Y.
Application July 27, 1940, Serial No. 347,939
5 Claims. (Cl. 15—255)



1. In a windshield cleaner, spaced actuating shafts journaled to oscillate, each shaft having a crank part, wiper carrying shafts operatively connected to the first shafts by said crank parts to be driven thereby, a fluid motor having a power shaft oscillating with a stroke of less than 180°, a power transmitting shaft located adjacent the motor and geared to its power shaft to operate through an arc of substantially 180°, a cross arm fixed on the power transmitting shaft in a position to lie in a plane substantially in common with the plane of the outer ends of the crank parts when at the limits of oscillation of the actuating shafts, whereby the oscillatory movements of each shaft will have like periods of acceleration and deceleration for each stroke, and links operatively connecting the opposite ends of the cross arm respectively to the outer ends of the crank parts, the period of deceleration acting to retard the back and forth movement of the links and the actuating and carrying shafts substantially to a stop at the time of reversal whereby to substantially avoid any overtravel of the wiper at the ends of its strokes.

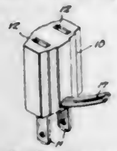
2,316,071
LAPPING MACHINE
Glen F. Johnson, Detroit, Mich., assignor to Bower Roller Bearing Company, Detroit, Mich., a corporation of Michigan
Application May 23, 1941, Serial No. 394,864
11 Claims. (Cl. 51—118)

1. In a lapping machine, rotatable means providing an annular lap surface, normally non-rotatable means providing another annular lap surface spaced from and in opposed relation to said first-named lap surface, means providing an annular wall surface, means providing another annular wall surface spaced from and in opposed relation to said first-named wall surface, the space defined between said lap surfaces and said wall surfaces being adapted for confining work therewithin, and a latch carried by said normally non-rotatable lap surface means adapted to releasably and alternately engage one of said wall surface means and said first named means operable selectively for effectuating rotation of said second-named means, with said



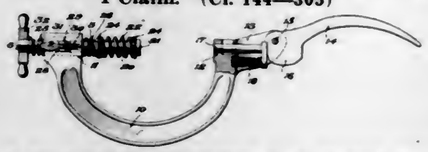
first-mentioned means and non-rotation with said wall surface means.

2,316,072
CONNECTOR PLUG
Carl H. Judisch, New Haven, Conn., assignor to The Whitney Blake Company, New Haven, Conn., a corporation of Connecticut
Application December 23, 1940, Serial No. 371,220
12 Claims. (Cl. 173—334)



1. In a device of the type described, a one-piece body of soft resilient material having a pair of passages extending therethrough, the wall of each passage having a pair of notches formed thereon; a receptacle contact disposed within each passage; a pair of oppositely extending tangs formed on each contact, said tangs engaging the walls of said notches and holding the contacts in said passages against movement in either direction longitudinally of said passages; a twin conductor cord leading through an aperture formed in a side wall of said body, each conductor of said cord being secured to each contact; a blade contact seated within each passage and having a portion projecting from one face of the body; and means for mechanically and electrically connecting each blade contact to a receptacle contact.

2,316,073
METAL CLAMP
Frank A. Kellogg, Aurora, Ill.
Application June 18, 1941, Serial No. 398,670
1 Claim. (Cl. 144—305)



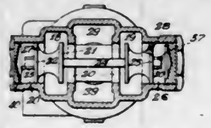
A work clamp comprising a U-shaped frame formed with a clamp means at one end and a bearing at its other end, a clamping member journalled in said bearing, said clamping member comprising an externally threaded long hollow sleeve, a headed long rod slidably mounted in said sleeve and a coil spring surrounding said rod and interposed between the head on said rod and said sleeve, and releasable means in said bearing for engagement with the thread of said hollow sleeve for effecting longitudinal adjustment of the sleeve in the bearing upon rotation of the sleeve.

2,316,074
COMBINED CASTING AND STATIONARY FLOAT
Frank R. Kimbrough, Richmond, Va.
Application May 9, 1941, Serial No. 392,791
13 Claims. (Cl. 43—49)



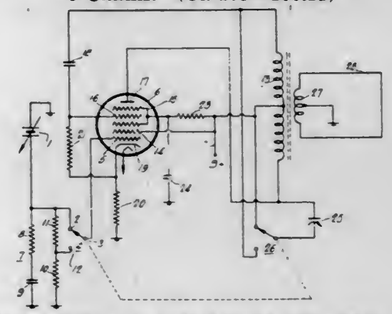
1. A fishing float having an axial bore therethrough, a ferrule fixed in said bore at one end thereof, an axial bore through said ferrule, said ferrule having at least one radial flange on the outer end thereof in longitudinally spaced relation to the adjacent end of said float to provide a concentric groove, a pair of inwardly directed spaced slots in the edge of said flange at least one of said slots having an enlargement formed at its inner end, and at least a portion of said last slot outwardly of said enlargement having a diameter less than that of a fishing line adapted to be used with said float.

2,316,075
FLUID TEMPERATURE CONTROLLER
Joseph Marion King, Detroit, Mich.
Application July 18, 1939, Serial No. 285,100
3 Claims. (Cl. 236—12)



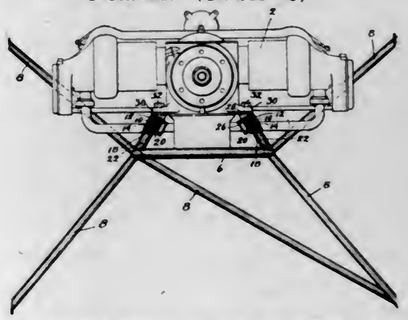
1. In a fluid temperature controller having primary inlets for respectively hot and cold fluids, an outlet for tempered fluid and a proportioning device to meter and control the flow of hot and cold fluids to a mixing chamber, a proportioning device symmetrical in structure comprising a rod, having formed on each end thereof a cylindrical valvular spool-like member, the said spool-like members mounted respectively in hot and cold fluid valve-fitting pressure-chambers and adapted to move therein in response to fluid pressure applicable to the extreme ends of the said spool-like members, and by such movement meter and control the flow of hot and cold fluids to a mixing chamber, and contiguous to each pressure chamber a portion of the primary fluid intake passage in which a portion of the said spool-like member is adapted to move, is enlarged to prevent valvular friction, and each of the said pressure-chambers provided with a diminutive inlet opening formed in the extreme end of each spool-like member adapted to communicate with initial-pressure fluid, and a larger outlet opening formed in the side of each pressure chamber constituting a fluid escape-port and made communicable, each with respectively hot and cold fluid passageways formed in a cylindrical member and made connective with the surface thereof by oppositely positioned openings, and a third passageway formed in the said cylindrical member and likewise made connective with its surface, the said third passageway being communicable with an outlet opening exposed on the exterior surface of the said controller, and a sleeve-valve member having formed on its inside surface a semicircular groove rotatably mounted on the said cylindrical member, the said groove corresponding to the line of location of three openings formed in the surface of the said cylindrical member whose surface being adapted to constitute a seat for the inside surface of the said sleeve-member, the surface-ends of the groove of the said sleeve-valve member adapted to close the oppositely positioned openings communicable with the said escape-ports, the groove designed to register continuously with the third opening which communicates with the third passageway, and the said sleeve-valve member adapted to be actuated by a thermostatic element in response to a temperature-change and thereby control the pressures in the said pressure-chambers.

2,316,076
LIMITED RANGE WIRELESS TRANSMITTER
Haines L. Knoebel, Philadelphia, Pa., assignor to Philco Radio and Television Corporation, Philadelphia, Pa., a corporation of Delaware
Application September 22, 1941, Serial No. 411,906
9 Claims. (Cl. 179—100.11)



1. A wireless record player or the like, comprising a source of current of modulating frequency, an oscillator, a modulator, and a radiator, means for changing the frequency of the oscillator so that the frequency which is to be picked up is either the fundamental or the second harmonic of the oscillator frequency, and means for simultaneously changing the modulation so that the percentage modulation is reduced when the frequency which is to be picked up is the second harmonic of the oscillator frequency.

2,316,077
AIRPLANE ENGINE MOUNT
Otto C. Koppen, Newton, Mass., assignor to General Aircraft Corporation, Dover, Del., a corporation of Delaware
Application April 12, 1941, Serial No. 388,323
8 Claims. (Cl. 248—5)



1. An engine mount of the horizontal type for

an engine with an approximately horizontal crankshaft and having at least one row of cylinders aligned therewith, said mount comprising a plurality of resilient masses supporting said engine, at least a pair of said masses being located on opposite sides of a vertical plane passing through the axis of said crankshaft, means for fastening said masses to a supporting framework and to said engine providing for motion in shear and in compression during operation of said engine, and said oppositely located masses having their planes of shear so oriented that the vertical component of the deflection of said masses in compression resulting from a lateral translatory force generated by said engine is equal and opposite to the vertical component of the deflection of said masses in shear resulting from said force.

2,316,078
LUBRICANT

Clarence M. Loane, Hammond, Ind., and James W. Gaynor, Chicago, Ill., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana

No Drawing. Application March 24, 1941, Serial No. 384,936
16 Claims. (Cl. 252—48)

12. An improved lubricant comprising a hydrocarbon oil and a small amount of the phosphorus and sulfur-containing, chlorine-free reaction product of a phosphorus sulfide and a polymer having a molecular weight above about 500 of a mono-olefinic hydrocarbon of less than six carbon atoms.

2,316,079
LUBRICANT

Clarence M. Loane, Hammond, Ind., and James W. Gaynor, Chicago, Ill., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana

No Drawing. Application March 24, 1941, Serial No. 384,937
32 Claims. (Cl. 252—48)

7. A lubricant comprising a mineral oil, and a small amount of the product obtained by heating at a temperature above about 200° F. with rapid stirring, an isobutylene polymer with an alkali metal hydroxide dispersed therein.

2,316,080
LUBRICANT

Clarence M. Loane, Hammond, Ind., and James W. Gaynor, Chicago, Ill., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana

No Drawing. Application March 24, 1941, Serial No. 384,938
27 Claims. (Cl. 252—48)

1. An improved lubricant comprising a lubricating oil and a small amount of a phosphorus and sulfur-containing phosphorus sulfide-olefin polymer reaction product having at least a portion of the titratable acidity thereof reduced by reaction with a basic reagent.

2,316,081
LUBRICANT

Clarence M. Loane, Hammond, Ind., and James W. Gaynor, Chicago, Ill., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana

No Drawing. Application March 24, 1941, Serial No. 384,939
17 Claims. (Cl. 252—48)

1. A lubricant comprising a mineral lubricating oil and a small amount of a neutralized phosphorus and sulfur-containing reaction product of a phosphorus sulfide and an aromatic hydrocarbon.

2,316,082
LUBRICANT

Clarence M. Loane, Hammond, Ind., and James W. Gaynor, Chicago, Ill., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana

No Drawing. Application March 24, 1941, Serial No. 384,941
31 Claims. (Cl. 252—48)

1. A lubricant comprising a mineral lubricating oil and a minor amount of a neutralized phosphorus and sulfur-containing reaction product of a phosphorus sulfide and a hydrocarbon obtained by reacting a phosphorus sulfide with a hydrocarbon and subsequently neutralizing the reaction product with a basic reagent.

2,316,083
LUBRICANT

Clarence M. Loane, Hammond, Ind., James W. Gaynor, Chicago, Ill., and Lawson W. Mixon, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana

No Drawing. Application March 24, 1941, Serial No. 384,942
8 Claims. (Cl. 252—48)

5. A lubricant comprising a hydrocarbon lubricating oil and a small amount of the product obtained by reacting a phosphorus sulfide with a hydrocarbon, neutralizing with a basic reagent whereby a neutralized product containing phosphorus and sulfur is obtained, and subsequently treating said reaction product at a temperature above about 100° F. with a compound having an active hydrogen atom to obtain a product having a substantially lower sulfur content than the initial reaction product.

2,316,084
LUBRICANT

Clarence M. Loane, Hammond, Ind., James W. Gaynor, Chicago, Ill., and Lawson W. Mixon, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana

No Drawing. Application March 24, 1941, Serial No. 384,943
19 Claims. (Cl. 252—48)

1. A lubricant composition comprising a mineral oil and a small amount of the product obtained by the method comprising reacting a phosphorus sulfide and an olefin polymer whereby a phosphorus and sulfur-containing reaction product is obtained, neutralizing with a basic reagent, and treating at a temperature above about 100° F. with an agent having an active hydrogen atom to obtain a product having a substantially lower sulfur content than the initial reaction product.

2,316,085
LUBRICANT

Charles D. Kelso, Calumet City, Ill., and Lawson W. Mixon, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana

No Drawing. Application March 24, 1941, Serial No. 384,945
26 Claims. (Cl. 252—39)

1. A lubricant comprising a lubricating oil and

the phosphorus and sulfur-containing reaction product of a phosphorus sulfide and a high molecular weight organic compound having a molecular weight of at least about 2000 characterized by its ability to enhance the viscosity index of a lubricating oil, said reaction product being used in a small but sufficient amount to simultaneously increase the viscosity index of said lubricant and to inhibit the formation of sludge and varnish-like materials in said lubricant.

2,316,086
LUBRICANT

Frederick H. MacLaren, Munster, Ind., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana

No Drawing. Application March 24, 1941, Serial No. 384,946
26 Claims. (Cl. 252—48)

10. A mineral oil composition comprising a viscous mineral oil and in admixture therewith the phosphorus and sulfur-containing reaction product of a phosphorus sulfide and the condensation product obtained by treating a halogenated long chain paraffin with an aromatic hydrocarbon in the presence of a catalyst of the Friedel-Crafts type, said reaction product being present in an amount sufficient to improve the viscous mineral oil with respect to lowering the pour point, inhibiting oxidation and preventing varnish formation.

2,316,087
LUBRICANT

James W. Gaynor, Chicago, Ill., and Clarence M. Loane, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana

No Drawing. Application June 26, 1941, Serial No. 399,936
21 Claims. (Cl. 252—48)

1. A lubricant containing a lubricating oil and a minor amount of the phosphorus and sulfur-containing product obtained by the process comprising reacting a hydrocarbon with a sulfurizing agent and a phosphorus sulfide, and subsequently reacting the product so obtained with a basic reagent.

2,316,088
LUBRICANT

Clarence M. Loane, Hammond, Ind., and James W. Gaynor, Chicago, Ill., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana

No Drawing. Application November 27, 1941, Serial No. 420,704
28 Claims. (Cl. 252—48)

5. A lubricant containing hydrocarbon oil and a minor amount of a neutralized phosphorus and sulfur-containing reaction product of a phosphorus sulfide and an olefin hydrocarbon having in the molecule at least about 20 carbon atoms, of which at least 12 carbon atoms are in a straight chain.

2,316,089
LUBRICANT

John A. Anderson, Chicago, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana

No Drawing. Application December 26, 1941, Serial No. 424,484
35 Claims. (Cl. 252—39)

1. A lubricant composition containing an oil, and a small amount of the phosphorus and sulfur-containing reaction product of a phosphorus sulfide and a copolymer of a mono-olefin and a non-aromatic hydrocarbon having the general formula C_nH_{2n-x} in which x is a whole number selected from the group consisting of 2 and multiples of 2 said copolymer being prepared in the presence of a Friedel-Crafts type catalyst and having a molecular weight of at least about 1000 to 30,000.

2,316,090
LUBRICANT

Charles D. Kelso, Calumet City, Ill., and Lawson W. Mixon, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana

No Drawing. Application December 30, 1941, Serial No. 424,967
31 Claims. (Cl. 252—48)

1. A lubricant composition containing an oil and a small amount of a sulfur compound selected from the class consisting of elemental sulfur and an organic sulfur compound capable of decomposing to form free sulfur and a small amount of the neutralized phosphorus and sulfur-containing reaction product of a phosphorus sulfide and an olefin.

2,316,091
LUBRICANT

Claron N. White, Chicago, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana

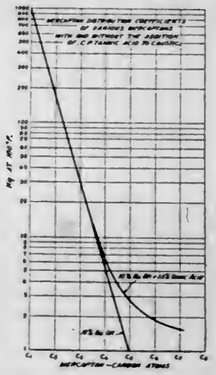
No Drawing. Application August 29, 1942, Serial No. 456,701
10 Claims. (Cl. 252—48)

1. A lubricant containing a small amount of a phosphorus sulfide-resin-like oil reaction product having at least a portion of the titratable acidity thereof reduced by reaction with a basic reagent, said resin-like oil being obtained from a substantially wax-free and asphalt-free lubricating oil stock by precipitation with a liquefied normally gaseous hydrocarbon.

2,316,092
METHOD OF TREATING OILS

Vernon J. Loyd, East Chicago, Ind., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York

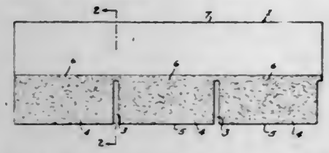
Application September 19, 1942, Serial No. 458,956
8 Claims. (Cl. 196—31)



1. That method of removing mercaptans of 4 or more carbon atoms from petroleum fractions comprising contacting the fraction with an

aqueous alkaline reagent to which tannic acid has been added to promote the solution of mercaptans in said reagent.

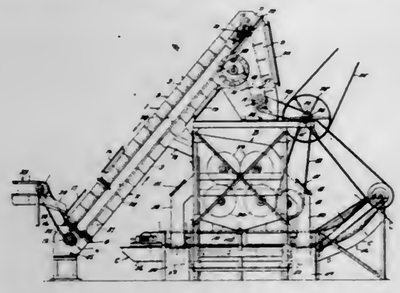
2,316,093
INSULATING COVERING
Arthur Dawes MacNutt, Kenmore, N. Y., assignor to Certain-Teed Products Corporation, New York, N. Y., a corporation of Maryland
Application December 5, 1936, Serial No. 114,359
20 Claims. (Cl. 108—7)



4. A roofing sheet comprising a weather-resisting web having laminated thereto a dry web of mineral wool fibres in the form of a self-sustaining felted structure in said dry web.

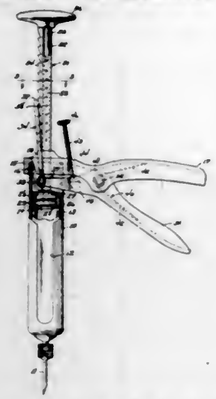
15. A roof comprising shingles arranged in horizontal rows or courses, the butts of the shingles in each row being spaced upwardly from those of the next subjacent row of shingles in conventional form, and heat insulating mats of inorganic fibrous material having open air-filled interstices attached to the under surfaces of the shingles, the length of said mats being equal to the distance between the butts of adjacent rows of shingles and the width of the mats equal to the width of the shingles, the sides and ends of the mats on adjoining shingles abutting so as to form a practically continuous, unbroken mat or blanket of said fibrous material beneath the shingles.

2,316,094
APPARATUS FOR TREATING FOODS
Ronald B. McKinnis, Winter Haven, Fla., assignor to Sunshine Foods Inc., Winter Haven, Fla., a corporation of Florida
Application October 7, 1939, Serial No. 298,464
7 Claims. (Cl. 214—17)



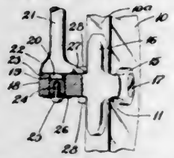
1. A conveying apparatus for fruits and vegetables comprising a pair of substantially parallel tubes joined at one end by a U-shaped connection and at the opposite end with an angularly disposed connection, liquid seals in said U-shaped connection and angularly disposed connection, an endless conveyor within said parallel tubes and movable through said liquid seal, an inlet in one of said tubes between said seals, an outlet in the other tube between said seals, and means operatively connected to said conveyor for propelling the fruit and vegetables from the inlet to the outlet.

2,316,095
VACCINATING SYRINGE
John H. Mead, Jr., Scottsbluff, Nebr.
Application July 15, 1941, Serial No. 402,511
2 Claims. (Cl. 128—215)



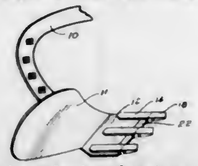
2. A syringe, comprising a body, a piston within the body, a tube connected to the piston, a rod in the tube and connected to the piston and held against rotation therein, rubber washers on the piston, means operated by the relative movement of the tube and rod for compressing the washers, a laterally extending handle carried by the body, a spring pressed operating lever fulcrumed on the handle and having a branched end straddling the body, ratchet teeth extending longitudinally of the tube, an inverted U-shaped pawl pivotally connected to the ends of the branched end of the operating lever and engaging the ratchet teeth, a spring carried by said branched end yieldingly holding the pawl in engagement with the ratchet teeth, a threaded pin engaged in a threaded opening in the handle, and a shoulder formed on the operating lever, said pin engaging the shoulder when the operating lever is returned to normal position by its control spring after each operation and limiting the resetting movement of the pawl to regulate the dosage.

2,316,096
EYEGLASS
Reinhardt F. Metzger, Glendale, Long Island, N. Y.
Application March 13, 1940, Serial No. 323,667
8 Claims. (Cl. 88—53)



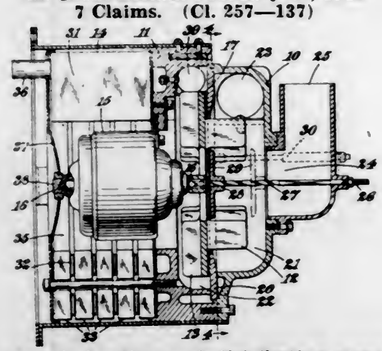
1. In eyeglasses of the class described, a lens engaging part, a bow, said bow comprising a horizontal shank portion and a depending coupling portion at the forward end of said shank portion, means pivotally supporting the coupling portion in connection with said part to provide swinging movement of the bow within predetermined limits, and said depending coupling portion having a recess extending longitudinally and opening through the end thereof to receive pin like means for retaining said coupling portion against accidental displacement from said part.

2,316,097
PLOWSHARE
Lloyd Mohr, Swanton, Ohio, assignor to Raymond V. Pilliod, Swanton, Ohio
Application August 22, 1940, Serial No. 353,719
3 Claims. (Cl. 97—125)



1. In a plowing device having a plow share, said plow share comprising a plate, a series of ribs integral with said plate, a corresponding series of detachable teeth adapted to form an intimate fit with the outer end of said ribs so that said teeth form substantially a continuation of said ribs, said ribs having grooves in the sides thereof, replaceable cutting strips disposed between said ribs, the ends of said cutting strips projecting into said grooves to secure said replaceable strips in position, removal of said strips being facilitated upon displacement of said teeth and the forward edges of said cutting strips being adjacent the inner edges of said teeth whereby the ends of the grooves prevent movement of the strips in longitudinal directions and the teeth prevent movement thereof in a lateral direction.

2,316,098
HEATING APPARATUS
Eric Beecroft Moss and Victor James Samuel Russell, London, England, assignors to S. Smith & Sons (Motor Accessories) Limited, London, England, a British company
Application April 22, 1942, Serial No. 440,104
In Great Britain February 21, 1941
7 Claims. (Cl. 257—137)

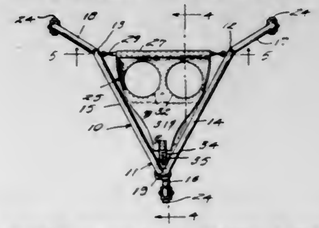


1. An air heating and distributing apparatus comprising a radial flow fan having a set of blades open in the center to receive air axially from either of both ends of the fan, an axial inlet at one end, an annular heat exchange device disposed adjacent said inlet, offset axially from said fan, and adapted to heat air drawn through it by said fan, an electric motor supported within said annular device and operatively connected with said fan to drive the same, an axial inlet at the opposite end of said fan for unheated air, a mixing valve disposed centrally of said fan, means for adjusting said valve axially of said fan to vary the proportions of heated and unheated air flowing radially through said fan from said inlets, and an outlet for said apparatus disposed radially outwardly of said fan.

2,316,099
LINOLEUMLIKE PRODUCTS
Frederick J. Myers, Philadelphia, Pa., assignor to The Resinous Products & Chemical Company, Philadelphia, Pa.
No Drawing. Application July 5, 1941, Serial No. 401,270
3 Claims. (Cl. 117—64)

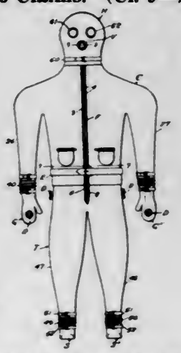
1. Linoleum-like floor and wall coverings comprising a fibrous base having firmly attached thereto a tough resinous layer of a plastic mass, substantially free of volatile solvent, said mass comprising a uniform mixture of an oil-modified alkyd resin, filling materials, a reaction condensate of urea, formaldehyde and a monohydric alcohol having two to eight carbon atoms, and an ester-type plasticizer in which said condensate is soluble.

2,316,100
FOLDING WALKING AND SKATING GUARD
Arvid Nelson, Syracuse, N. Y.
Application December 4, 1941, Serial No. 421,675
6 Claims. (Cl. 155—22)



6. A mobile support comprising a frame having an angular upper portion formed of forwardly converging members, a frame consisting of two members, one of said members having a leg at each end thereof, a sleeve secured to one of said legs, the other member having a leg at one end and a depending portion at its other end engaging in said sleeve and rotatable therein, and means to hold the members from rotation in operative position, a flexible member connecting the other ends of said members to provide a triangular enclosure, and a fabric seat detachably mounted on said flexible member and to one of said supporting legs.

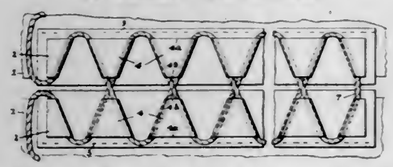
2,316,101
LIFE PRESERVER
John Norred, Chicago, Ill.
Application December 17, 1941, Serial No. 423,292
15 Claims. (Cl. 9—20)



1. In a waterproof protective garment comprising an upper section and a lower section,

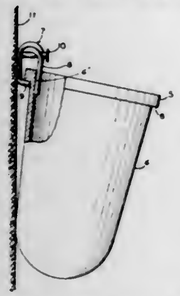
the opposed edges of which are arranged to be united to provide a waterproof covering for the wearer, and means for detachably uniting said sections, said means comprising a ring of relatively rigid material adapted to be placed about the body of the wearer and elastic bands at the opposed edges of said sections, respectively, stretched about and snugly engaging the outer surface of said ring.

2,316,102
LACING EQUIPMENT
Frank W. Preston, Paterson, N. J.
Application May 23, 1942, Serial No. 444,281
10 Claims. (Cl. 24—140)



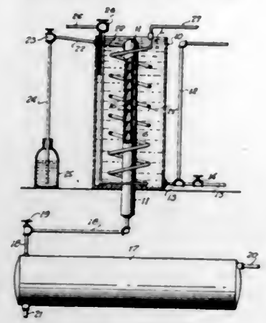
5. Flexible sheet material having two opposed marginal parts lying in approximately the same plane and to be drawn together, in combination with flexible lacing means for drawing said parts together, sheet portions of said parts existing as loops arranged in series extending and having their free edges extending lengthwise of said parts and the portions of the loops of each part remote from the other part interiorly flaring, and said lacing means being reeved through successively disposed loops of both said parts and thereby connecting the latter together.

2,316,103
HANGER
Jesse O. Reed, Washington, D. C., assignor to Claude R. Wickard, as Secretary of Agriculture of the United States of America, and his successors in office
Application October 6, 1941, Serial No. 413,801
4 Claims. (Cl. 248—311)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



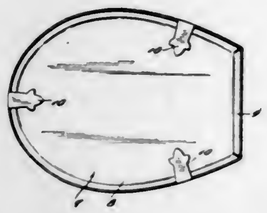
1. A hanger for use in suspending an article having an upper edge section and a downwardly facing shoulder near the top thereof, comprising a resilient wire bent in the shape of a closed loop to engage the article on its side opposite the downwardly facing shoulder, the ends crossing at the top of the loop to form a bridge for engaging a peg inserted through the loop to support the hanger and extending downward on either side, the terminals of the wire being bent inward toward the loop to form fingers for supporting the articles at the downwardly facing shoulder.

2,316,104
NONCONDENSABLE GAS PURGER
Louis P. Reiss, Marshall, Tex.
Application November 28, 1940, Serial No. 367,557
5 Claims. (Cl. 62—115)



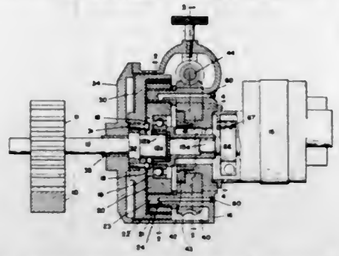
1. Apparatus for the removal of non-condensable gases from a refrigerating system comprising a refrigerant container having a separator therein, said separator comprising a pipe positioned vertically within said container, a core disposed within said pipe, means cooperating with said core and the inner surface of said pipe defining a spiral passage therethrough, means effecting communication between said spiral passage and the receiver of said system whereby the vaporized refrigerating fluid and entrained non-condensable gases from said receiver are subjected to the cold inner surface of said pipe in thin layers to effect condensation of said vaporized refrigerating fluid, an exhaust line for non-condensable gases connected to the upper end of said pipe, and a transparent container having liquid therein, receiving the outlet end of said exhaust line to produce a means for observing the escape of said non-condensable gases from said pipe.

2,316,105
SANITARY TOILET COVER
Lucille L. Roeder, Chicago, Ill.
Application October 28, 1941, Serial No. 416,895
1 Claim. (Cl. 4—242)



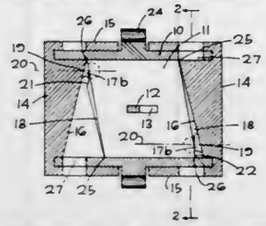
A cover for a toilet lid comprising a solid sheet of material adapted to conform with the curvature of a toilet lid and provided with depending side walls to embrace the side walls of a toilet lid, the lower edge of the walls being provided with inwardly disposed tabs for embracing the bottom side of a toilet lid, said sheet and tabs being of integral construction and of a flexible material, whereby the cover may be conformably fitted over a worn uneven lid and the tabs may be manipulated toward and from the bottom of the lid to facilitate attachment of the cover to said lid and detachment therefrom.

2,316,106
DRIVING MEANS FOR THE SLIDES OF MACHINE TOOLS
Oscar E. Rosen, Detroit, Mich.
Application October 30, 1940, Serial No. 363,523
2 Claims. (Cl. 90—21)



2. In combination with a slide-moving rack of a machine tool, a pinion and drive therefor, said pinion drive consisting of a shaft carrying said pinion and fixed axially to a cylindrical cup, a disc within said cup and eccentric thereto and arranged to contact with the interior cylindrical wall thereof, friction producing material fixed to one of the contacting surfaces, motor driven means for moving said disc in a path concentric to said cup while maintaining the contact therewith and means for preventing rotation of said disc, said last mentioned means consisting of a plurality of pins extending into openings in said disc and mounted in an element coaxial with said cup and means for rotating said element whereby to rotate said cup, disc, and element as a unit and means for fixing the said element against rotation.

2,316,107
ENGINE
Zorro David Ruben, Chicago, Ill.
Application September 2, 1941, Serial No. 409,330
12 Claims. (Cl. 121—119)

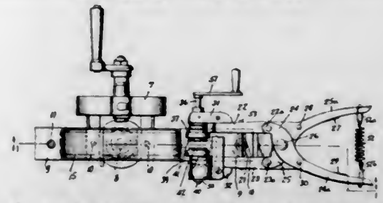


1. In combination, a rotatable cylinder, stationary cylinder heads at the ends thereof, a while permitting relative longitudinal movement, cylindrical piston in said cylinder, means for locking the piston to rotate with the cylinder and means co-acting with the piston and the cylinder heads for forcing the piston to execute a combined rotary and reciprocatory motion as the piston is moved.

2,316,108
ALKYLATION PROCESS AND CATALYST THEREFOR
Robert F. Ruthruff, Chicago, Ill.
No Drawing. Application March 17, 1941, Serial No. 383,803
18 Claims. (Cl. 196—10)

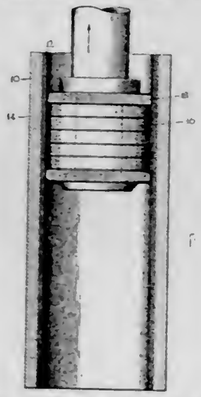
13. In the alkylation of organic compounds, the improvement comprising employing a concentrated sulfuric acid catalyst containing a selenium compound and a compound of at least one metal selected from the group consisting of nickel, silver and copper.

2,316,109
APPARATUS FOR GRINDING OPTICAL GLASS
Harold Solodar, New York, N. Y.
Application April 14, 1942, Serial No. 438,943
3 Claims. (Cl. 51—106)



1. A work-holder for manually presenting a piece of work to a revolving tool, for the performance of an operation thereon, including a pair of levers pivotally connected between their respective ends for relative opposite movement, an extension pivoted to each of said levers and slidably connected to the opposite lever for concurrent opposite directional actuation, said extensions being provided with aligned bearings, a shaft freely rotatable in each of said bearings, the opposed ends of said shafts being of enlarged diameter, resilient work-engaging means carried by the ends of said shafts, means connecting said shafts inwardly of said work-engaging means for movement with said extensions toward and from each other, in response to opposite directional movements of said levers, whereby the actuation of said levers toward each other will produce a concurrent opposite movement of said extensions to urge said work-engaging means into contact with a piece of work positioned therebetween for ultimate engagement thereby in a continuation of such movement to render the work immovable with respect to said work-engaging means, and yieldable means connecting said levers for maintaining said work-engaging means in effective engagement with the work.

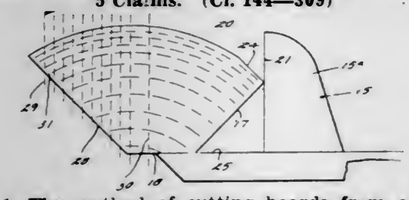
2,316,110
INTERNALLY STRESSED STRUCTURE
Howard E. Somes, Detroit, Mich., assignor to Budd Induction Heating, Inc., Philadelphia, Pa., a corporation of Michigan
Original application April 11, 1940, Serial No. 329,053. Divided and this application January 30, 1942, Serial No. 428,827
3 Claims. (Cl. 148—31)



1. A tubular metallic member having a hardened layer which in the absence of an external

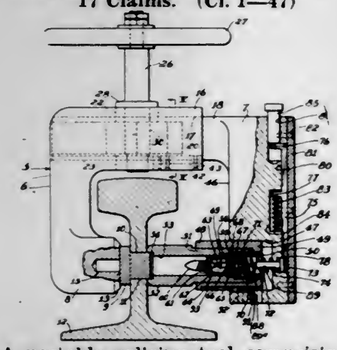
load is under tension, and a materially less hardened layer which in the absence of an external load is under compression, the ratio of the thickness of said hardened layer to that of said less hardened layer being greater than the ratio of the yield strength of said less hardened layer to that of said hardened layer.

2,316,111
METHOD OF CUTTING RECTANGULAR LUMBER
Edward P. Stamm, Portland, Oreg.
Application January 12, 1942, Serial No. 426,502
5 Claims. (Cl. 144—309)



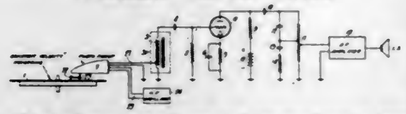
1. The method of cutting boards from a log with the grain of each board substantially perpendicular to the opposite faces thereof which includes initially quartering the log, cutting a triangular heart section from a quarter section, disposing one flat face of the truncated quarter section in a horizontal position on a log carriage, making a series of vertical cuts through the log parallel with the opposite flat face of the log section, shifting the reduced log section to dispose in a horizontal position the flat face formed by cutting of the heart section, making a second series of vertical cuts through the reduced log section, again shifting the further reduced log section to dispose said first-named flat face in a vertical position, and finally making a third series of vertical cuts in the further reduced log section.

2,316,112
BONDING DEVICE
Robert Temple, Jr., Pittsburgh, Pa., assignor, by mesne assignments, to Temple Velocity Equipment, Inc., a corporation of Delaware
Original application April 28, 1933, Serial No. 668,371, now Patent No. 2,038,913, dated April 28, 1936. Divided and this application March 30, 1936, Serial No. 71,694
17 Claims. (Cl. 1—47)



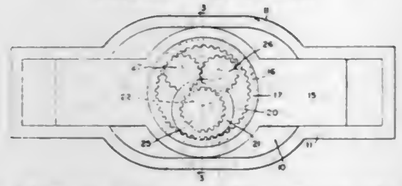
1. A portable splicing tool comprising a support for the cable splicing elements, a barrel, means for shooting a projectile through said barrel and against the cable splicing elements on said support, the support being spaced from the end of the barrel a sufficient distance to permit removal of the projectile from the end of the barrel.

2,316,113
PHOTOELECTRIC PHONOGRAPH
Milton L. Thompson, Hollywood, Pa., and Elmer O. Thompson, Grasmere, N. Y., assignors to Philco Radio and Television Corporation, Philadelphia, Pa., a corporation of Delaware
Application October 19, 1940, Serial No. 361,968
2 Claims. (Cl. 179—100.4)



1. In a phonograph record reproducing system for use with a phonograph record recorded at constant amplitude over the low frequency portion of its range and at constant velocity over the remainder of its range, a photo-electric phonograph pickup device employing a stylus, a light source, and a low-impedance light-sensitive electric circuit element, said element being responsive, through the medium of a directed light beam, to the movement of said stylus in accordance with undulations cut in said record, the output signal of said light-sensitive element being substantially directly proportional to the amplitude of the motion of said stylus, a coupling transformer having a relatively high step-up ratio, the low-impedance winding of said transformer being connected to the output of said light-sensitive element, and an electrical network connected to the high impedance winding of said transformer and adapted to be substantially inoperative over said low frequency portion and to differentiate the output signal from said element over the remainder of said range, thereby to provide a modified output signal substantially proportional to the velocity of said stylus.

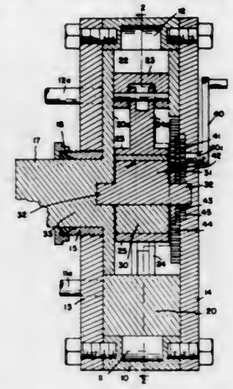
2,316,114
MACHINE ELEMENT
Tom H. Thompson, Detroit, Mich., assignor by mesne assignments, to Builder-Thompson Engineering and Research Corporation, Detroit, Mich., a corporation of Michigan
Application February 17, 1941, Serial No. 379,245
4 Claims. (Cl. 74—52)



1. Mechanism for converting rotary motion to or from reciprocatory motion, comprising driven and driving connections and two circular eccentrics of equal lift, one inside the other, adapted to act one on the other, one of said connections embracing the outer eccentric, in combination with means insuring the relative rotation of the eccentrics in opposite directions.

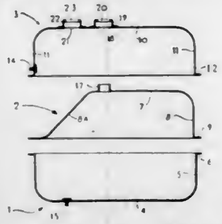
2,316,115
ROTARY PUMP OR MOTOR
Tom H. Thompson, Detroit, Mich., assignor, by mesne assignments, to Builder-Thompson Engineering and Research Corporation, Detroit, Mich., a corporation of Michigan
Application April 23, 1941, Serial No. 389,903
4 Claims. (Cl. 103—161)

1. A pump or motor consisting of a cylindrical housing having inlet and outlet means for fluid, a centrally located stationary eccentric shaft consisting of inner and outer eccentric members, a rotor in said housing and having radial cylinders, pistons in said cylinders operatively connected to and reciprocated by said shaft during



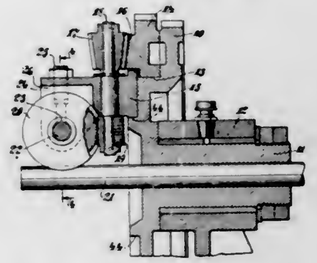
rotation of said rotor, gearing means within said housing and constructed and arranged to vary the eccentricity of said shaft by changing the relative positions of said eccentric members, and means extending to the outside of said housing for operating said gearing and maintaining the adjusted positions of said members.

2,316,116
TANK
William G. Thompson and Bartlett M. Kerr, Racine, Wis., assignors to J. I. Case Company, Racine, Wis., a corporation
Application October 26, 1939, Serial No. 301,336
4 Claims. (Cl. 220—22)



4. In a two-compartment tank for a tractor, a one-piece upwardly dished upper portion, an upwardly dished intermediate portion adapted to telescope into said upper portion but having an offset providing a clearance space at one side of the upper portion forming an auxiliary chamber, a downwardly dished lower portion, said portions having out-turned flanges, a plurality of filler openings in the upper portion and a filler opening in the intermediate portion, said upwardly dished upper portion and said outwardly dished intermediate portion approaching each other and being permanently united at the filler opening in the intermediate portion, and at a location such that said opening registers with one of the filler openings in the upper portion, and said flanges being welded to each other, an outlet fitting on the upper portion communicating with said clearance space, and an outlet fitting on the lower portion communicating with the space enclosed by said intermediate portion and said lower portion.

2,316,117
CHUCK FOR ROTATING AND ADVANCING TUBING OR OTHER MATERIAL
Edwin F. Tilley, Dunellen, N. J.
Application February 11, 1941, Serial No. 378,368
1 Claim. (Cl. 29—63)

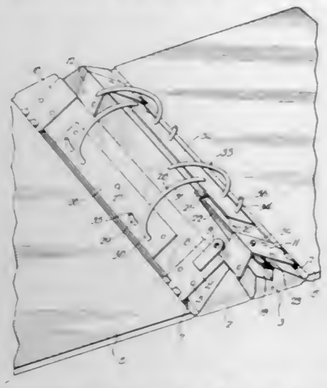


A chuck for rotating and advancing tubing, comprising a main gear having a tubular hub extending from one face and having stepped shoulders of different diameters at the opposite face of the same, a ring gear rotatably seated on the shoulder of largest diameter and having gear teeth at the rim of the same by which it may be driven independently of the driving of the main gear, a retainer ring rigidly seated on the shoulder of lesser diameter and extending radially outwardly in overlapping relation over the ring gear, to thereby rotatably confine said ring gear in seated relation on the main gear, three rigid brackets projecting in equidistantly spaced relation from the face of said retainer ring, said brackets having radially disposed slots therein, radial shafts journalled in said brackets in back of the radial slots in said brackets, bevel pinions on the outer ends of said radial shafts, bevel gear teeth on the face of said ring gear in mesh with said bevel pinions, worms on the inner ends of said radial shafts, three equidistantly spaced concavely toothed radially disposed worm gears in the slots in said brackets and in mesh with said worms at the back of said slots, spindles on which said worm gears are rotatably mounted, said brackets having radially extending slots receiving opposite end portions of said spindles and thrust screws adjustable inwardly in said brackets to apply positive pressure to the opposite end portions of the spindles engaged in said slots for positively locating the inner rim portions of the worm gears in position to center and to positively grip tubing extending through the tubular hub of the main gear.

2,316,118
LOOSE-LEAF BINDER
Paul O. Unger, Elmhurst, Ill., assignor to Wilson-Jones Company, Chicago, Ill., a corporation of Massachusetts
Application December 12, 1941, Serial No. 422,611
2 Claims. (Cl. 129—17)

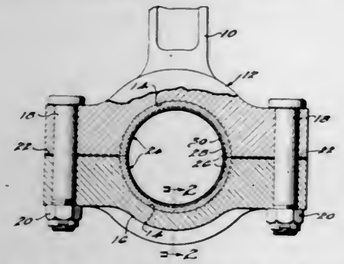
2. In a loose leaf binder, a pair of back sections of substantially triangular cross section joined together by a hinge, a plurality of relatively short prongs extending at substantially right angles from each back section in staggered relationship to the corresponding prongs on the other back section, and a plurality of relatively long prongs mounted on said back sections in transverse alignment with said short prongs, each of said long prongs having a short portion conforming in contour with said short prongs and a long portion curved on an arc of a circle having

its center coinciding with said hinge, the free ends of said long prongs engaging the free ends



of the aligned short prongs when said binder is closed.

2,316,119
BEARING
William Harold Bagley, Jr., Detroit, Mich., assignor to Electro Bearing Company, Detroit, Mich., a corporation of Michigan
Substituted for abandoned application Serial No. 115,560, December 12, 1936. This application August 14, 1939, Serial No. 290,007
7 Claims. (Cl. 308—237)

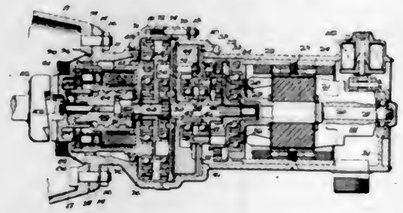


1. A shell type bearing comprising a relatively heavy generally semi-cylindrical steel backing member having a non-ferrous highly heat conducting metallic layer bonded to the interior surface thereof and a coating of bearing metal bonded to the interior surface of said heat conducting layer, said bearing metal coating being of sufficient thickness to provide a bearing surface and being of a thickness less than .005 of an inch.

2,316,120
DECALCOMANIA PAPER
John MacLaurin, Ware, Mass., assignor to McLaurin-Jones Co., Brookfield, Mass., a corporation of Massachusetts
No Drawing. Application August 11, 1939, Serial No. 289,631
7 Claims. (Cl. 117—36)

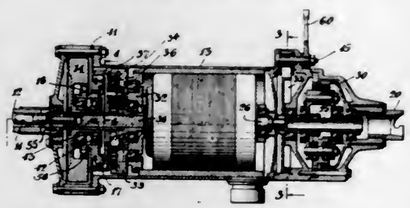
7. That improvement in methods of making a decalcomania paper having a backing sheet of paper sized sufficiently to make it stable in dimensions under wide changes in atmospheric humidity, comprising the steps of applying an aqueous dispersion of decalcomania adhesive to one side of said sheet, the proportions of solid constituents in said dispersion being sufficiently great to prevent any substantial penetration of said constituents into the sheet, applying to the opposite side of said sheet a wetting agent dispersed in a non-aqueous solvent which is not miscible in the sheet with the adhesive coating material, and thereafter drying and calendering the sheet.

2,316,121
ENGINE STARTING MECHANISM
Romeo M. Nardone, Westwood, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application June 12, 1941, Serial No. 397,794
3 Claims. (Cl. 123—179)



1. In an engine starter, the combination of a rotating inertia member, means for driving the inertia member including a driving gear, a driven gear and an intermediate reactance gear, said reactance gear being rotatably mounted in a rotatable frame, means for connecting said rotatable frame to the engine in a manner to crank the same, means including a part pivotally mounted on said frame and a cooperating stationary part for preventing rotation of the frame in one direction, and means for reducing the speed of the driving gear whereby the reaction force on the frame is reversed and the frame is rotated in a direction to crank the engine.

2,316,122
ENGINE STARTING MECHANISM
Romeo M. Nardone, Westwood, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application November 14, 1941, Serial No. 419,203
6 Claims. (Cl. 123—179)



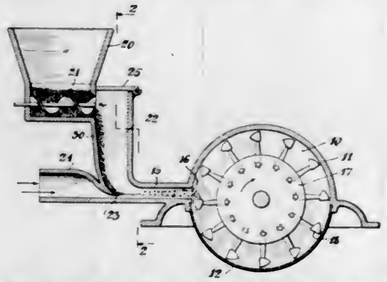
1. In an engine starter, the combination of a rotatable inertia member, means for driving the inertia member including a driving gear, a driven gear and an intermediate gear, said intermediate gear being rotatably mounted in a rotatable frame, means including a flexible torque-transmitting shaft for connecting said rotatable frame to the engine in a manner to crank the same, means for preventing rotation of the frame in one direction, and means acting upon said driving gear for reducing the speed of the driving gear whereby the reaction force on the frame is reversed and the frame is rotated in a direction to crank the engine.

2,316,123
MODULATION SYSTEM
Charles F. Sheaffer, Tulsa, Okla., assignor to Radio Corporation of America
Application September 13, 1940, Serial No. 356,689
11 Claims. (Cl. 179—171.5)



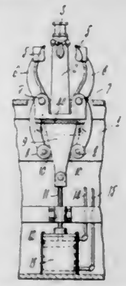
1. In a wave length modulation system, a wave generating means comprising a pair of electron discharge devices each having input and output electrodes, a tank circuit connected between the output electrodes of one of said devices, a coupling between said tank circuit and the input electrodes of the other of said devices, a coupling between the output electrodes of said other of said devices and the input electrode of said one of said devices, a pair of electron discharge tubes each having an anode, a cathode and a control grid, means coupling the impedances between the anodes and cathodes of said pair of tubes in shunt to said tank circuit, a phase shifting circuit including a resistance and an inductance coupling the output electrodes of said other of said devices to the control grid of one of said tubes, a phase shifting circuit including a resistance and a condenser coupling the output electrodes of said other of said devices to the control grid of the other of said tubes, and means for modulating the impedances of said pair of tubes in push-pull relation in accordance with signals.

2,316,124
APPARATUS FOR IMPACT PULVERIZING
William M. Sheldon, Springfield, N. J., assignor to Louis Ruprecht, Montclair, N. J.
Application August 1, 1940, Serial No. 349,097
5 Claims. (Cl. 83—11)



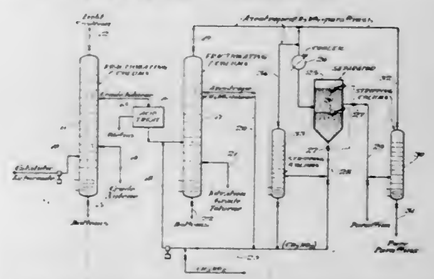
2. An impact pulverizer, comprising a cylindrical chamber having a feed opening in one side of the peripheral wall thereof and the lower portion of its peripheral wall being perforate for the discharge of pulverized material, a rotor mounted within said chamber having a plurality of circumferentially spaced beaters the outer edges of which move close to the chamber wall in passing the feed opening, means for driving the rotor at high speed in the direction to cause its beaters to move upward past the feed opening, a closed feed conduit extending to the feed opening a gas injector which discharges through the feed conduit and through the feed opening into the path of the beaters a high velocity stream of gas moving at approximately right angles to the direction of movement of the beaters with a speed of several hundred inches per second, and means for supplying the material to be pulverized to the mixing tube of said injector to be carried by the gas stream at high velocity through the feed opening and into the path of the beaters.

2,316,125
SHOE UPPER PRESSING AND SHAPING MACHINE
John F. Smith, Quincy, Mass., assignor to Milton L. Dodge, Newburyport, Mass.
Application March 22, 1940, Serial No. 325,379
9 Claims. (Cl. 12—51)



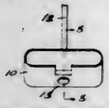
1. In combination, shoe upper pressing means, and means including a pressure limiting device for actuating said pressing means to press a shoe upper with a definite maximum pressure applied by said pressing means regardless of the thickness of said upper.

2,316,126
METHOD OF PRODUCING TOLUENE
Richard D. Geckler, Whiting, and Nathan Fragen, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application March 14, 1941, Serial No. 383,336
10 Claims. (Cl. 202—42)



1. A process for treating a crude toluene cut containing toluene and paraffin hydrocarbons at least some of which have normal boiling points between about 195° F. and about 245° F. to separate the toluene from the paraffin hydrocarbons having normal boiling points below about 245° F., comprising adding nitromethane to said cut in an amount sufficient to form azeotropes with substantially all of the paraffin hydrocarbons having normal boiling points below 245° F., and distilling the resulting mixture to obtain a distillate containing nitromethane-paraffin hydrocarbon azeotropes normally boiling below about 195° F., and a residue containing toluene.

2,316,127
GETTER FOR VACUUM TUBES
Aden J. King, Syracuse, N. Y., assignor to King Laboratories Inc., Syracuse, N. Y., a corporation of New York
Application December 8, 1941, Serial No. 422,079
2 Claims. (Cl. 250—27.5)



2. An individually flashable vacuum tube getter comprising a closed band open at each end and formed from thin sheet material and being of greater width than thickness in cross section, said band being cut from one edge inwardly at spaced intervals to form a tab, said tab being bent out of the plane of the band to form a portion of the band of reduced cross sectional area, a quantity of getter material attached to the reduced portion of said band and said integral tab being folded over said material.

2,316,128
WATER-SOLUBLE CARBOXYETHYL STARCH ETHERS
Louis H. Bock, Huntingdon Valley, and Alva L. Houk, Philadelphia, Pa., assignors to Röhm & Haas Company, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application February 21, 1942, Serial No. 431,840
4 Claims. (Cl. 260—209)

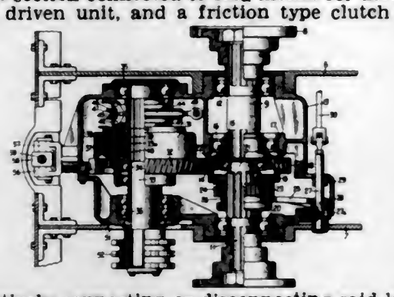
4. A water-soluble β-carboxyethyl ether of starch.

2,316,129
CYANOETHYL STARCH ETHERS
Louis H. Bock, Huntingdon Valley, and Alva L. Houk, Philadelphia, Pa., assignors to Röhm & Haas Company, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application February 21, 1942, Serial No. 431,841
5 Claims. (Cl. 260—209)

1. The process of preparing water-insoluble β-cyanoethyl ethers of starch which comprises mixing between 0° and about 40° C. starch and acrylonitrile in a dilute solution of a water-soluble, strongly basic hydroxide, the proportion of acrylonitrile being at least three mols per glucose unit of the starch.

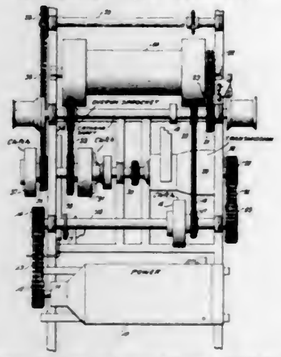
2,316,130
POWER TAKE-OFF
Clarence I. Bohmer, Columbus, Ohio, and Chris Gerst, Detroit, Mich., assignors to The Jaeger Machine Company, Columbus, Ohio, a corporation of Ohio
Application April 26, 1941, Serial No. 390,610
10 Claims. (Cl. 180—53)

1. In combination with a truck having a main engine for moving it along, a drive shaft driven thereby, a driven unit mounted on said truck, means for driving said unit, a power take-off unit associated with said drive shaft for transmitting power from said shaft to said means for driving said first-named unit, said power take-off unit comprising shaft sections which form continuations of said drive shaft, one of said sections being driven by the main engine and the other being adapted to drive the wheels of the truck, a clutch interposed between said sections for selectively connecting or disconnecting them, a separate shaft section connected to said means for driving said driven unit, and a friction type clutch for



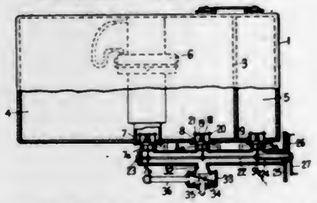
selectively connecting or disconnecting said last-named shaft and said driven shaft section.

2,316,131
MULTISPEED DRIVE
Harland W. Cardwell, Wichita, Kans., assignor to Cardwell Manufacturing Company, Inc., Wichita, Kans., a corporation of Kansas
Application March 15, 1941, Serial No. 383,618
6 Claims. (Cl. 74—217)



1. A power drive comprising a driving shaft, a driven shaft, an intermediate shaft, engageable means for driving said driven shaft directly by said driving shaft, means for driving said intermediate shaft from said driving shaft at any one of a plurality of speeds relative to said driving shaft and means including a clutch and an overrun device between said intermediate shaft and said driven shaft for driving said driven shaft by said intermediate shaft.

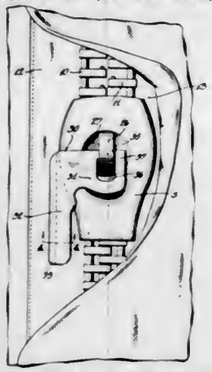
2,316,132
WATER SUPPLY TANK FOR CONCRETE MIXERS
Gebhard Jaeger, Columbus, Ohio, assignor to The Jaeger Machine Company, Columbus, Ohio, a corporation of Ohio
Application July 30, 1940, Serial No. 348,526
4 Claims. (Cl. 221—95)



1. In combination with a water supply tank

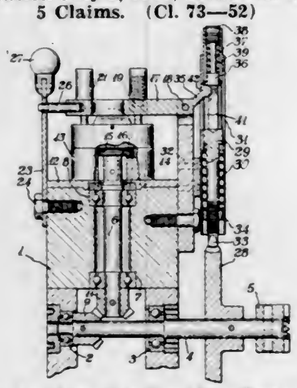
having a plurality of outlets, a housing connected to all of said outlets, valve mechanism for controlling each of said outlets, said mechanism normally keeping the valve closed, means for opening said valves, said means comprising a rotatable shaft extending through said housing and carrying cams adapted to engage some of said valve mechanisms, a rotatable sleeve disposed on said shaft and carrying at least one cam adapted to engage one of said valve mechanisms, and means for rotating said shaft and said sleeve independently of each other from a point outside of said housing.

2,316,133
SLIDE FASTENER
Louis W. Schaaff, Jackson Heights, N. Y., assignor to Waldes Koh-I-Noor, Inc., Long Island City, N. Y., a corporation of New York
Application August 7, 1941, Serial No. 405,858
4 Claims. (Cl. 24—205)



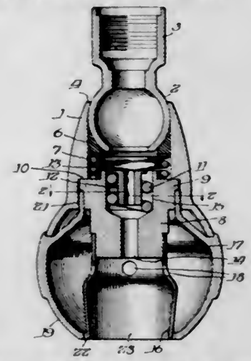
4. A slider for slide fasteners provided with an overlying fly concealing the fastener, comprising front and rear plates disposed in spaced parallel relation, a rivet extending through said plates, and an L-shaped pull tab, the laterally extending leg of which is pivotally connected to the rivet head and the longitudinally extending leg of which is offset from the center line of the slider in the direction of the free edge of the concealing fly and is formed as a grip portion.

2,316,134
STATIC FUSE TESTING MACHINE
Michael Sekella, Elmira Heights, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application July 1, 1941, Serial No. 400,707
5 Claims. (Cl. 73—52)



1. In a test machine for time fuses a fixture for holding the fuse, rotatable driving means in the fixture for the fuse timing mechanism, clamping means for holding the fuse in the fixture, a detent for locking the driving means, yielding means normally holding the detent in locking position and means for releasing the locking detent actuated by movement of the clamping means to position to immobilize the fuse.

2,316,135
SHOWER HEAD
James R. Turek, Berwyn, and Carl Bolling, Chicago, Ill., assignors to Crane Co., Chicago, Ill., a corporation of Illinois
Application January 29, 1942, Serial No. 428,642
4 Claims. (Cl. 261—116)



1. A shower head comprising a housing, inlet coupling means for the said housing, a centerpiece mounted within the said housing having a passageway therethrough with the upper end portion thereof substantially enlarged, a wire helix of approximately the same diameter as the enlarged upper end of the said centerpiece passageway and positioned therewithin, a plug fitted within said wire helix, the said centerpiece having a depending skirt with apertured means communicating with the atmosphere, whereby water flowing therethrough is given a swirling motion with air admixed therein to produce a mist-like spray.

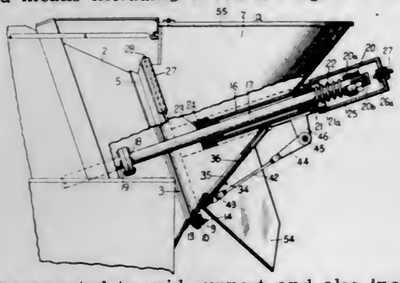
2,316,136
PROCESS FOR THE ISOMERIZATION OF DIHYDROBENZENES
Norris Turnbull, Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 7, 1941, Serial No. 405,829
12 Claims. (Cl. 260—666)

1. The process which comprises heating 1,4-dihydrobenzene in the liquid phase at temperatures above the atmospheric boiling point of said 1,4-dihydrobenzene in contact with an alkali metal alcoholate and recovering 1,2-dihydrobenzene from the reaction mixture.

2,316,137
TRUCK MIXER
Gerrit Antoon Visser, Columbus, Ohio, assignor to The Jaeger Machine Company, Columbus, Ohio, a corporation of Ohio
Application September 22, 1941, Serial No. 411,806
7 Claims. (Cl. 259—161)

1. In combination with a rotatable mixing drum having an opening at the end thereof and

being provided with screw blades for selectively drawing material into the drum through said opening or for forcing material from the drum through said opening, a centrally disposed support provided in said mixing drum, a material receiving hoppper supported in cooperative relationship with said opening, means for connecting the hopper to the drum so that the hopper will always be in position to feed material into the drum through said opening, said means permitting rotation of the drum relative to the hopper, said means including a rod having its forward



end connected to said support and also including sealing rings carried by the hopper and the drum adjacent said opening, said hopper being carried on said rod by a sleeve free to slide on said rod, a compression spring surrounding said rod and having one end bearing against the sleeve to force it forwardly on the rod to maintain said sealing rings in resilient contact, and an adjustable stop on said rod with which the other end of the spring contacts, said hopper being provided with a discharge opening in one wall thereof, and a gate for controlling said opening.

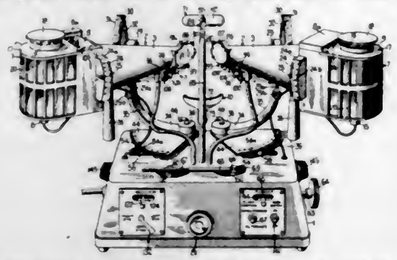
2,316,138
TOILET ARTICLE
Irving Wexler, New York, N. Y., assignor to The R. H. Laird Manufacturing Company, Inc., New York, N. Y., a corporation of New York
Application July 9, 1942, Serial No. 450,351
9 Claims. (Cl. 33—18)



1. A toilet article for use in producing a mark simulating the seam of a stocking, comprising a substantially Y-shaped guide, a marker positioned at the apex of said guide and frictionally held and slidably adjustable therein.

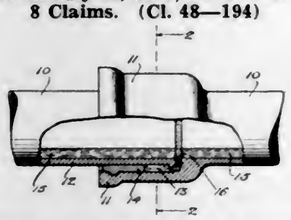
2,316,139
ORTHOPTIC INSTRUMENT
Le Roy Wottring, Altadena, Calif., assignor to The Wottring Instrument Company, Amherst, Ohio, a corporation of Ohio
Application May 15, 1942, Serial No. 443,094
32 Claims. (Cl. 128—76.5)

1. An orthoptic instrument comprising a base portion, a pair of elongated hollow tubes so mounted on said base portion that a patient may look through the forward ends of such tubes, a translucent target mounted adjacent the rear end of each of said tubes, a source of light in each of said tubes behind each target, an upstanding post for supporting each of said tubes on said base portion, each of said tubes being pivoted to said post adjacent its forward end for adjustment in a vertical plane, means for holding said tube in any position to which it is adjusted, a lever carried by the base for supporting said post, said lever being pivoted to the base



for swinging movement in a horizontal plane, said post having a laterally extending arm pivotally connected to said lever adjacent its forward end, means for clamping said arm in any position to which it is adjusted relative to said lever, and means for adjusting the rear ends of said levers towards and away from each other and holding them in adjusted position.

2,316,140
TREATMENT OF GAS DISTRIBUTION SYSTEMS
John R. Skeen, Philadelphia, Pa., assignor to The United Gas Improvement Company, a corporation of Pennsylvania
Application July 22, 1939, Serial No. 285,941
8 Claims. (Cl. 48—194)



1. A method for treating the interior of a gas distribution system which comprises applying to the interior of said system a liquid mixture comprising as a dust laying agent a neutral oil, comprised principally of aromatic compounds, the preponderant part of said oil having a boiling range included between 170° C. and 390° C., and as a climbing, spreading and tar, resin and gum penetrating agent at least one of a group consisting of phenols; heterocyclic compounds containing ring nitrogen; aldehyde; ketones; arylamines; aromatic alcohols; esters; and ethers.

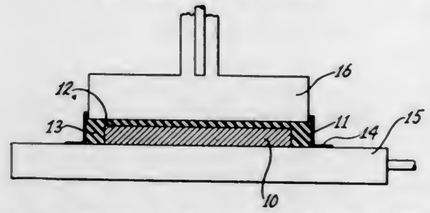
2,316,141
PREPARATION OF COMPOUNDS OF ZIRCONIUM, TITANIUM, AND HAFNIUM
Eugene Wainer, Niagara Falls, N. Y., assignor to The Titanium Alloy Manufacturing Company, New York, N. Y., a corporation of Maine
No Drawing. Application July 17, 1940, Serial No. 346,059
10 Claims. (Cl. 260—429)

10. The method of preparing zirconyl oxalate comprising adding an aqueous solution of a zirconium salt to a solution of a carbonate of the group consisting of alkali metals and ammonium, stirring until a pH of approximately 6 is obtained, washing the resulting zirconium carbonate until substantially free from alkali metals and ammonium, gradually adding the washed zirconium carbonate to an aqueous solution of oxalic acid containing a small amount of octyl alcohol, under such conditions that zirconyl oxalate is precipitated, stirring until all reaction has ceased, and separating the precipitate formed.

2,316,142
DIETHYL ACETATE OF CORTICOSTERONE
George F. Cartland and Marvin H. Kuizenga, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich.
No Drawing. Application August 8, 1941, Serial No. 406,004
12 Claims. (Cl. 260—397.4)

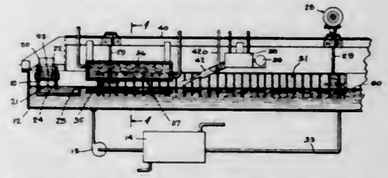
1. The method of producing the diethyl acetate of corticosterone comprising dissolving corticosterone in pyridine and adding diethyl acetyl chloride and permitting the corticosterone and the diethyl acetyl chloride to react, taking up the mixture in ether and washing it successively in acid potassium carbonate and water.

2,316,143
METHOD AND APPARATUS FOR REPRODUCING THE SURFACE CONTOUR OF PATTERNS IN PLASTICS
Maybel Waite Peebles, John C. Waite, and Jerome M. Waite, Albuquerque, N. Mex.
Application October 24, 1940, Serial No. 362,640
10 Claims. (Cl. 41—25)



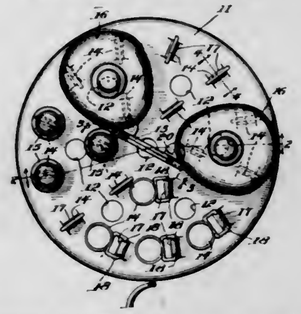
1. The method of producing a matrix having a negative reproduction of the surface contour of a wood pattern which comprises dusting the surface of said pattern with a finely comminuted substance and causing the same to enter the grain cavities and pores of said surface, placing over said surface a layer of unvulcanized rubber of a composition which will be converted by vulcanization into soft flexible rubber and subjecting said rubber to heat and pressure to soften said rubber, pressing portions thereof into the grain cavities and pores in said pattern and vulcanizing said rubber while in contact with said pattern, thereby imparting to said vulcanized rubber an exact negative reproduction of the surface contour of said pattern, and then removing said rubber from said pattern.

2,316,144
FORMATION OF METAL SHAPES
Charles D. Coxe, Bridgeport, Conn., assignor to Remington Arms Company, Inc., a corporation of Delaware
Application August 30, 1941, Serial No. 408,926
43 Claims. (Cl. 22—57.2)



1. Apparatus for the casting of metal by floating said metal upon a fluid immiscible with said metal comprising a substantially stationary fluid bath container to form a planar surface fluid bath, a fluid in said container, means for regulating the exchange of heat between said metal and the media in contact therewith, said means comprising devices for sustaining the heat at a localized area of said fluid, and means for cooling the atmosphere above and adjacent said metal.

2,316,145
NIPPLE STERILIZER
David C. Futrell, North Little Rock, Ark.
Application September 23, 1941, Serial No. 412,019
9 Claims. (Cl. 21—105)

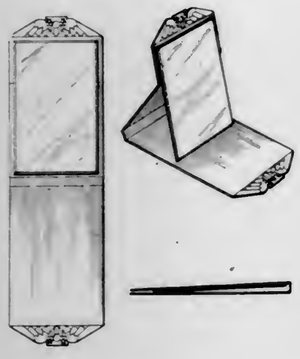


6. A nipple sterilizer for nipples for infants' feeding bottles comprising a support of sheet material provided with symmetrically spaced recesses formed therein by displacing portions of the material out of the plane of the remainder, said recesses being adapted to receive the transversely bent ends of loops of wire shaped to receive said nipples on their intermediate portions, respectively, and a centrally disposed recess for receiving the transversely bent ends of a spring wire handle having intermediate portions adapted to embrace a nipple for manipulating the latter when removed from the support, substantially as described.

DESIGNS

APRIL 6, 1943

135,404
DESIGN FOR A FOLDING MIRROR OR SIMILAR ARTICLE
David Bezborodko, New York, N. Y.
Application October 29, 1942, Serial No. 108,635
Term of patent 3½ years



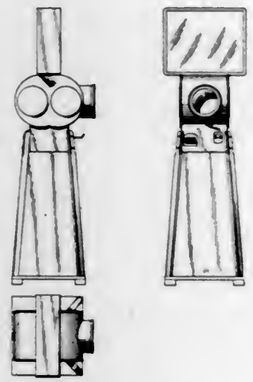
The ornamental design for a folding mirror or similar article, substantially as shown and described.

135,405
DESIGN FOR A CABINET FOR AN AMUSEMENT APPARATUS
John F. Meyer, Chicago, Ill., assignor to The Exhibit Supply Company, Chicago, Ill., a corporation of Illinois
Application November 23, 1942, Serial No. 108,836
Term of patent 7 years



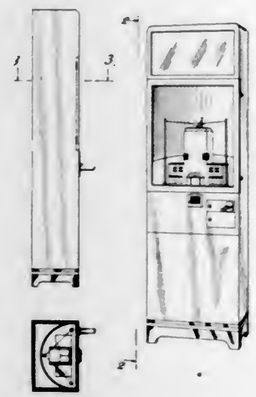
The ornamental design for a cabinet for an amusement apparatus, as shown.

135,406
DESIGN FOR A CABINET FOR AN AMUSEMENT APPARATUS
John F. Meyer, Chicago, Ill., assignor to The Exhibit Supply Company, Chicago, Ill., a corporation of Illinois
Application November 23, 1942, Serial No. 108,837
Term of patent 7 years



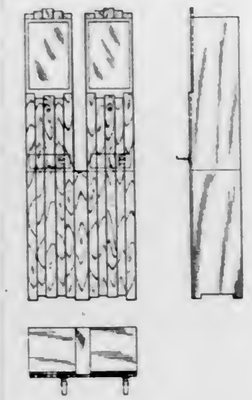
The ornamental design for a cabinet for an amusement apparatus, as shown.

135,407
DESIGN FOR AN AMUSEMENT APPARATUS
John F. Meyer, Chicago, Ill., assignor to The Exhibit Supply Company, Chicago, Ill., a corporation of Illinois
Application November 23, 1942, Serial No. 108,838
Term of patent 7 years



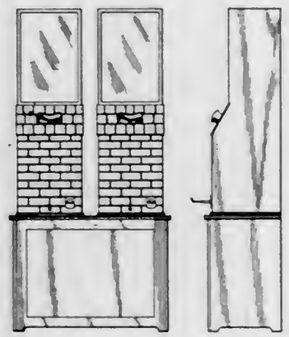
The ornamental design for an amusement apparatus, as shown.

135,408
DESIGN FOR A CABINET FOR AN AMUSEMENT APPARATUS
John F. Meyer, Chicago, Ill., assignor to The Exhibit Supply Company, Chicago, Ill., a corporation of Illinois
Application November 23, 1942, Serial No. 108,839
Term of patent 7 years



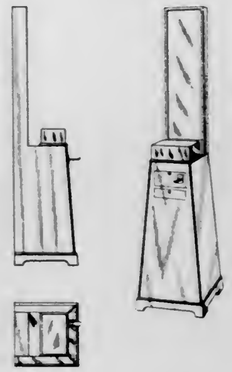
The ornamental design for a cabinet for an amusement apparatus, as shown.

135,409
DESIGN FOR A CABINET FOR AN AMUSEMENT APPARATUS
John F. Meyer, Chicago, Ill., assignor to The Exhibit Supply Company, Chicago, Ill., a corporation of Illinois
Application November 23, 1942, Serial No. 108,840
Term of patent 7 years



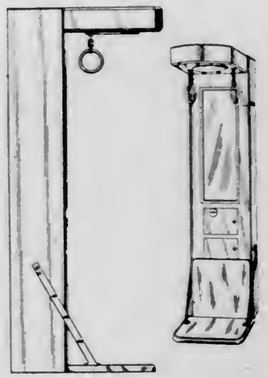
The ornamental design for a cabinet for an amusement apparatus, as shown.

135,410
DESIGN FOR AN AMUSEMENT APPARATUS
John F. Meyer, Chicago, Ill., assignor to The Exhibit Supply Company, Chicago, Ill., a corporation of Illinois
Application November 23, 1942, Serial No. 108,841
Term of patent 7 years



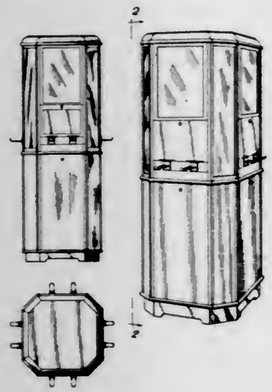
The ornamental design for an amusement apparatus, as shown.

135,411
DESIGN FOR AN AMUSEMENT APPARATUS
John F. Meyer, Chicago, Ill., assignor to The Exhibit Supply Company, Chicago, Ill., a corporation of Illinois
Application November 23, 1942, Serial No. 108,842
Term of patent 7 years



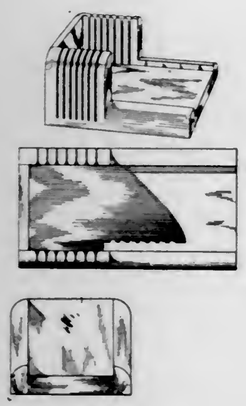
The ornamental design for an amusement apparatus, as shown.

135,412
DESIGN FOR A CABINET FOR A VENDING MACHINE
John F. Meyer, Chicago, Ill., assignor to The Exhibit Supply Company, Chicago, Ill., a corporation of Illinois
Application November 23, 1942, Serial No. 108,843
Term of patent 7 years



The ornamental design for a cabinet for a vending machine, as shown.

135,413
DESIGN FOR A BREAD SLICING BOARD
Arthur R. De Long, Chicago, Ill.
Application February 13, 1943, Serial No. 109,537
Term of patent 3½ years



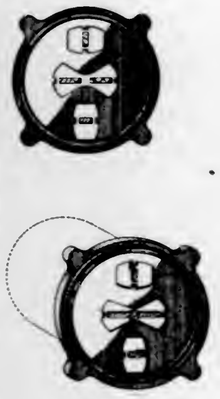
The ornamental design for a bread slicing board, as shown.

135,414
DESIGN FOR A GAME BOARD
John G. Forst, Albany, N. Y.
Application January 29, 1943, Serial No. 109,357
Term of patent 14 years



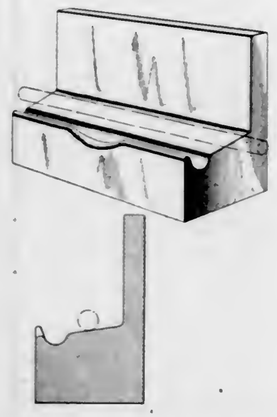
The ornamental design for a game board, substantially as shown.

135,415
DESIGN FOR AN AUTOMATIC PILOT INDICATOR FOR AIRCRAFT
Percy Halpert, Kew Gardens, and Joseph B. Schaefer, Glen Head, N. Y., assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York
Application December 18, 1941, Serial No. 104,898
Term of patent 7 years



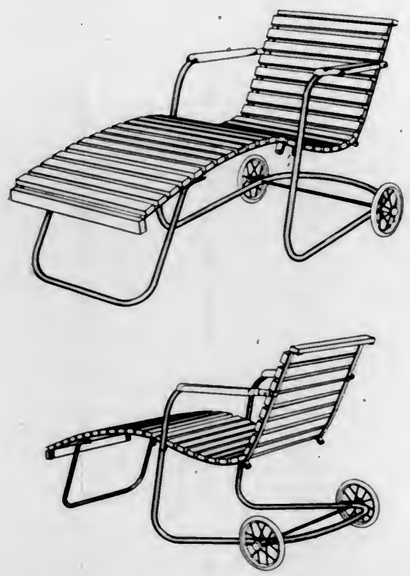
The ornamental design for an automatic pilot indicator for aircraft, as shown.

135,416
DESIGN FOR A FOLLOWER BLOCK FOR A FILING DRAWER
David B. Hull, Bethesda, Md.
Application July 3, 1942, Serial No. 107,402
Term of patent 7 years



The ornamental design for a follower block for a filing drawer, as shown and described.

135,417
DESIGN FOR A CHAISE LONGUE
William I. Smith, Goshen, Ind., assignor to The Hettrick Manufacturing Company, Toledo, Ohio, a corporation of Ohio
Application January 20, 1943, Serial No. 109,288
Term of patent 14 years



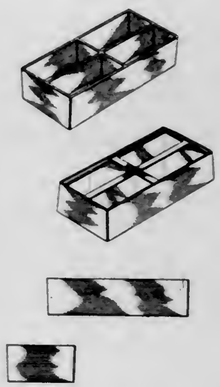
The ornamental design for a chaise longue, as shown.

135,418
DESIGN FOR A RULER
William J. Turner, Northport, N. Y.
Application November 3, 1942, Serial No. 108,689
Term of patent 7 years



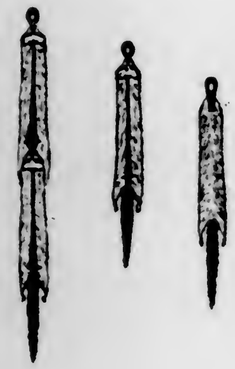
The ornamental design for a ruler, as shown and described.

135,419
DESIGN FOR A BUTTER MOLD OR SIMILAR ARTICLE
John L. Wade, Los Angeles, Calif., assignor of one-third to Ray Swanson, Los Angeles, Calif., and one-third to William Wirt Lake, Pasadena, Calif.
Application January 12, 1943, Serial No. 109,238
Term of patent 3½ years



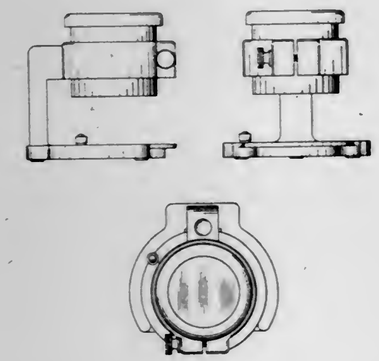
The ornamental design for a butter mold or similar article, as shown.

135,420
DESIGN FOR A SEPARABLE FUR SCARF
Jack Zimmerman, New York, N. Y.
Application February 22, 1943, Serial No. 109,600
Term of patent 3½ years



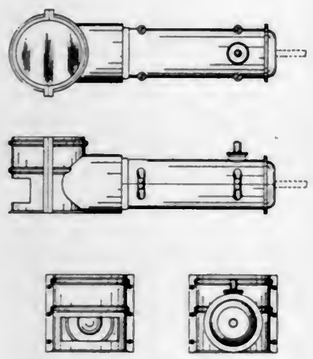
The ornamental design for a separable fur scarf, substantially as shown.

135,421
DESIGN FOR A READING GLASS
Charles D. Austin, Cincinnati, Ohio, assignor to Advertising Displays, Inc., Covington, Ky., a corporation of Kentucky
Application February 18, 1943, Serial No. 109,567
Term of patent 14 years



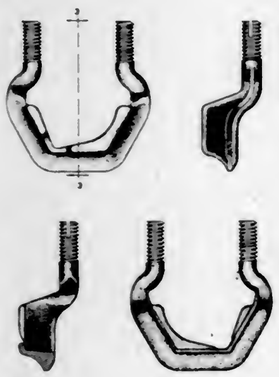
The ornamental design for a reading glass, as shown.

135,422
DESIGN FOR AN ILLUMINABLE MAGNIFYING GLASS
Charles D. Austin, Cincinnati, Ohio, assignor to Advertising Displays, Inc., Covington, Ky., a corporation of Kentucky
Application February 18, 1943, Serial No. 109,568
Term of patent 14 years



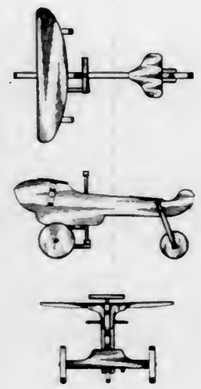
The ornamental design for an illuminable magnifying glass, as shown.

135,423
DESIGN FOR A TRANSITIONAL ANGLE COCK HOLDER
Sterling H. Campbell and Frank H. Pietzsch, St. Louis, Mo., assignors to Railway Devices Company, St. Louis, Mo., a corporation of Missouri
Application February 19, 1943, Serial No. 109,586
Term of patent 14 years



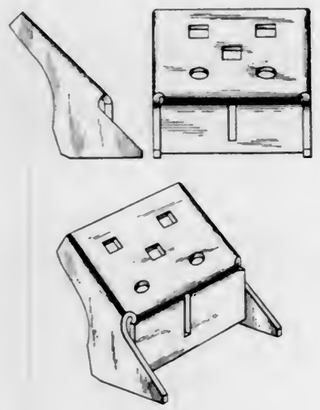
The ornamental design for a transitional angle cock holder, as shown.

135,424
DESIGN FOR A TOY VEHICLE
Clifford W. Judd, Rochester, N. Y.
Application February 1, 1943, Serial No. 109,402
Term of patent 7 years



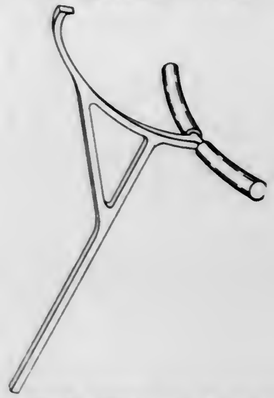
The ornamental design for a toy vehicle, as shown.

135,425
DESIGN FOR AN ALIGNING AND HOLDING BRACKET FOR PLATE WELDING OPERATIONS
Roy W. McLaren, Oaklyn, N. J.
Application February 9, 1943, Serial No. 109,508
Term of patent 14 years



The ornamental design for an alining and holding bracket for plate welding operations, as shown.

135,426
DESIGN FOR A HUBCAP TOOL
William H. Otto, San Francisco, Calif.
Application January 12, 1943, Serial No. 109,243
Term of patent 14 years



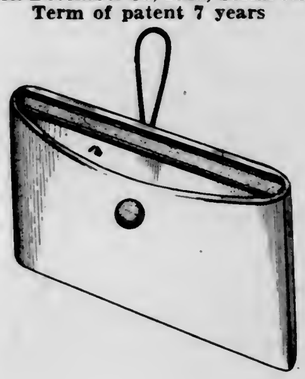
The ornamental design for a hubcap tool, as shown and described.

135,427
DESIGN FOR A PIN OR SIMILAR ARTICLE
Volney L. Reid, Rutherfordton, N. C.
Application July 18, 1942, Serial No. 107,603
Term of patent 3½ years

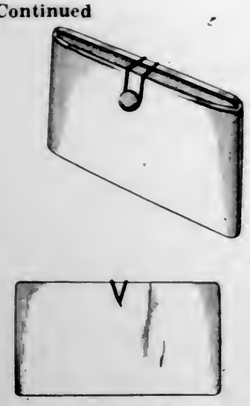


The ornamental design for a pin or similar article, as shown.

135,428
DESIGN FOR A HANDBAG
Harry Schoenfeld, New York, N. Y.
Application December 31, 1942, Serial No. 109,170
Term of patent 7 years



135,428—Continued



The ornamental design for a handbag, substantially as shown.

135,429
DESIGN FOR A FRUIT JUICE EXTRACTOR
Wallace D. Seigh, Johnstown, Pa.
Application June 24, 1941, Serial No. 101,651
Term of patent 3½ years





The ornamental design for a fruit juice extractor, as shown.

135,430
DESIGN FOR A MEDAL OR THE LIKE
William E. Stamets, Galesburg, Ill.
Application February 28, 1942, Serial No. 106,035
Term of patent 7 years



The ornamental design for a medal or the like, as shown.

135,431
DESIGN FOR A SLIP
Murray Zinaman, New York, N. Y.
Application February 4, 1943, Serial No. 109,450
Term of patent 7 years



The ornamental design for a slip, substantially as shown.

135,432
DESIGN FOR A COMBINED SLIPPER AND SOCK
William Sherman, New York, N. Y.
Application February 10, 1943, Serial No. 109,520
Term of patent 7 years

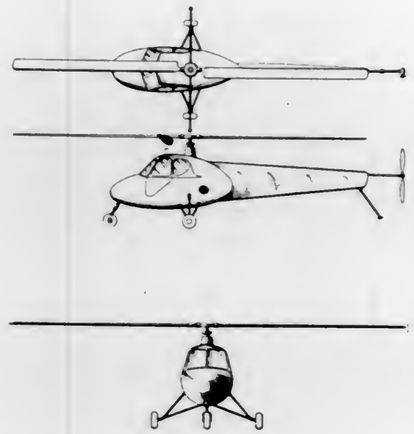
The ornamental design for a combined slipper and sock, substantially as shown and described.

135,433
DESIGN FOR AN EMBROIDERED LACE
Jack Wiener, New York, N. Y.
Application February 10, 1943, Serial No. 109,522
Term of patent 3½ years



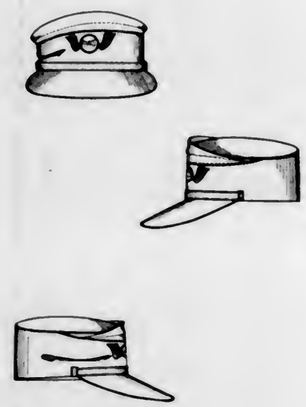
The ornamental design for an embroidered lace, substantially as shown and described.

135,434
DESIGN FOR A HELICOPTER
Robert J. Woods, Grand Island, N. Y., assignor to Bell Aircraft Corporation, Buffalo, N. Y.
Application June 9, 1942, Serial No. 107,166
Term of patent 14 years



The ornamental design for a helicopter, as shown.

135,435
DESIGN FOR A CAP
Isidore Borten, New Haven, Conn.
Application February 26, 1943, Serial No. 109,633
Term of patent 3½ years



The ornamental design for a cap, substantially as shown.

135,436
DESIGN FOR A JEWELRY FINDING OR SIMILAR ARTICLE
Rayford Kellett and Frank C. Robinson, Leavenworth, Kans.
Application November 9, 1942, Serial No. 108,718
Term of patent 3½ years



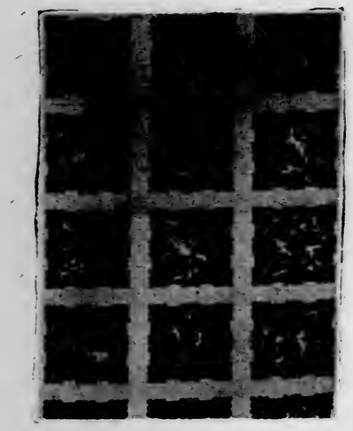
The ornamental design for a jewelry finding or similar article, as shown.

135,437
DESIGN FOR A CAP
Paul M. Maxwell, Manhasset, N. Y., and Wilhelmina J. Russy, Jersey City, N. J., assignors to Hat Corporation of America, Norwalk, Conn., a corporation of Delaware
Application July 3, 1942, Serial No. 107,400
Term of patent 7 years



The ornamental design for a cap, as shown and described.

135,438
DESIGN FOR A TABLE SCARF OR SIMILAR ARTICLE
Ruth C. Oppenheim, New York, N. Y.
Application January 20, 1943, Serial No. 109,294
Term of patent 3½ years

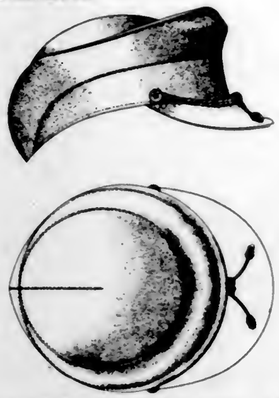


The ornamental design for a table scarf or similar article, as shown and described.

135,439
DESIGN FOR A CAP
Paul M. Maxwell, Manhasset, N. Y., and Wilhelmina J. Russy, Jersey City, N. J., assignors to Hat Corporation of America, Norwalk, Conn., a corporation of Delaware
Application February 20, 1943, Serial No. 109,594
Term of patent 7 years



135,439—Continued



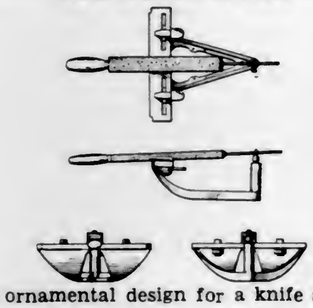
The ornamental design for a cap, as shown.

135,440
DESIGN FOR A PANTY-GIRDLE
Edwin Palmer Scriggins, East Orange, N. J., assignor to Jantzen Knitting Mills, Portland, Oreg., a corporation of Oregon
Application February 2, 1943, Serial No. 109,412
Term of patent 7 years



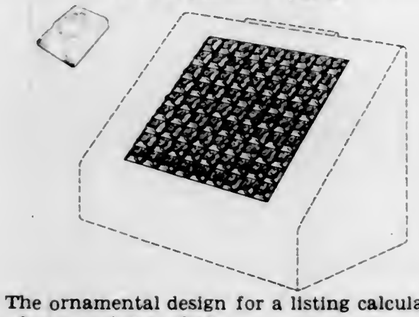
The ornamental design for a panty-girdle, as shown.

135,441
DESIGN FOR A KNIFE SHARPENER
Harry M. Staley, Toledo, Ohio
Application November 15, 1941, Serial No. 104,170
Term of patent 14 years



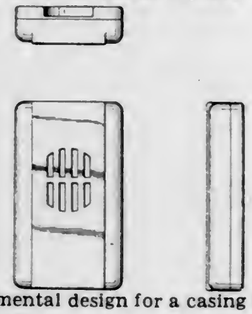
The ornamental design for a knife sharpener, as shown.

135,442
DESIGN FOR A LISTING CALCULATOR
Loring P. Crosman, South Orange, N. J., assignor to Monroe Calculating Machine Company, Orange, N. J., a corporation of Delaware
Application December 22, 1941, Serial No. 104,789
Term of patent 14 years



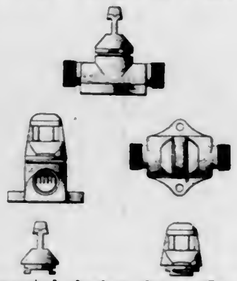
The ornamental design for a listing calculator, as shown and described.

135,443
DESIGN FOR A CASING FOR HEARING AIDS
Sol Decker, Chicago, Ill.
Application February 4, 1943, Serial No. 109,446
Term of patent 7 years



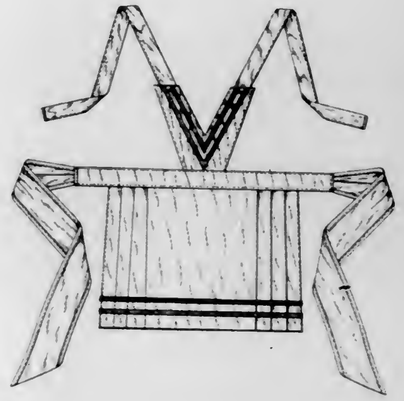
The ornamental design for a casing for hearing aids, as shown.

135,444
DESIGN FOR A FLAME OPERATED SWITCH OR SIMILAR ARTICLE
Harry C. Grant, Jr., New York, N. Y., and Edmund Du Pont, Bloomfield, N. J., assignors to Specialties Development Corporation, Bloomfield, N. J., a corporation of New Jersey
Application August 5, 1942, Serial No. 107,818
Term of patent 14 years



The ornamental design for a flame operated switch or similar article, substantially as shown.

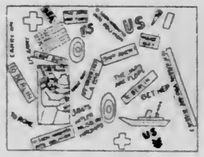
135,445
DESIGN FOR AN APRON
Olive L. Heimerman, Fond du Lac, Wis.
Application February 2, 1943, Serial No. 109,409
Term of patent 7 years



The ornamental design for an apron, as shown.

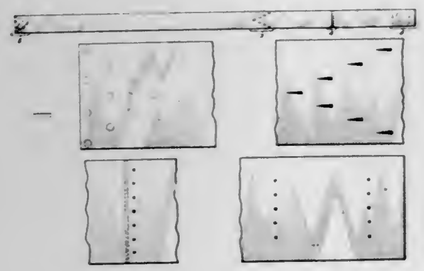
135,446
DESIGN FOR A BAG OR SIMILAR ARTICLE
Mary S. Karoff, New York, N. Y.
Application February 13, 1942, Serial No. 105,782
Term of patent 3½ years





The ornamental design for a bag or similar article, as shown.

135,447
DESIGN FOR A COMBINED BOWLING ALLEY BED AND APPROACH OR SIMILAR ARTICLE
Robert E. Kennedy, Chicago, Ill., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill., a corporation of Delaware
Application January 25, 1943, Serial No. 109,343
Term of patent 14 years



The ornamental design for a combined bowling alley bed and approach or similar article, as shown and described.

135,448
DESIGN FOR A FOUNTAIN PEN SECTION OR SIMILAR ARTICLE
Solomon M. Sager, Chicago, Ill.
Application January 20, 1943, Serial No. 109,306
Term of patent 14 years



The ornamental design for a fountain pen section or similar article, as shown.

135,449
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application March 15, 1943, Serial No. 109,759
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

135,450
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application March 15, 1943, Serial No. 109,760
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

135,451
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application March 15, 1943, Serial No. 109,761
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

135,452
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application March 15, 1943, Serial No. 109,762
Term of patent 3½ years



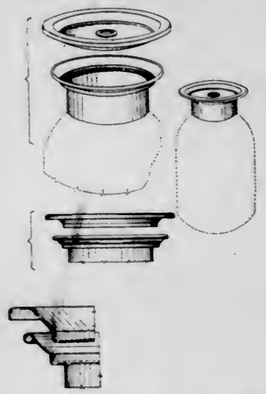
The ornamental design for a dress, substantially as shown.

135,453
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application March 15, 1943, Serial No. 109,763
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

135,454
DESIGN FOR A MILK CAN
Lannie F. Norris, Minneapolis, Minn.
Application June 15, 1942, Serial No. 107,200
Term of patent 14 years



The ornamental design for a milk can, substantially as shown and described.

Patents Nos. 2,316,146 to 2,316,749

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CONTENTS

	Page
Issue of April 13, 1943	197
Notice of Cancellation	197
Adjudicated Patents	197
Applications Under Examination	198
Decisions of the U. S. Courts—	
Renstrom v. Solomon	199
In re Swenson et al	200
Patent Suits	201
Interference Notice	202
Disclaimers	202
Changes in Classification	202
Trade-Marks Published (103 Applications)	205
Trade-Mark Registrations Granted	217
Trade-Mark Registrations Renewed	221
Reissues	225
Plant Patents	225
Patents Granted	226
Designs	367

April 13, 1943

Trade-Marks	86—No.	400,927 to No.	401,012, inclusive.
T. M. Renewals	76		
Reissues	3—No.	22,299 to No.	22,301, inclusive.
Plant Patents	1—No.	575	
Patents	604—No.	2,316,146 to No.	2,316,749, inclusive.
Designs	51—No.	135,455 to No.	135,505, inclusive.
Total	821		

Notice of Cancellation

U. S. Patent Office, *Richmond, Va., Mar. 11, 1943.*

K-Nine Diner Corporation, its assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Lawrence A. Lockwood, 232 E. Erie St., Chicago, Ill., to effect the cancellation of trade-mark registration of K-Nine Diner Corporation, 725 National City Bank Bldg., Euclid Ave. and E. 6th St., Cleveland, Ohio, No. 354,743, dated February 22, 1938, and the notice of such proceeding sent by registered mail to the said K-Nine Diner Corporation at the said address having been returned by the post office undeliverable, and said notice reforwarded by registered mail to said K-Nine Diner Corporation at 234 Erie St., Toledo, Ohio, having been returned by the post office undeliverable, notice is hereby given that unless said K-Nine Diner Corporation, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the Official Gazette for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

U. S. Patent Office, *Richmond, Va., March 30, 1943.*

Chas. H. Jandt Packing Co., its assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by R. C. Williams & Company, Inc., 265 Tenth Ave., New York, N. Y., to effect the cancellation of trade-mark registration of Chas. H. Jandt Packing Co., 251 Wholesale Terminal Bldg., Los Angeles, Calif., No. 229,434, dated June 28, 1927, and the notice of such proceeding sent by registered mail to the said Chas. H. Jandt Packing Co. at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Chas. H. Jandt Packing Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the Official Gazette for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Adjudicated Patents

(D. C. Miss.) Palmer patent, No. 1,794,537, for process of treating decolorizing agents, claims 1, 2, and 5 *Held* valid but not infringed. *Newport Industries* v. *Crosby Naval Stores*, 48 F. Supp. 422.

(D. C. Miss.) Palmer patent, No. 1,794,539 for process of revivifying adsorbent material, claims 1 to 10, inclusive, *Held* valid but not infringed. *Id.*

(D. C. Miss.) Palmer, Burda and Oliver patent, No. 1,807,599, for process of purifying rosin, claims 1 to 7, inclusive, and claim 10 *Held* valid but not infringed. *Id.*

(D. C. Miss.) Palmer patent, No. 1,810,222, for process of purifying and decolorizing rosin, claims 5 and 6 *Held* valid but not infringed. *Id.*

(Ct. Cl.) Mechlin patent, No. 1,874,567, for protection of river banks, claims 1 and 2 *Held* invalid. *Asphalt Revetment Co.* v. *U. S.* 48 F. Supp. 520.

(C. C. A. Va.) De Cressey patent, No. 1,890,215, for sausage casing, *Held* invalid. *Sylvania Industrial Corporation* v. *Visking Corporation*, 132 F.(2d) 947.

(C. C. A. Va.) Freund patent, No. 1,959,978, for sausage, artificial casing therefor, and the production thereof, *Held* invalid. *Id.*

(C. C. A. Va.) Hewitt patent, No. 1,967,773, for apparatus for and a method of drying cellulose tubing, *Held* valid and infringed. *Id.*

(D. C. N. Y.) Field patent, No. 1,995,801, for corset, claims 1 to 7, inclusive, 9 and 10 *Held* invalid and infringed. *Warner Bros. Co.* v. *American Lady Corset Co.*, 48 F. Supp. 417.

(D. C. Wis.) Lane and Hammer patent, No. 2,132,077, for method of making blue-veined cheese, claim 2 *Held* valid and infringed, claim 3 *Held* invalid, and even if valid, *Held* not infringed. *Iowa State College Research Foundation* v. *Tolibia Cheese Corp.*, 48 F. Supp. 413.

(D. C. Mo.) Rubinstein patent, No. 2,152,093, for collar, *Held* not infringed. *Goodall Co.* v. *Greensfelder*, 48 F. Supp. 390.

(D. C. Mo.) Rubinstein patent, No. 2,204,152, for collar, cuff and the like, *Held* not infringed. *Id.*

(C. C. A. Ill.) Nemeroff patent, No. 2,264,141, for lighting fixture, *Held* invalid, claims 1 and 2 *Held* not infringed. *Electro Mfg. Co.* v. *Yellin*, 132 F.(2d) 979.

Condition of Applications Under Examination at Close of Business March 27, 1943

(Total number of applications awaiting action, excluding Trade-Mark Division, 40,144; Trade-Mark Division, 805. Oldest new case, May 9, 1942; oldest amended, May 8, 1942.)
The dates given are 1942 except where † indicates 1943)

Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action		No. of applications awaiting action
	New	Amended	
1. TUCKER, M. W., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Domestic Cooking Vessels; Sewerage.	Nov. 2	Nov. 19	343
2. HERRMANN, D., Fishing and Trapping; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering.	Dec. 23	Nov. 23	236
3. WOLFFE, S., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	June 1	June 15	969
4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting.	Oct. 24	Oct. 5	402
5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps.	July 23	July 31	551
6. GENIESSE, E. W., Carbon Chemistry (part)	June 26	July 1	1030
7. JARBOE, C. G., Optics, Photography	Aug. 10	July 22	968
8. ADAMS, F. L., Furniture; Kitchen and Table Articles; Racks and Cabinets	Sept. 9	Sept. 9	621
9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	Aug. 26	Sept. 7	748
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Oct. 16	Oct. 17	372
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Stop Mechanisms	Oct. 12	Nov. 3	316
13. DONNELLY, A. E., Metal Working (part): Gear Cutting, Milling and Planing; Needle and Pin Making	Sept. 7	Sept. 4	643
14. HANLIN, GEORGE, Metal Working (part); Farriery; Wire Fabrics	Dec. 11	Nov. 21	434
15. HENKIN, BENJ., Glass, Plastic Block and Earthenware Apparatus; Plastics	Aug. 26	Aug. 26	672
16. SPENCER, C. J., Telegraphy; Telephony	Aug. 4	Aug. 5	668
17. HABECKER, LEON B., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	June 19	June 12	698
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	Aug. 13	Aug. 11	535
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	July 1	July 2	677
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part).	Oct. 3	Sept. 3	436
21. THOMPSON, T. J., Textiles	Oct. 28	Oct. 14	300
22. RINGLE, D., Aeronautics; Firearms; Ordnance and Explosive Devices	June 19	June 20	1635
23. BARROWS, B., Cash Registers; Calculators (part)	Oct. 15	Nov. 5	129
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	Oct. 22	Oct. 24	599
25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Aug. 5	Sept. 9	608
26. YOUNG, R. R., Electricity—Generation and Motive Power	Sept. 3	Sept. 16	531
27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus.	Sept. 4	June 26	642
28. SOLYOM, H. L., Internal-Combustion Engines (part); Cylinders and Pistons	Aug. 3	June 1	561
29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Package and Article Carriers; Woodworking; Tools; Metal Working, Assembling.	Dec. 3	Dec. 3	339
30. McCANN, LEO P., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Nov. 23	Nov. 26	329
31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils	Oct. 5	Oct. 5	1316
32. LESH, K., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	Sept. 21	Sept. 12	667
33. HULL, J. S., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements	Nov. 18	Nov. 18	563
34. SAPERSTEIN, S., Electricity—Meters and Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators.	Sept. 23	Oct. 3	402
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles	Oct. 8	Oct. 3	635
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	Nov. 5	Sept. 30	397
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Nov. 19	Nov. 3	477
38. KRAFFT, C. F., Coating Processes: Coating or Plastic Compositions (part)	Sept. 8	Sept. 17	648
39. WHITNEY, F. L., Fluid-Pressure Regulators; Valves; Water Distribution	Dec. 18	Dec. 18	353
40. DRUMMOND, E. J., Receptacles	Nov. 23	Nov. 28	387
41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles; Counters and Calculators (part); Typewriting Machines; Check-Controlled Apparatus.	Sept. 16	Sept. 24	422
42. MARANS, H., Electric Signaling	Nov. 4	Nov. 5	337
43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Azo Compounds.	May 25	June 1	930
44. HARVEY, L. P., Refrigeration	June 3	July 29	352
45. HILL, H. D., Shafting and Flexible Shaft Couplings; Wheels and Axles; Resilient Tires and Wheels; Lubrication; Bearings and Guides; Motors; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part).	Sept. 18	Sept. 25	744
46. BLEECKER, V. E., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Heating Systems; Coating Apparatus.	Aug. 11	Aug. 11	480
47. KANOF, WM. J., Clutches and Power Stops; Brakes; Boring and Drilling; Land Vehicles (part)	Sept. 8	Sept. 9	988
48. ROEPKE, O. B., Electricity, General Applications; Igniters	May 9	May 8	729
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	Sept. 12	Sept. 22	617
50. LEVIN, SAMUEL, Resins; Rubber; Carbohydrates and Derivatives	Aug. 29	Sept. 3	1202
51. BACKUS, C. D., Radiant Energy	Sept. 16	Sept. 18	945
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits.	Sept. 10	Sept. 19	631
53. PECK, M. K., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Curtains, Shades and Screens; Cutlery	†Jan. 18	Oct. 28	205
54. STRACHAN, O. W., Electric Lamp and Discharge Devices (part)	Sept. 2	Sept. 2	435
55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery	July 3	July 15	760
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Laminated Fabrics (part); Paper Making	Sept. 3	Sept. 11	848
57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Sept. 3	Sept. 18	399
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working	Sept. 5	Oct. 21	543
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds; Compositions (part).	May 20	May 14	1264
60. GLASS, R. L., Electricity, Heating and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Marine Propulsion; Consumable Electrode Lamp and Discharge Devices.	July 31	July 31	404
61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Laminated Electrical Insulation, Belt, Hose, Tire and Ball Making; Boats and Buoys.	Aug. 15	Aug. 25	563
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	Nov. 21	Nov. 12	466
63. WINKELSTEIN, A. H., Preserving; Poisons; Fermentation; Foods and Beverages; Proteins; Oils and Fats.	July 15	July 12	980
64. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Distillation; Fuel	Oct. 12	Oct. 14	1124
65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays.	Sept. 4	Sept. 4	643
Trade Marks: RICHMOND, F. A	†Feb. 26	†Mar. 3	805
Designs: KALUPY, H. H	†Mar. 1	†Mar. 9	296

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Adler, Jeanne, doing business as Cofytex Sales Co., New York, N. Y. Imitation coffee. Serial No. 458,027; Apr. 13. Class 46.

Aget Manufacturing Co., Adrian, Mich. Electrically driven suction fan with housing and ducts therefor. Serial No. 456,634; Apr. 13. Class 21.

American Art Alloys, Inc., Kokomo, Ind. Table hollow ware. Serial Nos. 458,137–8; Apr. 13. Class 13.

Arkansas Company, Inc., Newark, N. J. Tanning agents. Serial No. 458,672; Apr. 13. Class 6.

Arkansas Company, Inc., Newark, N. J. Detergents used in processing of textiles. Serial No. 458,674; Apr. 13. Class 4.

Atlantic Chemicals & Metals Co., Chicago, Ill. Chemical flux for degasifying and purifying aluminum and its alloys, etc. Serial No. 458,423; Apr. 13. Class 6.

Atlas Laboratories. (See Hayes, Oscar.)

Badger Worsted Mills, Grafton, Wis. Yarns. Serial No. 458,717; Apr. 13. Class 43.

Bell Smoked Fish Co., The, San Francisco, Calif. Canned fish. Serial No. 458,622; Apr. 13. Class 46.

Beverages of America Bottling Company. (See Webb, Samuel E.)

Birtwistle, J. H., & Company Limited, Lancashire, England. Piece goods, sheets, pillow cases, etc. Serial No. 451,195; Apr. 13. Class 42.

Borden Company, The, New York, N. Y. Liquid phenol-formaldehyde resin solution. Serial No. 456,621; Apr. 13. Class 6.

Bovinine Company, The, Jersey City, N. J. Medicinal mineral preparations. Serial No. 458,566; Apr. 13. Class 6.

Bradford-Norton, Birmingham, Ala. Ladies' and misses' hats. Serial Nos. 458,503–4; Apr. 13. Class 39.

Campbell, Rosalie M., Dolls, dog and cat toys, and games, etc. Serial No. 457,585; Apr. 13. Class 22.

Celcure Wood Preserving Corporation, Jacksonville, Fla. Wood products treated with wood preservatives. Serial No. 443,221; Apr. 13. Class 12.

Certain-teed Products Corporation, New York, N. Y. Sheet roofing material. Serial No. 451,030; Apr. 13. Class 12.

Chesterton, A. W., Company, Boston, Mass. Mechanical packing. Serial No. 456,884; Apr. 13. Class 35.

City Auto Stamping Company, The, Toledo, Ohio. Ammunition chests. Serial No. 457,624; Apr. 13. Class 2.

Cofytex Sales Co. (See Adler, Jeanne.)

Cohen, N. B., Company, Scranton, Pa. Hair nets. Serial No. 439,170; Apr. 13. Class 39.

County Fair Packing Corp., Jamaica, Long Island, N. Y. Beef cuts. Serial No. 451,741; Apr. 13. Class 46.

Cuprinol, Inc., doing business as Kopertox Laboratories, Boston, Mass. Medical preparation adapted for direct application to the human skin. Serial No. 457,637; Apr. 13. Class 6.

Detrick, M. H., Company, Chicago, Ill. Refractory blocks and tile, metal holding and supporting castings, and heat insulation. Serial Nos. 457,088–9; Apr. 13. Class 12.

Distillers Warehouse, Inc., St. Louis, Mo. Whiskey. Serial No. 450,092; Apr. 13. Class 49.

Diamond Alkali Company, Pittsburgh, Pa. Cleaning and washing compounds, silicated alkalis, dry cleaners, etc., all of which are for general laundry use. Serial No. 455,562; Apr. 13. Class 4.

Double-Mix, Inc., Kansas City, Mo. Composition of matter in tablet or powdered form. Serial No. 456,919; Apr. 13. Class 6.

Estate Stove Company, The, Hamilton, Ohio. Stove ovens, Gas cooking and parts thereof. Serial No. 427,197; Apr. 13. Class 34.

Fashion Towne, Inc., New York, N. Y. Misses' and junior misses' coats, suits, and coat and suit ensembles. Serial No. 458,237; Apr. 13. Class 39.

Fingles Company, The, Baltimore, Md. Portable oil-burning heaters for domestic and industrial cooking purposes. Serial No. 438,474; Apr. 13. Class 34.

Foster Machine Company, Westfield, Mass. Doublers, cheese winders, magazine creels, etc. Serial No. 458,426; Apr. 13. Class 23.

Franklin, Clarence C., Chicago, Ill. Cigars and cigarettes. Serial No. 453,194; Apr. 13. Class 17.

Friedman Bros. & Sons Neckwear Co., Inc., New York, N. Y. Ornamental shoe and dress bows; ribbons sold in short cut lengths such as wrist watch ribbons; shoe and dress buckles and ornaments, etc. Serial No. 450,332; Apr. 13. Class 40.

Fuller, W. P., & Co., San Francisco, Calif. Metal paints. Serial No. 458,704; Apr. 13. Class 16.

Glensder Textile Co., New York, N. Y. Women's scarfs. Serial No. 458,238; Apr. 13. Class 39.

Gianandrea, N., doing business as Valley Growers Exchange, San Jose, Calif. Fresh vegetables. Serial No. 458,729; Apr. 13. Class 46.

Givaudan-Delawanna, Inc., Delawanna, N. J., and New York, N. Y. Solvents, particularly for use in the preparation of cosmetic and like compositions. Serial No. 458,730; Apr. 13. Class 6.

Hartmann Trunk Company, Racine, Wis. Suitcases, luggage-carrying cases, and wardrobe suitcases. Serial No. 458,115; Apr. 13. Class 3.

Hathaway, Claude M., doing business as Hathaway Instrument Company, Denver, Colo. Oscillograph, galvanometers, electric strain gages, etc. Serial No. 452,426; Apr. 13. Class 26.

Hayes, Oscar, doing business as Atlas Laboratories, Akron, Ohio. Antiseptic and germicide for external application. Serial No. 454,371; Apr. 13. Class 6.

Hayes, Oscar, doing business as Atlas Laboratories, Akron, Ohio. Antiseptic jellies. Serial No. 458,653; Apr. 13. Class 6.

Heirloom Needlework Guild, Inc., New York, N. Y. Military toilet kit cases, duffle bags, furlough bags, etc. Serial No. 458,239; Apr. 13. Class 3.

Hill's Laboratories. (See Mills, Lyle W.)

Horvath, John, Passaic, N. J. Medicine for the treatment of hemorrhage, stomach cramps and ulcers, a bowel and urine cleanser. Serial No. 458,037; Apr. 13. Class 6.

Hosecraft Hosiery Mills. (See Livingston, William.)

Hunt Brothers Packing Company, San Francisco, Calif. Canned fruits, canned vegetables. Serial No. 449,992; Apr. 13. Class 46.

Hydraulic-Press Brick Company, Indianapolis, Ind. Ceramic glazed brick and tile structural building units. Serial No. 451,412; Apr. 13. Class 12.

Iliff, William H., Los Angeles, Calif. Peanuts and nut meats. Serial No. 457,364; Apr. 13. Class 46.

Industrial Tape Corporation, New Brunswick, N. J. Pressure-sensitive adhesive tapes. Serial No. 458,040; Apr. 13. Class 5.

International Milling Company, Minneapolis, Minn. Wheat flour. Serial No. 458,733; Apr. 13. Class 46.

Jensen, Cecil L., Glen Ellyn, Ill. Games played with cards and equipment. Serial No. 458,475; Apr. 13. Class 22.

Johnson, S. C., & Son, Inc., Racine, Wis. Aqueous and non-aqueous wax emulsions which make absorbative fibrous and non-fibrous materials water proof and water repellent. Serial No. 456,559; Apr. 13. Class 6.

Kendall Company, The, Walpole, Mass. Interlinings and stiffener fabrics. Serial No. 456,077; Apr. 13. Class 42.

Kopertox Laboratories. (See Cuprinol, Inc.)

Lasher, Philip H., doing business as Western Movie Supply Co., San Francisco, Calif. Post cards containing pictures. Serial No. 456,289; Apr. 13. Class 38.

Livingston, William, doing business as Hosecraft Hosiery Mills, New York, N. Y. Foot socks. Serial No. 456,827; Apr. 13. Class 39.

Ludlow Manufacturing & Sales Co., Boston, Mass. Twine. Serial No. 457,917; Apr. 13. Class 12.

Marcus Bedspread & Drapery Corp., New York, N. Y. Bedspreads, dresser scarfs, piece goods, etc. Serial No. 457,982; Apr. 13. Class 42.

Mason, Au & Magenheimer Conf. Mfg. Co., Brooklyn, N. Y. Candies and chocolates. Serial No. 458,659; Apr. 13. Class 46.

McKay, Arthur W., Sacramento, Calif. Shoes. Serial No. 453,676; Apr. 13. Class 39.

McKesson & Robbins, Incorporated, New York, N. Y. Analgesic tablets. Serial Nos. 458,538–40; Apr. 13. Class 6.

Meinecke & Co, Inc., New York, N. Y. Liquid cleansing composition for surgical instruments. Serial No. 458,078; Apr. 13. Class 4.

Mills, Lyle W., doing business as Hill's Laboratories, Silver Spring, Md. Medicinal preparation for relief of muscular aches, headaches, post natal pains, etc. Serial No. 458,543; Apr. 13. Class 6.

Minor, Harriet A., New Orleans, La. Household cleaning and polishing paste. Serial No. 458,157; published Apr. 13. Class 4.

Mullins Manufacturing Corporation, Salem, Ohio. Wringer rolls. Serial Nos. 440,207–8; Apr. 13. Class 24.

Mutascio, Joseph, doing business as Prosperity California Wines, New York, N. Y. Wines. Serial No. 458,118; Apr. 13. Class 47.

Mutual Citrus Products Co., Inc., Anaheim, Calif. Powdered beverage base. Serial No. 458,401; Apr. 13. Class 45.

National Canners Association, Wilmington, Del., and Washington, D. C. Canned vegetables. Serial No. 456,427; Apr. 13. Class 46.

National Unit Distributors, Inc., Boston, Mass. Tableware, semi-vitreous china. Serial No. 457,634; Apr. 13. Class 30.

Neishtat, Maurice, New York, N. Y. Leather wrist watch straps. Serial No. 455,986; Apr. 13. Class 40.
New Method Equipment Company, Indianola, Iowa. Earth moving machine. Serial No. 457,042; Apr. 13. Class 23.
New Wrinkle, Inc., Dayton, Ohio. Paints, enamels, varnishes. Serial No. 457,591; Apr. 13. Class 16.
Norda Essential Oil and Chemical Company, New York, N. Y. Food flavoring extracts and food extracting syrups and spices. Serial No. 457,767; Apr. 13. Class 46.
Prosperity California Wines. (See Mutascio, Joseph.)
Rohm & Haas Company, Philadelphia, Pa. Enzyme preparation. Serial No. 458,431; Apr. 13. Class 6.
Sea Board Supply Co., Inc., Philadelphia, Pa. Feed concentrate for ducks. Serial No. 454,205; Apr. 13. Class 46.
Sea Board Supply Co., Inc., Philadelphia, Pa. Feed concentrates for animals, particularly hogs. Serial No. 454,206; Apr. 13. Class 46.
Sears, Roebuck and Co., Chicago, Ill. Men's and boys' slack suits. Serial No. 458,411; Apr. 13. Class 39.
Sea Wave Wedding & Engagement Ring, Inc., New York, N. Y. Wedding and engagement rings, clips, bracelets, etc. Serial No. 457,643; Apr. 13. Class 28.
Spark-O-Life Company, Kansas City, Kans. Fresh natural granular wheat embryo. Serial No. 458,345; Apr. 13. Class 46.
Specific Pharmaceuticals, Inc., New York, N. Y. Bismuth compounds. Serial No. 458,160; Apr. 13. Class 6.
Specific Pharmaceuticals, Inc., New York, N. Y. Oleander glucoside product. Serial No. 458,161; Apr. 13. Class 6.
Stearns, Frederick & Company, Detroit, Mich. Vitamin preparation. Serial No. 458,694; Apr. 13. Class 6.
Street, R. K., & Co. Inc., Chicago, Ill. Dry cleaning detergent. Serial No. 458,162; Apr. 13. Class 4.
Tenenbaum, Icek M., doing business as Tenens Watch Co., Great Neck, N. Y. Watches. Serial No. 458,051; Apr. 13. Class 27.
Tenens Watch Co. (See Tenenbaum, Icek M.)
Theta Sigma Phi, Chicago, Ill. Magazine. Serial No. 458,560; Apr. 13. Class 38.
Thomas, M & W. Corp., New York, N. Y. Neckties. Serial No. 458,376; Apr. 13. Class 39.
Townley Frocks, Inc., New York, N. Y. Ladies' and misses' dresses, coats, dress and jacket ensembles, etc. Serial No. 458,555–6; Apr. 13. Class 39.
Turco Products, Inc., Los Angeles, Calif. Wax polish. Serial No. 458,002; Apr. 13. Class 16.
United Wall Paper Factories, Inc., Chicago, Ill. Wall paper. Serial No. 457,798; Apr. 13. Class 37.
Vale Chemical Co., Inc., The, Allentown, Pa. Preparation for use in correction of nutritional deficiencies. Serial No. 457,770; Apr. 13. Class 6.
Valentine Laboratories, Inc., Chicago, Ill. Vitamin preparations for internal use. Serial No. 458,640; Apr. 13. Class 6.
Valley Growers Exchange. (See Glanandrea, N.)
Viking Chemical Corporation, New York, N. Y. Synthetic rubber compound. Serial No. 457,194; Apr. 13. Class 1.
Volpit Chewing Candy Co., Inc., Long Island City, N. Y. Candy. Serial No. 458,378; Apr. 13. Class 46.
Weatherhead Company, The, Cleveland, Ohio. Aircraft parts and accessories. Serial No. 447,353; Apr. 13. Class 13.
Webb, Samuel E., doing business as Beverages of America Bottling Company, Philadelphia, Pa. Nonalcoholic and maltless beverages and products. Serial No. 458,518; Apr. 13. Class 45.
Welmaid Products, Chicago, Ill. Combination folding fabric clothes baskets and clothes-pin holders. Serial No. 456,643; Apr. 13. Class 2.
Westbook and McLaren, Dierks, Ark. Salve. Serial No. 428,008; Apr. 13. Class 6.
Western Movie Supply Co. (See Lasher, Philip H.)
Whitin, Paul, Manufacturing Company, The, Northbridge, Mass. Fabrics in the piece. Serial Nos. 457,259–61; Apr. 13. Class 42.
Wyeth, John, & Brother, Incorporated, Philadelphia, Pa. Medicinal vitamin preparations. Serial No. 458,669; Apr. 13. Class 6.

LIST OF REGISTRANTS OF TRADE-MARKS

Abelson, L., & Son, New York, N. Y. Juvenile coats. 401,011; Apr. 13. Class 39.
Affiliated Products, Inc. (See Philippe, Louis, Inc., assignor.)
Altman, B., & Co., New York, N. Y. Hair nets. 171,792; renewed Aug. 14, 1943.
Altoona Mattress Mfg. Company, Inc., Altoona, Pa. Mattresses and box springs. 400,987; Apr. 13; Serial No. 457,305; published Feb. 2, 1943. Class 32.
American Crayon Company, The, Sandusky, Ohio. Paint pigment. 165,850; renewed Mar. 20, 1943.
American Pickle & Canning Co., Hattiesburg, Miss., assignor, by mesne assignments, to Standard Brands Incorporated, New York, N. Y. Pickles and canned vegetables. 171,311; renewed Aug. 7, 1943.
American Pickle & Canning Company, Hattiesburg, Miss., assignor, by mesne assignments, to Standard Brands Incorporated, New York, N. Y. Pickles. 171,413; renewed Aug. 7, 1943.
American Steel Foundries, Chicago, Ill. Draft arms. 167,430; renewed May 1, 1943.
American Tobacco Company, The. (See Tobacco Products Corporation, assignor.)
B. V. D. Corporation. (See Regetta Manufacturing Co. Inc.)
Baltimore Copper Paint Company. (See Reeder, Oliver & Son, Incorporated.)
Barclay Manufacturing Company, Inc., New York, N. Y. Pressed wood fiber wall board. 400,979; Apr. 13; Serial No. 457,027; published Feb. 2, 1943. Class 12.
Bassick Company, The, Bridgeport, Conn. Pintles for casters. 169,359; renewed June 12, 1943.
Bates Valve Bag Company, Chicago, Ill., assignor, by mesne assignments, to St. Regis Paper Company, New York, N. Y. Bag filling and packaging machinery. 171,809; renewed Aug. 14, 1943.
Beisner, Henry H., doing business as H. H. Beisner (Chemicals), New York, N. Y. Pharmaceutical preparation. 400,986; Apr. 13; Serial No. 457,268; published Feb. 2, 1943. Class 6.
Bethlehem Steel Company, Bethlehem, Pa. Structural steel. 171,606; renewed Aug. 7, 1943.
Blue Swan Mills, Inc., New York, N. Y. Ladies' and children's underwear. 400,984; Apr. 13; Serial No. 457,162; published Feb. 2, 1943. Class 39.
Borden Company, The, New York, N. Y. Cheese cocktail spreads. 400,981; Apr. 13; Serial No. 457,060; published Feb. 2, 1943. Class 46.
Breon, George A., & Company, Kansas City, Mo. Ointment for the relief of minor wounds and burns. 400,961; Apr. 13; Serial No. 455,717; published Feb. 2, 1943. Class 6.
Brown, L. V. W., Estate, Highgrove, Calif. Fresh citrus fruits. 400,940; Apr. 13; Serial No. 453,707; published Aug. 18, 1942. Class 46.
Burton-Dixie Corporation. (See Robinson-Roder Co., Inc., The, assignor.)
Celotex Corporation, The. (See Dahlberg & Company, Inc., assignor.)
Chic Hosiery Co., New York, N. Y. Ladies' hosiery. 401,007; Apr. 13. Class 39.
Chippewa Shoe Mfg. Co., Chippewa Falls, Wis. Leather boots and shoes. 172,111; renewed Aug. 21, 1943.
Chrobaltic Tool Company, Chicago, Ill., assignor to Michiana Products Corporation, Michigan City, Ind. Heat-treating containers, kiln furnaces, and oil-cracking still parts. 171,561; renewed Aug. 7, 1943.
Cimino Bros., Inc., New Haven, Conn. Corn oil and peanut oil. 400,998; Apr. 13. Class 46.
Cities Service Oil Company. (See Southern Minnesota Oil Company, assignor.)
Concordade Company, Inc. (See Wirth-Concordade Company, assignor.)
Crosby, William F., doing business as Sterling Products Company, Buffalo, N. Y. Cream furniture polishes. 401,003; Apr. 13.
Crystal, David, Inc., New York, N. Y. Ladies' and misses' dresses, dress ensembles etc. 401,000; Apr. 13. Class 39.
Curtis, J. G., Leather Company, Ludlow, Pa. Leather insoles. 172,099; renewed Aug. 21, 1943.
Dahlberg & Company, Inc., assignor, by mesne assignments, to The Celotex Corporation, Chicago, Ill. Composition of material for wall boards, lining for houses, plaster bases, etc. 167,788; renewed May 8, 1943.
Dahlberg & Company, Inc., assignor, by mesne assignments to The Celotex Corporation, Chicago, Ill. Composition of material for wall boards, lining for houses, plaster bases, etc. 167,870; renewed May 8, 1943.
Dailey, E. J., doing business as E. J. Dailey's Laboratories, San Diego, Calif. Medicine for diabetes. 400,937; Apr. 13; Serial No. 452,766; published June 30, 1942. Class 6.
Deauville Bags, Inc., New York, N. Y. Pocketbooks and handbags. 400,972; Apr. 13; Serial No. 456,587; published Feb. 2, 1943. Class 3.
Detroit Lubricator Company, Detroit, Mich. Temperature actuated electric switches. 400,983; Apr. 13; Serial No. 457,115; published Feb. 2, 1943. Class 26.
Dill Company, The, Norristown, Pa. Cough syrups. 400,933; Apr. 13; Serial No. 451,359; published June 9, 1942. Class 6.
Dreifus, Eckstein & King, Inc., New York, N. Y., by change of name to Le Roi Hosiery Co. Inc. Knit and flat hosiery. 171,782; renewed Aug. 14, 1943.
Driway Raincoats Limited, Leeds, England. Raincoats and waterproof tweed overcoats. 401,002; Apr. 13. Class 39.
Du Pont, E. I. de Nemours and Company. (See Rhodia Chemical Company, assignor.)

Eisele & Company, Nashville, Tenn. Medical and surgical appliances. 169,826; renewed July 3, 1943.
Esklmo Pie Corporation, Bloomfield, N. J. Ice cream. 400,973; Apr. 13; Serial No. 456,685; published Feb. 2, 1943. Class 46.
Federal Mill, Inc. (See Federal Mill & Elevator Co., assignor.)
Federal Mill & Elevator Co., Inc., assignor to Federal Mill, Inc., Lockport, N. Y. Wheat flour. 167,029; renewed Apr. 24, 1943.
Federal Rubber Company, The, assignor to The Fisk Rubber Company, Cudahy, Wis., assignor, by mesne assignments, to United States Rubber Company, New York, N. Y. Tires, hose, tubing, etc. 169,274–6; renewed June 12, 1943.
Federal Telephone & Telegraph Co., Buffalo, N. Y., to Louis Frankel, Chicago, Ill., successor. Telephone and telegraph apparatus and radio apparatus. 166,470; renewed Apr. 3, 1943.
Finkelstein, Morris, New York, N. Y. Slide fasteners. 400,964; Apr. 13; Serial No. 455,969; published Feb. 2, 1943. Class 13.
Firestone Tire & Rubber Company, The, Akron, Ohio. Pneumatic tires and tubes. 400,988; Apr. 13; Serial No. 457,335; published Feb. 2, 1943. Class 35.
Fisk Rubber Company, The. (See Federal Rubber Company, The, assignor.)
Fisk Rubber Company, The, Chicopee Falls, Mass., assignor, by mesne assignments, to United States Rubber Company, New York, N. Y. Rubber tires and tubes. 168,118; renewed May 15, 1943.
Flintkote Company, The, New York, N. Y. Bituminous roofing cement. 400,932; Apr. 13; Serial No. 449,258; published Feb. 2, 1943. Class 12.
Ford Motor Company. (See Lincoln Motor Company.)
Fox River Paper Company, assignor to Fox River Paper Corporation, Appleton, Wis. Writing paper. 168,226; renewed May 15, 1943.
Frankel, Louis. (See Federal Telephone & Telegraph Co.)
Galewski, A., & Sons, Inc., New York, N. Y. Traveling bags, brief cases, and trunks. 165,184; renewed Mar. 6, 1943.
Georgia Kaolin Company, Elizabeth, N. J. Clays used as extenders in protective paint coatings. 400,967; Apr. 13; Serial No. 456,188; published Feb. 2, 1943. Class 16.
Gilbert, A. C., Company, assignor to The A. C. Gilbert Company, New Haven, Conn. Toy construction sets. 169,192; renewed June 12, 1943.
Gillette Safety Razor Company, Boston, Mass. Safety razors. 401,009; Apr. 13. Class 23.
Girly-Form Dresses, Inc., New York, N. Y. House dresses. 401,012; Apr. 13. Class 39.
Gooch Food Products Company, Lincoln, Nebr. Elbow macaroni, spaghetti, shell macaroni, etc. 400,976; Apr. 13; Serial No. 456,873; published Feb. 2, 1943 Class 46.
Gordon, Catherine K., doing business as House of Gordon, Chicago, Ill. Soap. 400,931; Apr. 13; Serial No. 449,133; published Feb. 2, 1943. Class 4.
Green, A. P., Fire Brick Company, Mexico, Mo. Fire brick, fire-brick cement, and fire-clay tile. 171,610–11; renewed Aug. 7, 1943.
Green, A. P., Fire Brick Company, Mexico, Mo. Fire brick, fire-brick cement, and fire-clay tile. 171,612; renewed Aug. 7, 1943.
Griffith-Durney Company of Washington, Seattle, Wash. Canned salmon. 400,930; Apr. 13; Serial No. 448,509; published Mar. 24, 1942. Class 46.
Gulf Brewing Company, Houston, Tex. Lager beer. 401,005; Apr. 13. Class 48.
Hale, Alfred, Rubber Company, Atlantic, assignor to Alfred Hale Rubber Company, North Quincy, Mass. Rubber heels and soles, rubbers, etc. 169,375; renewed June 12, 1943.
Hale, Alfred, Rubber Company, Quincy, assignor to Alfred Hale Rubber Company, North Quincy, Mass. Boots, shoes, and slippers. 170,716; renewed July 24, 1943.
Hall-Neal Furnace Company, Indianapolis, Ind. Furnaces, grate frames, grate bars, etc. 168,465; renewed May 22, 1943.
Hamilton Manufacturing Company, The, assignor to Hamilton Manufacturing Company, Two Rivers, Wis., successor. Printers' and bookbinders' supplies. 168,238; renewed May 15, 1943.
Hayward Hosiery Company, Ipswich, Mass. Hosiery. 172,113; renewed Aug. 21, 1943.
Herb Products Medicine Co. (See Lifsey, Robert J.)
Hirsch-Werner, Inc., New York, N. Y. Wind and water repellent cotton poplin piece goods. 400,970; Apr. 13; Serial No. 456,558; published Jan. 26, 1943. Class 42.
Hoody Peanut Products Company. (See Townsend, Glenn, assignor.)
Hopkinsville Milling Co., Hopkinsville, Ky. Wheat flour. 400,980; Apr. 13; Serial No. 457,037; published Feb. 2, 1943. Class 46.
House of Gordon. (See Gordon, Catherine K.)
Hunt, C. Howard, Pen Company, Camden, N. J. Pens. 171,154; renewed July 31, 1943.
Hush-A-Phone Corporation, New York, N. Y. Telephone muffler. 165,251; renewed Mar. 6, 1943.
Ideal Cocoa & Chocolate Co., Lititz, Pa., and New York, N. Y., assignor to Wilbur-Suchard Chocolate Company, Inc., Lititz, Pa. Chocolate coating. 171,539; renewed Aug. 7, 1943.
Ideal Cocoa & Chocolate Co., Lititz, Pa., and New York, N. Y., assignor to Wilbur-Suchard Chocolate Company, Inc., Lititz, Pa. Chocolate. 171,593; renewed Aug. 7, 1943.
Illinois American Plow Company. (See Moline Plow Company.)
Illinois Razor Strop Company, Chicago, Ill. Razor strops. 400,977; Apr. 13; Serial No. 456,891; published Feb. 2, 1943. Class 4.
Industrial Electronics Corporation, Newark, N. J. Incandescent, fluorescent, short wave, etc., lamps and associated control equipment. 400,946; Apr. 13; Serial No. 454,446; published Feb. 2, 1943. Class 21.
John Wanamaker New York, New York, N. Y. Candles. 165,863; renewed Mar. 20, 1943.
Julian, J. M., Company, doing business as Marney Food Co., Huntington Park, Calif. Canned dog and cat food. 400,929; Apr. 13; Serial No. 446,574; published Nov. 18, 1941. Class 46.
Karnes, E. L., doing business as The Puritol Company, Kansas City, Mo. A meat preservative, flavoring, and coloring compound in liquid form. 167,930; renewed May 8, 1943.
Kentucky Rock Asphalt Co., assignor to Kentucky Rock Asphalt Co., Louisville, Ky. Asphalt. 171,147; renewed Aug. 21, 1943.
Kimberly-Clark Company, assignor to Kimberly-Clark Corporation, Neenah, Wis. Book papers. 170,320–2; renewed July 10, 1943.
Le Roi Hosiery Co. Inc. (See Dreifus, Eckstein & King, Inc.)
Levy, Herman B., doing business as Sally Style Slips, New York, N. Y. Women's slips. 400,941; Apr. 13; Serial No. 453,895; published Dec. 15, 1942. Class 39.
Lifsey, Robert J., doing business as Herb Products Medicine Co., Jackson, Tenn. Antiseptic oil. 400,991; Apr. 13. Class 6.
Linck, Otto E., doing business as Soilicide Laboratories, Montclair, N. J. Chemical preparation. 400,938; Apr. 13; Serial No. 453,247; published Feb. 2, 1943. Class 6.
Lincoln Motor Company, Detroit, assignor to Ford Motor Company, Dearborn, Mich. Vehicle heaters and defrosters. 400,927; Apr. 13; Serial No. 427,586; published Feb. 2, 1943. Class 19.
Liquid Carbonic Company, The, assignor to The Liquid Carbonic Corporation, Chicago, Ill. Compound of vegetable gums and sugars. 171,161; renewed July 31, 1943.
Lovell and Covel Company, Cambridge, Mass. Candy. 400,996; Apr. 13. Class 46.
Lucarelli, Ernest, & Co., Canastota, N. Y. Onions in their natural state. 400,951; Apr. 13; Serial No. 454,928; published Feb. 2, 1943. Class 46.
Macaroni, spaghetti, shell macaroni, etc., Elbow. Gooch Food Products Company. 400,976; Apr. 13; Serial No. 456,873; published Feb. 2, 1943. Class 46.
Mallinson, H. R., & Co. Inc., assignor to Mallinson Fabrics Corporation, New York, N. Y. Silk piece goods. 170,502; renewed July 17, 1943.
Mallinson, H. R., & Co. Inc., assignor to Mallinson Fabrics Corporation, New York, N. Y. Silk piece goods. 170,527; renewed July 17, 1943.
Manufacturers Chemical Corporation, Berkeley Heights, N. J. Cellulose acetate plastic molding materials. 400,960; Apr. 13; Serial No. 455,398; published Feb. 2, 1943. Class 1.
Marney Food Co. (See Julian, J. M., Company.)
Martini Frocks, Inc., New York, N. Y. Women's and young misses' evening gowns, hostess gowns, dresses, etc. 400,999; Apr. 13. Class 39.
Marvellum Company, The, Holyoke, Mass. Cover paper. 171,982; renewed Aug. 21, 1943.
Maus, Geo. H., Inc., Amsterdam, N. Y. Bamboo vaulting poles and bamboo ski poles. 400,950; Apr. 13; Serial No. 454,831; published Feb. 2, 1943. Class 22.
Merriam, G. & C., Company, Springfield, Mass. Books, more particularly dictionaries. 172,131; renewed Aug. 21, 1943.
Merrimac Hat Corporation, New York, N. Y. Felt hat bodies. 401,006; Apr. 13. Class 39.
Metro Chocolate Co. Inc., The, New York, N. Y. Candies. 400,928; Apr. 13; Serial No. 445,998; published Feb. 2, 1943. Class 46.
Meyer's Company, The, Greensboro, N. C. Nainsook, sheets, diaper cloth, etc. 166,916; renewed Apr. 17, 1943.
Michiana Products Corporation. (See Chrobaltic Tool Company, assignor.)
Miley, L. J., Company, Inc., Chicago, Ill. Brake lining sets. 401,004; Apr. 13. Class 35.
Mine Safety Appliances Company, Pittsburgh, Pa. Respirators. 400,993; Apr. 13. Class 44.
Minneapolis-Moline Power Implement Company. (See Moline Plow Company, assignor.)
Minneapolis-Moline Power Implement Company. (See Moline Plow Company, Incorporated, assignor.)
Modern Movable Homes. (See Wetmore, S. Gordon.)
Moline Plow Company, Incorporated, Moline, Ill., assignor, by mesne assignments, to Minneapolis-Moline Power Implement Co., Minneapolis, Minn. Devices for carrying agricultural tools and connecting them to tractors or other sources of draft power. 171,596; renewed Aug. 7, 1943.

Moline Plow Company, now by change of name Illinois American Plow Company, assignor to Moline Plow Company, Incorporated, assignor, by mesne assignments to Minneapolis-Moline Power Implement Company, Minneapolis, Minn. Agricultural machinery and particularly parts thereof. 166,069; renewed Mar. 27, 1943.

Monaghan, Elizabeth, Inc., Detroit, Mich. Bread. 400,939; Apr. 13; Serial No. 453,461; published Feb. 2, 1943. Class 46.

Monroe, Lederer & Taussig, assignor to Monroe, Lederer & Taussig, Inc., Philadelphia, Pa., successor. Paints, paint enamels, stains, and varnishes. 171,604; renewed Aug. 7, 1943.

Morris, Charles E., doing business as C. E. Morris and Company, Dallas, Tex. Cement pipes, cement conduits, cement stacks, etc. 400,978; Apr. 13; Serial No. 456,989; published Feb. 2, 1943. Class 12.

Morse, E. E., Lodi, Calif. Fresh grapes. 168,469; renewed May 22, 1943.

Mutual Printing Company, Philadelphia, Pa. Writing paper and envelopes. 400,949; Apr. 13; Serial No. 454,781; published Feb. 2, 1943. Class 37.

National Drug and Chemical Company of Canada, Limited, Montreal, Canada. Toilet preparation for the hair. 400,936; Apr. 13; Serial No. 452,649; published Feb. 2, 1943. Class 6.

Neville Company, The, Neville Island, Pittsburgh, Pa. Liquid hydrocarbon solvents of general use in the industrial arts. 400,982; Apr. 13; Serial No. 457,067; published Feb. 2, 1943. Class 6.

New England Panama Hat Co., Inc., New York, N. Y., assignor to New England Panama Hat Co., Inc., Baltimore, Md. Hats. 172,086; renewed Aug. 21, 1943.

Nicholson, William L., Jr., Tulsa, Okla. Blank forms. 400,992; Apr. 13. Class 37.

Norris, John L., Jr., doing business as Vello Products, Lyndonville, Vt. Ointment for minor cuts and burns and for cold cream. 400,963; Apr. 13; Serial No. 455,889; published Feb. 2, 1943. Class 6.

Northam Warren Corporation, Stamford, Conn. Electrical insulator plugs. 400,974; Apr. 13; Serial No. 456,720; published Feb. 2, 1943. Class 21.

Nut Lunch Company. (See Townsend, Glenn.)

Oppenheimer Casing Co., Chicago, Ill. Salted and dried sausage casings, and goldbeater skins. 165,422; renewed Mar. 6, 1943.

Para Ti Corporation, New York, N. Y. Soap. 400,965; Apr. 13; Serial No. 456,103; published Feb. 2, 1943. Class 4.

Para Ti Corporation, New York, N. Y. Perfumes and cosmetics. 400,966; Apr. 13; Serial No. 456,104; published Dec. 22, 1942. Class 6.

Parke, Davis & Company, Detroit, Mich. Vitamin preparation. 400,985; Apr. 13; Serial No. 457,249; published Feb. 2, 1943. Class 6.

Perlitch, Lesa M., New York, N. Y. Joined blouse and slip combinations. 400,995; Apr. 13. Class 39.

Philco Corporation, Philadelphia, Pa. Battery parts and supplies. 400,943; Apr. 13; Serial No. 454,374; published Feb. 2, 1943. Class 21.

Phillippe, Louis, Inc., New York, N. Y., assignor, by mesne assignments, to Affiliated Products, Inc., Jersey City, N. J. Tooth paste and tooth powder. 167,584; renewed May 1, 1943.

Plough Chemical Company, doing business as Pluko Manufacturing Company, to Plough, Inc., Memphis, Tenn. Hair dressing. 165,008; renewed Feb. 27, 1943.

Pluko Manufacturing Company. (See Plough Chemical Company, assignor.)

Procter & Gamble Company, The. (See Remmers Soap Company, The, assignor.)

Puritol Company, The. (See Karnes, E. L.)

Putney, Stephen, Shoe Company, Richmond, Va. Shoes. 401,010; Apr. 13. Class 39.

Reeder, Oliver, & Son, Incorporated, proprietor of The Baltimore Copper Paint Company, Baltimore, Md. Paints and varnishes. 170,510; renewed July 17, 1943.

Regetta Manufacuring Co. Inc., to The B. V. D. Corporation, Baltimore, Md. successor. Pyjamas and men's undergarments. 164,875; renewed Feb. 27, 1943.

Remmers Soap Company, The, assignor, by mesne assignments to The Procter & Gamble Company, Cincinnati, Ohio. Soap. 168,402; renewed May 22, 1943.

Rhodia Chemical Company, New Brunswick, N. J., assignor, by mesne assignments, to E. I. du Pont de Memours and Company, Wilmington, Del. Protective materials used for coating and sealing containers and the like. 165,814; renewed Mar. 20, 1943.

Riverside & Dan River Cotton Mills, Inc., Danville, Va., and New York, N. Y. Men's and women's shirts, slacks, and ensembles. 400,958; Apr. 13; Serial No. 455,350; published Feb. 2, 1943. Class 39.

Robinson-Roders Co., Inc., The, Newark, N. J., assignor to Burton-Daxie Corporation, Chicago, Ill. Mattresses, pillows, bolsters, etc. 170,597; renewed July 17, 1943.

St. Regis Paper Company. (See Bates Valve Bag Company, assignor.)

Sally Style Slips. (See Levy, Herman B.)

Sears, Roebuck and Co., Chicago, Ill. Men's shoes. 400,990; Apr. 13. Class 39.

Shaw, H. E., Company, Worcester, Mass. Concentrated syrups for the making and flavoring of beverages. 401,001; Apr. 13. Class 45.

Singer Manufacturing Company, The, Elizabeth, N. J. Surgical stitching instruments, their parts and attachments. 400,959; Apr. 13; Serial No. 455,383; published Feb. 2, 1943. Class 44.

Si-Si Food Company, New York, N. Y. Salad dressing. 400,935; Apr. 13; Serial No. 452,436; published Feb. 2, 1943. Class 46.

Smallman, I., & Sons, Inc., New York, N. Y. Billfolds and pocketbooks. 400,997; Apr. 13. Class 3.

Soilicide Laboratories. (See Linck, Otto E.)

Southern Citrus Association, Redlands, Calif. Fresh citrus fruits. 400,969; Apr. 13; Serial No. 456,327; published Feb. 2, 1943. Class 46.

Southern Minnesota Oil Company, Fairmont, Minn., assignor to Cities Service Oil Company, Bartlesville, Okla. Gasoline. 165,185; renewed Mar. 6, 1943.

Southern Minnesota Oil Company, Fairmont, Minn., assignor to Cities Service Oil Company, Bartlesville, Okla. Motor oils. 165,186; renewal Mar. 6, 1943.

Standard Brands Incorporated. (See American Pickle & Canning Co., assignor.)

Standard Oil Company, San Francisco, Calif., assignor to Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Lubricating oils. 169,637; renewed June 26, 1943.

Sterling Products Company. (See Crosby, William F.)

Stover Manufacturing & Engine Co., Freeport, to Stover Manufacturing and Engine Co., Chicago, Ill. Windmills, combustion engines, feed-grinding mills, etc. 164,503; renewed Feb. 20, 1943.

Strohmeyer & Arpe Company, New York, N. Y. Olive oil and salad oil. 171,200; renewed July 31, 1943.

Stroock, S., & Co., Inc., New York, N. Y. Woolen fabrics in the piece. 400,975; Apr. 13; Serial No. 456,814; published Jan. 19, 1943. Class 42.

Strype, Fred C., New York, N. Y. Apple wrappers. 171,005; renewed July 31, 1943.

Swedish Crucible Steel Company, Detroit, Mich. Toilet seats. 400,968; Apr. 13; Serial No. 456,252; published Feb. 2, 1943. Class 13.

Tamis, Louis, & Son, New York, N. Y. Cigarette cases, cigar cases, vanities, etc. 400,962; Apr. 13; Serial No. 455,771; published Feb. 2, 1943. Class 28.

Tate & Lyle, Limited, London, England. Sugar. 171,145; renewed July 31, 1943.

Tobacco Products Corporation, assignor, by mesne assignments, to The American Tobacco Company, New York, N. Y. Cigarettes. 168,247; renewed May 15, 1943.

Townsend, Glenn, doing business as Nut Lunch Company, assignor to Hoody Peanut Products Company, Portland, Oreg. Peanut butter. 171,463; renewed Aug. 7, 1943.

Tri-Valley Packing Association, San Francisco, Calif. Canned fruits, canned vegetables. 400,942; Apr. 13; Serial No. 454,207; published Sept. 15, 1942. Class 46.

Tyree, Josiah S., to J. S. Tyree, Chemist, Inc., Washington, D. C., successor. Liquid medicinal preparation for internal use. 163,408; renewed Jan. 9, 1943.

Ulmann, Bernhard Co. Inc., New York, N. Y. Yarns. 171,552; renewed Aug. 7, 1943.

Unicon Company, Kansas City, Mo. Hollow sheet metal and wood building blocks, portable sectional buildings. 400,971; Apr. 13; Serial No. 456,575; published Feb. 2, 1943. Class 12.

United Garment Workers of America, New York, N. Y. Posters, certificate cards, circulars, etc. 165,167; renewed Mar. 6, 1943.

United States Department of Agriculture, Washington, D. C. Live poultry and eggs. 400,952–7; Apr. 13; Serial Nos. 455,035–40; published Feb. 2, 1943. Class 46.

United States Rubber Company. (See Federal Rubber Company, The, assignor.)

Vello Products. (See Norris, John L., Jr.)

Victor Syrup Corporation, Long Island City, N. Y. Syrup, concentrates, and extracts for beverages sold as soft drinks. 400,947; Apr. 13; Serial No. 454,484; published Feb. 2, 1943. Class 45.

Viking Refrigerators, Inc., Kansas City, Mo. Refrigerated display cases and refrigerators. 400,989; Apr. 13. Class 31.

Warner, Ernest L., Los Angeles, Calif. Leather vanity cases. 400,994; Apr. 13. Class 3.

Weber & Heilbroner, New York, N. Y., by change of name to Weber & Heilbroner, Inc. Men's overcoats. 164,237; renewed Feb. 13, 1943.

Wetmore, S. Gordon, doing business as Modern Movable Homes, Memphis, Tenn. Prefabricated sections of prefabricated houses. 401,008; Apr. 13. Class 12.

Whitin, Paul, Manufacturing Company, The, Northbridge, Mass. Yarns made of rayon, cellulose acetate rayon, wool, etc. 400,948; Apr. 13; Serial No. 454,772; published Jan. 19, 1943. Class 43.

Whiting Paper Company, Holyoke, Mass. Writing paper and mailing envelopes. 171,983; renewed Aug. 21, 1943.

Wilbur-Suchard Chocolate Company, Inc. (See Ideal Cocoa & Chocolate Co., assignor.)

Wirth-Concordade Company, assignor to Concordade Company, Inc., Providence, R. I. Grape juice. 166,837; renewed Apr. 17, 1943.

York Pharmacal Company, St. Louis, Mo. Dry cleaning fluid. 400,934; Apr. 13; Serial No. 452,341; published Feb. 2, 1943. Class 4.

Zenith Radio Corporation, Chicago, Ill. Radio and television receiving sets and parts thereof. 400,944–5; Apr. 13; Serial Nos. 454,441–2; published Feb. 2, 1943. Class 21.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Plastic molding materials, Cellulose acetate. Manufacturers Chemical Corporation. 400,960; Apr. 13; Serial No. 455,398; published Feb. 2, 1943.

CLASS 3

Bags, brief cases, and trunks, Traveling. A. Galewski & Sons, Inc. 165,184; renewed Mar. 6, 1943.

Billfolds and pocketbooks. I. Smallman & Sons, Inc. 400,997; Apr. 13.

Cases, Leather vanity. E. L. Warner. 400,994; Apr. 13.

Pocketbooks and handbags. Deauville Bags, Inc. 400,972; Apr. 13; Serial No. 456,587; published Feb. 2, 1943.

CLASS 4

Cleaning fluid, Dry. York Pharmacal Company. 400,934; Apr. 13; Serial No. 452,341; published Feb. 2, 1943.

Razor strops. Illinois Razor Strop Company. 400,977; Apr. 13; Serial No. 456,891; published Feb. 2, 1943.

Soap. C. K. Gordon. 400,931; Apr. 13; Serial No. 449,133; published Feb. 2, 1943.

Soap. Para Ti Corporation. 400,965; Apr. 13; Serial No. 456,103; published Feb. 2, 1943.

Soap. Remmers Soap Company. 168,402; renewed May 22, 1943.

CLASS 5

Protective materials used for coating and sealing containers and the like. Rhodia Chemical Company. 165,814; renewed Mar. 20, 1943.

CLASS 6

Chemical preparation. O. E. Linck. 400,938; Apr. 13; Serial No. 453,247; published Feb. 2, 1943.

Cough syrups. Dill Company. 400,933; Apr. 13; Serial No. 451,359; published June 9, 1942.

Hair dressing. Plough Chemical Company. 165,008; renewed Feb. 27, 1943.

Medicinal preparation for internal use, Liquid. J. S. Tyree. 163,408; renewed Jan. 9, 1943.

Medicine for diabetes. E. J. Dailey. 400,937; Apr. 13; Serial No. 452,766; published June 30, 1942.

Oil, Antiseptic. R. J. Lifsey. 400,991; Apr. 13.

Ointment for minor cuts and burns and for cold cream. J. L. Norris, Jr. 400,963; Apr. 13; Serial No. 455,889; published Feb. 2, 1943.

Ointment for the relief of minor wounds and burns. G. A. Breon & Company. 400,961; Apr. 13; Serial No. 455,717; published Feb. 2, 1943.

Paste and tooth powder, Tooth. Louis Philippe, Inc. 167,584; renewed May 1, 1943.

Perfumes and cosmetics. Para Ti Corporation. 400,966; Apr. 13; Serial No. 456,104; published Dec. 22, 1942.

Pharmaceutical preparation. H. H. Beisner. 400,986; Apr. 13; Serial No. 457,268; published Feb. 2, 1943.

Preservative, flavoring, and coloring compound in liquid form, A ment. E. L. Karnes. 167,930; renewed May 8, 1943.

Solvents of general use in the industrial arts, Liquid hydrocarbon. Neville Company. 400,982; Apr. 13; Serial No. 457,067; published Feb. 2, 1943.

Toilet preparation for the hair. National Drug and Chemical Company of Canada, Limited. 400,936; Apr. 13; Serial No. 452,649; published Feb. 2, 1943.

Vitamin preparation. Parke, Davis & Company. 400,985; Apr. 13; Serial No. 457,249; published Feb. 2, 1943.

CLASS 12

Asphalt. Kentucky Rock Asphalt Co. 172,147; renewed Aug. 21, 1943.

Brick, fire-brick cement, and fire clay tile, Fire. A. P. Green Fire Brick Company. 171,610–11; renewed Aug. 7, 1943.

Brick, fire-brick cement and fire-clay tile, Fire. A. P. Green Fire Brick Company. 171,612; renewed Aug. 7, 1943.

Building blocks, portable sectional buildings, Hollow sheet metal and wood. Unicon Company. 400,971; Apr. 13; Serial No. 456,575; published Feb. 2, 1943.

Pipes, cement conduits, cement stacks, etc., Cement. C. E. Morris. 400,978; Apr. 13; Serial No. 456,989; published Feb. 2, 1943.

Prefabricated sections of prefabricated houses. S. Gordon Wetmore. 401,008; Apr. 13.

Roofing cement, Bituminous. Flintkote Company. 400,932; Apr. 13; Serial No. 449,258; published Feb. 2, 1943.

Steel, Structural. Bethlehem Steel Company. 171,606; renewed Aug. 7, 1943.

Wall board, Pressed wood fiber. Barclay Manufacturing Company. 400,979; Apr. 13; Serial No. 457,027; published Feb. 2, 1943.

Wall boards, lining for houses, plaster bases, etc., Composition of material for. Dahlberg & Company. 167,788; renewed May 8, 1943.

Wall boards, lining for houses, plaster bases, etc., Composition of material for. Dahlberg & Company. 167,870; renewed May 8, 1943.

CLASS 13

Fasteners, Slide. M. Finkelstein. 400,964; Apr. 13; Serial No. 455,969; published Feb. 2, 1943.

Pintles for casters. Bassick Company. 169,359; renewed June 12, 1943.

Toilet seats. Swedish Crucible Steel Company. 400,968; Apr. 13; Serial No. 456,252; published Feb. 2, 1943.

CLASS 15

Gasoline. Southern Minnesota Oil Company. 165,185; renewed Mar. 6, 1943.

Oils, Lubricating. Standard Oil Company. 169,637; renewed June 26, 1943.

Oils, Motor. Southern Minnesota Oil Company. 165,186; renewed Mar. 6, 1943.

CLASS 16

Clays used as extenders in protective paint coatings. Georgia Kaolin Company. 400,967; Apr. 13; Serial No. 456,188; published Feb. 2, 1943.

Paint pigment. American Crayon Company. 165,850; renewed Mar. 20, 1943.

Paints and varnishes. Oliver Reeder & Son. 170,510; renewed July 17, 1943.

Paints, paint enamels, stains, and varnishes. Monroe, Lederer & Taussig. 171,604; renewed Aug. 7, 1943.

Polishes, Cream furniture. W. F. Crosby. 401,003; Apr. 13.

CLASS 17

Cigarettes. Tobacco Products Corporation. 168,247; renewed May 15, 1943.

CLASS 19

Arms, Draft. American Steel Foundries. 167,430; renewed May 1, 1943.

Vehicle heaters and defrosters. Lincoln Motor Company. 400,927; Apr. 13; Serial No. 427,586; published Feb. 2, 1943.

CLASS 21

Battery parts and supplies. Philco Corporation. 400,943; Apr. 13; Serial No. 454,374; published Feb. 2, 1943.

Electrical insulator plugs. Northam Warren Corporation. 400,974; Apr. 13; Serial No. 456,720; published Feb. 2, 1943.

Lamps and associated control equipment, Incandescent, fluorescent, short wave, etc. Industrial Electronics Corporation. 400,946; Apr. 13; Serial No. 454,446; published Feb. 2, 1943.

Radio and television receiving sets and parts thereof. Zenith Radio Corporation. 400,944–5; Apr. 13; Serial Nos. 454,441–2; published Feb. 2, 1943.

Telephone and telegraph apparatus and radio apparatus. Federal Telephone & Telegraph Co. 166,470; renewed Apr. 3, 1943.

Telephone muffler. Hush-A-Phone Corporation. 165,251; renewed Mar. 6, 1943.

CLASS 22

Toy construction sets. A. C. Gilbert Company. 169,192; renewed June 12, 1943.

Vaulting poles and bamboo ski poles, Bamboo. Geo. H. Maus, Inc. 400,950; Apr. 13; Serial No. 454,831; published Feb. 2, 1943.

CLASS 23

Devices for carrying agricultural tools and connecting them to tractors or other sources of draft power. Moline Plow Company. 171,596; renewed Aug. 7, 1943.

Machinery and particularly parts thereof, Agricultural. Moline Plow Company. 166,069; renewed Mar. 27, 1943.

Machinery, Bag filling and packaging. Bates Valve Bag Company. 171,809; renewed Aug. 14, 1943.

Printers' and bookbinders' supplies. Hamilton Manufacturing Company. 168,238; renewed May 15, 1943.

Razors, Safety. Gillette Safety Razor Company. 401,009; Apr. 13.

Windmills, combustion engines, feed-grinding mills, etc. Stover Manufacturing & Engine Co. 164,503; renewed Feb. 20, 1943.

CLASS 26

Electric switches, Temperature actuated. Detroit Lubricator Company. 400,983; Apr. 13; Seral No. 457,115; published Feb. 2, 1943.

CLASS 28

Cigarette cases, cigar cases, vanities, etc. L. Tamis & Son. 400,962; Apr. 13; Serial No. 455,771; published Feb. 2, 1943.

CLASS 31

Display cases, and refrigerators, Refrigerated. Viking Refrigerators, Inc. 400,989; Apr. 13.

CLASS 32

Mattresses and box springs. Altoona Mattress Mfg. Company. 400,987; Apr. 13; Serial No. 457,305; published Feb. 2, 1943.
Mattresses, pillows, bolsters, etc. Robinson-Roders Co. 170,597; renewed July 17, 1943.

CLASS 34

Furnaces, grate frames, grate bars, etc. Hall-Neal Furnace Company. 168,465; renewed May 22, 1943.
Heat-treating containers, kiln furnaces, and oil-cracking still parts. Chrobaltic Tool Company. 171,561; renewed Aug. 7, 1943.

CLASS 35

Brake lining sets. L. J. Miley Company. 401,004; Apr. 13.
Tires and tubes, Pneumatic. Firestone Tire & Rubber Company. 400,988; Apr. 13; Serial No. 457,335; published Feb. 2, 1943.
Tires and tubes, Rubber. Fisk Rubber Company. 168,118; renewed May 15, 1943.
Tires, hose, tubing, etc. Federal Rubber Company. 169,274–6; renewed June 12, 1943.

CLASS 37

Blank forms. W. I. Nicholson, Jr. 400,992; Apr. 13.
Paper and envelopes, Writing. Mutual Printing Company. 400,949; Apr. 13; Serial No. 454,781; published Feb. 2, 1943.
Paper and mailing envelopes, Writing. Whiting Paper Company. 171,983; renewed Aug. 21, 1943.
Paper, Cover. The Marvellum Company. 171,982; renewed Aug. 21, 1943.
Paper, writing. Fox River Paper Company. 168,226; renewed May 15, 1943.
Papers, Book. Kimberly-Clark Company. 170,320–2; renewed July 10, 1943.
Pens. C. Howard Hunt Pen Company. 171,154; renewed July 31, 1943.
Wrappers, Apple. F. C. Strype. 171,005; renewed July 31, 1943.

CLASS 38

Books, more particularly dictionaries. G. & C. Merriam Company. 172,131; renewed Aug. 21, 1943.
Posters, certificate cards, circulars, etc. United Garment Workers of America. 165,167; renewed Mar. 6, 1943.

CLASS 39

Blouse and slip combinations, Joined. L. M. Perlitch. 400,995; Apr. 13.
Boots, shoes, and slippers. Alfred Hale Rubber Company. 170,716; renewed July 24, 1943.
Boots and shoes, Leather. Chippewa Shoe Mfg. Co. 172,111; renewed Aug. 21, 1943.
Coats, Juvenile. L. Abelson & Son. 401,011; Apr. 13.
Dresses, dress ensembles, Ladies' and misses', etc. David Crystal Inc. 401,000; Apr. 13.
Dress, House. Girly-Form Dresses, Inc. 401,012; Apr. 13.
Gowns, hostess gowns, dresses, etc., Women's and young misses' evening. Martini Frocks, Inc. 400,999; Apr. 13.
Hat bodies, Felt. Merrimac Hat Corporation. 401,006; Apr. 13.
Hats. New England Panama Hat Co. 172,086; renewed Aug. 21, 1943.
Heels and soles, rubbers, etc., Rubber. Alfred Hale Rubber Company. 169,375; renewed June 12, 1943.
Hosiery. Hayward Hosiery Company. 172,113; renewed Aug. 21, 1943.
Hosiery, Knit and flat. Dreifus, Eckstein & King, Inc. 171,782; renewed Aug. 14, 1943.
Hosiery, Ladies'. Chic Hosiery Co. 401,007; Apr. 13.
Insoles, Leather. J. G. Curtis Leather Company. 172,099; renewed Aug. 21, 1943.
Overcoats, Men's. Weber & Heilbroner. 164,237; renewed Feb. 13, 1943.
Pyjamas and men's undergarments. Regetta Manufacturing Co. Inc. 164,875; renewed Feb. 27, 1943.
Raincoats and waterproof tweed overcoats. Driway Raincoats Limited. 401,002; Apr. 13.
Shirts, slacks and ensembles, Men's and women's. Riverside & Dan River Cotton Mills, Inc. 400,958; Apr. 13; Serial No. 455,350; published Feb. 2, 1943.
Shoes. Stephen Putney Shoe Company. 401,010; Apr. 13.
Shoes, Men's. Sears, Roebuck and Co. 400,990; Apr. 13.
Slips, Women's. H. B. Levy. 400,941; Apr. 13; Serial No. 453,895; published Dec. 15, 1942.
Underwear, Ladies' and children's. Blue Swan Mills, Inc. 400,984; Apr. 13; Serial No. 457,162; published Feb. 2, 1943.

CLASS 42

Cotton poplin piece goods, Wind and water repellent. Hirsch-Werner, Inc. 400,970; Apr. 13; Serial No. 456,558; published Jan. 26, 1943.
Nainsook, sheets, diaper cloth, etc. Meyer's Company. 166,916; renewed Apr. 17, 1943.
Nets, Hair. B. Altman & Co. 171,792; renewed Aug. 14, 1943.
Piece goods, Silk. H. R. Mallinson & Co. Inc. 170,502; renewed July 17, 1943.
Piece goods, Silk. H. R. Mallinson & Co. Inc. 170,527; renewed July 17, 1943.
Woolen fabrics in the piece. S. Stroock & Co. 400,975; Apr. 13. Serial No. 456,814; published Jan. 19, 1943.

CLASS 43

Yarns. Bernhard Ulmann Co. Inc. 171,552; renewed Aug. 7, 1943.
Yarns. Paul Whitin Manufacturing Company. 400,948; Apr. 13; Serial No. 454,772; published Jan. 19, 1943.

CLASS 44

Medical and surgical appliances. Eisele & Company. 169,826; renewed July 3, 1943.
Respirators. Mine Safety Appliances Company. 400,993; Apr. 13.
Surgical stitching instruments, their parts and attachments. Singer Manufacturing Company. 400,959; Apr. 13; Serial No. 455,383; published Feb. 2, 1943.

CLASS 45

Grape juice. Wirth-Concordade Company. 166,837; renewed Apr. 17, 1943.

CLASS 45

Syrup, concentrates, and extracts for beverages sold as soft drinks. Victor Syrup Corporation. 400,947; Apr. 13; Serial No. 454,484; published Feb. 2, 1943.
Syrups for the making and flavoring of beverages, Concentrated. H. E. Shaw. 401,001; Apr. 13.

CLASS 46

Bread. Elizabeth Monaghan Inc. 400,939; Apr. 13; Serial No. 453,461; published Feb. 2, 1943.
Candies. Metro Chocolate Co. Inc. 400,928; Apr. 13; Serial No. 445,998; published Feb. 2, 1943.
Candies. John Wanamaker New York. 165,863; renewed Mar. 30, 1943.
Candy. Lovell and Covel Company. 400,996; Apr. 13.
Canned dog and cat food. J. M. Julian Company. 400,929; Apr. 13; Serial No. 446,574; published Nov. 18, 1941.
Canned fruits, canned vegetables. Tri-Valley Packing Association. 400,942; Apr. 13; Serial No. 454,207; published Sept. 15, 1942.
Canned salmon. Griffith-Durney Company of Washington. 400,930; Apr. 13; Serial No. 448,509; published Mar. 24, 1942.
Cheese cocktail spreads. Borden Company. 400,981; Apr. 13; Serial No. 457,060; published Feb. 2, 1943.
Chocolate coating. Ideal Cocoa & Chocolate Co. 171,539; renewed Aug. 7, 1943.
Chocolate. Ideal Cocoa & Chocolate Co. 171,593; renewed Aug. 7, 1943.
Citrus fruits, Fresh. Southern Citrus Association. 400,969; Apr. 13; Serial No. 456,327; published Feb. 2, 1943.
Compound of vegetable gums, and sugars. Liquid Carbonic Company. 171,161; renewed July 31, 1943.
Corn oil and peanut oil. Cimino Bros., Inc. 400,998; Apr. 13.
Elbow macaroni, spaghetti, shell macaroni, etc. Gooch Food Products Company. 400,976; Apr. 13; Serial No. 456,873; published Feb. 2, 1943.
Flour, Wheat. Federal Mill & Elevator Co., Inc. 167,029; renewed Apr. 24, 1943.
Flour, Wheat. Hopkinsville Milling Co. 400,980; Apr. 13; Serial No. 457,037; published Feb. 2, 1943.
Fruits, Fresh citrus. L. V. W. Brown Estate. 400,940; Apr. 13; Serial No. 453,707; published Aug. 18, 1942.
Grapes, Fresh. E. E. Morse. 168,469; renewed May 22, 1943.
Ice cream. Eskimo Pie Corporation. 400,973; Apr. 13; Serial No. 456,685; published Feb. 2, 1943.
Olive oil and salad oil. Strohmeyer & Arpe Company. 171,200; renewed July 31, 1943.
Onions in their natural state. Ernest Lucarelli & Co. 400,951; Apr. 13; Serial No. 454,928; published Feb. 2, 1943.
Peanut butter. G. Townsend. 171,463; renewed Aug. 7, 1943.
Pickles. American Pickle & Canning Company. 171,413; renewed Aug. 7, 1943.
Pickles and canned vegetables. American Pickle & Canning Co. 171,311; renewed Aug. 7, 1943.
Poultry and eggs, Live. United States Department of Agriculture. 400,952–7; Apr. 13; Serial Nos. 455,035–40; published Feb. 2, 1943.
Salad dressing. Si-Si Food Company. 400,935; Apr. 13; Serial No. 452,436; published Feb. 2, 1943.
Sugar. Tate & Lyle, Limited. 171,145; renewed July 31, 1943.

CLASS 48

Beer, Lager. Gulf Brewing Company. 401,005; Apr. 13.

CLASS 50

Sausage casings, and goldbeater skins, Salted and dried. Oppenheimer Casing Co. 165,422; renewed Mar. 6, 1943.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 13TH DAY OF APRIL, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Du Pont, E. I., de Nemours & Company. (See Pitman, Earle C., assignor.)

Earle, Clarence E., Washington, D. C. Lubricating composition. Re. 22,299; Apr. 13.

Goodrich, B. F., Company, The. (See Jones, P. C., and Mathes, assignors.)

Jones, Paul C., Silver Lake, and Roger A. Mathes, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Vulcanization of rubber. Re. 22,300; Apr. 13.

Mathes, Roger A. (See Jones, P. C., and Mathes.)

Pitman, Earle C., Red Bank, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Cementing process. Re. 22,301; Apr. 13.

LIST OF PLANT PATENTEES

Anderson, Frederic W., Merced, Calif. Nectarine. 575; Apr. 13.

LIST OF DESIGN PATENTEES

Alexander, Emily. (See Seigenfeld, S., and Alexander.)
Associated Electric Laboratories, Inc. (See Giannini, Gabriel M., assignor.)
Aller, Willis F., assignor to The Sheffield Corporation, Dayton, Ohio. Gauge for size measurement or comparison. 135,455; Apr. 13.
Bilde, Tord E. D., Stockholm, Sweden. Combined bicycle guard and lamp. 135,493; Apr. 13.
Bird & Son, inc. (See Wright, William R., assignor.)
Boobarin, Leo Y., San Francisco, Calif. Timepiece dial. 135,456; Apr. 13.
Botham, Arthur R., New York, N. Y., assignor to Coty, Inc. Combined stand and perfume bottles. 135,484; Apr. 13.
Botham, Arthur R., New York, N. Y., assignor to Coty, Inc. Combined stand and perfume bottles. 135,485; Apr. 13.
Botham, Arthur R., New York, N. Y., assignor to Coty, Inc. Combined stand and perfume bottles. 135,486; Apr. 13.
Botham, Arthur R., New York, N. Y., assignor to Coty, Inc. Combined stand and perfume bottle. 135,487; Apr. 13.
Botham, Arthur R., New York, N. Y., assignor to Coty, Inc. Combined stand and perfume bottles. 135,488; Apr. 13.
Cheney, Ralph G., and B. S. Paschall, Seattle, Wash.; said Cheney assignor to said Paschall. Nebulizer. 135,468; Apr. 13.
Cooper, Nathan, New Haven, Conn. Dim-out shield for automobile headlights. 135,482; Apr. 13.
Coty, Inc. (See Botham, Arthur R., assignor.)
De Walt Products Corporation. (See Schutz, Ewald, assignor.)
Dewey, Clarence L., Elkhart, Ind. Desk lamp. 135,478; Apr. 13.
Dunn, Pearl E., Oakland, Calif. Child's folding toilet seat. 135,469; Apr. 13.
Elite Hand Painting Corporation. (See Hoffmann, Hugo, assignor.)
Gallo, Thomas, Arlington, Va. Diluter for lubricants. 135,489; Apr. 13.
Generale, John T., Pelham Manor, N. Y. Slicing board. 135,457; Apr. 13.
Giannini, Gabriel M., North Hollywood, Calif., assignor, by mesne assignments, to Associated Electric Laboratories, Inc., Chicago, Ill. Loud-speaking telephone set. 135,495; Apr. 13.
Globe-Wernicke Company, The. (See Hearn, Thomas A., assignor.)
Gutekunst, Ralph M., Bala-Cynwyd, assignor to The Hellwig Silk Dyeing Co., Philadelphia, Pa. Textile fabric or similar article. 135,458; Apr. 13.
Hearn, Thomas A., Ludlow, Ky., assignor to The Globe-Wernicke Company, Norwood, Ohio. Card follower. 135,459; Apr. 13.
Hearn, Thomas A., Ludlow, Ky., assignor to The Globe-Wernicke Company, Norwood, Ohio. Card follower. 135,460; Apr. 13.
Heintz & Kaufman, Ltd. (See Wagener, W. G., and Sphar, assignors.)
Hellwig Silk Dyeing Co., The. (See Gutekunst, Ralph M., assignor.)
Hoffmann, Hugo, assignor to Elite Hand Painting Corporation, New York, N. Y. Christmas tree ornament or the like. 135,470; Apr. 13.
Hopkins, Horace E., Jeffersonville, Ind. Lamp. 135,479; Apr. 13.
Hydraulic Development Corporation, The. (See Tucker, Warren R., assignor.)
Koonz, Frederick W., Bernardston, assignor to Rogers, Lunt & Bowlen Company, Greenfield, Mass. Spoon or similar article. 135,461; Apr. 13.
Kropp, Willis A., River Forest, assignor to Victor Adding Machine Co., Chicago, Ill. Check writing machine casing. 135,500; Apr. 13.
Lueders, Arthur K., St. Paul, Minn. Folding lamp shade. 135,496; Apr. 13.
McCullough, Samuel G., Narragansett, R. I. Ice skate. 135,462; Apr. 13.
Medgyes, Ladislas, assignor to Helena Rubinstein, Inc., New York, N. Y. Decalcomania transfer sheet or the like. 135,499; Apr. 13.
Moye, Barbara, New York, N. Y. Jacket. 135,501; Apr. 13.
Packwood, George H., Jr., Glencoe, Mo. Soap dispenser or the like. 135,463; Apr. 13.
Paschall, Benjamin S. (See Cheney, R. G., and Paschall.)
Pichel, Irving, New York, N. Y. Handbag. 135,502; Apr. 13.
Reinsberg, Adolph, Chicago, Ill. Hat. 135,497; Apr. 13.
Rogers, Lunt & Bowlen Company. (See Koonz, Frederick W., assignor.)
Royall, John A., East Boothbay, Maine. Razor blade sharpener. 135,471; Apr. 13.
Rubinstein, Helena, Inc. (See Medgyes, Ladislas, assignor.)
Schutz, Ewald, assignor to De Walt Products Corporation, Lancaster, Pa. Metal cutting machine or similar article. 135,473; Apr. 13.
Scott, Frank J., Minneapolis, Minn. Dial for barometers or the like. 135,472; Apr. 13.
Seigenfeld, Sylvia, New York, N. Y., and E. Alexander, Stamford, Conn. Nurse's cap. 135,464; Apr. 13.
Sheffield Corporation, The. (See Aller, Willis F., assignor.)
Sphar, Clark H. (See Wagener, W. G., and Sphar.)
Swedlin, Jacob, Brooklyn, N. Y. Stuffed toy or similar article. 135,490; Apr. 13.
Swedlin, Jacob, Brooklyn, N. Y. Stuffed toy or similar article. 135,491; Apr. 13.
Swedlin, Jacob, Brooklyn, N. Y. Mask for stuffed toys or similar article. 135,492; Apr. 13.
Tucker, Warren R., Dayton, assignor to The Hydraulic Development Corporation, Inc., Mount Gilead, Ohio. Vane pump. 135,483; Apr. 13.
Victor Adding Machine Co. (See Kropp, Willis A., assignor.)
Voit, Alfred M., Louisville, Ky. Game board. 135,465; Apr. 13.
Voit, Alfred M., Louisville, Ky. Deck of playing cards. 135,466; Apr. 13.
Wagener, Winfield G., Palo Alto, and C. H. Sphar, San Francisco, assignors to Heintz & Kaufman, Ltd., South San Francisco, Calif. Electron discharge transmitting tube. 135,480; Apr. 13.
Wagener, Winfield G., Palo Alto, and C. H. Sphar, San Francisco, assignors to Heintz & Kaufman, Ltd., South San Francisco, Calif. Electron discharge transmitting tube. 135,481; Apr. 13.

Wagner, Robert E., Avon Lake, Ohio. Chair or similar article. 135,474; Apr. 13.

Walker, Joset L., New York, N. Y. Dress. 135,503; Apr. 13.

Walker, Joset L., New York, N. Y. Dress. 135,504; Apr. 13.

Waterman, Arthur, Philadelphia, Pa. Tie rack. 135,467; Apr. 13.

Weigel, Norman E., Short Hills, N. J. Fountain pen. 135,498; Apr. 13.

Wright, William R., Dedham, assignor to Bird & Son, inc., East Walpole, Mass. Insulating siding corner unit. 135,475; Apr. 13.

Wright, William R., Dedham, assignor to Bird & Son, inc., East Walpole, Mass. Insulating siding corner unit. 135,476; Apr. 13.

Wright, William R., Dedham, assignor to Bird & Son, inc., East Walpole, Mass. Insulating siding corner unit. 135,477; Apr. 13.

Zahn, Samuel, New York, N. Y. Dress. 135,505; Apr. 13.

Zuckerman, Harry, New York, N. Y. Skirt. 135,494; Apr. 13.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 13TH DAY OF APRIL, 1943

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Abbott, Frank R. (See Atlee, Z. J., and Abbott.)

Abercrombie, James S., Houston, Tex. System of reducing pressures. 2,316,383; Apr. 13.

Abramson, Alvin A., assignor to Central States Paper & Bag Company, St. Louis, Mo. Container. 2,316,384; Apr. 13.

Abramson, Elmer D., Clayton, assignor to Central States Paper & Bag Company, St. Louis, Mo. Container. 2,316,385; Apr. 13.

Ackerman, Virgil D., assignor to Hastings Manufacturing Company, Hastings, Mich. Piston expander. 2,316,210; Apr. 13.

Acrotorque Company, The. (See Orshansky, Elias, Jr., assignor.)

Adams, Frederick W., Pittsburgh, Pa., and W. H. Lycan, Milwaukee, Wis., assignors to Pittsburgh Plate Glass Company. Casein plastics. 2,316,146; Apr. 13.

Adams, Zibah B., Clinton, Mo. Educational device. 2,316,147; Apr. 13.

Air-Way Electric Appliance Corporation. (See Dow, D. M., Burmeister, and Lindberg, assignors.)

Agnew, Norman F., and W. P. Place, Wilkinsburg, Pa. Electrical fence charging apparatus. 2,316,211; Apr. 13.

Ahlberg, Henry B., West Hartford, assignor to The Gray Manufacturing Company, Hartford, Conn. Louver construction. 2,316,541; Apr. 13.

Ahlberg, Jacob E. (See Lee, E. C., and Ahlberg.)

Aircraft Screw Products Company. (See Evans, Neil, assignor.)

Aktiengesellschaft Brown, Boverie & Cie. (See Pfenninger, Hans, assignor.)

Albrecht, E., & Son Co. (See Albrecht, Robert E., assignor.)

Albrecht, Robert E., assignor to E. Albrecht & Son Co., St. Paul, Minn. Cleaning fur coats. 2,316,386; Apr. 13.

Albrecht, Robert E., assignor to E. Albrecht & Son Co., St. Paul, Minn. Making fur coats. 2,316,387; Apr. 13.

Aldrich, Loyd L., Wyoming, Ill. Oil burner blower housing. 2,316,542; Apr. 13.

Alien Property Custodian. (See Berlek, Josef.)

Alien Property Custodian. (See Bohner, G., Wendt, and Eggert, assignors.)

Alien Property Custodian. (See Chêneau, Louis J. J-B.)

Alien Property Custodian. (See Dewandre, Albert.)

Alien Property Custodian. (See Dornier, Claude.)

Alien Property Custodian. (See Endres, Peter.)

Alien Property Custodian. (See Erdmann, Konrad, assignor.)

Alien Property Custodian. (See Fuchs, Otto, assignor.)

Alien Property Custodian. (See Gast, Erich.)

Alien Property Custodian. (See Grünert, S., and H. Ide.)

Alien Property Custodian. (See Hawk, Eugene M.)

Alien Property Custodian. (See Heimann, Eberhard.)

Alien Property Custodian. (See Kahle, H., and Stark.)

Alien Property Custodian. (See Kallmann, H. I., Kuhn, and Eggert.)

Alien Property Custodian. (See Keinath, George.)

Alien Property Custodian. (See Kesselring, F., Gieffers, Kaufmann, Neugebauer, Puttfarcken, Schimpf, and Zühlke, assignors.)

Alien Property Custodian. (See Kubelka, P., and Reiner.)

Alien Property Custodian. (See Kuhnert, Rudolf.)

Alien Property Custodian. (See Kümmel, Paul, assignor.)

Alien Property Custodian. (See Maruhn, Herbert, assignor.)

Alien Property Custodian. (See Meyer, L., and Klein.)

Alien Property Custodian. (See Neuse, Wilhelm, assignor.)

Alien Property Custodian. (See Orthner, L., and Langbein, assignors.)

Alien Property Custodian. (See Richard, Paul A., assignor.)

Alien Property Custodian. (See Salomon, Francois M. M. B.)

Alien Property Custodian. (See Schmitz, Hilger P., assignor.)

Alien Property Custodian. (See Schönfeld, Wilhelm, assignor.)

Alien Property Custodian. (See Schuster, Fritz, assignor.)

Alien Property Custodian. (See Shaw, Hwey J., assignor.)

Alien Property Custodian. (See Strunk, Ernst.)

Alien Property Custodian. (See Woog, Paul, assignor.)

Allen, Harold D. (See Colgate, R. B., Brandt, and Allen.)

Alles, Francis P., Waynesboro, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Regenerated cellulose apparatus. 2,316,212; Apr. 13.

Allied Chemical & Dye Corporation. (See Flett, Lawrence H., assignor.)

Allied Chemical & Dye Corporation. (See Toone, G. C., and Flett, assignors.)

Aluminum Company of America. (See Brown, R. H., and Mears, assignors.)

Amberg, Walter E., Beverly Shores, Ind., assignor to Universal Paper Products Company, Chicago, Ill. Paper cup. 2,316,150; Apr. 13.

Amend, William J., Seaford, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Catalytic oxidation. 2,316,543; Apr. 13.

American Brake Shoe and Foundry Company, The. (See Bruton, William C., assignor.)

American Can Company. (See Melzer, Julius, assignor.)

American Cyanamid Company. (See Cook, E. W., and Thomas, Jr., assignors.)

American Cyanamid Company. (See Dawson, William O., assignor.)

American Cyanamid Company. (See Marsh, Corbin, assignor.)

American Cyanamid Company. (See Reider, Malcolm J., assignor.)

American Machine & Foundry Company. (See Arelt, Charles, assignor.)

American Machine and Foundry Company. (See Patterson, Morehead, assignor.)

Ames, Evelyn H., executrix. (See Ames, John F., assignor.)

Ames, John F., Selma, Ala., deceased, E. H. Ames, executrix. Reinforced bag. 2,316,658; Apr. 13.

Amos, William E., Detroit, Mich. Locking device for door keys. 2,316,544; Apr. 13.

Anchor Hocking Glass Corporation. (See Stover, Harry E., assignor.)

Anderson, Carl F., St. Paul, Minn. Holder. 2,316,545; Apr. 13.

Anderson, Victor G., New Rochelle, and H. W. Rambusch, Brooklyn, assignors to Rambusch Decorating Company, New York, N. Y. Lighting apparatus. 2,316,546; Apr. 13.

Andrews, John L., Elmwood Park, assignor to Edison General Electric Appliance Company, Inc., Chicago, Ill. Apparatus for loading sheath wire heating units. 2,316,659; Apr. 13.

Annis, Robert B., Indianapolis, Ind. Metal etching stylus. 2,316,388; Apr. 13.

Arelt, Charles, Richmond Hill, N. Y., assignor to American Machine & Foundry Company. Mechanism for forming dense end cigarettes. 2,316,213; Apr. 13.

Atkinson, Earl B., Bay Village, Ohio. Adjustable bar hanger and receptacle fastening means. 2,316,389; Apr. 13.

Atlantic Research Associates, Inc. (See Winter, William B., assignor.)

Atlee, Zed J., Elmhurst, and F. R. Abbott, Maywood, assignors to General Electric X-Ray Corporation, Chicago, Ill. Control of electron flow. 2,316,214; Apr. 13.

Attula, Ernest F. (See Swarens, R. B., Attula, and Molony.)

Austin, Paul R., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of amino acids from their hydrohalides. 2,316,215; Apr. 13.

Automotive Products Company Limited. (See Parnell, Frank G., assignor.)

B. D. E. Corporation. (See Boatner, Charlotte H., assignor.)

Bachler, Harry A. (See Smoot, L. V., and Bachler.)

Backer, Lyle A. (See Goodale, L., and Backer.)

Bailey, Alonzo W., Cleveland, Ohio. Flashing strip. 2,316,660; Apr. 13.

Bandy, Alvin M., Ganado, Tex. Apparatus for taking samples of fluid from wells. 2,316,216; Apr. 13.

Bantam Bearings Corporation. (See Thomas, Stanley R., assignor.)

Barrow, Wilmer L., Newton, Mass., assignor to Research Corporation, New York, N. Y. Electromagnetic horn. 2,316,151; Apr. 13.

Bassist, Ellis, assignor to W. C. Toland, trustee, Brookline, Mass. Printing means. 2,316,148; Apr. 13.

Bates, Harold O., Cranford, N. J. Integrating colored insignia to rubber. 2,316,149; Apr. 13.

Battelle Memorial Institute. (See Bearse, A. E., and Shutt, assignors.)

Bauer Brothers Company, The. (See Woodruff, Maurice D., assignor.)

Baum, Frank E., Chelmsford, and T. N. D. Phillips, London, England, assignors to Radio Corporation of America. Tuning device for radio apparatus. 2,316,547; Apr. 13.

Beagle, Nathaniel R., Jefferson City, Mo. Fastening device. 2,316,548; Apr. 13.

Beanblossom, Joy E., and W. B. Scott, assignors to Hooker Electrochemical Company, Niagara Falls, N. Y. Processes for production of carbon tetrachloride. 2,316,736; Apr. 13.

Beanblossom, Joy E., and W. B. Scott, assignors to Hooker Electrochemical Company, Niagara Falls, N. Y., a corporation of New York. Processes for production of carbon tetrachloride. 2,316,737; Apr. 13.

Bearse, Arthur E., Grandview Heights, and R. S. Shutt, Upper Arlington, assignors to Battelle Memorial Institute, Columbus, Ohio. Preparing sulphonium compounds. 2,316,152; Apr. 13.

Beauchamp, Wilfred A., Chicago, Ill., assignor to The Youngstown Steel Door Company, Cleveland, Ohio. Sliding car door. 2,316,661; Apr. 13.

Belmar Manufacturing Company, The. (See Marble, Malcolm C., assignor.)

Belmar Manufacturing Company, The. (See Packard, John A., assignor.)

Bendix Aviation Corporation. (See Breese, Robert P., assignor.)

Bendix Aviation Corporation. (See Finnegan, Martin J., assignor.)

Bendix Aviation Corporation. (See Goepfrich, Rudolph A., assignor.)

Bendix Aviation Corporation. (See Gregg, David, assignor.)

Bendix Aviation Corporation. (See Marshall, John, assignor.)

Bendix Aviation Corporation. (See Nette, H. C., and Taylor, assignors.)

Bendix Aviation Corporation. (See Walpole, Harry J., assignor.)

Benson, Gerald L., Detroit, Mich., assignor to United States Rubber Company, New York, N. Y. Pneumatic tire assembly. 2,316,549; Apr. 13.

Benz, George R., and H. R. Zeigler, Detroit, Mich., assignors to Phillips Petroleum Company. Apparatus for storing fluids underground. 2,316,308; Apr. 13.

Berger, Henry G. (See Pratt, M. F., and Berger.)

Berkman, Herbert A., Chicago, Ill., assignor to Zim Manufacturing Company. Valve lifter and spring compressor. 2,316,646; Apr. 13.

Berlek, Josef, Radenlheln, Carinthia, Austria; vested in the Allen Property Custodian. Chrome-magnesia refractory and method. 2,316,229; Apr. 13.

Bettendorf Company, The. (See Kottmann, A. A., and Vollmer, assignors.)

Bettendorf Company, The. (See Vollmer, E. C., and Herwehe, assignors.)

Biczak, Charles A., Jr., Passaic, N. J. Wheel for roller skates. 2,316,498; Apr. 13.

Biermann, David, Hampton, Va. Power transmission. 2,316,390; Apr. 13.

Bigalke, Alfred, Berlin, Germany, assignor to General Electric Company. Oscilloscope scale. 2,316,550; Apr. 13.

Bigley, William J., Jr., Weehawken, N. J. Tank. 2,316,662; Apr. 13.

Bilde, Tord E. D., Ulvsunda, Sweden, assignor to Bolinder's Fabriks Aktiebolag, Stockholm, Sweden. Dishwashing machine. 2,316,748; Apr. 13.

Birch, Thomas H., Wauwatosa, Wis. Single car testing device. 2,316,217; Apr. 13.

Birch, Thomas H., Wauwatosa, Wis. Triple valve bracket. 2,316,218; Apr. 13.

Blain, John, assignor to Lord & Burnham Company, Des Plaines, Ill. Greenhouse ventilation. 2,316,309; Apr. 13.

Blake, Whitney, Company, The. (See Judisch, Carl H., assignor.)

Bliss, Carl G., Long Beach, assignor to Standard Steel Works, Los Angeles, Calif. Feed control means for weighing apparatus. 2,316,310; Apr. 13.

Bloch, Franz G., Le Sentier Vaud, Switzerland. Temperature measuring device. 2,316,391; Apr. 13.

Bloemsma, Harry R., East St. Louis, Mo. Heating stove. 2,316,392; Apr. 13.

Bloodworth, Rainie, Thomasville, Ga. Cultivating plow. 2,316,393; Apr. 13.

Boatner, Charlotte H., assignor to B. D. E. Corporation, New Orleans, La. Production of allergic extracts. 2,316,311; Apr. 13.

Boelter, Effie A., Sunnyside, Wash. Vegetable thinner and blocker. 2,316,663; Apr. 13.

Böhner, Georg, Edingen on the Neckar, B. Wendt, Dessau, and J. Eggert, Leipzig, Germany; vested in the Alien Property Custodian. Production of pigment-containing products. 2,316,535; Apr. 13.

Bolinder's Fabriks Aktiebolag. (See Bilde, Tord E. D., assignor.)

Bonanno, Joseph L., Maplewood, N. J., assignor to The Lionel Corporation, New York, N. Y. Toy train controller. 2,316,551; Apr. 13.

Bone, Herbert L., Forest Hills, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway switch rod connecting means. 2,316,312; Apr. 13.

Borglin, Joseph N., assignor to Hercules Powder Company, Wilmington, Del. Tall-oil refining. 2,316,499; Apr. 13.

Bovee, Ransom Y., Venice, Calif. Explosive type engine. 2,316,394; Apr. 13.

Brandt, Robert L. (See Colgate, R. B., Brandt, and Allen.)

Brassert, Herman A., Greenwich, and J. C. Hartley, Norwalk, Conn., assignors to Minerals and Metals Corporation, New York, N. Y. Process of and apparatus for facilitating and controlling chemical reactions and physical treatments. 2,316,664; Apr. 13.

Brassert, Herman A., Rye, N. Y., and S. P. Kinney, Crafton, Pa., assignors to Minerals and Metals Corporation, New York, N. Y. Production of iron and steel. 2,316,665; Apr. 13.

Braxdale, Acie L., Glendale, Calif. Lathing system. 2,316,552; Apr. 13.

Braxton, George W., Scotland Neck, N. C. Peanut and similar harvesting plow. 2,316,501; Apr. 13.

Bray, Elwyn R., St. Paul, Minn. Fishing line retriever. 2,316,500; Apr. 13.

Bray, Ulric B., Palos Verdes Estates, and C. E. Swift, Glendale, assignors to Union Oil Company of California, Los Angeles, Calif. Production of lubricating oil. 2,316,395; Apr. 13.

Breese, Robert P., New York, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Brake. 2,316,396; Apr. 13.

Breeze Corporation, Inc. (See Dayton, Ward D., assignor.)

Breslav, Jack, New Haven, Conn. Crane. 2,316,667; Apr. 13.

Briscoe, Ernest V., Kerman, Calif. Adjustable draft connection unit for implements. 2,316,397; Apr. 13.

Bredimus, Robert L., Des Moines, Iowa. Typewriting machine. 2,316,666; Apr. 13.

Brodie, Isidore R., New Britain, Conn. Venetian blind. 2,316,398; Apr. 13.

Bronner, James E., Staten Island, N. Y. Wall unit assembly. 2,316,668; Apr. 13.

Brouse, William H. D., Toronto, Ontario, Canada, assignor to John Wood Manufacturing Company, Inc., Philadelphia, Pa. Adjusting the length of stroke of pistons. 2,316,399; Apr. 13.

Brown, George H., Haddonfield, N. J., assignor to Radio Corporation of America. Direct reading meter. 2,316,153; Apr. 13.

Brown Instrument Company, The. (See Harrison, Thomas R., assignor.)

Brown, Robert H., New Kensington, and R. B. Mears, Oakmont, assignors to Aluminum Company of America, Pittsburgh, Pa. Composition for cleaning aluminum. 2,316,219; Apr. 13.

Brown, Robert H., New Kensington, and R. B. Mears, Oakmont, assignors to Aluminum Company of America, Pittsburgh, Pa. Composition for cleaning aluminum. 2,316,220; Apr. 13.

Bruker, Hobart W., Bordentown, and F. W. Overton, Trenton, N. J. Cutoff driving mechanism. 2,316,221; Apr. 13.

Brunhoff, Henry E., Wyoming, assignor to The Brunhoff Manufacturing Company, Cincinnati, Ohio. Bottle carrier. 2,316,738; Apr. 13.

Brunhoff Manufacturing Company, The. (See Brunhoff, Henry E., assignor.)

Brunke, Fritz, Berlin-Reinickendorf, Germany, assignor to General Electric Company. Contact plate for dry plate elements. 2,316,553; Apr. 13.

Bruton, William C., Oakland, Calif., assignor to The American Brake Shoe and Foundry Company, New York, N. Y. Conveyer mechanism. 2,316,313; Apr. 13.

Bryan, Ralph D., Topeka, Kans. Double deck stock car. 2,316,554; Apr. 13.

Buckeye Laboratories, Inc., The. (See Dunmire, R. P., and Camelford, assignors.)

Budd, Edward G., Manufacturing Company. (See Labaree, Benjamin, assignor.)

Buffalo Fundry & Machine Co. (See Lavett, Charles O., assignor.)

Bugg, Kenly C., Fort Wayne, Ind. Terminal connectors and positioning means therefor. 2,316,555; Apr. 13.

Burdick, Frank, assignor to Shakespeare Company, Kalamazoo, Mich. Fishing reel. 2,316,314; Apr. 13.

Burger, Frederick W., Niles, assignor to Clark Equipment Company, Buchanan, Mich. Slack adjuster. 2,316,400; Apr. 13.

Burke, William O., assignor to National Lock Co., Rockford, Ill. Latch. 2,316,401; Apr. 13.

Burmeister, Frederick H. (See Dow, D. M., Burmeister and Lindberg.)

Busi, Mario, assignor to The Silver Globe Corporation, New York, N. Y. Dry cleaning system and method of dry cleaning. 2,316,669; Apr. 13.

Butcher, Jay W., Woodland, Calif. Trash separator and beet piece saver. 2,316,556; Apr. 13.

Butters, Leonard E., assignor to Union Steel Products Company, Albion, Mich. Heating element support unit for ovens and the like. 2,316,222; Apr. 13.

Cady, E. L., Engineering Company, The. (See Cady, Ernest L., assignor.)

Cady, Ernest L., Hartford, assignor to The E. L. Cady Engineering Company, West Hartford, Conn. Card clothing. 2,316,557; Apr. 13.

Camelford, James A. (See Dunmire, R. P., and Camelford.)

Camili, Guglielmo, Pittsfield, Mass., assignor to General Electric Company. Transformer. 2,316,558; Apr. 13.

Campbell, Bowen, Des Moines, Iowa. Portable drier. 2,316,559; Apr. 13.

Canon, Arthur B., Houston, Tex. Cementing wells. 2,316,402; Apr. 13.

Carbide and Carbon Chemicals Corporation. (See Doolittle, Arthur K., assignor.)

Carbide and Carbon Chemicals Corporation. (See Strother, Corneille O., assignor.)

Carey, Jay W. (See Wesley, Andrew and Carey.)

Carman, James W., Seattle, Wash. Rim and attaching means for pneumatic tires. 2,316,502; Apr. 13.

Carr, Fred P., et al. (See Robes, Ernest C., Jr., assignor.)

Carter Carburetor Corporation. (See Coffey, Irven E., assignor.)

Carter, Lionel A., Webster Groves, assignor to Lehmann Machine Company, St. Louis, Mo. Lathe carriage feed mechanism. 2,316,403; Apr. 13.

Carter, Thomas A., Jr., assignor to Grand Rapids Store Equipment Company, Grand Rapids, Mich. Lighting fixture construction. 2,316,404; Apr. 13.

Casey, Charles L., Chicago, Ill. Vending machine. 2,316,315; Apr. 13.

Causey, George W., Pittsburgh, Pa. Structural element. 2,316,560; Apr. 13.

Celanese Corporation of America. (See Olpin, H. C., and McKnight, assignors.)

Celanese Corporation of America. (See Piperoux, R. P., and Soussloff, assignors.)

Central States Paper & Bag Company. (See Abrahamson, Alvin A., assignor.)

Central States Paper & Bag Company. (See Abrahamson, Elmer D., assignor.)

Chambers, Francis S., Jr., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Nitrite composition. 2,316,154; Apr. 13.

Champion Paper and Fibre Company, The. (See Warner, Edgar, assignor.)

Chance, A. B., Company. (See Hubbard, David C., assignor.)

Chapman, Edwin C. (See Finlayson, F. E., and Chapman.)

Charbonneaux, Wilson A., Burlington, Iowa. Automatic frequency regulator. 2,316,561; Apr. 13.

Chêneau, Louis J. J.-B., Paris, France; vested in the Alien Property Custodian. Automotive vehicle. 2,316,223; Apr. 13.

Chicago Forging & Manufacturing Company. (See Hill, Rowland, assignor.)

Chrysler Corporation. (See Livar, Allen P., assignor.)

Chrysler Corporation. (See Williams, Burdell S., assignor.)

Chrysler Corporation. (See Wilson, James E., assignor.)

Clark, Edward H., Mishawka, Ind., assignor to United States Rubber Company, New York, N. Y. Mixing and whipping apparatus. 2,316,562; Apr. 13.

Clark Equipment Company. (See Burger, Frederick W., assignor.)

Clausen, De Witt, Akron, Ohio, assignor to Lucien I. Yeomans, Incorporated, Chicago, Ill. Turning machine. 2,316,405; Apr. 13.

Clemons, C. Wood, assignor to Knapp-Monarch Company, St. Louis, Mo. Room heater. 2,316,563; Apr. 13.

Cockerill, Robert F., Elsmere, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Humidification. 2,316,564; Apr. 13.

Coffey, Irven E., Normandy, assignor to Carter Carburetor Corporation, St. Louis, Mo. Fluid pressure motor. 2,316,316; Apr. 13.

Colgate-Palmolive-Peet Company. (See Colgate, R. B., Brandt and Allen, assignors.)

Colgate-Palmolive-Peet Company. (See Heald, R. F., and Schulberud, assignors.)

Colgate-Palmolive-Peet Company. (See Russell, Kenneth L., assignor.)

Colgate, Robert B., Huntington, R. L. Brandt, New York, N. Y., and H. D. Allen, Glen Rock, assignors to Colgate-Palmolive-Peet Company, Jersey City, N. J. Flash distillation of organic sulphonate solutions. 2,316,670; Apr. 13.

Collier, Winthrop F., assignor to Geo. D. Roper Corporation, Rockford, Ill. Rotary pump shaft bearing and seal. 2,316,565; Apr. 13.

Colorgraphic Incorporated. (See Klopfenstein, Jesse D., assignor.)

Columbus Metal Products, Inc. (See Donley, Harold B., assignor.)

Constable, James M., Freeport, and R. W. Stamm, New York, N. Y., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. X-ray tube timer. 2,316,566; Apr. 13.

Cook, Elmer W., New York, N. Y., and W. D. Thomas, Jr., Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Stabilization of tetraethyl lead and a motor fuel containing the same. 2,316,739; Apr. 13.

Corbett, Harvey W. (See Hasenburger, H., and Corbett.)

Corn Products Refining Company. (See Sturken, Oswald C. H., assignor.)

Cornelius, Richard T., Minneapolis, Minn. Dispensing device. 2,316,406; Apr. 13.

Cornell, Elias S. (See Hampton, W. O., and Cornell.)

Cowl, John S., Swoope, Va. Package inverting machine. 2,316,407; Apr. 13.

Crane, Carl J. (See Ocker, W. C., and Crane.)

Crompton & Knowles Loom Works. (See Turner, Richard G., assignor.)

Crooks, Kenneth E., Williamsport, Pa. Preformed floor unit. 2,316,671; Apr. 13.

Crosby, Murray G., Riverhead, N. Y., assignor to Radio Corporation of America. Phase modulation. 2,316,155; Apr. 13.

Crown Cork & Seal Company. (See Huntley, G. J., and Rolker, assignors.)

Curtis, George W., Milwaukee, Wis., assignor to The Timken Roller Bearing Company, Canton, Ohio. Change speed transmission gearing. 2,316,503; Apr. 13.

Curtis, John C., and E. G. Gartin, Claremont, N. H., assignors to Sullivan Machinery Company. Rock drill. 2,316,672; Apr. 13.

Curtis, Leslie F., Great Neck, N. Y., assignor to Hazeltine Corporation. Frequency-responsive network. 2,316,317; Apr. 13.

Cutler-Hammer, Inc. (See Evans, Clarence T., assignor.)

Cypress Novelty Corporation. (See Krieg, Anthony W., assignor.)

Cypser, Hugo F. (See Wheelock, J. H., and Cypser.)

Daniel, Walter. (See Mueller-Cunradi, M., and Daniel.)

Danley, Gail L., and A. J. Gordon, Denver, Colo. Telephone sterilizer. 2,316,540; Apr. 13.

Davidson, William W., Evanston, Ill. Rotary liquid pump. 2,316,318; Apr. 13.

Davis, David M., Rexford, N. Y., assignor to General Electric Company. Phase reversing means. 2,316,567; Apr. 13.

Davol Rubber Company. (See Raiche, Paul A., assignor.)

Dawson, Floyd. (See Smith, J. S., and Dawson.)

Dawson, Joseph, Toronto, Ontario, Canada. Reciprocating cam mechanism. 2,316,408; Apr. 13.

Dawson, William O., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Leather manufacture. 2,316,740; Apr. 13.

Dawson, William O., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Leather manufacture. 2,316,741; Apr. 13.

Dayton, Ward D., Bloomfield, assignor to Breeze Corporation, Inc., Newark, N. J. Radio shield. 2,316,504; Apr. 13.

De Bry, William J., Jr., Salt Lake City, Utah. Heater pad. 2,316,505; Apr. 13.

De Florez Engineering Co. (See Hirsch, Joel H., assignor.)

De Hoffmann, Felix. (See De Hoffmann, Elisa S., and Felix.)

De Hoffmann, Elisa S., and F. de Hoffmann, Buenos Aires, Argentina. Ring-mounted jewelry. 2,316,225; Apr. 13.

Delamere Company. (See Huppert, William, assignor.)

D'Elia, Joseph A., Bridgeport, Conn. Blower for oil burners. 2,316,224; Apr. 13.

Delta Star Electric Company, The. (See Hampton, W. O., and Cornell, assignors.)

Demarest, William G., New York, N. Y. Building tile. 2,316,319; Apr. 13.

Dench, Edward C. (See Hardy, A. C., Wurzburg, Jr., and Dench.)

Dent, Herbert, Chicago, Ill. Manufacture of lamp shades. 2,316,568; Apr. 13.

Dewandre, Albert, Brussels, Belgium; vested in the Alien Property Custodian. Hydraulically and pneumatically controlled mount for automatic guns. 2,316,320; Apr. 13.

Deyrup, Alden J. (See Robertson, C., and Deyrup.)

Deyrup, Alden J., Elizabeth, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Ceramic coating composition. 2,316,742; Apr. 13.

Dietzgen, Eugene Co. (See Langsner, Adolph, assignor.)

Dillon, W. C., & Company. (See Tipton, Raymond, assignor.)

Disston, Henry, & Sons, Incorporated. (See James, Howard C., assignor.)

Distillers Company Limited, The. (See Staudinger, H. P., and Tuerck, assignors.)

Distillers Company Limited, The. (See Tuerck, Karl H. W., assignor.)

Ditchfield, Frank, assignor to The Youngstown Steel Door Company, Cleveland, Ohio. Car door. 2,316,321; Apr. 13.

Ditchfield, Frank, assignor to The Youngstown Steel Door Company, Cleveland, Ohio. Sliding car door. 2,316,322; Apr. 13.

Ditto, Incorporated. (See Williams, Robert A., assignor.)

Doelker, William J., and G. J. Oswald, assignors to The National Cash Register Company, Dayton, Ohio. Method of manufacture. 2,316,506; Apr. 13.

Donley, Harold B., assignor to Columbus Metal Products, Inc., Columbus, Ohio. Oil burning apparatus. 2,316,226; Apr. 13.

Donley, Harold B., assignor to Columbus Metal Products, Inc., Columbus, Ohio. Oil burning apparatus. 2,316,227; Apr. 13.

Doolittle, Arthur K., South Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation. Vinyl resin coating composition. 2,316,323; Apr. 13.

Doran, James A., Providence, R. I. Contact breaker device. 2,316,156; Apr. 13.

Dornier, Claude, Friedrichshafen-on-the-Bodensee, Germany; vested in the Alien Property Custodian. Construction material for aircraft. 2,316,569; Apr. 13.

Dow, Dewey M., F. H. Burmeister, and C. A. Lindberg, assignors to Air-Way Electric Appliance Corporation, Toledo, Ohio. Vacuum cleaner. 2,316,674; Apr. 13.

Downing, Lloyd R., Denver, Colo. Oil well straightener. 2,316,409; Apr. 13.

Doyle, Arthur J., assignor to The Youngstown Steel Door Company, Cleveland, Ohio. Sliding car door. 2,316,675; Apr. 13.

Drummond, Robert S., assignor to National Broach & Machine Company, Detroit, Mich. Burring machine. 2,316,676; Apr. 13.

Dunham, George W., Westport, Conn., assignor to General Electric Company. Washing apparatus. 2,316,570; Apr. 13.

Dunmire, Russell P., and J. A. Camelford, Cleveland, Ohio, assignors to The Buckeye Laboratories, Inc. Apparatus for treating rolling oils. 2,316,571; Apr. 13.

Du Pont, E. I., de Nemours & Company. (See Alles, Francis P., assignor.)

Du Pont, E. I., de Nemours & Company. (See Amend, William J., assignor.)

Du Pont, E. I., de Nemours & Company. (See Austin, Paul R., assignor.)

Du Pont, E. I., de Nemours & Company. (See Chambers, Francis S., Jr., assignor.)

Du Pont, E. I., de Nemours & Company. (See Cockerill, Robert F., assignor.)

Du Pont, E. I., de Nemours & Company. (See Deyrup, Alden J., assignor.)

Du Pont, E. I., de Nemours & Company. (See Hunter, Archibald S., assignor.)

Du Pont, E. I., de Nemours & Company. (See Kohn, Earl J., assignor.)

Du Pont, E. I., de Nemours & Company. (See Loder, D. J., and McAlevy, assignors.)

Du Pont, E. I., de Nemours & Company. (See Loder, D. J., and Gresham, assignors.)

Du Pont, E. I., de Nemours & Company. (See Loder, D. J., Gresham, and Killian, assignors.)

Du Pont, E. I., de Nemours & Company. (See McAlevy, Ambrose, assignor.)

Du Pont, E. I., de Nemours & Company. (See Mitchell, James A., assignor.)

Du Pont, E. I., de Nemours & Company. (See Reichert, J. S., and McNeight, assignors.)

Du Pont, E. I., de Nemours & Company. (See Robertson, C., and Deyrup, assignors.)

Du Pont, E. I., de Nemours & Company. (See Sease, V. B., and White, assignors.)

Du Pont, E. I., de Nemours & Company. (See Teeters, Wilber O., assignor.)

Du Pont, E. I., de Nemours & Company. (See White, William D., assignor.)

Du Pont, E. I., de Nemours & Company. (See Woodhouse, J. C., and Walker, assignors.)

Durham Manufacturing Company. (See Maurer, Kenneth G., assignor.)

Dykeman, Reuben G., assignor to United Aircraft Products, Inc., Dayton, Ohio. Filler cap or closure. 2,316,507; Apr. 13.

Early, Mort. (See Van Dyk, V. R., and Early.)

Eastman Kodak Company. (See Yule, John A. C., assignor.)

Eaton, Irving C., Nichols, Conn., assignor to General Electric Company. Finishing electric conductors. 2,316,572; Apr. 13.

Edison General Electric Appliance Company. (See Andrews, John L., assignor.)

Edison General Electric Appliance Company. (See Reese, Gregory L., assignor.)

Edwards, John T. (See Prince, R. E., and Edwards.)

Edwards, Le Roy V., Rockville Centre, R. E. Tarring, Malverne, and A. A. Weiss, Jr., Brooklyn, N. Y. Thermometer. 2,316,677; Apr. 13.

Eggert, John. (See Bohner, G., Wendt and Eggert.)

Eggert, John. (See Kallman, H. I., Kuhn, and Eggert.)

Egy, Willard L., assignor to W. & L. E. Gurley, Troy, N. Y. Instrument case. 2,316,573; Apr. 13.

Ehrlich, William, Fox River, Wis., assignor of forty-five percent to Albert J. Fihe, Chicago, Ill. Perforated pie band. 2,316,574; Apr. 13.

Electric Sorting Machine Company. (See Van Haften, Freeman, assignor.)

Elliott, Edward L., Arlington, Va., assignor to Federal Business Machines Corporation, Washington, D. C. Copyholder. (2,316,324; Apr. 13.

Endres, Peter, Cologne, Ehrenfeld, Germany; vested in the Alien Property Custodian. Dispensing scales with a needle moving over scales and instantaneously indicating the weight in units. 2,316,230; Apr. 13.

Endres, Rudolf. (See Hentrich, W., Kaiser and Endres.)

Erdmann, Konrad, Radenthein, Austria; vested in the Alien Property Custodian. Production of chromite blocks. 2,316,228; Apr. 13.

Eschner, Albert, Santa Monica, Calif. Tourniquet. 2,316,157; Apr. 13.

Eschner, Albert, Santa Monica, Calif. Adjustable tourniquet. 2,316,158; Apr. 13.

Evangelista, Hugo, Gloversville, N. Y. Glove. 2,316,575; Apr. 13.

Evans, Clarence T., Wauwatosa, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Circuit controller. 2,316,678; Apr. 13.

Evans, Neil, Montclair, N. J., assignor to Aircraft Screw Products Company, Inc., Long Island City, N. Y. Device for inserting wire coils in tapped holes. 2,316,231; Apr. 13.

Evans, Paul M., Valentine, Tex. Coupling device for well apparatus. 2,316,679; Apr. 13.

Evett, Roy J., Seattle, Wash. Fruit and berry washing and grading equipment. 2,316,159; Apr. 13.

Ewaldson, Waldemar C., Millington, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Strand handling apparatus. 2,316,508; Apr. 13.

Farr, Willard H., assignor to Stewart-Warner Corporation, Chicago, Ill. Watt-hour meter. 2,316,410; Apr. 13.

Fawick, Thomas L., Akron, Ohio. Shaft coupling. 2,316,509; Apr. 13.

Fearon, Robert E., Tulsa, Okla., assignor to Well Surveys, Incorporated, of Tulsa, Okla. Well surveying method and apparatus. 2,316,576; Apr. 13.

Federal Business Machines Corporation. (See Elliott, Edward L., assignor.)

Federal Telephone and Radio Corporation. (See Goodale, L., and Backer, assignors.)

Fein, Jacob, Bronx, N. Y. Shoe. 2,316,325; Apr. 13.

Ferranti Electric Incorporated. (See Norris, Eric D. T., assignor.)

Ferri, Henry J., Port Richmond, Staten Island, assignor to The Lionel Corporation, New York, N. Y. Toy crane. 2,316,680; Apr. 13.

Ferrier, Peter H., Brookfield, Ill. Collapsible bed. 2,316,681; Apr. 13.

Ferris, William D., and C. R. Wolf, assignors to Frantz Manufacturing Co., Sterling, Ill. Garage door. 2,316,510; Apr. 13.

Fihe, Albert J. (See Ehrlich, William, assignor.)

Finlayson, Frank E., Ontario, and E. C. Chapman, Upland, Calif., assignors to General Electric Company. Apparatus for loading sheathed wire heating units. 2,316,683; Apr. 13.

Finnegan, Martin J., Glen Rock, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind. Aircraft altitude spacing system. 2,316,411; Apr. 13.

Finnegan, Martin J., Glen Rock, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind. Landing gear control system. 2,316,682; Apr. 13.

Fischer, Albert C., Chicago, Ill. Flooring material and floor construction. 2,316,232; Apr. 13.

Fischer, Albert C., Chicago, Ill. Expansion joint. 2,316,233; Apr. 13.

Flett, Lawrence H. (See Toone, G. C., and Flett.)

Flett, Lawrence H., Hamburg, N. Y., assignor to Allied Chemical & Dye Corporation. Ester of sulphosuccinic acid. 2,316,234; Apr. 13.

Flournoy, Algernon F., Monroe, La. Fish stringer. 2,316,511; Apr. 13.

Food Machinery Corporation. (See Sells, Neal S., assignor.)

Ford, Warren A., and P. C. Michel, Schenectady, N. Y., assignors to General Electric Company. Electronic regulator. 2,316,577; Apr. 13.

Fram Corporation. (See Wilson, Steven B., assignor.)

Frantz Manufacturing Co. (See Ferris, W. D., and Wolf, assignors.)

Freeman, Stephen E., Wauwatosa, Wis., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Liquid phase extraction of glyceride oils and acids. 2,316,512; Apr. 13.

French, Henry C. (See Schmidt, H. L., and French.)

French, Henry C., Elm Grove, assignor to The Heil Co., Milwaukee, Wis. Bottom dump trailer wagon. 2,316,412; Apr. 13.

Fritze, Otto. (See Rüttennauer, A., and Fritze.)

Fuchs, Otto, Frankfort-on-the-Main-Hochst, Germany; vested in the Alien Property Custodian. Polymerization of acetylene. 2,316,536; Apr. 13.

Gade, Harald F., Philadelphia, assignor to Pennsylvania Manufacturing Company, Jenkintown, Pa. Self-locking nut. 2,316,684; Apr. 13.

Gammon, John C. (See Morgan, J. S., Gammon and Morgan, assignors.)

Gardiner, William C., Niagara Falls, assignor to The Mathieson Alkali Works, Inc., New York, N. Y. Operation of mercury cells. 2,316,685; Apr. 13.

Garin, Leon, New York, N. Y. Washing device. 2,316,326; Apr. 13.

Garretson, Owen L., Detroit, Mich., assignor to Phillips Petroleum Company. Carburetor. 2,316,327; Apr. 13.

Garrison, Ranald M., assignor to Mission Manufacturing Company, Houston, Tex. Oval plug valve chamber. 2,316,413; Apr. 13.

Gartin, Elmer G. (See Curtis, J. C., and Gartin.)

Gas Machinery Company, The. (See Hamlink, Lazenby C., assignor.)

Gast, Erich, Dessau, Germany; vested in the Alien Property Custodian. Automatic flap control for airplanes. 2,316,235; Apr. 13.

Gay, Frazer W., Metuchen, N. J. Control means for prime mover driven generators. 2,316,513; Apr. 13.

General Aniline & Film Corporation. (See Marcis, Alfons, assignor.)

General Aniline & Film Corporation. (See Reppe, W., Keyssner, and Hecht, assignors.)

General Aniline & Film Corporation. (See Schneider, W., and Wilmanns, assignors.)

General Bronze Corporation. (See Peremi, E., and Webel, assignors.)

General Electric Company. (See Bigalke, Alfred, assignor.)

General Electric Company. (See Brunke, Fritz, assignor.)

General Electric Company. (See Camilli, Guglielmo, assignor.)

General Electric Company. (See Davis, David M., assignor.)

General Electric Company. (See Dunham, George W., assignor.)

General Electric Company. (See Eaton, Irving C., assignor.)

General Electric Company. (See Finlayson, F. E., and Chapman, assignors.)

General Electric Company. (See Ford, W. A., and Michel, assignors.)

General Electric Company. (See Irigai, Sin-Iti, assignor.)

General Electric Company. (See Kaestle, Frank L., assignor.)

General Electric Company. (See Kitani, R., Takashima and Kaneko, assignors.)

General Electric Company. (See Lemmers, Eugene, assignor.)

General Electric Company. (See McMahan, K. D., assignor.)

General Electric Company. (See Moe, William W., assignor.)

General Electric Company. (See Newell, Heber L., assignor.)

General Electric Company. (See Nickle, Clifford A., assignor.)

General Electric Company. (See Powell, Frederic K., assignor.)

General Electric Company. (See Rüttenauer, A., and Fritze, assignors.)

General Electric Company. (See Staak, Julius H., assignor.)

General Electric Company. (See Trekell, Harold E., assignor.)

General Electric X-Ray Corporation. (See Atlee, Z. J., and Abbott, assignors.)

General Motors Corporation. (See Knobel, M., and Packard, assignors.)

Gieffers, Friedrich. (See Kesselring, F., Gieffers, Kaufmann, Neugebauer, Puttfarcken, Schimpf, and Zühlke.)

Giglio, Antonio J., Bronx, N. Y., assignor to Premier Thread Company. Needle cooling device. 2,316,647; Apr. 13.

Giglio, Antonio J., Bronx, N. Y., assignor to Premier Thread Company. Needle cooling apparatus. 2,316,648; Apr. 13.

Goby, Clifford S. Cleveland, assignor of one-half to F. Kramer, Cleveland Heights, Ohio. Internal combustion engine. 2,316,160; Apr. 13.

Goepfrich, Rudolph A., assignor to Bendix Aviation Corporation, South Bend, Ind. Brake. 2,316,414; Apr. 13.

Goodale, Lynn, Newark, and L. A. Backer, Denville, assignors to Federal Telephone and Radio Corporation, Newark, N. J. Filamentary cathode assembly. 2,316,415; Apr. 13.

Goodchild, Frank D., London, England, assignor to International Standard Electric Corporation. High frequency tube. 2,316,236; Apr. 13.

Goodrich, B. F., Company, The. (See Japs, Archie B., assignor.)

Goodrich, B. F., Company, The. (See Jones, Paul C., assignor.)

Goodrich, B. F., Company, The. (See Tucker, Harold, assignor.)

Gordon, Alvin J. (See Danley, G. L., and Gordon.)

Gordon, Earle C., Jr., et al. (See Robes, Ernest C., assignor.)

Grand Rapids Store Equipment Company. (See Carter, Thomas A., Jr., assignor.)

Gray Manufacturing Company, The. (See Ahlberg, Henry B., assignor.)

Green, Archie L., Sioux Falls, S. Dak. Gas collector and vent. 2,316,686; Apr. 13.

Gregg, David, Caldwell, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind. Pressure and flow regulator. 2,316,416; Apr. 13.

Gregg, David, Caldwell, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind. Heating system. 2,316,417; Apr. 13.

Greig, Louis T. H., Nazeing, England. Pipe coupling. 2,316,578; Apr. 13.

Gresham, William F. (See Loder, D. J., and Gresham.)

Gresham, William F. (See Loder, D. J., Gresham, and Killian.)

Grünert, Siegfried, Berlin-Kopenick, and H. Ide, Berlin-Grunau, Germany; vested in the Alien Property Custodian. Controlling the supply of air to the closed cabins of aircraft. 2,316,237; Apr. 13.

Grunt, Max, Summit, N. J. Wall and plumbing fixture. 2,316,514; Apr. 13.

Grunt, Max, Summit, N. J. Water closet construction. 2,316,515; Apr. 13.

Guenther, George G. (See Guenther, Henry J. and G. G.)

Guenther, Henry J., and G. G., New York, N. Y. Side pocket for brief cases and the like. 2,316,328; Apr. 13.

Gulf Research & Development Company. (See Kennedy, Harvey T., assignor.)

Gurley, W. & L. E. (See Egy, Willard L., assignor.)

Gurley, W. & L. E. (See Witham, George S., Jr., assignor.)

Haase, Allen P., Lackawanna, N. Y. Grain door. 2,316,688; Apr. 13.

Habgood, Bernard J., Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited. Composition comprising solid ethylene polymers. 2,316,418; Apr. 13.

Haigh, Leslie B., and L. Kozma, Antwerp, Belgium, assignors to International Standard Electric Corporation. Telecommunication system. 2,316,238; Apr. 13.

Hall, Earl C., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Removing metal coatings from bases. 2,316,579; Apr. 13.

Hallbauer, Otto, East Englewood, N. J. Illuminating device for pocketbooks. 2,316,419; Apr. 13.

Hamersley Manufacturing Company, The. (See Thor, Nils G., assignor.)

Hamlink, Lazenby C., Cleveland Heights, assignor to The Gas Machinery Company, Cleveland, Ohio. Industrial furnace. 2,316,580; Apr. 13.

Hammerstein, Arthur, Great Neck, N. Y. Dispensing device. 2,316,516; Apr. 13.

Hammond, Perley D., Danbury, Conn. Molded cushion. 2,316,687; Apr. 13.

Hampton, Weldon O., Chicago, and E. S. Cornell, Evanston, assignors to The Delta Star Electric Company, Chicago, Ill. Terminator. 2,316,420; Apr. 13.

Hans, Edmund E., Detroit, Mich. Combination heating and ventilating system. 2,316,421; Apr. 13.

Hardy, Arthur C., Wellesley, Mass., F. L. Wurzburg, Jr., New York, N. Y., and E. C. Dench, South Orange, N. J., assignors to Interchemical Corporation, New York, N. Y. Method and apparatus for making separation images for four-color reproduction. 2,316,581; Apr. 13.

Hare, Donald G. C., Houston, Tex., assignor, by mesne assignments, to The Texas Company, New York, N. Y. Apparatus for determining density of fluids. 2,316,239; Apr. 13.

Hare, Donald G. C., Houston, Tex., assignor to Texaco Development Corporation, New York, N. Y. Subsurface prospecting. 2,316,329; Apr. 13.

Harris, William H., Jr., assignor to Micromatic Hone Corporation, Detroit, Mich. External honing tool. 2,316,422; Apr. 13.

Harrison, Thomas R., Wyncote, assignor to The Brown Instrument Company, Philadelphia, Pa. Control apparatus. 2,316,240; Apr. 13.

Hartley, James C. (See Brassert, H. A., and Hartley.)

Harvey, Herbert. (See Harvey, Leo M. and H., and Hill.)

Harvey, Kelsey I., Beaver, Pa. Grinding tool. 2,316,161; Apr. 13.

Harvey, Leo M., La Canada, H. Harvey and R. Hill, Los Angeles, Calif.; said H. Harvey and said Hill assignors to said L. M. Harvey. Device for providing refrigerants in containers. 2,316,423; Apr. 13.

Hasenburger, Henry, Newark, N. J., and H. W. Corbett, assignors to Prebilt Housing Corporation, New York, N. Y. Wall panel securing means. 2,316,424; Apr. 13.

Hasenburger, Henry, Newark, N. J., and H. W. Corbett, assignors to Prebilt Housing Corporation, New York, N. Y. Combination doorframe and casing. 2,316,425; Apr. 13.

Hastings Manufacturing Company. (See Ackerman, Virgil D., assignor.)

Hawk, Eugene M., deceased, Manila, P. I., Luz M. Hawk, Manila, P. I., administratrix, vested in the Alien Property Custodian. Process of treating chromite ores, particularly masinloc ore to obtain therefrom aluminum, chromium, and other products. 2,316,320; Apr. 13.

Hawk, Luz M., administratrix. (See Hawk, Eugene M.)

Hazeltine Corporation. (See Curtis, Leslie F., assignor.)

Heald, Robert F., and A. L. Schulerud, Nutley, assignors to Colgate-Palmolive-Peet Company, Jersey City, N. J. Soapmaking. 2,316,689; Apr. 13.

Healy, Patrick J., Detroit, Mich. Swivelly mounted coupling nut. 2,316,690; Apr. 13.

Hecht, Otto. (See Reppe, W., Keyssner, and Hecht.)

Hedding, Linnie K., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Voltage regulating apparatus. 2,316,331; Apr. 13.

Hedrick, Clarence E., Newton, Kans. Safety sanitary guard for drinking troughs of poultry fountains. 2,316,426; Apr. 13.

Hedrick, Clarence E., Newton, Kans. Sanitary safety guard for poultry drinking fountains. 2,316,427; Apr. 13.

Heil Co., The. (See French, Henry C., assignor.)

Heil Co., The. (See Schmidt, H. L., and French, assignors.)

Heimann, Eberhard, Berlin-Schoneberg, Germany; vested in the Alien Property Custodian. Preparation of beer. 2,316,241; Apr. 13.

Heinrich, Walter A., Richmond Heights, assignor to James R. Kearney Corporation, St. Louis, Mo. Clamp stick. 2,316,428; Apr. 13.

Helm, Emerson B., Cleveland, Ohio. Tobacco smoking device. 2,316,162; Apr. 13.
Henderson, Bee, Dryden, Tex. Inverted cylinder pumping unit. 2,316,429; Apr. 13.
Hendricks, Harold H., Youngstown, assignor to The Youngstown Steel Door Company, Cleveland, Ohio. Sliding car door. 2,316,332; Apr. 13.
Hendrickson, Bertram H., Athens, Ga., assignor to Claude R. Wickard, as Secretary of Agriculture of the United States of America and to his successors in office. Overfall sampling device. 2,316,537; Apr. 13.
Hentrich, Winfrid, Dusseldorf-Reisholz, W. Kaiser, Dessau in Anhalt, and R. Endres, Dessau-Rosslau, Germany, assignors, by mesne assignments, to "Patchem A.-G. zur Beteiligung An Patenten und Sonstigen Erfindungsrechten auf Chemische Verfahren," Zurich, Switzerland. Plasticized cellulose derivative composition. 2,316,242; Apr. 13.
Hercik, Lad L., Lakewood, assignor to The Hill Acme Company, Cleveland, Ohio. Grinding and polishing machine. 2,316,582; Apr. 13.
Hercules Powder Company. (See Borglin, Joseph N., assignor.)
Hercules Powder Company. (See Rothenberger, Lyle W., assignor.)
Hercules Powder Company. (See Troxler, Bernhart, assignor.)
Herwehe, Frederick A. (See Vollmer, E. C., and Herwehe.)
Hewlett, Amiot P., Cranford, N. J., assignor to Standard Oil Development Company. Regeneration of spent alkali metal hydroxide solutions from refining of mineral oils. 2,316,691; Apr. 13.
Highriter, Harry W., Lake Forest, Ill., and W. C. Lilliendahl, Mountain Lakes, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Manufacture of tungstic acid. 2,316,583; Apr. 13.
Hignutt, Frank A., Port Norris, N. J. Attachment plug. 2,316,163; Apr. 13.
Hildebrandt, Friedrich. (See Schoeller, W., Hildebrandt, and Schwenk.)
Hill Acme Company, The. (See Hercik, L. L., assignor.)
Hill, Reuben. (See Harvey, Leo M., Harvey, and Hill.)
Hill, Rowland, assignor to Chicago Forging & Manufacturing Company, Chicago, Ill. Hood latch assembly with sliding bolt. 2,316,692; Apr. 13.
Hillebrand, William E., assignor to Vapo-Therm Process Company, Louisville, Ky. Applicator and boiler for thermal-vapor treatment of congestions in the human body. 2,316,333; Apr. 13.
Hines, John E., Rochester, Minn. Automobile jack. 2,316,430; Apr. 13.
Hirsch, Joel H., Wichita, Kans., assignor to de Florez Engineering Co., Inc., Hartford, Conn. Cracking hydrocarbon oils. 2,316,334; Apr. 13.
Hoddy, Joseph S., assignor to A. G. Redmond Company, Owosso, Mich. Oil regulating sleeve for bearings. 2,316,693; Apr. 13.
Hoffeditz, Aaron H., Greencastle, Pa. Face support for binoculars. 2,316,164; Apr. 13.
Holley, Earl et al. (See Udale, Stanley M., assignor.)
Holley, George M. et al. (See Udale, Stanley M., assignor.)
Hooker Electrochemical Company. (See Beanblossom, J. E., and Scott, assignors.)
Hooley, Thomas W., Jr., New Orleans, La. Raft launching device. 2,316,431; Apr. 13.
Horton, Erwin C., Hamburg, assignor to Trico Products Corporation, Buffalo, N. Y. Direction indicator. 2,316,584; Apr. 13.
Hott, Ion Von Kert, assignor to The Joyce-Cridland Company, Dayton, Ohio. Lifting jack. 2,316,432; Apr. 13.
Howlett, Leslie J., Lindfield, and W. H. Howlett, New South Wales, Australia. Paint composition. 2,316,585; Apr. 13.
Howlett, Wesley H. (See Howlett, Leslie J., and Wesley H.)
Howser, Harry R., Washington, D. C. Composite frozen edible products. 2,316,165; Apr. 13.
Hubbard, David C., assignor to A. B. Chance Company, Centralia, Mo. Transmission line tool. 2,316,243; Apr. 13.
Huckle, William G., and C. G. Polzer, assignors to Imperial Paper and Color Corporation, Glens Falls, N. Y. Lead chromate pigment. 2,316,244; Apr. 13.
Huguelet, John E., Mount Lebanon, Pa., assignor to National Electric Products Corporation. Wiring duct. 2,316,166; Apr. 13.
Hulick, Walter L., assignor to Alice H. Preston, San Diego, Calif. Clothes drying rack. 2,316,433; Apr. 13.
Hume Manufacturing Company. (See Reid, E. J., and Taylor, assignors.)
Hunt, Rodney, Machine Company. (See Simonds, Warren J., assignor.)
Hunter, Archibald S., Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Yarn preparation. 2,316,245; Apr. 13.
Huntley, George J., and E. Roiker, assignors to Crown Cork & Seal Company, Inc., Baltimore, Md. Mechanism for marking containers. 2,316,517; Apr. 13.
Huppert, William, New York, N. Y. Electrical outlet. 2,316,167; Apr. 13.
Huppert, William, New York, N. Y., assignor to Delamere Company, Inc. Comb. 2,316,335; Apr. 13.
Hyatt, Elmer, Cleveland, Ohio. Knife. 2,316,246; Apr. 13.
Hydraulic Development Corporation, Inc., The. (See Tucker, Warren R., assignor.)
Ide, Hans. (See Grunert, S., and Ide.)
Ideal Novelty & Toy Co. (See Weinstein, Louis A., assignor.)
Ilmer, Louis, and V. R. Pallas; said Pallas assignor to L. T. Pallas, Cortland, N. Y. Abrasive machine. 2,316,586; Apr. 13.
Imperial Chemical Industries Limited. (See Habgood, Bernard J., assignor.)
Imperial Chemical Industries Limited. (See Wallden, S. J., and Sundgren-Wallden, née Sundgren, assignors.)
Imperial Chemical Industries Limited. (See Whittaker, Donald, assignor.)
Imperial Paper and Color Corporation. (See Huckle, W. G., and Polzer, assignors.)
Indian Motorcycle Company. (See Weaver, George B., assignor.)
Industrial Engineering Co. Inc. (See Schaefer, Timothy A., assignor.)
Industrial Wire Cloth Products Company. (See Mieras, Merritt A., assignor.)
Interchemical Corporation. (See Hardy, A. C., Wurzburg, Jr., and Dench, assignors.)
International Nickel Company, The. (See Wesley, Andrew and Carey, assignors.)
International Standard Electric Corporation. (See Goodchild, Frank D., assignor.)
International Standard Electric Corporation. (See Haigh, L. B., and L. Kozma, assignors.)
International Standard Electric Corporation. (See Litton, Charles V., assignor.)
International Standard Electric Corporation. (See McLarn, Ernest S., assignor.)
International Standard Electric Corporation. (See Motz, Hans, assignor.)
International Standard Electric Corporation. (See Scott, Thomas R., assignor.)
Ipatieff, Vladimir N., and H. Pines, assignors to Universal Oil Products Company, Chicago, Ill. Isomerization of paraffins. 2,316,247; Apr. 13.
Ipatieff, Vladimir N., and H. Pines, assignors to Universal Oil Products Company, Chicago, Ill. Isomerization of paraffins. 2,316,248; Apr. 13.
Irigai, Sin-Iti, Tokyo, Japan, assignor to General Electric Company. Stabilized oils. 2,316,587; Apr. 13.
Irwin, Emmett M., assignor to Magnetest Corporation, Long Beach, Calif. Phase indicator. 2,316,434; Apr. 13.
Isaacs, Harry Z., Baltimore, Md. Riding breeches. 2,316,588; Apr. 13.
Iwanowicz, Stanley, Detroit, Mich. Lamp or illuminated ornament. 2,316,589; Apr. 13.
Jaffa, Harry, Minneapolis, Minn. Theft prevention device. 2,316,695; Apr. 13.
Jalbert, Adrien L. (See Quinn, E., and Jalbert.)
James, Arthur C., Genoa, Ohio. Bale grouper. 2,316,435; Apr. 13.
James, Howard C., Philadelphia, Pa., assignor to Henry Disston & Sons, Incorporated, Tacony, Pa. Rake. 2,316,168; Apr. 13.
Japs, Archie B., Cuyagoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Polyvinyl halide composition. 2,316,169; Apr. 13.
Jarboe, Elmer L., Cleveland, Ohio, H. G. Oliver, administrator of said Elmer L. Jarboe, deceased, assignor to E. V. Jarboe. Attachment for cameras. 2,316,694; Apr. 13.
Jarboe, Esther V. (See Jarboe, Elmer L., assignor.)
Jasco, Incorporated. (See Mueller-Cunradi, M., and Daniel, assignors.)
Johnson, John A., Winona, Minn. Portable apparatus for treating flax straw. 2,316,590; Apr. 13.
Johnson, Lennart L., Minneapolis, Minn. Valve stem grinding attachment. 2,316,591; Apr. 13.
Johnson, Walter E., Topeka, Kans. Blueprint trimming device. 2,316,249; Apr. 13.
Johnston, Charles S., Chicago, Ill. Freight car. 2,316,696; Apr. 13.
Johnston, Charles S., Glencoe, assignor to Transportation Specialties Company, Chicago, Ill. Railway car truck. 2,316,592; Apr. 13.
Johnston, William, Jr., Wilkinsburg, Pa. End dump cinder pot. 2,316,336; Apr. 13.
Jones, Paul C., Silver Lake, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tetrahydro benzothiazole. 2,316,250; Apr. 13.
Joy Manufacturing Company. (See Lee, Arthur L., assignor.)
Joyce-Cridland Company, The. (See Hott, Ion Von K., assignor.)
Judisch, Carl H., assignor to The Whitney Blake Company, of New Haven, Conn. Electric plug assembling machine. 2,316,593; Apr. 13.
Jurs, Albert E., Piedmont, Calif. Relief valve. 2,316,649; Apr. 13.
Knestle, Frank L., Schenectady, N. Y., assignor to General Electric Company. Electric valve control circuits. 2,316,594; Apr. 13.

Kahle, Heinrich, Munich-Pullach, and S. Stark, Munich-Grunwald, Germany; vested in the Alien Property Custodian. Apparatus for the drying of gases. 2,316,251; Apr. 13.
Kaiser, Wilhelm. (See Hentrich, W., Kaiser, and Endres.)
Kallmann, Hartmut I., formerly known as Hartmut Kallmann, Berlin-Charlottenberg, E. Kuhn, Berlin, and J. Eggert, Leipzig, Germany; vested in the Alien Property Custodian. Photographic plate or film for the investigation of bodies or substances by means of neutrons. 2,316,595; Apr. 13.
Kalter, Harold E., assignor to The Troxel Manufacturing Company, Elyria, Ohio. Cycle saddle post. 2,316,436; Apr. 13.
Kaneko, Hideo. (See Kitani, R., Takashima, and Kaneko.)
Karlsson, George L., Peekskill, assignor of one-half to Irmgard Schultze, New York, N. Y. Attachment for skis. 2,316,252; Apr. 13.
Kaufmann, Werner. (See Kesselring, F., Gieffers, Kaufmann, Neugebauer, Puttfarcken, Schimpf, and Zühlke.)
Kearney, James R., Corporation. (See Heinrich, Walter A., assignor.)
Keinath, George, Larchmont, N. Y.; vested in the Alien Property Custodian. Testing materials. 2,316,253; Apr. 13.
Kellogg Switchboard and Supply Company. (See Wallace, Bert A., assignor.)
Kennedy, Harvey T., Oakmont, assignor to Gulf Research & Development Company, Pittsburgh, Pa. Shooting well. 2,316,596; Apr. 13.
Kenney Manufacturing Company. (See Kenney, William C., assignor.)
Kenney, William C., assignor to Kenney Manufacturing Company, Cranston, R. I. Drapery festoon ring. 2,316,337; Apr. 13.
Kercher, Arthur J., Berkeley, Calif. Bimetal tank. 2,316,437; Apr. 13.
Kerr, Arthur N., Los Angeles, Calif., assignor to Phillips Petroleum Company. Dispensing system. 2,316,338; Apr. 13.
Kershaw, Henry, Belleville, N. J. Method of and apparatus for welding. 2,316,597; Apr. 13.
Kesselring, Fritz, F. Gieffers, W. Kaufmann, H. Neugebauer, W. Puttfarcken, R. Schimpf, and M. Zühlke, Berlin, Germany; vested in the Alien Property Custodian. Apparatus for interrupting or controlling electric currents. 2,316,170; Apr. 13.
Keyssner, Ernst. (See Reppe, W., Keyssner, and Hecht.)
Khoury, George H., Brooklyn, N. Y. Reversible fabric. 2,316,254; Apr. 13.
Kiel, Julius H., et al. (See Owen, Ira J., assignor.)
Kiel, Robert B., et al. (See Owen, Ira J., assignor.)
Killian, Donald B. (See Loder, D. J., Gresham, and Killian.)
Kinney, Selwyne P. (See Brassert, H. A., and Kinney.)
Kitani, Ryukichi, N. Takashima, and H. Kaneko, Kawasaki, Japan, assignors to General Electric Company. Polymerizing 2-halogeno-butadiene-1,3. 2,316,598; Apr. 13.
Kitsman, William L., Bartlesville, Okla., assignor to Phillips Petroleum Company. Surge suppression. 2,316,339; Apr. 13.
Klein, Friedrich. (See Meyer, L., and Klein.)
Klenke, Edward F., Jr., East Orange, N. J. Rub-out machine. 2,316,518; Apr. 13.
Klopfenstein, Jesse D., Chicago, Ill., assignor to Colorgraphic Incorporated. Steel rule slot cutting means. 2,316,650; Apr. 13.
Knapp-Monarch Company. (See Clemons, C. Wood, assignor.)
Knapp-Monarch Company. (See Moeller, George L., assignor.)
Knobel, Max, Arlington, and R. H. Packard, Newton, Mass., assignors, by mesne assignments, to General Motors Corporation, Dayton, Ohio. Anemometer. 2,316,255; Apr. 13.
Kohn, Earl J., Columbus, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Ionograph tape. 2,316,340; Apr. 13.
Kohn, George L., Van Wert, Ohio. Fish line float. 2,316,256; Apr. 13.
Kopp, Herman, Bronx, N. Y. Quick rering piston. 2,316,341; Apr. 13.
Kottmann, Arthur A., Davenport, Iowa, and E. C. Vollmer, Rock Island, Ill., assignors, by mesne assignments, to The Bettendorf Company. Slicing machine. 2,316,171; Apr. 13.
Kowniski, Frank, Jr., Fort Benning, Ga. Bullet. 2,316,172; Apr. 13.
Kozma, Ladislas. (See Haigh, L. B., and Kozma.)
Kraft Cheese Company. (See Kratz, Edouard M., assignor.)
Kramer, Frank. (See Goby, Clifford S., assignor.)
Krastin, Arnold, Cleveland, Ohio. Honing or polishing tool. 2,316,257; Apr. 13.
Kratz, Edouard M., Gary, Ind., assignor to Kraft Cheese Company. Sheet making apparatus. 2,316,173; Apr. 13.
Kregel, William C., et al. (See MacMillan, Royal J., assignor.)
Krieg, Anthony W., assignor to Cypress Novelty Corporation, Brooklyn, N. Y. Cake candle holder. 2,316,342; Apr. 13.
Kroehler Mfg. Co. (See Schaffner, Alvin J., assignor.)
Kubelka, Paul, Prague-Orechovka, and E. Reiner, Prague-Dejvice, Czechoslovakia; vested in the Alien Property Custodian. Manufacture of calcium sulphate. 2,316,343; Apr. 13.
Kuhn, Ernst. (See Kallmann, H. I., Kuhn, and Eggert.)
Kuhnert, Rudolf, Dresden, Germany; vested in the Alien Property Custodian. Motion picture reproducing system. 2,316,599; Apr. 13.
Kuhni, Leopold, Bridgeport, and J. R. Reyburn, Fairfield, Conn., assignors to Magazine Repeating Razor Company, New York, N. Y. Blade magazine. 2,316,600; Apr. 13.
Kümmel, Paul, Oranienburg, near Berlin, Germany; vested in the Alien Property Custodian. Production of softening agents. 2,316,258; Apr. 13.
Kurzen, John G., Jr., assignor to Watch Tower Bible and Tract Society, Inc., Brooklyn, N. Y. Sound reproducing device. 2,316,174; Apr. 13.
Kurzen, John G., Jr., assignor to Watch Tower Bible and Tract Society, Inc., Brooklyn, N. Y. Sound reproducing means. 2,316,175; Apr. 13.
Larabee, Benjamin, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Brick pan for boilers. 2,316,519; Apr. 13.
Lang, Henry F., assignor to The National Cash Register Company, Dayton, Ohio. Accounting machine. 2,316,520; Apr. 13.
Langbein, Werner. (See Orthner, L., and Langbein.)
Langsner, Adolph, assignor to Eugene Dietzgen Co., Chicago, Ill. Drafting apparatus. 2,316,485; Apr. 13.
Latta, Everett A., Clayton, Mo. Internal combustion engine. 2,316,697; Apr. 13.
Lavett, Charles O., assignor to Buffalo Foundry & Machine Co., Buffalo, N. Y. Atmospheric drum drier. 2,316,176; Apr. 13.
Larkin, Frederic V., Windsor, Vt., assignor to Wingfoot Corporation, Wilmington, Del. Cord plug. 2,316,601; Apr. 13.
Lea, Percy R., Stockton, Calif. Controllable pitch propeller. 2,316,438; Apr. 13.
Leaf, Sol S., assignor to Overland Candy Corporation, Chicago, Ill. Machine for making cream filled wafers. 2,316,259; Apr. 13.
Lee, Arthur L., Oakmont, assignor, by mesne assignments, to Joy Manufacturing Company, Franklin, Pa. Vehicle mounting structure. 2,316,521; Apr. 13.
Lee, Catherine W., Los Angeles, Calif. Safety garment for infants. 2,316,602; Apr. 13.
Lee, Edward C., and J. E. Ahlberg, assignors to Universal Oil Products Company, Chicago, Ill. Treatment of hydrocarbons. 2,316,260; Apr. 13.
Lees-Bradner Company, The. (See Schurr, C. H., and Warner, assignors.)
Lehmann Machine Company. (See Carter, Lionel A., assignor.)
Leighton, John W., Port Huron, Mich. Spring bolt structure. 2,316,439; Apr. 13.
Lemmers, Eugene, Cleveland Heights, Ohio, assignor to General Electric Company. Flash lamp. 2,316,344; Apr. 13.
Le Tourneau, R. G., Inc. (See Wymans, Floyd H., assignor.)
Levine, David H., New Haven, Conn. Inspecting device. 2,316,440; Apr. 13.
Levkoff, David, Brooklyn, N. Y. Folding box. 2,316,261; Apr. 13.
Lewis, David, New York, N. Y. Handbag or the like. 2,316,262; Apr. 13.
Lewis, Franklyn M., et al. (See MacMillan, Royal J., assignor.)
Lewis, Warren J., Chicago, Ill., assignor to The Ohio Brass Company, Mansfield, Ohio. Trolley crossing and switch device. 2,316,441; Apr. 13.
Lilliendahl, William C. (See Highriter, H. W., and Lilliendahl.)
Liljestrand, Walter E. (See White, R. E., Liljestrand, W. E., and Volpin.)
Lindberg, Carl A. (See Dow, D. M., Burmeister, and Lindberg.)
Lionel Corporation, The. (See Bonanno, Joseph L., assignor.)
Lionel Corporation, The. (See Ferri, Henry J., assignor.)
Little, Earl W., deceased, Indianapolis, Ind., E. W. Little, administrator. Cage. 2,316,263; Apr. 13.
Little, Edward W., administrator. (See Little, Earl W.)
Littlepage, Thomas P., Jr., Washington, D. C. Weaving frame. 2,316,698; Apr. 13.
Litton, Charles V., Redwood City, Calif., assignor to International Standard Electric Corporation, New York, N. Y. Control system for velocity modulation tubes. 2,316,264; Apr. 13.
Livar, Allen P., Dayton, Ohio, assignor to Chrysler Corporation, Detroit, Mich. Percolator boiler. 2,316,603; Apr. 13.
Loder, Donald J., and A. McAlevy, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Oxidation of organic compounds. 2,316,604; Apr. 13.
Loder, Donald J., W. F. Gresham, and D. B. Killian, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of organic esters. 2,316,605; Apr. 13.

Loder, Donald J., and W. F. Gresham, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Polycarboxylic acids. 2,316,606; Apr. 13.

Loeffler, John E., assignor to Loeffler Steam Generator Company, Houston, Tex. Rotary vapor generator. 2,316,522; Apr. 13.

Loeffler Steam Generator Company. (See Loeffler, John E., assignor.)

Logan, John, Jr., Chicago, Ill. Outside covering for buildings. 2,316,345; Apr. 13.

Lootens, Ralph H., assignor to Motor Products Corporation, Detroit, Mich. Black-out window. 2,316,442; Apr. 13.

Lord & Burnham Company. (See Blain, John, assignor.)

Luckey, William L., assignor to Tivoli Brewing Company, Detroit, Mich. Display stand. 2,316,443; Apr. 13.

Lundvall, John S., assignor to Union Asbestos & Rubber Company, Chicago, Ill. Convertible bulkhead for refrigerator cars. 2,316,265; Apr. 13.

Lycan, William H. (See Adams, F. W., and Lycan.)

Lyon, George A., Allenhurst, N. J. Making wheel trim. 2,316,346; Apr. 13.

Macdonald, Joseph R., Winchester, Mass. Packaging live lobsters. 2,316,607; Apr. 13.

MacLaren, Frederick H., Calumet City, assignor to Standard Oil Company, Chicago, Ill. Steam cylinder oil. 2,316,347; Apr. 13.

MacMillan, Royal J., assignor of one-third to F. M. Lewis and one-third to W. C. Kregel, St. Paul, Minn. Bowling score sheet display table. 2,316,444; Apr. 13.

Magazine Repeating Razor Company. (See Kuhnl, L., and Reyburn, assignors.)

Magnetest Corporation. (See Irwin, Emmett M., assignor.)

Mahlck, Gustav, East Orange, N. J. Lamp. 2,316,348; Apr. 13.

Maltby, Sidney T., assignor to Stone Straw Corporation, Washington, D. C. Making angularly bent drinking tubes. 2,316,700; Apr. 13.

Marble, Malcolm C., assignor to The Belmar Manufacturing Company, Canton, Pa. Garment hanger. 2,316,523; Apr. 13.

Mareis, Alfons, Dessau, Germany, assignor, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y. Photographic emulsion. 2,316,268; Apr. 13.

Margrave, Milton. (See Parker, A. L., Margrave, and Wolfram.)

Marr, Walter D., Flint, Mich. Handle mechanism for reels. 2,316,266; Apr. 13.

Marsh, Corbin, Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Flotation of molybdenite. 2,316,743; Apr. 13.

Marshall, John, assignor to Bendix Aviation Corporation, South Bend, Ind. Pressure regulator. 2,316,445; Apr. 13.

Marshall, Ray W., assignor to The Ohio Boxboard Company, Rittman, Ohio. Folding carton. 2,316,701; Apr. 13.

Martin, Sidney W., Chicago, Ill. Balance testing device. 2,316,524; Apr. 13.

Maruhn, Herbert, Stuttgart-Bad, Cannstatt, Germany; vested in the Alien Property Custodian. Internal combustion engine. 2,316,269; Apr. 13.

Maschinenfabrik Scharer. (See Siegenthaler, Walter, assignor.)

Mastney, Edward J., Berwyn, assignor to Oak Mfg. Co., Chicago, Ill. Preselector. 2,316,270; Apr. 13.

Mathieson Alkali Works, Inc., The. (See Gardiner, William C., assignor.)

Matsunaga, Kaoru, Kalaheo, Kauai, Territory of Hawaii. Hoe handle attachment. 2,316,446; Apr. 13.

Mattox, William J., assignor to Universal Oil Products Company, Chicago, Ill. Treatment of hydrocarbons. 2,316,271; Apr. 13.

Maurer, Kenneth G., assignor to The Durham Manufacturing Company, Muncie, Ind. Folding chair. 2,316,484 Apr. 13.

McAlevy, Ambrose. (See Loder, D. J., and McAlevy.)

McAlevy, Ambrose, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Cellulosic materials and producing same. 2,316,525; Apr. 13.

McDaniel, Ernest C., Denver, Colo. Motor trailer chassis. 2,316,702; Apr. 13.

McDonald, Albert W., Elkhart, Ind. Plastic frame for screens, ventilators, and windows. 2,316,526; Apr. 13.

McDonald, Dan, Santa Monica, Calif. Processing sulphur. 2,316,673; Apr. 13.

McFall, Thurlow E., assignor to Michigan Artcraft Company, Sparta, Mich. Trip mechanism for table leaf brace. 2,316,447; Apr. 13.

McFall, Thurlow E., assignor to Michigan Artcraft Company, Sparta, Mich. Extension table. 2,316,448; Apr. 13.

McKnight, William C. (See Olpin, H. C., and McKnight.)

McLarn, Ernest S., Manhasset, assignor to International Standard Electric Corporation, New York, N. Y. Sleeve connector. 2,316,267; Apr. 13.

McMahan, Kenton D., Schenectady, N. Y., assignor to General Electric Company. Centrifugal fan. 2,316,608; Apr. 13.

McMinn, Wiley W., Orange, N. J. Hollow tubular member. 2,316,349; Apr. 13.

McNeight, Samuel A. (See Reichert, J. S., and McNeight.)

Mears, Robert B. (See Brown, R. H., and Mears.)

Mehler, Hugo, Churchville, Pa. Fringe. 2,316,350; Apr. 13.

Mellett, Dana S., Dearborn, Mich., and G. W. Robbins, Ardmore, Pa., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Gas utilization. 2,316,744; Apr. 13.

Melzer, Julius, Bellaire, assignor to American Can Company, New York, N. Y. Conveyer. 2,316,177; Apr. 13.

Memphis Paper Co. (See Poe, George V., assignor.)

Meyer, John J., Ephrata, Wash. Runner attachment for scooters. 2,316,272; Apr. 13.

Meyer, Ludwig, and F. Klein, Dessau, Germany; vested in the Alien Property Custodian. Heater. 2,316,273; Apr. 13.

Michel, Philip C. (See Ford, W. A., and Michel.)

Michigan Artcraft Company. (See McFall, Thurlow E., assignor.)

Micromatic Hone Corporation. (See Harris, William H., Jr., assignor.)

Mieras, Merritt A., Redford Township, Wayne County, assignor to Industrial Wire Cloth Products Company, Wayne, Mich. Combined air cleaner and silencer. 2,316,527; Apr. 13.

Miles, Ewell C., Springdale, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Door fitting. 2,316,528; Apr. 13.

Miller, Michael A., New York, N. Y. Ornamental sheet leather. 2,316,351; Apr. 13.

Miller, Robert A., Tarentum, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Glass tray. 2,316,529; Apr. 13.

Miner, Robert V., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Article supporting rack. 2,316,609; Apr. 13.

Miner, W. H., Inc. (See Olander, Roland J., assignor.)

Minerals and Metals Corporation. (See Brassert, H. A., and Hartley, assignors.)

Minerals and Metals Corporation. (See Brassert, H. A., and Kinney, assignors.)

Minns, Rupert G., and H. T. Tornberg, assignors to National Rubber Machinery Company, Akron, Ohio. Vulcanizing press. 2,316,352; Apr. 13.

Mission Manufacturing Company. (See Garrison, Ranald M., assignor.)

Mission Manufacturing Company. (See White, R. E., Liljestrand and Volpin, assignors.)

Mitchell, James A., Kenmore, N. Y., assignor to E. I. du Pont de Nemour & Company, Wilmington, Del. Coating and production of coated structures. 2,316,274; Apr. 13.

Moe, William W., Bridgeport, Conn., assignor to General Electric Company. Frequency converter. 2,316,610; Apr. 13.

Moeller, George L., assignor to Knapp-Monarch Company, St. Louis, Mo. Commutator structure. 2,316,651; Apr. 13.

Moeller, George L., assignor to Knapp-Monarch Company, St. Louis, Mo. Commutator structure and method of forming the segments thereof. 2,316,652; Apr. 13.

Moessinger, Albert, assignor to Sulzer Frères, Société Anonyme, Winterthur, Switzerland. Loom for weaving. 2,316,703; Apr. 13.

Molony, Harry S. (See Swarens, R. B., Attula and Molony.)

Moore, Paul B., assignor to York Ice Machinery Corporation, York, Pa. Air conditioner. 2,316,704; Apr. 13.

Moorhead, Charles L., Lakewood, Ohio. Dust bag attachment for suction cleaners. 2,316,353; Apr. 13.

Morgan, Harry S. (See Morgan, J. S., Gammon and Morgan.)

Morgan, John S., Rodridge Hall, near Wingate, J. C. Gammon, London, and H. S. Morgan, Rochester, England. Production of fluent cement or cement grout. 2,316,705; Apr. 13.

Morgensen, Otto, Jr., Dayton, Ohio. Airplane wheel chock. 2,316,178; Apr. 13.

Moritz, Burt E., Jr., Houston, Tex., assignor to Stanolind Oil and Gas Company, Tulsa, Okla. Gain control. 2,316,354; Apr. 13.

Morris Paper Mills. (See Powell, Henry K., assignor.)

Moseley, Mabel R., New Iberia, La. Cross hairpin. 2,316,179; Apr. 13.

Motor Products Corporation. (See Lootens, Ralph H., assignor.)

Motz, Hans, London, England, assignor to International Standard Electric Corporation, New York, N. Y. Electron discharge apparatus. 2,316,276; Apr. 13.

Mounce, Whitman D. (See Thompson, R. R., and Mounce.)

Mueller-Cunradi, Martin, and W. Daniel, Ludwigshafen-on-the-Rhine, Germany, assignors to Jasco Incorporated. Plastic compositions containing polyisobutylene. 2,316,706; Apr. 13.

Mueller, Paul M., assignor to Revere Copper and Brass Incorporated, Rome, N. Y. Mold. 2,316,180; Apr. 13.

Muskat, Irving E., and R. H. Taylor, Akron, Ohio, assignors to Pittsburgh Plate Glass Company, Alleghany County, Pa. Chlorination of metal bearing materials. 2,316,275; Apr. 13.

Myers, Joseph W., assignor to Proctor & Schwartz, Inc., Philadelphia, Pa. Toaster-coated unit. 2,316,699; Apr. 13.

Napier, D., & Son, Limited. (See Tryon, Henry C., assignor.)

National Broach & Machine Company. (See Drummond, Robert S., assignor.)

National Cash Register Company, The. (See Doelker, W. J., and Oswald, assignors.)

National Cash Register Company. (See Lang, Henry F., assignor.)

National Electric Products Corporation. (See Huguelet, John E., assignor.)

National Lock Co. (See Burke, William O., assignor.)

National Rubber Machinery Company. (See Minns, R. G., and Tornberg, assignors.)

National Rubber Machinery Company. (See Shook, Florian J., assignor.)

Nesbit, Charles H., Harvey, N. Dak. Clamping apparatus for optical frames. 2,316,355; Apr. 13.

Nette, Henry C., Rutherford, and M. L. Taylor, West Englewood, N. J., assignors to Bendix Aviation Corporation, South Bend, Ind. Fluid motor. 2,316,356; Apr. 13.

Neugebauer, Hermann. (See Kesselring, F., Gieffers, Kaufmann, Neugebauer, Puttfarcken, Schimpf and Zühlke.)

Neuse, Wilhelm, Finkenkrug, Kreis Osthavelland, Germany; vested in the Alien Property Custodian. Expansion thermometer. 2,316,611; Apr. 13.

Newell, Heber L., Straford, Conn., assignor to General Electric Company. Control device. 2,316,612; Apr. 13.

Nichols, Ernest H., Hagerstown, Md. Preparing bituminous coating mixtures. 2,316,357; Apr. 13.

Nickle, Clifford A., Schenectady, N. Y., assignor to General Electric Company. Flash powder and preparation. 2,316,358; Apr. 13.

Nilsen, Torval W., Snelling, Calif. Crank unit. 2,316,530; Apr. 13.

Nivling, Lyman E., et al., administrator. (See Nivling, Walter, A.)

Nivling, Owen C., et al., administrator. (See Nivling, Walter, A.)

Nivling, Walter A., Newton, Mass., deceased, Lyman E. Nivling and Owen C. Nivling, administrators. Sizing and coating apparatus. 2,316,531; Apr. 13.

Nordberg Manufacturing Company. (See Symons, Loren G., assignor.)

Norris, Eric D. T., Hollinwood, England, assignor to Ferranti Electric Incorporated, New York, N. Y. Control of automatic voltage regulators. 2,316,707; Apr. 13.

Nystrom, Axel C., Rutherford, and L. G. Wade, Westfield, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Strand handling apparatus. 2,316,613; Apr. 13.

Oak Mfg. Co. (See Mastney, Edward J., assignor.)

Ocker, William C., Baltimore, Md., and C. J. Crane, Barksdale Field, Shreveport, La. Pre-flight reflex and gunnery trainer. 2,316,181; Apr. 13.

Ohio Boxboard Company, The. (See Marshall, Ray W., assignor.)

Ohio Brass Company, The. (See Lewis, Warren J., assignor.)

Ohio Brass Company, The. (See Smoot, L. V., and Bachler, assignors.)

Olander, Roland J., assignor to W. H. Miner, Inc., Chicago, Ill. Door fastener. 2,316,359; Apr. 13.

Oliver, Harvey G., administrator. (See Jarboe, Elmer L.)

Olpin, Henry C., and W. C. McKnight, Spondon, near Derby, England, assignors to Celanese Corporation of America. Discharge printing organic derivatives of cellulose. 2,316,277; Apr. 13.

Ormond, John J., assignor of two-thirds to J. D. Ramsey, Boston, Mass. Printing. 2,316,708; Apr. 13.

Orshansky, Elias, Jr., University Heights, assignors to The Acrotorque Company, Cleveland, Ohio. Drive. 2,316,278; Apr. 13.

Orthner, Ludwig, and W. Langbein, Frankfort-on-the-Main, Germany; vested in the Alien Property Custodian. Sulphonic acids and process of preparing them. 2,316,538; Apr. 13.

Osborn Manufacturing Company, The. (See Peterson, Ruben O., assignor.)

Osbrink, Raymond H., Los Angeles, Calif. Apparatus for manufacturing mold members. 2,316,279; Apr. 13.

Osbrink, Raymond H., Los Angeles, Calif. Apparatus for producing castings. 2,316,280; Apr. 13.

O'Shea, Thomas F., Chicago, Ill. Garbage retort receptacle and garbage disposal system. 2,316,360; Apr. 13.

Oswald, George J. (See Doelker, W. J., and Oswald.)

Overland Candy Corporation. (See Leaf, Sol S., assignor.)

Overton, Francis W. (See Bruker, H. W., and Overton.)

Owen, Ira J., Winnetka, assignor of one-third to J. H. Kiel and one-third to R. B. Kiel, both of Wilmette, Ill. Carpet sweeper. 2,316,709; Apr. 13.

Owen, William, Pittsburgh, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Apparatus for removing marginal portions of glass units. 2,316,532; Apr. 13.

Pacific Plastic & Manufacturing Company. (See Swarens, R. B., Attula and Molony, assignors.)

Packard, John A., assignor to The Belmar Manufacturing Company, Canton, Pa. Garment hanger. 2,316,533; Apr. 13.

Packard, Robert H. (See Knobel, M., and Packard.)

Page, John, Wilmette, assignor to United States Gypsum Company, Chicago, Ill. Apparatus for producing mineral wool. 2,316,451; Apr. 13.

Pallard, E., et Cie S. A. (See Prezioso, Guiseppe, assignor.)

Pallas, Leota T. (See Ilmer, L., and Pallas.)

Park, Malcolm S., Mount Kisco, N. Y., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Supporting base for electric scissors. 2,316,486; Apr. 13.

Parke, Peter, assignor to The Pullman Company, Chicago, Ill. Railway sleeping car. 2,316,710; Apr. 13.

Parker, Arthur L., W. Margrave, and J. N. Wolfram, Cleveland, Ohio, said Margrave and said Wolfram, assignors to said Parker. Tube coupling. 2,316,711; Apr. 13.

Parker, John W., Detroit, Mich. Bearing. 2,316,449; Apr. 13.

Parks, Frank H., Portland, Oreg. Protractor. 2,316,534; Apr. 13.

Parnell, Frank G., assignor to Automotive Products Company Limited, Leamington Spa, England. Brake for vehicles. 2,316,450; Apr. 13.

Parsons, Philip D., Swarthmore, assignor to Scott Paper Company, Chester, Pa. Dispensing machine. 2,316,182; Apr. 13.

Patch, Allen J., Ripon, Wis. Constant pressure wringer. 2,316,281; Apr. 13.

"Patchem A.-G. Zur Beteiligung An Patenten und Sonstigen Erfindungsrechten auf Chemische Verfahren." (See Hentrich, W., Kaiser and Endres, assignors.)

Patterson, Henry M., Baltimore, Md. Street sign. 2,316,539; Apr. 13.

Patterson, Morehead, New York, N. Y., assignor to American Machine and Foundry Company. Pin setter for bowling alleys. 2,316,183; Apr. 13.

Penn Electric Switch Co. (See Rothwell, John J., assignor.)

Pennsylvania Manufacturing Company. (See Gade, Harald F., assignor.)

Peremi, Edmund, Manhasset, and A. Webel, Jamaica, assignors to General Bronze Corporation, Long Island City, N. Y. Governor for revolving doors. 2,316,184; Apr. 13.

Peterson, Ruben O., South Euclid, assignor to The Osborn Manufacturing Company, Cleveland, Ohio. Rotary brush. 2,316,185; Apr. 13.

Pfeil, William C., Chicago, Ill. Apparatus for cutting ice. 2,316,282; Apr. 13.

Pfenninger, Hans, Wettingen, assignor to Aktiengesellschaft Brown, Boverie & Cie, Baden, Switzerland. Axial blower. 2,316,452; Apr. 13.

Phillips Petroleum Company. (See Benz, G. R., and Zeigler, assignors.)

Phillips Petroleum Company. (See Garretson, Owen L., assignor.)

Phillips Petroleum Company. (See Kerr, Arthur N., assignor.)

Phillips Petroleum Company. (See Kitsman, William L., assignor.)

Phillips Petroleum Company. (See Piety, Raymond G., assignor.)

Phillips Petroleum Company. (See Thomas, Rosswell W., assignor.)

Phillips, Terrence N. D. (See Baum, F. E., and Phillips.)

Pierce, Harold C., Pomona, Calif. System and truck for loading boxed produce. 2,316,614; Apr. 13.

Piety, Raymond G., Bartlesville, Okla., assignor to Phillips Petroleum Company. Method and apparatus for surveying wells. 2,316,361; Apr. 13.

Pines, Herman. (See Ipatieff, V. N., and Pines.)

Piper, Henry S., Minneapolis, Minn. Display frame. 2,316,615; Apr. 13.

Piperoux, Rene P., Radburn, N. J., and D. G. Soussloff, New York, N. Y., assignors, by mesne assignments, to Celanese Corporation of America. Preparation of plastic molding material. 2,316,283; Apr. 13.

Pittsburgh Plate Glass Company. (See Adams, F. W., and Lycan, assignors.)

Pittsburgh Plate Glass Company. (See Freeman, Stephen E., assignor.)

Pittsburgh Plate Glass Company. (See Miles, Ewell C., assignor.)

Pittsburgh Plate Glass Company. (See Miller, Robert A., assignor.)

Pittsburgh Plate Glass Company. (See Muskat, I. E., and Taylor, assignors.)

Pittsburgh Plate Glass Company. (See Owen, William, assignor.)

Place, Willard P. (See Agnew, N. F., and Place.)

Ploeger, Clyde E., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Refrigeration. 2,316,284; Apr. 13.

Poe, G. Vaughn, assignor to Memphis Paper Company, Memphis, Tenn. Paper box. 2,316,362; Apr. 13.

Polzer, Charles G. (See Huckle, W. G., and Polzer.)

Powell, Frederic K., Schenectady, N. Y., assignor to General Electric Company. Vibration responsive device. 2,316,616; Apr. 13.
Powell, Henry K., assignor to Morris Paper Mills, Chicago, Ill. Bottle holder. 2,316,186; Apr. 13.
Powers, Milton A., Detroit, Mich. Cellular glass and process for its manufacture. 2,316,749; Apr. 13.
Pratt, Malcolm F., and H. G. Berger, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Polymerization of oiticica oil. 2,316,187; Apr. 13.
Prebilt Housing Corporation. (See Hasenburger, H., and Corbett, assignors.)
Premier Thread Company. (See Giglio, Antonio J., assignor.)
Preston, Alice H. (See Hulick, Walter L., assignor.)
Prezioso, Giuseppe, assignor to E. Paillard et Cie S. A., Yverdon, Switzerland. Typewriter casing. 2,316,617; Apr. 13.
Prince, Richard E., and J. T. Edwards, Columbus, Ohio. Soil retaining wall for basement windows. 2,316,712; Apr. 13.
Procter, Anthony, Newcastle-upon-Tyne, England. Fluid-sealing and dust-excluding device for shafts, bearings, and the like. 2,316,713; Apr. 13.
Procter & Gamble Company, The. (See Wolter, Erhart, assignor.)
Proctor & Schwartz, Inc. (See Myers, Joseph W., assignor.)
Pullman Company, The. (See Parke, Peter assignor.)
Puttfarcken, Wilhelm. (See Kesselring, F., Gieffers, Kaufmann, Neugebauer, Puttfarcken, Schimpf, and Zühlke.)
Pyatt, Burley A., Fort Crook, Nebr. Internal combustion engine. 2,316,618; Apr. 13.
Quinn, Edward, Saugus, and A. L. Jalbert, Haverhill, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J. Shoe quarter and forming same. 2,316,363; Apr. 13.
Radio Corporation of America. (See Baum, F. E., and Phillips, assignors.)
Radio Corporation of America. (See Brown, George H., assignor.)
Radio Corporation of America. (See Crosby, Murray G., assignor.)
Radio Corporation of America. (See Rice, Percy F., assignor.)
Radio Corporation of America. (See Roberts, Walter van B., assignor.)
Radio Corporation of America. (See van Slooten, J., and van Ingen Schenau, assignors.)
Raiche, Paul A., Providence, R. I., assignor to Davol Rubber Company. Apparatus for manufacturing tubing. 2,316,715; Apr. 13.
Rambusch Decorating Company. (See Anderson, V. G., and Rambusch, assignors.)
Rambusch, Harold W. (See Anderson, V. G., and Rambusch.)
Ramsey, Joseph D. (See Ormond, John J., assignor.)
Ramsey, Justin H., Allendale, N. J. Securing means for elements of extrusion machines. 2,316,720; Apr. 13.
Ranco Incorporated. (See Raney, Estel C., assignor.)
Raney, Estel C., assignor to Ranco Incorporated, Columbus, Ohio. Connector. 2,316,285; Apr. 13.
Raney, Estel C., assignor to Ranco Incorporated, Columbus, Ohio. Control apparatus. 2,316,286; Apr. 13.
Raney, Estel C., assignor to Ranco Incorporated, Columbus, Ohio. Control system. 2,316,619; Apr. 13.
Ray, Carlo, and D. Ray, Beverly Hills, Calif. Closure member. 2,316,453; Apr. 13.
Ray, Don. (See Ray, Carlo and Don.)
Redmond, A. G., Company. (See Hoddy, Joseph S., assignor.)
Rees, Gregory L., La Grange Park, assignor to Edison General Electric Appliance Company, Inc., Chicago, Ill. Roasting rack. 2,316,620; Apr. 13.
Reichert, Joseph S., and S. A. McNeight, Niagara Falls, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Container for the storage of solutions of peroxygen compounds. 2,316,487; Apr. 13.
Reid, Emerson J., Kansas City, Mo., and J. W. Taylor, Kansas City, Kans.; said Taylor assignor to Hume Manufacturing Company, North Kansas City, Mo. Case carrier for bottles. 2,316,454; Apr. 13.
Reider, Malcolm J., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Leather treating agent. 2,316,714; Apr. 13.
Reiner, E. (See Kubelka, P., and Reiner.)
Renner, Herbert O., Des Plaines, assignor, by mesne assignments, to J. R. Short Milling Company, Chicago, Ill. Treating edible oils or fats. 2,316,621; Apr. 13.
Reppe, Walter, E. Keyssner, and O. Hecht, Ludwigshafen-on-the-Rhine, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y. Condensation products of acetylene with dimethylol urea. 2,316,653; Apr. 13.
Research Corporation. (See Barrow, Wilmer L., assignor.)
Revere Copper and Brass Incorporated. (See Mueller, Paul M., assignor.)
Reyburn, John R. (See Kuhnl, L., and Reyburn.)
Rhodes, M. H., Inc. (See Rhodes, Marcus H., assignor.)
Rhodes, Marcus H., assignor to M. H. Rhodes, Inc., Hartford, Conn. Timing device. 2,316,364; Apr. 13.
Ribas, Jose M., Buenos Aires, Argentina. Thermoelectric apparatus for heating compounds used for dental impressions. 2,316,287; Apr. 13.
Rice, Percy F., Tustin, Calif., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Control means for radio apparatus. 2,316,365; Apr. 13.
Richard, Paul A., Chéby, France; vested in the Alien Property Custodian. Fuselage of aircrafts. 2,316,622; Apr. 13.
Richardson, Frederick P., Klickitat, Wash. Wrench. 2,316,455; Apr. 13.
Ries, Herman J., New York, asignor to P. W. Valentine, Brooklyn, N. Y. Luggage. 2,316,716; Apr. 13.
Ries, Herman J., New York, assignor to P. W. Valentine, Brooklyn, N. Y. Luggage. 2,316,717; Apr. 13.
Robbins, Geoffrey W. (See Mellett, D. S., and Robbins.)
Roberts, Walter van B., Princeton, N. J., assignor to Radio Corporation of America. Loop antenna system. 2,316,623; Apr. 13.
Robertson, Campbell, and A. J. Deyrup, Westfield, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Ceramic decorating composition. 2,316,745; Apr. 13.
Robes, Ernest C., Jr., Etna, assignor of one-half to F. P. Carr and E. C. Gordon, Jr., Lebanon, N. H. Convertible carrier equipment. 2,316,456; Apr. 13.
Rohm & Haas Company. (See Stallings, James W., assignor.)
Rolker, Edwin. (See Huntley, G. J., and Rolker.)
Romanelli, Emilio, Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Apparatus for determination of moisture in gases. 2,316,624; Apr. 13.
Roper, Geo. D., Corporation. (See Collier, Winthrop F., assignor.)
Rose, John J., Dayton, Ohio. Ignition timing device. 2,316,188; Apr. 13.
Roth, Frank, Pelham Manor, N. Y. Bimetal valve. 2,316,488; Apr. 13.
Rothenberger, Lyle W., Brunswick, Ga., assignor to Hercules Powder Company, Wilmington, Del. Terpene halo-alkyl-ether-amine condensation product. 2,316,625; Apr. 13.
Rothwell, John J., Elkhart, assignor to Penn Electric Switch Co., Goshen, Ind. Control device. 2,316,626; Apr. 13.
Royce, Henry B., Birmingham, Mich. Paper box. 2,316,457; Apr. 13.
Royer, William R., Wilkes-Barre, Pa. Tire chain. 2,316,718; Apr. 13.
Russell, Kenneth L., Nutley, assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Purification of organic substances. 2,316,719; Apr. 13.
Rüttenauer, Alfred, and O. Fritze, Berlin-Wilmersdorf, Germany, assignors to General Electric Company. Fluorescent material. 2,316,366; Apr. 13.
Salomon, François M. M. B., Paris, France; vested in the Alien Property Custodian. Device for preventing speed oscillations and vibrations of the rotary members of machines. 2,316,288; Apr. 13.
Sandstrom, Per N., Chicago, Ill. Current responsive protective relay system. 2,316,289; Apr. 13.
Sang, Henry J., Moylan, Pa. Computing device. 2,316,627; Apr. 13.
Scalise, Oreste, New York, N. Y. Preparing soybeans. 2,316,458; Apr. 13.
Schaefer, Timothy A., West Allis, Wis., assignor to Industrial Engineering Co. Inc., Minneapolis, Minn. Protractor. 2,316,189; Apr. 13.
Schaffner, Alvin J., Aurora, assignor to Kroehler Mfg. Co., Naperville, Ill. Laminated flexwood spring for chair seats. 2,316,628; Apr. 13.
Schenbeck, Rufus, Toledo, Ohio. Coal chute carrier. 2,316,290; Apr. 13.
Schering Corporation. (See Schoeller, W., Hildebrandt, and Schwenk, assignors.)
Schimpf, Robert. (See Kesselring, F., Gieffers, Kaufmann, Neugebauer, Puttfarcken, Schimpf, and Zühlke.)
Schmidt, Harlow L., and H. C. French, assignors to The Heil Co., Milwaukee, Wis. Rotary drier. 2,316,459; Apr. 13.
Schmitz, Hilger P., Munich, Germany; vested in the Alien Property Custodian. Printing ink. 2,316,629; Apr. 13.
Schneider, Wilhelm, Dessau, and G. Wilmanns, Wolfen, Kreis Bitterfeld, Germany, assignors to General Aniline & Film Corporation, New York, N. Y. Retouching of subtractive multicolor images. 2,316,291; Apr. 13.
Schoeller, Walter, Berlin-Westend, F. Hildebrandt, Hohen Neuendorf near Berlin, Germany, and E. Schwenk, assignors to Schering Corporation, Bloomfield, N. J. Acyl derivatives of germinal gland hormone preparations of high activity and producing the same. 2,316,190; Apr. 13.
Schoenky, Otto B., Los Angeles, Calif. Grease retainer for crankpin bearings. 2,316,460; Apr. 13.
Scholfield, Richard P., assignor to Scholfield Service, Inc., New York, N. Y. Filing apparatus. 2,316,489; Apr. 13.
Scholfield Service, Inc. (See Scholfield, Richard P., assignor.)

Schönfeld, Wilhelm, Berlin, Germany; vested in the Alien Property Custodian. Regulator resistance. 2,316,292; Apr. 13.
Schrey, Kurt G. (See Spicer, W. E., and Schrey.)
Schubert, Edward F., Keenesburg, Colo. Tire pressure signal. 2,316,461; Apr. 13.
Schulerud, Albert L. (See Heald, R. F., and Schulerud.)
Schultze, Irmgard. (See Karlsson, George L., assignor.)
Schurr, Charles H., and H. C. Warner, assignors to The Lees-Gradner Company, Cleveland, Ohio. Hobbing machine. 2,316,367; Apr. 13.
Schuster, Fritz, Chemnitz, Germany; vested in the Alien Property Custodian. Collecting device. 2,316,630; Apr. 13.
Schwartz, Jacob D., Pittsburgh, Pa. Method of and apparatus for making dentures. 2,316,631; Apr. 13.
Schwartz, Myron E., Two Rivers, Wis. Combination milk filter. 2,316,721; Apr. 13.
Schweitzer & Conrad, Inc. (See Triplett, Hugh A., assignor.)
Schwenk, Erwin. (See Schoeller, W., Hildebrandt, and Schwenk.)
Scott, Clifton A., assignor to Sun-Ray Heater Company, North Miami Beach, Fla. Solar heater. 2,316,191; Apr. 13.
Scott Paper Company. (See Parsons, Philip D., assignor.)
Scott, Thomas R., London, England, assignor to International Standard Electric Corporation, New York, N. Y. Electric power cable. 2,316,293; Apr. 13.
Scott, Walton B. (See Beanblossom, J. E., and Scott.)
Sease, Virgil B., New Brunswick, and D. R. White, South River, N. J., assignors, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Obtaining individual color-component records from multilayer differentially color-sensitized film elements. 2,316,294; Apr. 13.
Secretary of Agriculture of the United States of America, Claude R. Wickard, and to his successors in office. (See Hendrickson, Bertram H., assignor.)
Sells, Neal S., Hoopeston, Ill., assignor to Food Machinery Corporation, San Jose, Calif. Vegetable peeling machine. 2,316,368; Apr. 13.
Semar, Harold W., Drexel Hill, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Gear grinding apparatus. 2,316,490; Apr. 13.
Servel, Inc. (See Ploeger, Clyde E., assignor.)
Shakespeare Company. (See Burdick, Frank, assignor.)
Shaw, Hwey J., Shanghai, China; vested in the Alien Property Custodian. Match and cigarette holder. 2,316,295; Apr. 13.
Shook, Florain J., assignor to National Rubber Machinery Company, Akron, Ohio. Tire-building apparatus. 2,316,369; Apr. 13.
Short, J. R., Milling Company. (See Renner, Herbert O., assignor.)
Shutt, Richard S. (See Bearse, A. E., and Shutt.)
Siegenthaler, Walter, asssignor to the firm Maschinenfabrik Schärer, Erlenbach, near Zurich, Switzerland. Winding machine having a plurality of winding spindles. 2,316,462; Apr. 13.
Signal Engineering & Manufacturing Company. (See Wheelock, J. H., and Cypser, assignors.)
Silver Globe Corporation, The. (See Busi, Marion, assignor.)
Simmons, Edward E., Jr., Pasadena, Calif. Strain responsive apparatus. 2,316,203; Apr. 13.
Simonds, Warren J., assignor to Rodney Hunt Machine Company, Orange, Mass. Tank construction. 2,316,296; Apr. 13.
Sinclair, Frank E., Claremont, N. H., assignor to Sullivan Machinery Company. Feeding mechanism. 2,316,192; Apr. 13.
Singer Manufacturing Company, The. (See Park, Malcolm S., assignor.)
Skulina, Raymond, Chicago, Ill. Bird's pulley lunch box. 2,316,463; Apr. 13.
Smart, Irving O., Portland, Maine. Cabinet construction. 2,316,632; Apr. 13.
Smith, Clarence H., Claysville, Pa. Hay baler. 2,316,722; Apr. 13.
Smith, Claude H., Talmadge, Ohio, assignor to Wingfoot Corporation, Wilmington, Del. Production of hydrogen chloride. 2,316,633; Apr. 13.
Smith, Franklin S., New Haven, Conn. Apparatus for sterilizing flour and like products. 2,316,193; Apr. 13.
Smith, John S., Hazel Crest, and F. Dawson, Chicago Heights, Ill., assignors to D. L. Tressler, as trustee. Transformer. 2,316,370; Apr. 13.
Smoot, Leonard V., Newport, Ky., and H. A. Bachler, Cincinnati, assignors to The Ohio Brass Company, Mansfield, Ohio. Support for trolley wires. 2,316,464; Apr. 13.
Socony-Vacuum Oil Company. (See Mellett, D. S., and Robbins, assignors.)
Socony-Vacuum Oil Company. (See Pratt, M. F., and Berger, assignors.)
Sorenson, Nels C., Findlay, Ohio. Wrecking bar with ladder hook. 2,316,723; Apr. 13.
Soundscriber Corporation, The. (See Thompson, Lincoln, assignor.)
Soussloff, Dimitrie G. (See Piperoux, R. P., and Soussloff.)
Southerland, Beverly A., Charlotte and F. V. Taylor, Murphy, N. C. Surgical instrument. 2,316,297; Apr. 13.
Southern Steel Company. (See White, Loyd J., assignor.)
Spear, Walter A., assignor to Victor Electric Products, Inc., Cincinnati, Ohio. Ventilating fan. 2,316,634; Apr. 13.
Sperry, Pierce, Middlefield, Ohio. Outlet connector with strainer for tanks. 2,316,724; Apr. 13.
Spicer, William E., and K. G. Schrey, Baton Rouge, La., assignors to Standard Oil Development Company. Preparing catalyst. 2,316,726; Apr. 13.
Staak, Julius H., Fort Wayne, Ind., assignor to General Electric Company. Rotatable electrical device. 2,316,635; Apr. 13.
Stallings, James W., Haddon Heights, N. J., assignor to Rohm & Haas Company, Philadelphia, Pa. Floor and wall covering. 2,316,746; Apr. 13.
Stamm, Roger W. (See Constable, J. M., and Stamm.)
Standard Oil Company. (See MacLaren, Frederick H., assignor.)
Standard Oil Development Company. (See Hewlett, Amlot P., assignor.)
Standard Oil Development Company. (See Spicer, W. E., and Schrey, assignors.)
Standard Oil Development Company. (See Thompson, R. R., and Mounce, assignors.)
Standard Steel Works. (See Bliss, Carl G., assignor.)
Stanolind Oil and Gas Company. (See Moritz, Burt E., Jr., assignor.)
Stark, Stephen. (See Kahle, H., and Stark.)
Staudinger, Hanns P., Ewell, and K. H. W. Tuerck, Banstead, England, assignors to The Distillers Company Limited, Edinburgh, Scotland. Production of condensation products of ketene. 2,316,465; Apr. 13.
Stephens, Robert S., Decatur, Ill. Traveling tool carrier. 2,316,747; Apr. 13.
Stewart-Warner Corporation. (See Farr, Willard H., assignor.)
Stone Straw Corporation. (See Maltby, Sidney T., assignor.)
Storer, Norman W., Lawrence, Kans. Instrument for the simultaneous direct determination of latitude and local sidereal time from a single setting on the night sky. 2,316,466; Apr. 13.
Stover, Harry E., Connellsville, Pa., assignor to Anchor Hocking Glass Corporation, Lancaster, Ohio. Conveyer for container sealing apparatus. 2,316,654; Apr. 13.
Strother, Corneille O., Buffalo, N. Y., assignor to Carbide and Carbon Chemicals Corporation. Plastic compositions. 2,316,371; Apr. 13.
Strunk, Ernst, Berlin-Wilmersdorf, Germany; vested in the Alien Property Custodian. Casting mold for synthetic materials. 2,316,298; Apr. 13.
Sturken, Oswald C. H., Closter, N. J., assignor to Corn Products Refining Company, New York, N. Y. Forming a laminated products. 2,316,467; Apr. 13.
Sugar, Samuel, Chicago, Ill. Uniform cap washing and drying form. 2,316,372; Apr. 13.
Sullivan Machinery Company. (See Curtis, J. C., and Gartin, assignors.)
Sullivan Machinery Company. (See Sinclair, Frank E., assignor.)
Sulzer Frères, Société Anonyme. (See Moessinger, Albert, assignor.)
Sundgren, Ruth S. M. (See Walldén, S. J., and Sundgren-Walldén, née Sundgren.)
Sundgren-Walldén, Ruth S. M., née Sundgren. (See Walldén, S. J., and Sundgren-Walldén, née Sundgren.)
Sun-Ray Heater Company. (See Scott, Clifton A., assignor.)
Swank, Inc. (See Voos, Walter H., assignor.)
Swarens, Roy B., E. F. Attula, and H. S. Molony, assignors to Pacific Plastic & Manufacturing Company, Inc., Los Angeles, Calif. Spindle lock. 2,316,493; Apr. 13.
Swift, Claude E. (See Bray, U. B., and Swift.)
Symons, Loren G., Hollywood, Calif., assignor to Nordberg Manufacturing Company, Milwaukee, Wis. Vibrating screen. 2,316,725; Apr. 13.
Takashima, Naoichi. (See Kitani, R., Takashima, and Kaneko.)
Tarring, Robert E. (See Edwards, LeR. V., Tarring, and Weiss, Jr.)
Taylor, Frank V. (See Southerland, B. A., and Taylor.)
Taylor, John W. (See Reid, E. J., and Taylor.)
Taylor, Myron L. (See Nette, H. C., and Taylor.)
Taylor, Robert H. (See Muskat, I. E., and Taylor.)
Teeters, Wilber O., Roselle, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polycarboxylic acids. 2,316,636; Apr. 13.
Teichner, Rudolph R., Jackson Heights, assignor to Western Electric Company, Incorporated, New York, N. Y. Gas handling apparatus. 2,316,491; Apr. 13.
Texaco Development Corporation. (See Hare, Donald G. C., assignor.)
Texas Company, The. (See Hare, Donald G. C., assignor.)
Thomas, Rosswell W., Birmingham, Mich., assignor to Phillips Petroleum Company. Automatic change-over regulator for liquefied petroleum gas equipment. 2,316,373; Apr. 13.
Thomas, Stanley R., Lyons, Mich.; assignor to Bantam Bearings Corporation, South Bend, Ind. Bearing assembly. 2,316,468; Apr. 13.

Thomas, William D., Jr. (See Cook, E. W., and Thomas, Jr.)
Thompson, Archibald W., Bromley, England. Dielectric composition. 2,316,299; Apr. 13.
Thompson, Lincoln, Cheshire, assignor to The Soundscriber Corporation, New Haven, Conn. Phonograph record scanning device. 2,316,637; Apr. 13.
Thompson, Lonnie L., Iowa Park, Tex. Wire line guide. 2,316,727; Apr. 13.
Thompson, Robert R., and W. D. Mounce, Houston, Tex., assignors to Standard Oil Development Company. Gun perforator. 2,316,728; Apr. 13.
Thor, Nils G., Clifton, assignor to The Hamersley Manufacturing Company, Garfield, N. J. Cardboard box. 2,316,469; Apr. 13.
Timken Roller Bearing Company, The. (See Curtis, George W., assignor.)
Tipton, Raymond, assignor to W. C. Dillon & Company, Inc., Chicago, Ill. Oil well pump controller. 2,316,494; Apr. 13.
Tivoli Brewing Company. (See Luckey, William L., assignor.)
Toland, William C., trustee. (See Bassist, Ellis, assignor.)
Toone, Gilbert C., and L. H. Flett, Hamburg, N. Y., assignors to Allied Chemical & Dye Corporation. Detergent compositions. 2,316,194; Apr. 13.
Tornberg, Henning T. (See Minns, R. G., and Tornberg.)
Townsend, Roy C., La Crosse, Wis. Vehicle supporting truck. 2,316,374; Apr. 13.
Trager, Leon, assignor to Worthington-Gamon Meter Company, Newark, N. J. Fluid meter. 2,316,492; Apr. 13.
Transportation Specialties Company. (See Johnston, Charles S., assignor.)
Trekell, Harold E., Wakefield, Mass., assignor to General Electric Company. Induction meter. 2,316,638; Apr. 13.
Tressler, David L., trustee. (See Smith, J. S., and Dawson, assignors.)
Trico Products Corporation. (See Horton, Erwin C., assignor.)
Triplett, Hugh A., Wilmette, assignor to Schweitzer & Conrad, Inc., Chicago, Ill. Switch construction. 2,316,470; Apr. 13.
Troxel Manufacturing Company, The. (See Kalter, Harold E., assignor.)
Troxler, Bernhart, Kenvil, N. J., assignor to Hercules Powder Company, Wilmington, Del. Apparatus for the manufacture of smokeless powder. 2,316,195; Apr. 13.
Tryon, Henry C., assignor to D. Napier & Son Limited, London, England. Tank for use in aircraft. 2,316,729; Apr. 13.
Tucker, Harold, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Uolyvinyl halide composition. 2,316,196; Apr. 13.
Tucker, Harold, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Polyvinyl halide composition. 2,316,197; Apr. 13.
Tucker, Warren R., Dayton, Ohio, assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del. Full automatic press control. 2,316,471; Apr. 13.
Tuerck, Karl H. W. (See Staudinger, H. P., and Tuerck.)
Tuerck, Karl H. W., Banstead, England, assignor to The Distillers Company Limited, Edinburgh, Scotland. Manufacture of vinyl esters. 2,316,472; Apr. 13.
Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Protector finger for looms. 2,316,473; Apr. 13.
Udale, Stanley M., Detroit, Mich., assignor to George M. and Earl Holley. Control for fuel supplies. 2,316,300; Apr. 13.
Ullman, P., St. Louis, Mo. Illuminated magnifying lens and reading glass. 2,316,301; Apr. 13.
Union Asbestos & Rubber Company. (See Lundvall, John S., assignor.)
Union Oil Company of California. (See Bray, U. B., and Swift, assignors.)
Union Steel Products Company. (See Butters, Leonard E., assignor.)
Union Switch & Signal Company, The. (See Bone, Herbert L., assignor.)
Union Switch & Signal Company, The. (See Hedding, Linnie K., assignor.)
United Aircraft Products, Inc. (See Dykeman, Reuben G., assignor.)
United Shoe Machinery Corporation. (See Quinn, E., and Jalbert, assignors.)
United States Gypsum Company. (See Page, John, assignor.)
United States Rubber Company. (See Benson, Gerald L., assignor)
United States Rubber Company. (See Clark, Edward H., assignor.)
Universal Oil Products Company. (See Ipatieff, V. N., and Pines, assignors.)
Universal Oil Products Company. (See Lee, E. C., and Ahlberg, assignors.)
Universal Oil Products Company. (See Mattox, William J., assignor.)
Universal Paper Products Company. (See Amberg, Walter E., assignor.)
Valentine, Percy W. (See Ries, Herman J., assignor.)
Van den Berg, Alan J., New York, N. Y. Temperature water meter. 2,316,198; Apr. 13.
Van Dyk, Victor R., Lewiston, and Mort Early, Moscow, Idaho. Cover for meter boxes. 2,316,302; Apr. 13.
Van Haften, Freeman, assignor to Electric Sorting Machine Company, Grand Rapids, Mich. Sorting machine feeding and ejecting device. 2,316,375; Apr. 13.
Van Ingen Schenau, Bernardus W. (See van Slooten, J., and van Ingen Schenau.)
Van Slooten, Jacob, and B. W. van Ingen Schenau, Eindhoven, Netherlands, assignors to Radio Corporation of America. Amplifier control circuits. 2,316,474; Apr. 13.
Vapo-Therm Process Company. (See Hillebrand, William E., assignor.)
Vetter, John, Jr., Cheyenne, Wyo. Locking mechanism for doors. 2,316,199; Apr. 13.
Victor Electric Products, Inc. (See Spear, Walter A., assignor.)
Viken, Peter C., Roseau, Minn. Undercut sickle for windrowers. 2,316,475; Apr. 13.
Vollmer, Earl C. (See Kottman, A. A., and Vollmer.)
Vollmer, Earl C., and F. A. Herwehe, Rock Island, Ill., assignors, by mesne assignments, to The Bettendorf Company. Blade spacer. 2,316,200; Apr. 13.
Volpin, Alexander S. (See White, R. E., Liljestrand and Volpin.)
Voos, Walter H., Mount Carmel, Conn., assignor to Swank, Inc. Combination key and knife. 2,316,655; Apr. 13.
Wade, Lorentz G. (See Nystrom, A. C., and Wade.)
Walker, Kenneth E. (See Woodhouse, J. C., and Walker.)
Walker, Milton A., San Jose, Calif. Tandem aerial torpedo. 2,316,656; Apr. 13.
Wallace, Bert A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Pole changer control circuit. 2,316,730; Apr. 13.
Wallén, Sven J., and R. S. M. Sundgren-Wallén, née Sundgren, Stockholm, Sweden, assignors to Imperial Chemical Industries Limited, Millbank, London, England. Recovering elemental sulphur from gases containing sulphureted hydrogen, carbon oxysulphide, and carbon disulphide. 2,316,201; Apr. 13.
Walpole, Harry J., Grantwood, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind. Scrap disposal system. 2,316,476; Apr. 13.
Walter, Carl W., Newton, Mass. Aseptic transfer of sterile articles. 2,316,731; Apr. 13.
Warner, Edgar, Dayton, assignor to The Champion Paper and Fibre Company, Hamilton, Ohio. Coating paper. 2,316,202; Apr. 13.
Warner, Homer C. (See Schurr, C. H., and Warner.)
Watch Tower Bible and Tract Society, Inc. (See Kurzen, John G., Jr., assignor.)
Weaver, George B., assignor to Indian Motocycle Company, Springfield, Mass. Shaft drive for motorcycles. 2,316,477; Apr. 13.
Webel, Adam. (See Peremi, E., and Webel.)
Weigel, Norman E., Short Hills, N. J. Pen point material. 2,316,478; Apr. 13.
Weigel, Norman E., Short Hills, N. J. Fountain pen. 2,316,479; Apr. 13.
Weinstein, Louis A., Brooklyn, assignor to Ideal Novelty & Toy Co., Long Island City, N. Y. Joint for doll bodies. 2,316,732; Apr. 13.
Weiss, Albert A., Jr. (See Edwards, LeR. V., Tarring, and Weiss, Jr.)
Weiss, Louis, St. Louis, Mo. Chilling means for draft beverages. 2,316,376; Apr. 13.
Weizmann, Charles, London, England. Alimentary preparations. 2,316,733; Apr. 13.
Well Surveys, Incorporated. (See Fearon, Robert E., assignor.)
Wells, Mansel S., Shinglehouse, Pa. Can crusher and baler. 2,316,734; Apr. 13.
Wendt, Bruno. (See Bohner, G., Wendt, and Eggert.)
Wesley, Andrew, Plainfield, N. J., and J. W. Carey, Lynbrook, assignors to The International Nickel Company, Inc., New York, N. Y. Semibright nickel deposition. 2,316,303; Apr. 13.
Western Electric Company. (See Ewaldson, Waldemar C., assignor.)
Western Electric Company. (See Hall, Earl C., assignor.)
Western Electric Company. (See Miner, Robert V., assignor.)
Western Electric Company. (See Nystrom, A. C., and Wade, assignors.)
Western Electric Company. (See Teichner, Rudolph R., assignor.)
Westinghouse Electric & Manufacturing Company. (See Constable, J. M., and Stamm, assignors.)
Westinghouse Electric & Manufacturing Company. (See Highriter, H. W., and Lilliendahl, assignors.)
Westinghouse Electric & Manufacturing Company. (See Romanelli, Emilio, assignor.)
Westinghouse Electric & Manufacturing Company. (See Semar, Harold W., assignor.)
Wheelock, John H., Fitzwillian, N. H., and H. F. Cypser, assignors to Signal Engineering & Manufacturing Company, New York, N. Y. Alarm signal system. 2,316,639; Apr. 13.

White, Deane R. (See Sease, V. B., and White.)
White, Loyd J., assignor to Southern Steel Company, San Antonio, Tex. Liquefied gas dispensing system. 2,316,495; Apr. 13.
White, Richard E., W. E. Liljestrand, and A. S. Volpin, Houston, Tex., assignors to Mission Manufacturing Company. Flat-top slush pump valve. 2,316,480; Apr. 13.
White, William D., Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Producing a nonsticking, smooth, flameproof, thin, flexible sheeting. 2,316,496; Apr. 13.
Whittaker, Donald, Northwich, England, assignor to Imperial Chemical Industries Limited. Halogenated polymers of ethylene. 2,316,481; Apr. 13.
Wilhelm, Joseph F., Madison, Wis. Tank gauge. 2,316,377; Apr. 13.
Williams, Allison R., Yazoo City, Miss. Hot stick. 2,316,204; Apr. 13.
Williams, Burdell S., Dayton, Ohio, assignor to Chrysler Corporation, Detroit, Mich. Air conditioning unit mounting. 2,316,640; Apr. 13.
Williams, Crawford S., Durham, assignor of fifty per cent to J. A. Williamson, Raleigh, N. C. Variable pitch propeller. 2,316,482; Apr. 13.
Williams, Lee B., Wilkinsburg, Pa. Boiler. 2,316,735; Apr. 13.
Williams, Luther F., Oakland, Calif. Contour scriber. 2,316,483; Apr. 13.
Williams, Robert A., assignor to Ditto, Incorporated, Chicago, Ill. Sheet trimming device. 2,316,205; Apr. 13.
Williamson, John A. (See Williams, Crawford S., assignor.)
Wilmanns, Gustav. (See Schneider, W., and Wilmanns.)
Wilson, James E., assignor to Chrysler Corporation, Detroit, Mich. Air conditioning method and apparatus. 2,316,641; Apr. 13.
Wilson, John H., Wichita Falls, Tex. Mast pole derrick. 2,316,304; Apr. 13.
Wilson, Steven B., Newton, Mass., assignor to Fram Corporation. Liquid filter and filtering unit therefor. 2,316,206; Apr. 13.
Wingfoot Corporation. (See Larkin, Frederic V., assignor.)
Wingfoot Corporation. (See Smith, Claude H., assignor.)
Wingfoot Corporation. (See Woodward, Alva W., assignor.)
Winter, William B., Belmont, assignor to Atlantic Research Associates, Inc., Newtonville, Mass. Apparatus for rapidly drying casein curd and like substances. 2,316,207; Apr. 13.
Witham, George S., Jr., Hudson Falls, assignor to W. & L. E. Gurley, Troy, N. Y. Apparatus for determining the tendency of paper to curl. 2,316,378; Apr. 13.
Wolf, Cecil R. (See Ferris, W. D., and Wolf.)
Wolfram, John N. (See Parker, A. L., Margrave and Wolfram.)
Wolter, Erhart, Dusseldorf-Benrath, Germany, assignor, by mesne assignments, to The Procter & Gamble Company, Cincinnati, Ohio. Process of removing impurities from washed textiles. 2,316,379; Apr. 13.
Wood, John, Manufacturing Company. (See Brouse, William H. D., assignor.)
Woodhouse, John C., Cragmere and K. E. Walker, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Hydraulically actuated system. 2,316,497; Apr. 13.
Woodruff, Maurice D., assignor to The Bauer Brothers Company, Springfield, Ohio. Roaster system. 2,316,208; Apr. 13.
Woodward, Alva W., Kent, Ohio, assignor to Wingfoot Corporation, Wilmington, Del. Wheel assembly. 2,316,642; Apr. 13.
Woog, Paul, Paris, France; vested in the Alien Property Custodian. Polymerization of olefins. 2,316,380; Apr. 13.
Worthington-Gamon Meter Company. (See Trager, Leon, assignor.)
Wright, Donald H., Garden City, N. Y. Blackout shield. 2,316,305; Apr. 13.
Wright, John T., West Warren, Mass.; assignor to The William E. Wright & Sons Company. Package cover. 2,316,657; Apr. 13.
Wright, Paul, Birmingham, Ala. Furnace with reflex arch. 2,316,381; Apr. 13.
Wright, William E., & Sons Company, The. (See Wright, John T., assignor.)
Wurzburg, Francis L., Jr. (See Hardy, A. C., Wurzburg, Jr., and Dench.)
Wyman, Floyd H., Toccoa, Ga., assignor to R. G. Le Tourneau, Inc. Spreader. 2,316,306; Apr. 13.
Yeomans, Lucien I., Incorporated. (See Clausen, De Witt, assignor.)
York Ice Machinery Corporation. (See Moore, Paul B., assignor.)
Young, Herring, Louisville, Ky. Automatic mechanism for furnishing intermittent sprays of liquid soap for baths. 2,316,307; Apr. 13.
Youngstown Steel Door Company, The. (See Beauchamp, Wilfred A., assignor.)
Youngstown Steel Door Company, The. (See Ditchfield, Frank, assignor.)
Youngstown Steel Door Company, The. (See Doyle, Arthur J., assignor.)
Youngstown Steel Door Company, The. (See Henricks, Harold H., assignor.)
Yule, John A. C., assignor to Eastman Kodak Company, Rochester, N. Y. Photomechanical process. 2,316,643; Apr. 13.
Yule, John A. C., assignor to Eastman Kodak Company, Rochester, N. Y. Photomechanical screen. 2,316,644; Apr. 13.
Zalkind, Joseph, New York, N. Y. Summary form means. 2,316,209; Apr. 13.
Zeiger, Philip, New York, N. Y. Deep etching lithographic plate. 2,316,645; Apr. 13.
Zeigler, Harry R. (See Benz, G. R., and Zeigler.)
Zim Manufacturing Company. (See Berkman, Herbert A., assignor.)
Zuazua, Raymond, New York, N. Y. Combination electric tester, lamp and smoker's outfit. 2,316,382; Apr. 13.
Zühlke, Marcel. (See Kesselring, F., Gieffers, Kaufmann, Neugebauer, Puttfarcken, Schimpf, and Zühlke.)

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 13TH DAY OF APRIL, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Cementing process. E. C. Pitman. Re. 22,301; Apr. 13.
Lubricating composition. C. E. Earle. Re. 22,299; Apr. 13.
Rubber, Vulcanization of. P. C. Jones and R. A. Mathes. Re. 22,300; Apr. 13.

LIST OF PLANT INVENTIONS

Nectarine. F. W. Anderson. 575; Apr. 13.

LIST OF DESIGN INVENTIONS

Board, Slicing. J. T. Generale. 135,457; Apr. 13.
Cap, Nurse's. S. Seigenfeld and E. Alexander. 135,464; Apr. 13.
Card follower. T. A. Hearn. 135,459–60; Apr. 13.
Chair or similar article. R. E. Wagner. 135,474; Apr. 13.
Corner unit, Insulating siding. W. R. Wright. 135,475–7; Apr. 13.
Deck of playing cards. A. M. Voit. 135,466; Apr. 13.
Delcalcomania transfer sheet or the like. L. Medgyes. 135,499; Apr. 13.
Dial for barometers or the like. F. J. Scott. 135,472; Apr. 13.
Dial, Timepiece. L. Y. Booharin. 135,456; Apr. 13.
Diluter for lubricants. T. Gallo. 135,489; Apr. 13.
Dispenser, or the like, Soap. G. H. Packwood, Jr. 135,463; Apr. 13.
Dress. J. L. Walker. 135,503–4; Apr. 13.
Dress. S. Zahn. 135,505; Apr. 13.
Fabric or similar article, Textile. R. M. Gutekunst. 135,458; Apr. 13.
Game board. A. M. Voit. 135,465; Apr. 13.
Gauge for size measurement or comparison. W. F. Aller. 135,455; Apr. 13.
Guard and lamp, Combined bicycle. T. E. D. Bilde. 135,493; Apr. 13.
Handbag. I. Pichel. 135,502; Apr. 13.
Hat. A. Reinsberg. 135,497; Apr. 13.
Jacket. B. Moyes. 135,501; Apr. 13.
Lamp. H. E. Hopkins. 135,479; Apr. 13.
Lamp, Desk. C. L. Dewey. 135,478; Apr. 13.
Machine casing, Check writing. W. A. Kropp. 135,500; Apr. 13.
Mask for stuffed toys or similar article. J. Swedlin. 135,492; Apr. 13.
Metal cutting machine or similar article. E. Schutz. 135,473; Apr. 13.
Nebulizer. R. G. Cheney and B. S. Paschall. 135,468; Apr. 13.
Ornament or the like, Christmas tree. H. Hoffmann. 135,470; Apr. 13.
Pen, Fountain. N. E. Weigel. 135,498; Apr. 13.
Pump, Vane. W. R. Tucker. 135,483; Apr. 13.
Rack, Tie. A. Waterman. 135,467; Apr. 13.
Shade, Folding lamp. A. K. Lueders. 135,496; Apr. 13.
Sharpener, Razor blade. J. A. Royall. 135,471; Apr. 13.
Shield for automobile headlights, Dim-out. N. Cooper. 135,482; Apr. 13.
Skate, Ice. S. G. McCullough. 135,462; Apr. 13.
Skirt. H. Zuckerman. 135,494; Apr. 13.
Spoon or similar article. F. W. Koonz. 135,461; Apr. 13.
Stand and perfume bottles, Combined. A. R. Botham. 135,484–8; Apr. 13.
Telephone set, Loud-speaking. G. M. Giannini. 135,485; Apr. 13.
Toilet seat, Child's folding. P. E. Dunn. 135,469; Apr. 13.
Toy or similar article, Stuffed. J. Swedlin. 135,490–1; Apr. 13.
Tube, Electron discharge transmitting. W. G. Wagener and C. H. Sphar. 135,480–1; Apr. 13.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 13TH DAY OF APRIL, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasive machine. L. Ilmer and V. R. Pallas. 2,316,586; Apr. 13.
Accounting machine. H. F. Lang. 2,316,520; Apr. 13.
Acid, Manufacture of tungstic. H. W. Highriter and W. C. Lilliendahl. 2,316,583; Apr. 13.
Acids from their hydrohalides, Production of amino. P. R. Austin. 2,316,215; Apr. 13.
Acyl derivatives of germinal gland hormone preparations of high activity and producing same. W. Schoeller, F. Hildebrandt, and E. Schwenk. 2,316,190; Apr. 13.
Adjusting the length of stroke of pistons. W. H. D. Brouse. 2,316,399; Apr. 13.
Aerial torpedo, Tandem. M. A. Walker. 2,316,656; Apr. 13.
Air conditioner. P. B. Moore. 2,316,704; Apr. 13.
Air conditioning method and apparatus. J. E. Wilson. 2,316,641; Apr. 13.
Air conditioning unit mounting. B. S. Williams. 2,316,640; Apr. 13.
Aircraft altitude spacing system. M. J. Finnegan. 2,316,411; Apr. 13.
Alimentary preparations. C. Welzmann. 2,316,733; Apr. 13.
Amplifier control circuits. J. van Slooten and B. W. van I. Schenau. 2,316,474; Apr. 13.
Alkali metal hydroxide solutions from refining of mineral oils, Regeneration of spent. A. P. Hewlett. 2,316,691; Apr. 13.
Anemometer. M. Knobel and R. H. Packard. 2,316,255; Apr. 13.
Apparatus for cutting ice. W. C. Pfeil. 2,316,282; Apr. 13.
Apparatus for determination of moisture in gases. E. Romanelli. 2,316,624; Apr. 13.
Apparatus for determining the tendency of paper to curl. G. S. Witham, Jr. 2,316,378; Apr. 13.
Apparatus for facilitating and controlling chemical and physical treatments. H. A. Brassert and J. C. Hartley. 2,316,664; Apr. 13.
Apparatus for interrupting or controlling electric currents. F. Kesselring, F. Gieffers, W. Kaufmann, H. Neugebauer, W. Puttfarcken, R. Schimpf, and M. Zühlke. 2,316,170; Apr. 13.
Apparatus for loading sheath wire heating units. J. L. Andrews. 2,316,659; Apr. 13.
Apparatus for loading sheathed wire heating units. F. E. Finlayson and E. C. Chapman. 2,316,683; Apr. 13.
Apparatus for manufacture mold members. R. H. Osbrink. 2,316,279; Apr. 13.
Apparatus for manufacturing tubing. P. A. Raiche. 2,316,715; Apr. 13.
Apparatus for producing mineral wool. J. Page. 2,316,451; Apr. 13.
Apparatus for removing marginal portions of glass units. W. Owen. 2,316,532; Apr. 13.
Apparatus for sterilizing flour and like products. F. S. Smith. 2,316,193; Apr. 13.
Apparatus for storing fluids underground. G. R. Benz and H. R. Zeigler. 2,316,308; Apr. 13.
Apparatus for taking samples of fluid from wells. A. M. Bandy. 2,316,216; Apr. 13.
Apparatus for the manufacture of smokeless powder. R. Troxler. 2,316,195; Apr. 13.
Apparatus for treating rolling oils. R. P. Dunmire and J. A. Camelford. 2,316,571; Apr. 13.
Applicator and boiler for the thermal-vapor treatment of congestion in the human body. W. E. Hillebrand. 2,316,333; Apr. 13.
Article supporting rack. R. V. Miner. 2,316,609; Apr. 13.
Assembling machine, Electric plug. C. H. Judisch. 2,316,593; Apr. 13.
Atmospheric drum drier. C. O. Lavett. 2,316,176; Apr. 13.
Attachment for cameras. E. L. Jarboe. 2,316,694; Apr. 13.
Attachment for skis. G. L. Karlsson. 2,316,252; Apr. 13.
Attachment plug. F. A. Hignutt. 2,316,163; Apr. 13.
Automobile jack. J. E. Hines. 2,316,430; Apr. 13.
Automotive vehicle. L. J. J.-B. Chêneau. 2,316,223; Apr. 13.
Axial blower. H. Pfenninger. 2,316,452; Apr. 13.
Bag: *See*—
  Reinforced bag.
Bale grouper. A. C. James. 2,316,435; Apr. 13.
Baler, Hay. C. H. Smith. 2,316,722; Apr. 13.
Bar hanger and receptacle fastening means, Adjustable. E. B. Atkinson. 2,316,389; Apr. 13.
Bearing. J. W. Parker. 2,316,449; Apr. 13.
Bearing and seal, Rotary pump shaft. W. F. Collier. 2,316,565; Apr. 13.
Bearing assembly. S. R. Thomas. 2,316,468; Apr. 13.
Bed, Collapsible. P. H. Ferrier. 2,316,681; Apr. 13.
Beer, Preparation of. E. Heimann. 2,316,241; Apr. 13.
Bimetal tank. A. J. Kercher. 2,316,437; Apr. 13.
Bimetal valve. F. Roth. 2,316,488; Apr. 13.
Bird's pulley lunch box. M. Skulina. 2,316,463; Apr. 13.
Bituminous coating mixtures, Preparing. E. H. Nichols. 2,316,357; Apr. 13.
Blade magazine. L. Kuhni and J. R. Reyburn. 2,316,600; Apr. 13.
Blade spacer. E. C. Vollmer and F. A. Herwehe. 2,316,200; Apr. 13.
Blind, Venetian. I. R. Brodie. 2,316,398; Apr. 13.
Blower for oil burners. J. A. D'Elia. 2,316,224; Apr. 13.
Blueprint trimming device. W. E. Johnson. 2,316,249; Apr. 13.
Boiler: *See*—
  Percolator boiler.
Boiler. L. B. Williams. 2,316,735; Apr. 13.
Bottle carrier. H. E. Brunhoff. 2,316,738; Apr. 13.
Bottle holder. H. K. Powell. 2,316,186; Apr. 13.
Bowling score sheet display table. R. J. MacMillan. 2,316,444; Apr. 13.
Box: *See*—
  Bird's pulley lunch box. Folding box.
  Cardboard box. Paper box.
Bracket: *See*—
  Triple valve bracket.
Brake. R. P. Breese. 2,316,396; Apr. 13.
Brake. R. A. Goepfrich. 2,316,414; Apr. 13.
Brake for vehicles. F. G. Parnell. 2,316,450; Apr. 13.
Brick pan for boilers. B. Labaree. 2,316,519; Apr. 13.
Brush, Rotary. R. O. Peterson. 2,316,185; Apr. 13.
Bulkhead for refrigerator cars, Convertible. J. S. Lunvall. 2,316,265; Apr. 13.
Bullet. F. Kowalski, Jr. 2,316,172; Apr. 13.
Burring machine. R. S. Drummond. 2,316,676; Apr. 13.
Cabinet construction. I. O. Smart. 2,316,632; Apr. 13.
Cable: *See*—
  Electric power cable.
Cage. E. W. Little. 2,316,263; Apr. 13.
Cake candle holder. A. W. Krieg. 2,316,342; Apr. 13.
Calcium sulphate, Manufacture of. P. Kubelka and E. Reiner. 2,316,343; Apr. 13.
Cam mechanism, Reciprocating. J. Dawson. 2,316,408; Apr. 13.
Can crusher and baler. M. S. Wells. 2,316,734; Apr. 13.
Car: *See*—
  Double deck stock car. Railway sleeping car.
  Freight car.
Car door. F. Ditchfield. 2,316,321; Apr. 13.
Car testing device, Single. T. H. Birch. 2,316,217; Apr. 13.
Carbon tetrachloride, Production of. J. E. Beanblossom and W. B. Scott. 2,316,736–7; Apr. 13.
Carburetor. O. L. Garretson. 2,316,327; Apr. 13.
Cardboard box. N. G. Thor. 2,316,469; Apr. 13.
Carrier: *See*—
  Bottle carrier. Traveling tool carrier.
  Coal chute carrier.
Carrier equipment, Convertible. E. C. Robes, Jr. 2,316,456; Apr. 13.
Carton, Folding. R. W. Marshall. 2,316,701; Apr. 13.
Case: *See*—
  Instrument case.
Case carrier for bottles. E. J. Reid and J. W. Taylor. 2,316,454; Apr. 13.
Casein curd and like substances, Method and apparatus for rapidly drying. W. B. Winter. 2,316,207; Apr. 13.
Casting mold for synthetic materials. E. Strunk. 2,316,298; Apr. 13.
Castings, Method and apparatus for producing. R. H. Osbrink. 2,316,280; Apr. 13.
Catalyst, Preparing. W. E. Spicer and K. G. Schrey. 2,316,726; Apr. 13.
Catalytic oxidation. W. J. Amend. 2,316,543; Apr. 13.
Cellular glass and its manufacture. M. A. Powers. 2,316,749; Apr. 13.
Cellulose apparatus, Regenerated. F. P. Alles. 2,316,212; Apr. 13.
Cellulose derivative composition, Plasticized. W. Hentrich, W. Kaiser, and R. Endres. 2,316,242; Apr. 13.
Cellulose, Discharge printing organic derivatives of. H. C. Olpin and W. C. McKnight. 2,316,277; Apr. 13.
Cellulosic materials and producing same. A. McAlevy. 2,316,525; Apr. 13.
Cement or cement grout, Production of fluent. J. S. Morgan, J. C. Gammon, and H. S. Morgan. 2,316,705; Apr. 13.

Cementing wells. A. B. Canon. 2,316,402; Apr. 13.
Ceramic coating composition. A. J. Deyrup. 2,316,742; Apr. 13.
Ceramic decorating composition. C. Robertson and A. J. Deyrup. 2,316,745; Apr. 13.
Chain: *See*—
Tire chain.
Chair: *See*—
Folding chair.
Chassis, Motor trailer. E. C. McDaniel. 2,316,702; Apr. 13.
Chilling means for draft beverages. L. Weiss. 2,316,376; Apr. 13.
Chock, Airplane wheel. O. Morgensen Jr. 2,316,178; Apr. 13.
Chromite blocks, Production of. K. Erdmann. 2,316,228; Apr. 13.
Chromite ores, particularly masinloc ore to obtain therefrom aluminum, chromium, and other products, Treating. E. M. Hawk. 2,316,330; Apr. 13.
Circuit: *See*—
Pole changer control circuit.
Clamp stick. W. A. Heinrich. 2,316,428; Apr. 13.
Clamping apparatus for optical frames. C. H. Nesbit. 2,316,355; Apr. 13.
Cleaner: *See*—
Vacuum cleaner.
Cleaner and silencer, Combined air. M. A. Mieras. 2,316,527; Apr. 13.
Closure member. C. and D. Ray. 2,316,453; Apr. 13.
Clothes drying rack. W. L. Hulick. 2,316,433; Apr. 13.
Clothing, Card. E. L. Cady. 2,316,557; Apr. 13.
Coal chute carrier. R. Schenbeck. 2,316,290; Apr. 13
Coating and production of coated structures. J. A. Mitchell. 2,316,274; Apr. 13.
Collecting device. P. Schuster. 2,316,630; Apr. 13.
Comb. W. Huppert. 2,316,335; Apr. 13.
Combination milk filter. M. E. Schwartz. 2,316,721; Apr. 13.
Commutator structure. G. L. Moeller. 2,316,651; Apr. 13.
Commutator structure and forming the segments thereof. G. L. Moeller. 2,316,652; Apr. 13.
Composition comprising solid ethylene polymers. B. J. Habgood. 2,316,418; Apr. 13.
Composition for cleaning aluminum. R. H. Brown and R. B. Mears. 2,316,219–20; Apr. 13.
Computing device. H. J. Sang. 2,316,627; Apr. 13.
Condensation products of acetylene with dimethylol urea. W. Reppe, E. Keyssner, and O. Hecht. 2,316,653; Apr. 13.
Condensation products of ketene, Production of. H. P. Staudinger and K. H. W. Tuerck. 2,316,465; Apr. 13.
Connector: *See*—
Sleeve connector.
Connector. E. C. Raney. 2,316,285; Apr. 13.
Connector with strainer for tanks, Outlet. P. Sperry 2,316,724; Apr. 13.
Construction material for aircraft. C. Dornier. 2,316,569; Apr. 13.
Contact breaker device. J. A. Doran. 2,316,156; Apr. 13.
Contact plate for dry plate elements. F. Brunke. 2,316,553; Apr. 13.
Container. A. A. Abrahamson. 2,316,384–5; Apr. 13.
Container for the storage of solutions of peroxygen compounds. J. S. Reichert and S. A. McNeight. 2,316,487; Apr. 13.
Contour scriber. L. F. Williams. 2,316,483; Apr. 13.
Control apparatus. T. R. Harrison. 2,316,240; Apr. 13.
Control apparatus. E. C. Raney. 2,316,286; Apr. 13.
Control device. H. L. Newell. 2,316,612; Apr. 13.
Control device. J. J. Rothwell. 2,316,626; Apr. 13.
Control for fuel supplies. S. M. Udale. 2,316,300; Apr. 13.
Control means for prime mover driven generators. F. W. Gay. 2,316,513; Apr. 13.
Control means for radio apparatus. P. F. Rice. 2,316,365; Apr. 13.
Control of automatic voltage regulators. E. D. T. Norris. 2,316,707; Apr. 13.
Control system. E. C. Raney. 2,316,619; Apr. 13.
Control system, Landing gear. M. J. Finnegan. 2,316,682; Apr. 13.
Control system for velocity modulation tubes. C. V. Litton. 2,316,264; Apr. 13.
Controller, Circuit. C. T. Evans. 2,316,678; Apr. 13.
Controlling the supply of air to the closed cabins of aircraft. S. Grünert and H. Ide. 2,316,237; Apr. 13.
Conveyer. J. Melzer. 2,316,177; Apr. 13.
Conveyer for container sealing apparatus. H. E. Stover. 2,316,654; Apr. 13.
Conveyer mechanism. W. C. Bruton. 2,316,313; Apr. 13.
Copyholder. E. L. Elliott. 2,316,324; Apr. 13.
Cord plug. F. V. Larkin. 2,316,601; Apr. 13.
Coupling: *See*—
Pipe coupling. Tube coupling.
Shaft coupling.
Coupling device for well apparatus. P. M. Evans. 2,316,679; Apr. 13.
Coupling nut, Swivelly mounted. P. J. Healy. 2,316,690; Apr. 13.
Cover: *See*—
Package cover.
Cover for meter boxes. V. R. Van Dyk and M. Early. 2,316,302; Apr. 13.
Covering, Floor and wall. J. W. Stallings. 2,316,746; Apr. 13.
Covering for buildings, Outside. J. Logan Jr. 2,316,345; Apr. 13.
Crane. J. Breslav. 2,316,667; Apr. 13.
Crane, Toy. H. J. Ferri. 2,316,680; Apr. 13.
Crank unit. T. W. Nilsen. 2,316,530; Apr. 13.
Cup, Paper. W. E. Amberg. 2,316,150; Apr. 13.
Cylinder oil, Steam. F. H. MacLaren. 2,316,347; Apr. 13.
Cylinder pumping unit, Inverted. B. Henderson. 2,316,429; Apr. 13.
Dentures, Method of and apparatus for making. J. D. Schwartz. 2,316,631; Apr. 13.
Detergent compositions. G. C. Toone and L. H. Flett. 2,316,194; Apr. 13.
Device for inserting wire coils in tapped holes. N. Evans. 2,316,231; Apr. 13.
Device for preventing speed oscillations and vibrations of the rotary members of machines. F. M. M. B. Salomon. 2,316,288; Apr. 13.
Device for providing refrigerants in containers. L. M. and H. Harvey, and R. Hill. 2,316,423; Apr. 13.
Dielectric composition. A. W. Thompson. 2,316,299; Apr. 13.
Direct reading meter. G. H. Brown. 2,316,153; Apr. 13.
Direction indicator. E. C. Horton. 2,316,584; Apr. 13.
Dishwashing machine. T. E. D. Bilde. 2,316,748; Apr. 13.
Dispensing device. R. T. Cornelius. 2,316,406; Apr. 13.
Dispensing device. A. Hammerstein. 2,316,516; Apr. 13.
Dispensing machine. P. D. Parsons. 2,316,182; Apr. 13.
Dispensing system. A. N. Kerr. 2,316,338; Apr. 13.
Display frame. H. S. Piper. 2,316,615; Apr. 13.
Display stand. W. L. Luckey. 2,316,443; Apr. 13.
Door: *See*—
Car door. Grain door.
Garage door. Sliding car door.
Door fastener. R. J. Olander. 2,316,359; Apr. 13.
Door fitting. E. C. Miles. 2,316,528; Apr. 13.
Drapery festoon ring. W. C. Kenney. 2,316,337; Apr. 13.
Doorframe and casing, Combination. H. Hasenburger and H. W. Corbett. 2,316,425; Apr. 13.
Double deck stock car. R. D. Bryan. 2,316,554; Apr. 13.
Draft connection unit for implements, Adjustable. E. V. Briscoe. 2,316,397; Apr. 13.
Drafting apparatus. A. Langsner. 2,316,485; Apr. 13.
Drier: *See*—
Atmospheric drum drier. Rotary drier.
Portable drier.
Drill: *See*—
Rock drill.
Drinking tubes, Making angularly bent. S. T. Maltby. 2,316,700; Apr. 13.
Drive. E. Orshansky, Jr. 2,316,278.
Driving mechanism, Cutoff. H. W. Bruker and F. W. Overton. 2,316,221; Apr. 13.
Dry cleaning system and dry cleaning. M. Busi. 2,316,669; Apr. 13.
Dust bag attachment for suction cleaners. C. L. Moorhead. 2,316,353; Apr. 13.
Edible products, Making composite frozen. H. R. Howser. 2,316,165; Apr. 13.
Educational device. Z. B. Adams. 2,316,147; Apr. 13.
Electric conductors, Finishing. I. C. Eaton. 2,316,572; Apr. 13.
Electric power cable. T. R. Scott. 2,316,293; Apr. 13.
Electric tester, lamp and smoker outfit, Combination. R. Zuazua. 2,316,382; Apr. 13.
Electric valve control circuits. F. L. Kaestle. 2,316,594; Apr. 13.
Electrical device, Rotatable. J. H. Staak. 2,316,635; Apr. 13.
Electrical fence charging apparatus. N. F. Agnew and W. P. Place. 2,316,211; Apr. 13.
Electrical outlet. W. Huppert. 2,316,167; Apr. 13.
Electron discharge apparatus. H. Motz. 2,316,276; Apr. 13.
Electron flow, Control of. Z. J. Atlee and F. R. Abbott. 2,316,214; Apr. 13.
Electronic regulator. W. A. Ford and P. C. Michel. 2,316,577; Apr. 13.
Engine: *See*—
Explosive type engine. Internal combustion engine
Ester of sulphosuccinic acids. L. H. Flett. 2,316,234; Apr. 13.
Esters, Preparation of organic. D. J. Loder, W. F. Gresham, and D. B. Killian. 2,316,605; Apr. 13.
Expansion joint. A. C. Fischer. 2,316,233; Apr. 13.
Explosive type engine. R. Y. Bovee. 2,316,394; Apr. 13.

Extension table. T. E. McFall. 2,316,448; Apr. 13.
External honing tool. W. H. Harris, Jr. 2,316,422; Apr. 13.
Extracts, Production of allergic. C. H. Boatner. 2,316,311; Apr. 13.
Fan, Centrifugal. K. D. McMahan. 2,316,608; Apr. 13.
Fan, Ventilating. W. A. Spear. 2,316,634; Apr. 13.
Fastener: *See*—
Door fastener.
Fastening device. N. R. Beagle. 2,316,548; Apr. 13.
Feed control means for weighing apparatus. C. G. Bliss. 2,316,310; Apr. 13.
Feeding mechanism. F. E. Sinclair. 2,316,192; Apr. 13.
Filing apparatus. R. P. Scholfield. 2,316,489; Apr. 13.
Filamentary cathode assembly. L. Goodale and L. A. Backer. 2,316,415; Apr. 13.
Filler cap or closure. R. G. Dykeman. 2,316,507; Apr. 13.
Filter: *See*—
Combination milk filter.
Filter and filtering unit therefor, Liquid. S. B. Wilson. 2,316,206; Apr. 13.
Fish line float. G. L. Kohn. 2,316,256; Apr. 13.
Fish stringer. A. F. Flournoy. 2,316,511; Apr. 13.
Fishing line retriever. E. R. Bray. 2,316,500; Apr. 13.
Fishing reel. F. Burdick. 2,316,314; Apr. 13.
Flap control for airplanes, Automatic. E. Gast. 2,316,235; Apr. 13.
Flash lamp. E. Lemmers. 2,316,344; Apr. 13.
Flash powder and preparation. C. A. Nickle. 2,316,358; Apr. 13.
Flat-top slush pump valve. R. E. White, W. E. Liljestrand, and A. S. Volpin. 2,316,480; Apr. 13.
Floor unit, Preformed. K. E. Crooks. 2,316,671; Apr. 13.
Flooring material and floor construction. A. C. Fischer. 2,316,232; Apr. 13.
Flotation of molybdenite. C. Marsh. 2,316,743; Apr. 13.
Fluid meter. L. Trager. 2,316,492; Apr. 13.
Fluid motor. H. C. Nette and M. L. Taylor. 2,316,356; Apr. 13.
Fluid pressure motor. I. E. Coffey. 2,316,316; Apr. 13.
Fluid-sealing and dust-excluded device for shafts, bearings, and the like. A. Procter. 2,316,713; Apr. 13.
Fluids, Method and apparatus for determining density of. D. G. C. Hare. 2,316,239; Apr. 13.
Fluorescent material. A. Rüttenauer and O. Fritze. 2,316,366; Apr. 13.
Folding box. D. Levkoff. 2,316,261; Apr. 13.
Folding chair. K. G. Maurer. 2,316,484; Apr. 13.
Form, Uniform cap washing and drying. S. Sugar. 2,316,372; Apr. 13.
Fountain pen. N. E. Weigel. 2,316,479; Apr. 13.
Frame: *See*—
Display frame. Weaving frame.
Freight car. C. S. Johnston. 2,316,696; Apr. 13.
Frequency converter. W. W. Moe. 2,316,610; Apr. 13.
Frequency regulator, Automatic. W. A. Charbonneaux. 2,316,561; Apr. 13.
Frequency-responsive network. L. F. Curtis. 2,316,317; Apr. 13.
Fringe. H. Mehler. 2,316,350; Apr. 13.
Fruit and berry washing and grading equipment. R. J. Evett. 2,316,159; Apr. 13.
Fur coats, Cleaning. R. E. Albrecht. 2,316,386; Apr. 13.
Fur coats, Making. R. E. Albrecht. 2,316,387; Apr. 13.
Furnace: *See*—
Industrial furnace.
Furnace with reflex arch. P. Wright. 2,316,381; Apr. 13.
Fuselage of aircrafts. P. A. Richard. 2,316,622; Apr. 13.
Gain control. B. E. Moritz, J.. 2,316,354; Apr. 13.
Garage door. W. D. Ferris and C. R. Wolf. 2,316,510; Apr. 13.
Garment for infants, Safety. C. W. Lee. 2,316,602; Apr. 13.
Garment hanger. J. A. Packard. 2,316,533; Apr. 13.
Garment hanger. M. C. Marble. 2,316,523; Apr. 13.
Gas collector and vent. A. L. Green. 2,316,686; Apr. 13.
Gas dispensing system, Liquefied. L. J. White. 2,316,495; Apr. 13.
Gas handling apparatus. R. R. Teichner. 2,316,491; Apr. 13.
Gas utilization. D. S. Mellett and G. W. Robbins. 2,316,744; Apr. 13.
Gases, Process and apparatus for drying. H. Kahle and S. Stark. 2,316,251; Apr. 13.
Gauge: *See*—
Tank gauge.
Gear grinding apparatus. H. W. Semar. 2,316,490; Apr. 13.
Generator: *See*—
Rotary vapor generator.
Glove. H. Evangelista. 2,316,575; Apr. 13.
Governor for revolving doors. E. Peremi and A. Webel. 2,316,184; Apr. 13.
Grain door. A. P. Haase. 2,316,688; Apr. 13.
Grease retainer for crank pin bearings. O. B. Schoenky. 2,316,460; Apr. 13.
Greenhouse ventilation. J. Blain. 2,316,309; Apr. 13.
Grinding and polishing machine. L. L. Hercik. 2,316,582; Apr. 13.
Grinding tool. K. I. Harvey. 2,316,161; Apr. 13.
Guard for drinking troughs of poultry fountains, Safety sanitary. C. E. Hedrick. 2,316,426; Apr. 13.
Guard for poultry drinking fountains, Sanitary safety. C. E. Hedrick. 2,316,427; Apr. 13.
Guide, Wire line. L. L. Thompson. 2,316,727; Apr. 13.
Gun perforator. R. R. Thompson and W. D. Mounce. 2,316,728; Apr. 13.
Hairpin, Cross. M. R. Moseley. 2,316,179; Apr. 13.
Halide composition, Polyvinyl. H. Tucker. 2,316,196–7; Apr. 13.
Halogenated polymers of ethylene. D. Whittaker. 2,316,481; Apr. 13.
Handbag or the like. D. Lewis. 2,316,262; Apr. 13.
Handle mechanism for reels. W. D. Marr. 2,316,266; Apr. 13.
Hanger: *See*—
Garment hanger.
Heater: *See*—
Room heater. Solar heater.
Heater. L. Meyer and F. Klein. 2,316,273; Apr. 13.
Heater pad. W. J. De Bry, Jr. 2,316,505; Apr. 13.
Heating and ventilating system, Combination. E. E. Hans. 2,316,421; Apr. 13.
Heating stove. H. R. Bloemsma. 2,316,392; Apr. 13.
Heating system. D. Gregg. 2,316,417; Apr. 13.
High frequency tube. F. D. Goodchild. 2,316,236; Apr. 13.
Hobbing machine. C. H. Schurr and H. C. Warner. 2,316,367; Apr. 13.
Hoe handle attachment. K. Matsunaga. 2,316,446; Apr. 13.
Holder: *See*—
Bottle holder. Match and cigarette holder.
Cake candle holder.
Holder. C. F. Anderson. 2,316,545; Apr. 13.
Hollow tubular member. W. W. McMinn. 2,316,349; Apr. 13.
Honing or polishing tool. A. Krastin. 2,316,257; Apr. 13.
Hood latch assembly with sliding bolt. R. Hill. 2,316,692; Apr. 13.
Horn, Electromagnetic. W. L. Barrow. 2,316,151; Apr. 13.
Humidification. R. F. Cockerill. 2,316,564; Apr. 13.
Hydraulically actuated system. J. C. Woodhouse and K. E. Walker. 2,316,497; Apr. 13.
Hydrocarbons, Treatment of. E. C. Lee and J. E. Ahlberg. 2,316,260; Apr. 13.
Hydrocarbons, Treatment of. W. J. Mattox. 2,316,271; Apr. 13.
Hydrogen chloride, Production. C. H. Smith. 2,316,633; Apr. 13.
Ignition timing device. J. J. Rose. 2,316,188; Apr. 13.
Illuminating device for pocketbooks. O. Hallbauer. 2,316,419; Apr. 13.
Images for four-color reproduction, Method and apparatus for making separation. A. C. Hardy, F. L. Wurzburg, Jr., and E. C. Dench. 2,316,581; Apr. 13.
Indicator: *See*—
Direction indicator. Phase indicator.
Induction meter. H. E. Trekell. 2,316,638; Apr. 13.
Industrial furnace. L. C. Hamlink. 2,316,580; Apr. 13.
Ink, Printing. H. P. Schmitz. 2,316,629; Apr. 13.
Insignia to rubber, Integrating colored. H. O. Bates. 2,316,149; Apr. 13.
Inspecting device. D. H. Levine. 2,316,440; Apr. 13.
Instrument case. W. L. Egy. 2,316,573; Apr. 13.
Instrument for the simultaneous direct determination of latitude and local sidereal time from a single setting on the night sky. N. W. Storer. 2,316,466; Apr. 13.
Internal combustion engine. C. S. Goby. 2,316,160; Apr. 13.
Internal combustion engine. E. A. Latta. 2,316,697; Apr. 13.
Internal combustion engine. H. Maruhn. 2,316,269; Apr. 13.
Internal combustion engine. B. A. Pyatt. 2,316,618; Apr. 13.
Iron and steel, Production of. H. A. Brassert and S. P Kinney. 2,316,665; Apr. 13.
Jack: *See*—
Automobile jack. Lifting jack.
Jewelry, Ring-mounted. E. S. and F. de Hoffmann. 2,316,225; Apr. 13.
Joint: *See*—
Expansion joint.
Joint for doll bodies. L. A. Weinstein. 2,316,732; Apr. 13.
Key and knife, Combination. W. H. Voos. 2,316,655; Apr. 13.
Knife. E. Hyatt. 2,316,246; Apr. 13.

Laminated products, Forming. O. C. H. Sturken. 2,316,467; Apr. 13.
Lamp: *See*—
Flash lamp.
Lamp. G. Mablck. 2,316,348; Apr. 13.
Lamp or illuminated ornament. S. Iwanowicz. 2,316,589; Apr. 13.
Lamp shades, Manufacture of. H. Dent. 2,316,568; Apr. 13.
Latch. W. O. Burke. 2,316,401; Apr. 13.
Lathe carriage feed mechanism. L. A. Carter. 2,316,403; Apr. 13.
Lathing system. A. L. Braxdale. 2,316,552; Apr. 13.
Leather manufacture. W. O. Dawson. 2,316,740–1; Apr. 13.
Leather, Ornamental sheet. Michael A. Miller. 2,316,351; Apr. 13.
Leather treating agent. M. J. Reider. 2,316,714; Apr. 13.
Lens and reading glass, Illuminated magnifying. U. Ullman. 2,316,301; Apr. 13.
Lifting jack. I. Von K. Hott. 2,316,432; Apr. 13.
Lighting apparatus. V. G. Anderson and H. W. Rambusch. 2,316,546; Apr. 13.
Lighting fixture construction. T. A. Carter, Jr. 2,316,404; Apr. 13.
Liquid phase extraction of glyceride oils and acids. S. E. Freeman. 2,316,512; Apr. 13.
Lithographic plate, Deep etching. P. Zeiger. 2,316,645; Apr. 13.
Lock: *See*—
Spindle lock.
Lobsters, Packing live. J. R. Macdonald. 2,316,607; Apr. 13.
Locking device for door keys. W. E. Amos. 2,316,544; Apr. 13.
Locking mechanism for doors. J. Vetter, Jr. 2,316,199; Apr. 13.
Loom for weaving. A. Moessinger. 2,316,703; Apr. 13.
Loop antenna system. W. van B. Roberts. 2,316,623; Apr. 13.
Louver construction. H. B. Ahlberg. 2,316,541; Apr. 13.
Luggage. H. J. Ries. 2,316,716–7; Apr. 13.
Machine for making cream filled wafers. S. S. Leaf. 2,316,259; Apr. 13.
Mast pole derrick. J. H. Wilson. 2,316,304; Apr. 13.
Match and cigarette holder. H. J. Shaw. 2,316,295; Apr. 13.
Materials, Method and means for testing. G. Keinath. 2,316,253; Apr. 16.
Mechanism for forming dense end cigarettes. C. Arelt. 2,316,213; Apr. 13.
Mechanism for furnishing intermittent sprays of liquid soap for baths, Automatic. H. Young. 2,316,307; Apr. 13.
Mechanism for marking containers. G. J. Huntley and E. Rolker. 2,316,517; Apr. 13.
Mercury cells, Operation of. W. C. Gardiner. 2,316,685; Apr. 13.
Metal bearing materials, Chlorination of. I. E. Muskat and R. H. Taylor. 2,316,275; Apr. 13.
Metal coatings from bases, Removing. E. C. Hall. 2,316,579; Apr. 13.
Meter: *See*—
Direct reading meter. Temperature water meter.
Fluid meter. Watt-hour meter.
Induction meter.
Method of manufacture. W. J. Doelker and G. J. Oswald. 2,316,506; Apr. 13.
Mixing and whipping apparatus. E. H. Clark 2,316,562; Apr. 13.
Mold. P. M. Mueller. 2,316,180; Apr. 13.
Molded cushion. P. D. Hammond. 2,316,687; Apr. 13.
Molding material, Preparation of plastic. R. P. Piperoux, and D. G. Soussloff. 2,316,283; Apr. 13.
Motor: *See*—
Fluid motor. Fluid pressure motor.
Mount for automatic guns, Hydraulically and pneumatically. A. Dewandre. 2,316,320; Apr. 13.
Mounting: *See*—
Air conditioning unit mounting.
Needle cooling apparatus. A. J. Giglio. 2,316,648; Apr. 13.
Needle cooling device. A. J. Giglio. 2,316,647; Apr. 13.
Nickel deposition Semibright. A. Wesley and J. W. Carey. 2,316,303; Apr. 13.
Nitrite composition. F. S. Chambers, Jr. 2,316,154; Apr. 13.
Nut, Self-locking. H. F. Gade. 2,316,684; Apr. 13.
Oil burner blower housing. L. I. Aldrich. 2,316,542; Apr. 13.
Oil burning apparatus. H. B. Donley. 2,316,226–7; Apr. 13.
Oil, Polymerization of oiticica. M. F. Pratt and H. G. Berge. 2,316,187; Apr. 13.
Oil Production of lubricating. U. B. Bray and C. E. Swift. 2,316,395; Apr. 13.
Oil regulating sleeve for bearings. J. S. Hoddy. 2,316,693; Apr. 13.
Oil, Stabilized. Sin-Iti Irigai. 2,316,587; Apr. 13.
Oil well straightener. L. R. Downing. 2,316,409; Apr. 13.
Oils, Cracking hydrocarbon. J. H. Hirsch. 2,316,334; Apr. 13.
Oils or fats, Treating edible. H. O. Renner. 2,316,621; Apr. 13.
Olefins, Polymerization of. P. Woog. 2,316,380; Apr. 13.
Organic substances, Purification of. K. L. Russell. 2,316,719; Apr. 13.
Organic sulphonate solutions, Flash distillation of. R. B. Colgate, R. L. Brandt, and H. D. Allen. 2,316,670; Apr. 13.
Oscilloscope scale. A. Bigalke. 2,316,550; Apr. 13.
Oxidation of organic compounds. D. J. Loder and A. McAlevy. 2,316,604; Apr. 13.
Package cover. J. T. Wright. 2,316,657; Apr. 13.
Package inverting machine. J. S. Cowl. 2,316,407; Apr. 13.
Pad: *See*—
Heater pad.
Paint composition. L. J. Howlett and W. H. Howlett. 2,316,585; Apr. 13.
Paper box. G. V. Poe. 2,316,362; Apr. 13.
Paper box. H. B. Royce. 2,316,457; Apr. 13.
Paper, Coating. E. Warner. 2,316,202; Apr. 13.
Paraffins, Isomerization of. V. N. Ipatieff and H. Pines. 2,316,247–8; Apr. 13.
Pen point material. N. E. Weigel. 2,316,478; Apr. 13.
Percolator boiler. A. P. Livar. 2,316,603; Apr. 13.
Phase indicator. E. M. Irwin. 2,316,434; Apr. 13.
Phase modulation. M. G. Crosby. 2,316,155; Apr. 13.
Phase reversing means. D. M. Davis. 2,316,567; Apr. 13.
Photographic emulsion. A. Marcis. 2,316,268; Apr. 13.
Photographic plate or film for the investigation of bodies or substances by means of neutrons. H. I. Kallmann. 2,316,595; Apr. 13.
Photomechanical process. J. A. C. Yule. 2,316,643; Apr. 13.
Photomechanical screen. J. A. C. Yule. 2,316,644; Apr. 13.
Pie band, Perforated. W. Ehrlich. 2,316,574; Apr. 13.
Pigment-containing products, Production of. G. Böhner. B. Wendt and J. Eggert. 2,316,535; Apr. 13.
Pigment, Lead chromate. W. G. Huckle and C. G. Polzer. 2,316,244; Apr. 13.
Pin setter for bowling alleys. M. Patterson. 2,316,183; Apr. 13.
Pipe coupling. L. T. H. Greig. 2,316,578; Apr. 13.
Piston expander. V. D. Ackerman. 2,316,210; Apr. 13.
Piston, Quick rering. H. Kopp. 2,316,341; Apr. 13.
Plastic compositions. C. O. Strother. 2,316,371; Apr. 13.
Plastic compositions containing polyisobutylene. M. Mueller-Cunradi, and W. Daniel. 2,316,706; Apr. 13.
Plastic frame for screens, ventilators, and windows. A. W. McDonald. 2,316,526; Apr. 13.
Plastics, Casein. F. W. Adams and W. H. Lycan. 2,316,146; Apr. 13.
Plow, Cultivating. R. Bloodworth. 2,316,393; Apr. 13.
Plow, Peanut and similar harvesting. G. W. Braxton. 2,316,501; Apr. 13.
Plug: *See*—
Attachment plug. Cord plug.
Pneumatic tire assembly. G. L. Benson. 2,316,549; Apr. 13.
Pocket for brief cases and the like, Side. H. J. and G. G. Guenther. 2,316,328; Apr. 13.
Pole changer control circuit. B. A. Wallace. 2,316,730; Apr. 13.
Polycarboxylic acids. D. J. Loder and W. F. Gresham. 2,316,606; Apr. 13.
Polycarboxylic acids. W. O. Teeters. 2,316,636; Apr. 13.
Polymerization of acetylene. O. Fuchs. 2,316,536; Apr. 13.
Polymerizing 2-halogeno-butadiene-1.3. R. Kitani, N. Takashima and H. Kaneko. 2,316,598; Apr. 13.
Polyvinyl halide composition. A. B. Japs. 2,316,169; Apr. 13.
Portable apparatus for treating flax straw. J. A. Johnson. 2,316,590; Apr. 13.
Portable drier. B. Campbell. 2,316,559; Apr. 13.
Pot, End dump cinder. W. Johnston, Jr. 2,316,336; Apr. 13.
Power transmission. D. Biermann. 2,316,390; Apr. 13.
Preselector. E. J. Mastney. 2,316,270; Apr. 13.
Press: *See*—
Vulcanizing press.
Press control, Full automatic. W. R. Tucker. 2,316,471; Apr. 13.
Pressure and flow regulator. D. Gregg. 2,316,416; Apr. 13.
Pressure regulator. J. Marshall. 2,316,445; Apr. 13.
Printing. J. J. Ormond. 2,316,708; Apr. 13.
Printing means. E. Bassist. 2,316,148; Apr. 13.
Propeller, Controllable pitch. P. R. Lea. 2,316,438; Apr. 13.
Propeller, Variable pitch. C. S. Williams. 2,316,482; Apr. 13.
Protective relay system, Current responsive. P. N. Sandstrom. 2,316,289; Apr. 13.
Protector finger for loom. R. G. Turner. 2,316,473; Apr. 13.
Protractor. F. H. Parks. 2,316,534; Apr. 13.

Protractor. T. A. Schaefer. 2,316,189; Apr. 13.
Pump: *See*—
Rotary liquid pump.
Pump controller, Oil well. R. Tipton. 2,316,494; Apr. 13.
Rack: *See*—
Article supporting rack. Roasting rack.
Clothes drying rack.
Raft launching device. T. W. Hooley, Jr. 2,316,431; Apr. 13.
Railway car truck. C. S. Johnston. 2,316,592; Apr. 13.
Railway sleeping car. P. Parke. 2,316,710; Apr. 13.
Rake. H. C. James. 2,316,168; Apr. 13.
Receptacle and garbage disposal system, Garbage retort. T. F. O'Shea. 2,316,360; Apr. 13.
Records from multilayer differentially color-sensitized film elements, Obtaining individual color-component. V. B. Sease and D. R. White. 2,316,294; Apr. 13.
Reel: *See*—
Fishing reel.
Refractory and method. Chrome magnesia. J. Berlek. 2,316,229; Apr. 13.
Refrigeration. C. E. Ploeger. 2,316,284; Apr. 13.
Regulator: *See*—
Electronic regulator. Pressure and flow regulator.
Frequency regulator.
Pressure regulator.
Regulator for liquefied petroleum gas equipment, Automatic change-over. R. W. Thomas. 2,316,373; Apr. 13.
Regulator resistance. W. Schönfeld. 2,316,292; Apr. 13.
Reinforced bag. J. F. Ames. 2,316,658; Apr. 13.
Relief valve. A. E. Jurs. 2,316,649; Apr. 13.
Reproducing system, Motion picture. R. Kuhnert 2,316,599; Apr. 13.
Reversible fabric. G. H. Khoury. 2,316,254; Apr. 13.
Riding breeches. H. Z. Isaacs. 2,316,588; Apr. 13.
Rim and attaching means for pneumatic tires. J. W. Carman. 2,316,502; Apr. 13.
Ring: *See*—
Drapery festoon ring.
Roaster system. M. D. Woodruff. 2,316,208; Apr. 13.
Roasting rack. G. L. Rees. 2,316,620; Apr. 13.
Rock drill. J. C. Curtis and E. G. Gartin. 2,316,672; Apr. 13.
Room heater. C. W. Clemons. 2,316,563; Apr. 13.
Rotary drier. H. L. Schmidt and H. C. French. 2,316,459; Apr. 13.
Rotary liquid pump. W. W. Davidson. 2,316,318; Apr. 13.
Rotary vapor generator. J. E. Loeffler. 2,316,522; Apr. 13.
Rub-out machine. E. F. Klenke, Jr. 2,316,518; Apr. 13.
Runner attachment for scooters. J. J. Meyer. 2,316,272; Apr. 13.
Saddle post, Cycle. H. E. Kalter. 2,316,436; Apr. 13.
Sampling device, Overfall. B. H. Hendrickson. 2,316,537; Apr. 13.
Scales with needles moving over scales and instantly indicating the weight in units, Dispensing. P. Endres. 2,316,230; Apr. 13.
Scanning device. Phonograph record. L. Thompson. 2,316,637; Apr. 13.
Scrap disposal system. H. J. Walpole. 2,316,476; Apr. 13.
Screen: *See*—
Photomechanical screen. Vibrating screen.
Securing means for elements of extrusion machines. J. H. Ramsey. 2,316,720; Apr. 13.
Shaft coupling. T. L. Fawick. 2,316,509; Apr. 13.
Shaft drive for motorcycles. G. B. Weaver. 2,316,477; Apr. 13.
Sheet making apparatus. E. M. Kratz. 2,316,173; Apr. 13.
Sheet trimming device. R. A. Williams. 2,316,205; Apr. 13.
Sheeting, producing a non-sticking, smooth, flameproof, thin, flexible. W. D. White. 2,316,496; Apr. 13.
Shield, Blackout. D. H. Wright. 2,316,305; Apr. 13.
Shield, Radio. W. D. Dayton. 2,316,504; Apr. 13.
Shoe. J. Fein. 2,316,325; Apr. 13.
Shoe quarter and forming same. E. Quinn and A. L. Jalbert. 2,316,363; Apr. 13.
Sign: *See*—
Street sign.
Signal: *See*—
Tire pressure signal.
Signal system, Alarm. J. H. Wheelock and H. F. Cypser. 2,316,639; Apr. 13.
Sizing and coating apparatus. W. Nivling. 2,316,531; Apr. 13.
Slack adjuster. F. W. Burger. 2,316,400; Apr. 13.
Sleeve connector. E. S. McLarn. 2,316,267; Apr. 13.
Slicing machine. A. A. Kottmann and E. C. Vollmer. 2,316,171; Apr. 13.
Sliding car door. W. A. Beauchamp. 2,316,661; Apr. 13.
Sliding car door. F. Ditchfield. 2,316,322; Apr. 13.
Sliding car door. A. J. Doyle. 2,316,675; Apr. 13.
Sliding car door. H. H. Henricks. 2,316,332; Apr. 13.
Soapmaking. R. F. Heald and A. L. Schulerud. 2,316,689; Apr. 13.
Softening agents, Production of. P. Kümmel. 2,316,258; Apr. 13.
Solar heater. C. A. Scott. 2,316,191; Apr. 13.
Sorting machine feeding and ejecting device. F. Van Haften. 2,316,375; Apr. 13.
Sound reproducing device. J. G. Kurzen, Jr. 2,316,174–5; Apr. 13.
Soybeans, Preparing. O. Scalise. 2,316,458; Apr. 13.
Spindle lock. R. B. Swarens, E. F. Attula, and H. S. Molony. 2,316,403; Apr. 13.
Spreader. F. H. Wyman. 2,316,306; Apr. 13.
Spring bolt structure. J. W. Leighton. 2,316,439; Apr. 13.
Spring for chair seats, Laminated flexwood. A. J. Schaffner. 2,316,628; Apr. 13.
Stabilization of tetraethyl lead and a motor fuel containing the same. E. W. Cook and W. D. Thomas, Jr. 2,316,739; Apr. 13.
Stand: *See*—
Display stand.
Steel rule slot cutting means. J. D. Klopfenstein. 2,316,650; Apr. 13.
Sterile articles, Aseptic transfer of. C. W. Walter. 2,316,731; Apr. 13.
Sterilizer, Telephone. G. L. Danley and A. J. Gordon. 2,316,540; Apr. 13.
Stick, Hot. A. R. Williams. 2,316,204; Apr. 13.
Strain responsive apparatus. E. E. Simmons, Jr. 2,316,203; Apr. 13.
Strand handling apparatus. W. C. Ewaldson. 2,316,508; Apr. 13.
Strand handling apparatus. A. C. Nystrom and L. G. Wade. 2,316,613; Apr. 13.
Street sign. H. M. Patterson. 2,316,539; Apr. 13.
Strip, Flashing. A. W. Bailey. 2,316,660; Apr. 13.
Structural element. G. W. Causey. 2,316,560; Apr. 13.
Stylus, Metal etching. R. B. Aunis. 2,316,388; Apr. 13.
Subsurface prospecting. D. G. C. Hare. 2,316,329; Apr. 13.
Subtractive multicolor images, Retouching of. W. Schneider and G. Wilmanns. 2,316,291; Apr. 13.
Sulphonic acids and preparing them. L. Orthner and W. Langbein. 2,316,538; Apr. 13.
Sulphonium compounds, Preparing. A. E. Bearse and R. S. Shutt. 2,316,152; Apr. 13.
Sulphur from gases containing sulphureted hydrogen, carbon oxysulphide, and carbon disulphide, Recovering elemental. S. J. Walden and R. S. M. Sundgren-Walden. 2,316,201; Apr. 13.
Sulphur, Processing. D. McDonald. 2,316,673; Apr. 13.
Summary form means. J. Zalkind. 2,316,209; Apr. 13.
Support for binoculars, Face. A. H. Hoffeditz. 2,316,164; Apr. 13.
Support for trolley wires. L. V. Smoot and H. A. Bachler. 2,316,464; Apr. 13.
Support unit for ovens and the like, Hunting element. L. E. Butters. 2,316,222; Apr. 13.
Supporting base for electric scissors. M. S. Park. 2,316,486; Apr. 13.
Surge suppression. W. L. Kitsman. 2,316,339; Apr. 13.
Surgical instrument. B. A. Southerland. 2,316,297; Apr. 13.
Sweeper, Carpet. I. J. Owen. 2,316,709; Apr. 13.
Switch construction. H. A. Triplett. 2,316,470; Apr. 13.
Switch rod connecting means, Railway. H. L. Bone. 2,316,312; Apr. 13.
System and truck for loading boxed produce. H. C. Pierce. 2,316,614; Apr. 13.
System of reducing pressures. J. S. Abercrombie. 2,316,383; Apr. 13.
Table: *See*—
Bowling score sheet display table. Extension table.
Tall-oil refining. J. N. Borglin. 2,316,499; Apr. 13.
Tank: *See*—
Bimetal tank.
Tank. W. J. Bigley, Jr. 2,316,662; Apr. 13.
Tank construction. W. J. Simonds. 2,316,296; Apr. 13.
Tank for use in aircraft. H. C. Tryon. 2,316,729; Apr. 13.
Tank gauge. J. F. Wilhelm. 2,316,377; Apr. 13.
Tape, Ionograph. E. J. Köhn. 2,316,340; Apr. 13.
Telecommunication system. L. B. Haigh and L. Kozma. 2,316,238; Apr. 13.
Temperature measuring device. F. G. Bloch. 2,316,391; Apr. 13.
Temperature water meter. A. J. Van den Berg. 2,316,198; Apr. 13.
Terminal connectors and positioning means therefor. K. C. Bugg. 2,316,555; Apr. 13.
Terminator. W. O. Hampton and E. S. Cornell. 2,316,420; Apr. 13.
Terpene halo-alkyl-ether-amine condensation products. L. W. Rothenberger. 2,316,625; Apr. 13.
Testing device, Balance. S. W. Martin. 2,316,524; Apr. 13.
Tetrahydro benzothiazole. P. C. Jones. 2,316,250; Apr. 13.
Textiles, Removing impurities from washed. E. Wolter. 2,316,379; Apr. 13.
Theft prevention device. H. Jaffa. 2,316,695; Apr. 13.
Thermoelectric apparatus for heating compounds used for dental impressions. J. M. Ribas. 2,316,287; Apr. 13.

Thermometer. Le R. V. Edwards, R. E. Tarring, and A. A. Weiss. 2,316,677; Apr. 13.
Thermometer, Expansion. W. Neuse. 2,316,611; Apr. 13.
Tile, Building. W. G. Demarest. 2,316,319; Apr. 13.
Timing device. M. H. Rhodes. 2,316,364; Apr. 13.
Tire-building apparatus. F. J. Shook. 2,316,369; Apr. 13.
Tire chain. W. R. Royer. 2,316,718; Apr. 13.
Tire pressure signal. E. F. Schubert. 2,316,461; Apr. 13.
Toaster-coated unit. J. W. Myers. 2,316,699; Apr. 13.
Tobacco smoking device. E. B. Helm. 2,316,162; Apr. 13.
Tool: *See*—
External honing tool. Honing or polishing tool.
Grinding tool. Transmission line tool.
Tourniquet. A. Eschner. 2,316,157; Apr. 13.
Tourniquet, Adjustable. A. Eschner. 2,316,158; Apr. 13.
Toy train controller. J. L. Bonanno. 2,316,551; Apr. 13.
Trailer wagon, Bottom dump. H. C. French. 2,316,412; Apr. 13.
Trainer, Pre-flight reflex and gunnery. W. C. Ocker and C. J. Crane. 2,316,181; Apr. 13.
Transformer. G. Camilli. 2,316,558; Apr. 13.
Transformer. J. S. Smith and F. Dawson. 2,316,370; Apr. 13.
Transmission gearing, Change speed. G. W. Curtis. 2,316,503; Apr. 13.
Transmission line tool. D. C. Hubbard. 2,316,243; Apr. 13.
Trash separator and beet piece saver. J. W. Butcher. 2,316,556; Apr. 13.
Traveling tool carrier. R. S. Stephens. 2,316,747; Apr. 13.
Tray, Glass. R. A. Miller. 2,316,529; Apr. 13.
Trip mechanism for table leaf brace. T. E. McFall. 2,316,447; Apr. 13.
Triple valve bracket. T. H. Birch. 2,316,218; Apr. 13.
Trolley crossing and switch device. W. J. Lewis. 2,316,441; Apr. 13.
Truck, Vehicle supporting. R. C. Townsend. 2,316,374; Apr. 13.
Tube: *See*—
High frequency tube.
Tube coupling. A. L. Parker, W. Hargrave, and J. N. Wolfram. 2,316,711; Apr. 13.
Tuning device for radio apparatus. F. E. Baum and T. N. D. Phillips. 2,316,547; Apr. 13.
Turning machine. De W. Clausen. 2,316,405; Apr. 13.
Typewriter casing. G. Prezioso. 2,316,617; Apr. 13.
Typewriting machine. R. L. Bredimus. 2,316,666; Apr. 13.
Under-cut sickle for windrowers. P. C. Viken. 2,316,475; Apr. 13.
Vacuum cleaner. D. M. Dow, F. H. Burmeister, and C. A. Lindberg. 2,316,674; Apr. 13.
Valve: *See*—
Bimetal valve. Relief valve.
Flat-top slush pump valve.
Valve chamber, Oval plug. R. M. Garrison. 2,316,413; Apr. 13.
Valve stem grinding attachment. L. L. Johnson. 2,316,591; Apr. 13.
Valve lifter and spring compressor. H. A. Berkman. 2,316,646; Apr. 13.
Vegetable peeling machine. N. S. Sells. 2,316,368; Apr. 13.
Vegetable thinner and blocker. E. A. Boelter. 2,316,663; Apr. 13.
Vehicle: *See*—
Automotive vehicle.
Vehicle mounting structure. A. L. Lee. 2,316,521; Apr. 13.
Vending machine. C. L. Casey. 2,316,315; Apr. 13.
Vibrating screen. L. G. Symons. 2,316,725; Apr. 13.
Vibration responsive device. F. K. Powell. 2,316,616; Apr. 13.
Vinyl resin coating composition. A. K. Doolittle. 2,316,323; Apr. 13.
Vinyl esters, Manufacture of. K. H. W. Tuerck. 2,316,472; Apr. 13.
Voltage regulating apparatus. L. K. Hedding. 2,316,331; Apr. 13.
Vulcanizing press. R. G. Minns and H. T. Tornberg. 2,316,352; Apr. 13.
Wall for basement windows, Soil retaining. R. E. Prince and J. T. Edwards. 2,316,712; Apr. 13.
Wall panel securing means. H. Hasenburger and H. W. Corbett. 2,316,424; Apr. 13.
Wall and plumbing fixture. M. Grunt. 2,316,514; Apr. 13.
Wall unit assembly. J. E. Bronner. 2,316,668; Apr. 13.
Washing apparatus. G. W. Dunham. 2,316,570; Apr. 13.
Washing device. L. Garin. 2,316,326; Apr. 13.
Water closet construction. M. Grunt. 2,316,515; Apr. 13.
Watt-hour meter. W. H. Farr. 2,316,410; Apr. 13.
Weaving frame. T. P. Littlepage, Jr. 2,316,698; Apr. 13.
Welding, Method of and apparatus for. H. Kershaw. 2,316,597; Apr. 13.
Well, Shooting. H. T. Kennedy. 2,316,596; Apr. 13.
Well surveying method and apparatus. R. E. Fearon. 2,316,576; Apr. 13.
Wells, Method and apparatus for surveying. R. G. Piety. 2,316,361; Apr. 13.
Wheel assembly. A. W. Woodward. 2,316,642; Apr. 13.
Wheel for roller skates. C. A. Biczak, Jr. 2,316,498; Apr. 13.
Wheel trim, Making. G. A. Lyon. 2,316,346; Apr. 13.
Winding machine having a plurality of winding spindles. W. Siegenthaler. 2,316,462; Apr. 13.
Window, Black-out. R. H. Lootens. 2,316,442; Apr. 13.
Wiring duct. J. E. Huguelet. 2,316,166; Apr. 13.
Wrecking bar with ladder hook. N. C. Sorenson. 2,316,723; Apr. 13.
Wrench. F. P. Richardson. 2,316,455; Apr. 13.
Wringer, Constant pressure. A. J. Patch. 2,316,281; Apr. 13.
X-Ray tube timer. J. M. Constable and R. W. Stamm. 2,316,566; Apr. 13.
Yarn preparation. A. S. Hunter. 2,316,245; Apr. 13.

CLASSIFICATION OF PATENTS

ISSUED APRIL 13, 1943

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

2—	97: 2,316,387	43—	15: 2,316,256	75—	111: 2,316,275	119—	2: 2,316,607	171—	95: 2,316,153	206—	1: 2,316,573
	111: 2,316,602		30: 2,316,500	80—	1: 2,316,571		51: 2,316,463		97: 2,316,551		38: 2,316,655
	169: 2,316,575	44—	69: 2,316,739	81—	53: 2,316,294		77: 2,316,426		119: 2,316,561		41: 2,316,295
	227: 2,316,588	46—	173: 2,316,732		2,316,428		2,316,427		2,316,707		44: 2,316,574
4—	10: 2,316,515	47—	35: 2,316,263		57: 2,316,243	120—	29: 2,316,324		206: 2,316,635		51: 2,316,657
	165: 2,316,333		62: Pl.Pt. 575		165: 2,316,455		52: 2,316,479		209: 2,316,616		58: 2,316,469
	166: 2,316,514	48—	190: 2,316,251	82—	14: 2,316,405		109: 2,316,478		264: 2,316,410		84: 2,316,487
	288: 2,316,724		193: 2,316,686		21: 2,316,403	121—	98: 2,316,316		2,316,638	209—	3: 2,316,195
5—	143: 2,316,681	49—	48: 2,316,532	83—	22: 2,316,518		99: 2,316,356		312: 2,316,577		12: 2,316,556
8—	64: 2,316,277		84: 2,316,749	85—	1: 2,316,729	122—	11: 2,316,522		321: 2,316,651		111: 2,316,375
	142: 2,316,386	51—	7: 2,316,586		32: 2,316,695		39: 2,316,735		2,316,652		166: 2,316,743
9—	22: 2,316,431		56: 2,316,490	88—	2.2: 2,316,466		225: 2,316,603	172—	245: 2,316,434		329: 2,316,725
10—	1: 2,316,231		124: 2,316,591		17: 2,316,599	123—	32: 2,316,697	173—	328: 2,316,555	210—	134: 2,316,206
12—	33: Re.22,301		139: 2,316,582		24: 2,316,550		33: 2,316,269		338: 2,316,167		203: 2,316,721
	146: 2,316,363		184.2: 2,316,257		34: 2,316,164		51: 2,316,394	174—	75: 2,316,420	211—	104: 2,316,433
15—	47: 2,316,709		184.3: 2,316,422		39: 2,316,301		75: 2,316,160		84: 2,316,267	212—	41: 2,316,680
	128: 2,316,326		194: 2,316,545	89—	37.5: 2,316,320		2,316,618		102: 2,316,293	214—	1: 2,316,407
	181: 2,316,185		273: 2,316,476	90—	1.4: 2,316,676		148: 2,316,504	175—	294: 2,316,170		65.5: 2,316,614
18—	15: 2,316,173		307: 2,316,161		4: 2,316,367		188: 2,316,488		2,316,289		83: 2,316,435
	17: 2,316,352	52—	24: 2,316,358	91—	3: 2,316,259	126—	70: 2,316,392		356: 2,316,370	215—	38: 2,316,453
	24: 2,316,715	53—	6: 2,316,620		50: 2,316,531		271: 2,316,191		361: 2,316,558	219—	4: 2,316,597
	33: 2,316,631	55—	54: 2,316,501	94—	18: 2,316,233	128—	204: 2,316,237		363: 2,316,331		12: 2,316,500
	34: 2,316,298	56—	181: 2,316,475	95—	2: 2,316,291		2,316,416		2,316,594		19: 2,316,222
	48: 2,316,283		400.17: 2,316,168		2,316,294		326: 2,316,297		366: 2,316,553		2,316,699
	56: 2,316,700	57—	15: 2,316,613		5: 2,316,643		327: 2,316,157	176—	122: 2,316,348	220—	24: 2,316,302
	59: 2,316,149	60—	52: 2,316,471		5.4: 2,316,148		2,316,158		2,316,366		40: 2,316,507
19—	90: 2,316,590		53: 2,316,278		7: 2,316,268	129—	4: 2,316,209	177—	311: 2,316,411		63: 2,316,437
	114: 2,316,557		54.5: 2,316,497		8: 2,316,595		16: 2,316,489		329: 2,316,584		72: 2,316,296
20—	4: 2,316,424	62—	1: 2,316,338		36: 2,316,604	131—	61: 2,316,213		352: 2,316,354	220—	86: 2,316,308
	5: 2,316,345		2,316,373		81: 2,316,644		184: 2,316,162		360: 2,316,639	221—	62: 2,316,516
	6: 2,316,232		2,316,495	97—	59: 2,316,663	132—	21: 2,316,335	178—	5.2: 2,316,581		24: 2,316,372
	8: 2,316,671		6: 2,316,641		71.1: 2,316,446		50: 2,316,179	179—	1: 2,316,567	223—	96: 2,316,523
	11: 2,316,425		7: 2,316,376		198.1: 2,316,393	137—	21: 2,316,729		7.1: 2,316,238		2,316,533
	16: 2,316,528		19: 2,316,265	98—	2: 2,316,421		53: 2,316,649		87: 2,316,730	224—	7: 2,316,511
	19: 2,316,510		112: 2,316,282		40: 2,316,541		153: 2,316,445		171: 2,316,474		9: 2,316,456
	26: 2,316,321		115: 2,316,284		94: 2,316,634	138—	261 2,316,339		171.5: 2,316,155		48: 2,316,454
	2,316,322		121: 2,316,423		99.6: 2,316,640		73: 2,316,349		185: 2,316,540		2,316,738
	2,316,332		129: 2,316,704	99—	21: 2,316,733		75: 2,316,166	180—	33: 2,316,477	225—	40: 2,316,406
	2,316,661		177: 2,316,744		48: 2,316,241	139—	34: 2,316,698	183—	36: 2,316,674	226—	23: 2,316,659
	2,316,675	63—	29: 2,316,225		98: 2,316,458		188: 2,316,703		44: 2,316,527		2,316,683
	30: 2,316,688	64—	11: 2,316,509		249: 2,316,193		345: 2,316,473	188—	18: 2,316,400	228—	51: 2,316,723
21—	90: 2,316,731	65—	53: 2,316,529	100—	19: 2,316,734		414: 2,316,254		32: 2,316,178	229—	1.5: 2,316,150
22—	52: 2,316,279	67—	23: 2,316,342		20: 2,316,722	141—	9: 2,316,570		106: 2,316,450		23: 2,316,384
	144: 2,316,180		31: 2,316,344	101—	7: 2,316,517		2,316,748		152: 2,316,414		2,316,457
	157: 2,316,280	68—	20: 2,316,669		149.2: 2,316,645	146—	49: 2,316,368		187: 2,316,184		28: 2,316,186
23—	18: 2,316,583		208: 2,316,630		211: 2,316,708		88: 2,316,171	189—	1: 2,316,712		31: 2,316,261
	104: 2,316,154		263: 2,316,281	102—	6: 2,316,656		2,316,200		34: 2,316,519		33: 2,316,701
	122: 2,316,343	70—	264: 2,316,199		23: 2,316,596		193: 2,316,159		3,316,569		45: 2,316,362
	154: 2,316,633		430: 2,316,544		87: 2,316,172	149—	5: 2,316,740		36: 2,316,560		55: 2,316,385
	184: 2,316,691	72—	41: 2,316,319	103—	26: 2,316,494		2,316,741		64: 2,316,442		57: 2,316,658
	226: 2,316,201		46: 2,316,668		121: 2,316,318	150—	1.6: 2,316,328	190—	41: 2,316,716	230—	114: 2,316,224
	299: 2,316,673		116: 2,316,552		180: 2,316,679		29: 2,316,262		2,316,717		115: 2,316,452
24—	221: 2,316,548		126: 2,316,660		181: 2,316,429	151—	21: 2,316,684	191—	37: 2,316,441		117: 2,316,608
26—	70: 2,316,440	73—	21: 2,316,537	104—	2: 2,316,747	152—	213: 2,316,718		40: 2,316,464		133: 2,316,542
28—	1: 2,316,245		51: 2,316,217		98: 2,316,667		330: 2,316,549	192—	13: 2,316,396	235—	60: 2,316,520
	78: 2,316,350		2,316,253	105—	30: 2,316,223	154—	10: 2,316,369	195—	3: 2,316,621	236—	49: 2,316,309
29—	84: 2,316,593		2,316,378		208.2: 2,316,592		25: 2,316,746	196—	10: 2,316,380		69: 2,316,240
	86.3: 2,316,646		2,316,624		315: 2,316,710		27: 2,316,451		13: 2,316,395	237—	2: 2,316,619
	88.2: 2,316,306		53: 2,316,524		370: 2,316,554		40: 2,316,467		48: 2,316,334		9: 2,316,417
	159: 2,316,346		198: 2,316,198		409: 2,316,696	155—	142: 2,316,484		52: 2,316,260	240—	1: 2,316,404
30—	40: 2,316,600		228: 2,316,255	106—	48: 2,316,745		166: 2,316,687	197—	63: 2,316,666		2: 2,316,382
	153: 2,316,246		233: 2,316,492		49: 2,316,742		179: 2,316,628		186: 2,316,617		6.45: 2,316,419
	231: 2,316,486		317: 2,316,377		59: 2,316,228	158—	91: 2,316,226	198—	134: 2,316,177		10: 2,316,589
33—	23: 2,316,483		367: 2,316,391		2,316,229		2,316,227		162: 2,316,654		78: 2,316,546
	75: 2,316,534		374: 2,316,677		95: 2,316,585	159—	11: 2,316,176		200: 2,316,313		108: 2,316,305
	79: 3,316,485	74—	10: 2,316,270		147: 2,316,146	160—	34: 2,316,398	200—	5: 2,316,678		2,316,568
	94: 2,316,189		2,316,547		186: 2,316,242		104: 2,316,526		19: 2,316,156	242—	34: 2,316,462
	181: 3,316,188		2,316,626		281: 2,316,357		330: 2,316,337		58: 2,316,461		45: 2,316,508
34—	10: 2,316,207		55: 2,316,408		298: 2,316,244	161—	15: 2,316,364		115.5: 2,316,163		84.5: 2,316,314
	92: 2,316,459		189.5: 2,316,390		308: 2,316,535	164—	0.5: 2,316,728		138: 2,316,612	244—	78: 2,316,235
	124: 2,316,212		331: 2,316,503	107—	54: 2,316,165		33: 2,316,650		149: 2,316,470		102: 2,316,682
35—	12: 2,316,181		483: 2,316,266	110—	75: 2,316,381		36: 2,316,249	201—	63: 2,316,203		119: 2,316,622
	21: 2,316,147		548: 2,316,266	112—	218: 2,316,647		68: 2,316,221		2,316,292	248—	316: 2,316,290
36—	45: 2,316,325		594.3: 2,316,530		2,316,648		77: 2,316,205	202—	114: 2,316,360	249—	2: 2,316,310
	59: 2,316,601		600: 2,316,399	113—	104: 2,316,355	166—	1: 2,316,402	204—	2: 2,316,340	250—	11: 2,316,151
40—	124.1: 2,316,443		604: 2,316,288	116—	129: 2,316,230		2: 2,316,383		49: 2,316,303		
	131: 2,316,539	75—	21: 2,316,330	117—	92: 2,316,572	167—	78: 2,316,311		99: 2,316,685		
	152.1: 2,316,615		32: 2,316,665		102: 2,316,202	170—	135.6: 2,316,438		146: 2,316,579		
41—	34: 2,316,351		91: 2,316,664		137: 2,316,496		163: 2,316,482		297: 2,316,609		

250—	20: 2,316,610	252—	136: 2,316,220	260—	49: 2,316,714	290—	563: 2,316,625	274—	2: 2,316,175	298—	35: 2,316,412
	27: 2,316,317		142: 2,316,379		70: 2,316,653		607: 2,316,152	280—11.13:	2,316,252	299—	73: 2,316,307
	27.5: 2,316,236		161: 2,316,194		86: 2,316,371		635: 2,316,564		27: 2,316,272	301—	5.7: 2,316,498
	2,316,264		251: 2,316,726		92.7: 2,316,598		664: 2,316,736		33.1: 2,316,702		13: 2,316,642
	2,316,276	254—	94: 2,316,430		94: 2,316,481		2,316,737		33.11: 2,316,397	303—	1: 2,316,218
	2,316,415		98: 2,316,432		97.5: 2,316,499		668: 2,316,271		111: 2,316,374	305—	9: 2,316,662
	33: 2,316,623		139.1: 2,316,304		227: 2,316,525		678: 2,316,536		2,316,521	308—	6: 2,316,468
	40: 2,316,365	255—	1.4: 2,316,216		302: 2,316,250		683.5: 2,316,247	282—	15: 2,316,444		2,316,727
	83.6: 2,316,239		1.6: 2,316,409		397.5: 2,316,190		2,316,248	284—	17: 2,316,578		36.2: 2,316,460
	2,316,329		45: 2,316,192		400: 2,316,719		787: Re.22,300	285—	86: 2,316,711		2,316,565
	2,316,361		51: 2,316,672		407: 2,316,187	261—	69: 2,316,300		97.7: 2,316,690		132: 2,316,093
	2,316,576	256—	10: 2,316,211		428.5: 2,316,512		2,316,327	287—	14: 2,316,436		195: 2,316,449
	.95: 2,316,566	257—	246: 2,316,273		481: 2,316,234		106: 2,316,353		58: 2,316,389	309—	12: 2,316,210
	160: 2,316,214	259—	85: 2,316,562		484: 2,316,604		112: 2,316,491		97: 2,316,312		15: 2,316,341
251—	91: 2,316,413		146: 2,316,705		2,316,605	263—	19: 2,316,559	288—	3: 2,316,713	311—	42: 2,316,448
	144: 2,316,480	260—	17: 2,316,274		486: 2,316,472		33: 2,316,208	290—	4: 2,316,513		64: 2,316,447
252—	1: 2,316,258		23: 2,316,169		504: 2,316,670		40: 2,316,580	292—	122: 2,316,401	312—	51: 2,316,182
	37: 2,316,347		32: 2,316,196		513: 2,316,538	265—	29: 2,316,627		171: 2,316,692		64: 2,316,315
	42: Re.22,299		2,316,197		534: 2,316,215	266—	39: 2,316,336		218: 2,316,359		174: 2,316,632
	63.7: 2,316,587		2,316,323		2,316,606	267—	54: 2,316,439		359: 2,316,493		
	64: 2,316,299		2,316,629		2,316,636	273—	43: 2,316,183	295—	8.5: 2,316,502		
	109: 2,316,689		41: 2,316,418		537: 2,316,543	274—	1: 2,316,174	297—	3: 2,316,285		
	136: 2,316,219		2,316,706		544: 2,316,465		2,316,637		2,316,611		

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

2,316,162:	131— 184	2,316,290:	248— 316	2,316,384:	229— 23	2,316,497:	60— 54.5	2,316,625:	260— 563	2,316,685:	204— 99
2,316,172:	102— 87	2,316,315:	312— 64	2,316,423:	62— 121	2,316,512:	260—428.5	2,316,630:	68— 208	2,316,724:	4— 288
2,316,205:	164— 77	2,316,334:	196— 48	2,316,427:	119— 77	2,316,518:	83— 22	2,316,633:	23— 154	2,316,726:	252— 251
2,316,208:	263— 33	2,316,347:	252— 37	2,316,435:	214— 83	2,316,521:	280— 111	2,316,640:	98— 99.6	2,316,744:	62— 177
2,316,214:	250— 160	2,316,348:	176— 122	2,316,443:	40—124.1	2,316,526:	160— 104	2,316,645:	101—149.2		
2,316,240:	236— 69	2,316,353:	261— 106	2,316,459:	34— 92	2,316,527:	183— 44	2,316,647:	112— 218		
2,316,273:	257— 246	2,316,376:	62— 7	2,316,475:	56— 181	2,316,583:	23— 18	2,316,669:	68— 20		
2,316,279:	22— 52	2,316,379:	252— 142	2,316,494:	103— 26	2,316,587:	252— 63.7	2,316,674:	183— 36		
2,316,281:	68— 263	2,316,381:	110— 75	2,316,496:	117— 137	2,316,621:	195— 3	2,316,681:	5— 143		

U. S GOVERNMENT PRINTING OFFICE: 1943

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

RENSTROM
v.
SOLOMON

No. 4,657. Decided December 1, 1942. Petition for rehearing denied January 29, 1943. Motion for leave to file second petition for rehearing denied February 26, 1943

[— F.(2d) —]

INTERFERENCE—PRIORITY.

Record reviewed and *Held* that the four claims which S, the senior party, copied into his application from the patent of R, the junior party, do not read upon the disclosure of said application and *Held* that priority should have been awarded to R.

APPEAL from the Patent Office. Reversed.

Messrs. Cushman, Darby & Cushman (*Mr. William M. Cushman* and *Mr. Gorham F. Freer* of counsel) for Renstrom.

Mr. Charles M. Palmer for Solomon.

GARRETT, *P. J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming that of the Examiner of Interferences awarding priority of invention to the party Solomon as to four counts involved in an interference declared between a patent issued to the party Renstrom, and an application of the party Solomon, the subject matter being broadly defined as hair curlers.

The patent to Renstrom, No. 2,118,737, bears date of May 24, 1938, the application, Serial No. 184,459, therefore having been filed January 11, 1938. The application of Solomon, Serial No. 177,666, was filed December 2, 1937. So, Renstrom is the junior party.

At some time during the prosecution of Solomon's application, apparently March 3, 1939, he amended it by copying four of the six claims of the Renstrom patent and requested an interference declaration. The interference was declared March 20, 1939.

Counts 1 and 2 (which are claims 1 and 3 of the patent) are typical. They read:

1. A roller for coacting with an end of a hair curler to secure clamp means thereof in hair clamping position, the roller being polygonal.

2. A roller for pivotal mounting and coacting with an end of a hair curler to secure clamp means thereof in hair-clamping position, the roller being resilient and having a polygonal periphery.

During the motion period (following the opening of the preliminary statements of the respective parties) Renstrom moved to dissolve the interference. The motion was denied by the Primary Examiner. Renstrom took no testimony and orders by the Examiner of Interferences followed, culminating in one of November 27, 1940, making the award of priority to Solomon, which, upon appeal by Renstrom, was affirmed by the Board in the decision now before us for review.

From the decision of the Primary Examiner we quote the following description, the italics being supplied, and numerals omitted:

The common invention relates to a hair curler comprising a tubular mandrel, a semi-tubular clamping finger pivotally connected to the mandrel, and a loop whose intwined ends form the pivot for connecting the tubular, semi-tubular, and loop members, which loop is provided at its bight portion with an element to be partly received within the open end of the tube for holding the parts closed. In operation of the device, the outer end of a strand of hair is placed beneath the clamping finger and bound to the mandrel, the strand of hair is then wound about the mandrel and clamping finger, and, when the strand is completely wound the loop is moved into closed position and so retained in Renstrom by the *polygonal* figure mounted on the bight portion of the loop being partly received in the tubular mandrel and in Solomon by the *toothed wheel* being partly received within the tubular mandrel. The devices do not differ in the type of means mounted at the bight portion of the loop that of Renstrom, however being designated a polygonal preferably octagonal roller of rubber • • • ; while that of Solomon is designated a soft rubber disc stay • • • having a peripheral rim or surface provided with a closed band of spaced teeth • • •.

The particular feature about which the controversy revolves is the element described in counts 1 and 3 as a polygonal roller, and in counts 3 and 4 as a roller having a polygonal periphery—descriptions which, in the final analysis, have the same meaning.

In his motion to dissolve, Renstrom stated two general grounds. The first is that Solomon has no right to make the counts because of lack of any disclosure of, or claim to, a polygonal roller, or a roller having a polygonal periphery. The second is alternative, viz., that if the counts be construed to read upon the subject matter disclosed in the Solomon application they are unpatentable to Solomon over certain references which were made of record by the Primary Examiner in connection with Solomon's application during its prosecution and before the claims which constitute the counts had been copied into same.

In connection with the first ground Renstrom made the contention that the counts should be regarded ambiguous and, therefore, interpreted in the light of his patent from which they were taken.

Under the view which we take of the case only the first ground need be considered.

We feel constrained to disagree with the holding of the tribunals of the Patent Office that the toothed wheel shown in the application of Solomon meets the requirement of the counts for a polygonal roller, or a roller having a polygonal periphery.

Webster's New International Dictionary defines "polygon" as "A figure, generally plane and closed, having many angles, and hence many sides, esp. one of more than four angles."

The Primary Examiner said, "The sides of the teeth [on the periphery of the wheel shown in Solomon's application] are obviously the sides of a polygon." The Board, we suppose, entertained the same view.

The teeth on the periphery are integral with the wheel and constitute a part of same. As shown in the drawings of the Solomon application the two sides of each tooth slope to a narrow point at its outer end and the wheel, viewed either with or without its toothed part, is circular in shape. It

does not seem to us proper to regard the "sides of the teeth" as sides of the wheel itself, and under the wording of the claims the limitation as to the shape of the roller considered as a whole is the important feature.

For the reasons stated, we are unable to agree that the roller shown by Solomon may properly be held to be polygonal, or to have a polygonal periphery.

Consequently the decision of the Board affirming that of the Examiner of Interferences is reversed.

Reversed.

U. S. Court of Customs and Patent Appeals

IN RE SWENSON ET AL.

No. 4,766. Decided December 1, 1942. Petition for rehearing denied January 29, 1943

[— F.(2d) —]

1. PATENTABILITY—PROCESS FOR COATING GRANULES AND PRODUCT.

Certain claims to a process for coating granules with a glaze composition containing coloring matter and to the resultant product *Held* unpatentable in view of the prior art.

2. SAME—INVENTION.

"We can see no patentable distinction between the forming of a colored glazed coating which is weather resisting and substantially free from water soluble chromates and dichromates on granules * * * and the same kind of coating on pottery or other shaped heat resisting articles or materials."

3. SAME—CRITICAL RATIOS.

The mere statement in the specification of an application that a specified ratio of ingredients is critical is not sufficient to establish that this ratio is, in fact, critical.

APPEAL from the Patent Office. Affirmed.

Mr. Harold J. Kinney (*Mr. Charles S. Grindle* of counsel) for Swenson et al.

Mr. W. W. Cochran (*Mr. E. L. Reynolds* of counsel) for the Commissioner of Patents.

JACKSON, *J.*:

This is an appeal from a decision of the Board of Appeals of the United States Patent Office affirming that of the Primary Examiner, rejecting for want of patentability in view of the prior art, claims 1 to 29 inclusive of an application for patent, Serial No. 383,168. One claim rejected by the Examiner was allowed by the Board. The application is stated in the specification to be a continuation of appellants' copending application Serial No. 752,886, filed November 13, 1934, and renewed August 27, 1938. The latter application is involved in Patent Appeal No. 4.595 concurrently decided herewith.

Claim 1 illustrates the nature of the subject matter of the application herein. It reads as follows:

1. In the manufacture of artificially colored granulated material of the order of blue-green, normal green, yellow-green, the steps of forming a mixture of fluxing agents, silica, a chromate and a carbonaceous reducing agent therefor selected from the group consisting of coal, carbon, starch, wood flour, sugar and glycerine, coating the individual surfaces of the granules with the mixture and then applying heat for producing a reaction product of the chromate and reducing agent in situ on the individual surfaces of the granules to produce a colored glazed coating which is weather-resisting and substantially free from water-soluble chromates and dichromates.

The invention herein relates to a process for treating mineral granules, such as quartz, quartzite and the like, by coating the granules with a glaze coating composition containing coloring matter, and to the resultant product. In the process the colored glaze coating is obtained by treating the granules with chromates or dichromates in the presence of a reducing agent to produce a chrome oxide green pigment substantially free of water soluble materials. Sodium dichromate is employed with a reducing agent, such as coal, coke, charcoal, sugar, wood flour, etc., which converts the dichromate to chrome oxide in situ on the granules It is the chrome oxide which imparts the green color to the coating. The invention is particularly concerned with the production of colored granules for roofing.

The following references were cited: Johnson (British), 304,809, January 24, 1929; Fisher, 1,766,814, June 24, 1930; Brown, 1,831,784, November 10, 1931; Caspari, 1,893,761, January 10, 1933; Baggs et al., 1,959,149, May 15, 1934.

The Fisher patent relates to processes for coloring granular material for use particularly as a surfacing for prepared roofing. The material, said in the specification to be slate, is subjected to processes for producing glazed green, red glazed, glazed black and brownish black granules. For the production of the glazed green granules a mixture of silicate, chromic oxide, borax and water is used for coloring. This mixture is applied to the granules, which are then heated in a kiln up to 1500 or 1600 degrees Fahrenheit, resulting in the production of green glazed granules. The chromic oxide gives a green coating to the granules.

The Brown patent relates to rock granule surface material and its manufacture, particularly to roofing surfaces thereof such as sheets and shingles of a fabric with the mineral particles placed in an adhesive coating on the weather side. The patentee employs granules such as quartz, mica, etc., susceptible of coloring or glazing. According to the specification, a glaze of any desired color may be imparted to the granules. For producing green coated granules the patentee employs among other substances sodium dichromate in an aqueous solution of a fluxing salt. The coated granules are fired in a kiln to cause fusion of the glaze thereon. The firing is said to produce

"solid solutions of metallic silicates of the characteristic color due to the presence of the particular metal or metals employed in the glaze."

The Johnson patent discloses the production of brilliant green hydrated chromic oxide and also discloses the use of reducing agents such as carbon in the form of lamp black or powdered wood charcoal.

The Caspari patent concerns a process for the manufacture of chromium hydroxide and chromium oxide from alkali salts of chromic acid. It discloses the use of reducing agents such as molasses, saw dust, or brown coal dust. The chromium hydroxide, according to the specification, has a "beautiful green appearance and can be employed as a pigment."

In view of our conclusion, it is not necessary to discuss the Baggs et al. patent.

The Caspari and Johnson patents were relied upon for the purpose of showing that it was old to use carbonaceous reducing agents in the reduction of dichromates and chromates to form green chromic oxides which may be used as coloring agents.

This appeal is closely related to appeal No. 4,595 and the filing of the continuing application herein is said by appellants in their brief to provide them with an opportunity to rewrite several claims of the parent application which were rejected below in appeal No. 4,595 on the ground that they contained improper Markush groupings. It is noted in comparing the method claims herein with claims of like character in appeal No. 4,595 that the present claims omit a recitation of sulfur as one of the Markush type groups.

The Primary Examiner cited the art relied upon by him in appeal No. 4,595 as one of his grounds of rejection herein, and in addition cited the Caspari patent and the Johnson patent. The Primary Examiner rejected all of the claims of the application, 1 to 30, as being unpatentable over the references and for the reasons fully set forth in his statement in appeal No. 4,595, and further rejected all of the claims as involving no invention over the Fisher patent, 1,766,814, or the Fisher patent, 1,782,648, or the patent to Brown, in view of Johnson or Caspari. The Fisher patent, 1,782,648, was not cited or considered by the Board and it is not necessary to consider it here.

The Examiner in addition to rejecting all of the claims in view of the prior art further rejected claims 1 to 10 because in his opinion they involved the improper use of the Markush type claim in the grouping of reducing agents. The Board refused to affirm this rejection.

The Board also held that the cited references did not appear to meet the process of claim 30 and the decision of the Examiner with respect to that claim was reversed and the claim allowed. The decision of the Examiner rejecting claims 1 to 29 inclusive in view of the prior art was affirmed by the Board.

In appeal No. 4,595 the decisions of the tribunals of the Patent Office on claims somewhat similar to the ones before us now denied patentability on the Brown reference in view of the Baggs et al. reference. In the instant decision the Board states that the claims of this appeal have been rejected on the same references and for the same reasons as in the prior patent appeal.

The claims here have been further rejected on the Brown or Fisher reference in view of the patents to Caspari or Johnson.

[1] It is clear that both the Caspari and Johnson patents show the use of carbonaceous reducing agents in the process of making chromic oxide pigments from chromates and dichromates. Neither of these patents relates to the coloring of granulated material such as is involved here. But since the patent to Brown and the Fisher patent both are concerned with the process of coloring mineral granules such as those here involved, therefore the coloring of mineral granules is old in the roofing art, as is the production of pigments in the pigment art as shown by the Caspari and Johnson references. An examination of the Brown patent and the Fisher patent in view of what is accomplished in the process of the patents to Caspari or Johnson convinces us that it would not require the exercise of the inventive faculty to use the carbonaceous reducing agents of either of the two latter patents in the forming of green chromic oxide pigments on the granules of the present application.

[2] We can see no patentable distinction between the forming of a colored glazed coating which is weather resisting and substantially free from water soluble chromates and dichromates on granules such as are employed in the Fisher and Brown references as well as in the present invention, and the same kind of coating on pottery or other shaped heat resisting articles or materials.

[3] Appellants contend that claims 22 and 24 are patentable for the reason that they set out specific ratios of boric acid to the basic metal oxide. It was held by the tribunals below that there is nothing in the specification to show that the claimed ratios are critical. While it appears in the application that the ranges claimed constitute "a very novel feature of our invention" such statement does not amount to a showing that the ranges existing in the specific ratios of those claims are critical. The mere statement by the appellants that such statement is a measure of critical limitations in the absence of any further statement in the specification or actual showing of reasons why they should be considered as such cannot be accepted as proof that such ratios are in fact critical. *In re Greider et al.*, 29 C. C. P. A. (Patents) 1079, 129 F.(2d) 568, 543 O. G. 436. We have examined the affidavits in the record and find nothing therein to supply proof of appellants' contention in this regard.

For the reason that in our opinion the claims have been properly rejected as being unpatentable over the Brown or Fisher references in view of either the Johnson or the Caspari references, it is not necessary to discuss any further reasons of appeal, and the decision of the Board of Appeals is affirmed.

Affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,772,824, H. Anderson, Bag closing machine; 2,083,417, 1,984,049, same, Bag closing and sealing machine, D. C., N. D. Ill., E. Div., Doc. 1475, *General Mills, Inc.*, v. *Continental Coffee Co.* Dismissed with prejudice February 1, 1943.

1,827,520. (See Re. 21,309.)

1,943,864, 2,080,609, L. R. Heim, Bearing construction; 2,102,460, same, Method of making roller bearings, appeal filed Feb. 26, 1943, C. C. A., 2d Cir., Doc. —, *L. R. Heim* v. *The Torrington Co.*

1,984,049. (See 1,772,824.)

2,069,871, S. O. Blanc, Cutter member for cleaning drain pipes; Re. 22,113, same, Drain cleaner, D. C., N. D. Ill., E. Div., Doc. 4638, *S. O. Blanc* v. *The Fritz Mfg. Co., Inc.* Consent judgment holding patents valid and infringed Feb. 17, 1943.

2,080,609. (See 1,943,864.) 2,083,417. (See 1,772,824.)

2,102,460. (See 1,943,864.)

2,117,860. (See Re. 21,309.)

2,123,114, G. Looper, Tufting machine; 2,214,767, W. T. Kenner et al., Tufting attachment for sewing machines, D. C., N. D. Ga. (Rome), Doc. 386, *G. Looper* v. *R. G. Miller Co.* Bill dismissed Feb. 22, 1943. (2,214,767 withdrawn by stipulation May 14, 1942.)

2,124,946. (See Re. 21,309.)

2,125,081. (See Re. 21,309.)

2,125,109. (See Re. 21,309.)

2,162,469. (See Re. 21,309.)

2,199,740, Des. 117,254, C. R. Carney, Ice tray, D. C., E. D. Wis. (Milwaukee), Doc. 607, *Brown Products Corp.* v. *Aluminum Goods Mfg. Co.* Dismissed without prejudice Feb. 23, 1943. Same, D. C., E. D. Pa., Doc. 1747, *C. R. Carney et al.* v. *Philco Corp.* Dismissed without prejudice Feb. 23, 1943.

2,214,767. (See 2,123,114.)

2,228,314, V. L. Holmes, Balanced door construction, suit for declaratory judgment filed Jan. 22, 1943, D. C., S. D. Calif., C. Div., Doc. 2699-H, *Pacific Overhead Door Co.* v. *V. L. Holmes.* (To correct error in 548 O. G., p. 6, formerly published as 2,238,314.)

Re. 21,309 (of 1,827,520), T. R. Harrison, Recording and control system and apparatus therefor; 2,162,469, same, Automatic control system; 2,117,800, Harrison & Side, Fluid pressure control apparatus; 2,125,109, same, Control apparatus; 2,124,946, same, Pneumatic control apparatus; 2,125,081, C. B. Moore, Measuring and control apparatus, filed Feb. 19, 1943, D. C., N. D. Ill., E. Div., Doc. 43C188, *The Brown Instrument Co.* v. *C. J. Tagliabue Mfg. Co.*

Des. 22,113. (See 2,069,871.)

Des. 116,097, Parker & Baker, Fountain pen; Des. 116,098, same, Fountain pen barrel, filed Feb. 3, 1943, D. C., N. D. Ill., E. Div., Doc. 43C86, *The Parker Pen Co.* v. *The Graphomatic Corp. et al.*

Des. 116,098. (See 116,097.)

Des. 117,254. (See 2,199,740.)

Des. 125,540. Des. 125,542, L. Freidman, Handbag, filed Feb. 26, 1943, D. C., S. D. N. Y., Doc. 14/15, *Gold Seal Importers, Inc.*, v. *Westerman-Rosenberg, Inc.*

Des. 125,542. (See Des. 125,540.)

Des. 131,392, S. Kuznetz, Dress; Des. 134,434, same, Suit, filed Mar. 4, 1943, D. C., S. D. N. Y., Doc. 20/448, *Lipman Bros.* v. *L. & D. Bellinson, Inc.*

Des. 134,434. (See Des. 131,392.)

Interference Notice

U. S. PATENT OFFICE, *Richmond, Va., Mar. 24, 1943.*

The heirs, assigns or legal representatives of Vess Jones, deceased, take notice:

An interference has been declared by this Office between the application of Pig'n Whistle Corporation, 621 Market St., San Francisco, Calif., for registration of a trade-mark, and trade-mark registered May 11, 1926, No. 212,681, to Vess Jones, 465 Washington St., New York, N. Y. Counsel for said Jones having stated that they are advised that said Jones is deceased, on January 8, 1943 proceedings were suspended until March 9, 1943 in order that the heirs or legal representatives of said Jones might intervene. The time referred to has expired, but no response has been made on behalf of the heirs, assigns or legal representatives of said Jones. Notice is hereby given that unless the heirs, assigns or legal representatives of Vess Jones shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in the case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Disclaimers

1,773,079.—*Clarence Birdseye*, Gloucester, Mass. METHOD FOR PREPARING FOOD PRODUCTS. Patent dated August 12, 1930. Disclaimer filed March 17, 1943, by the assignee, *General Foods Corporation.*

Hereby enters this disclaimer to claims 1 to 9, inclusive, 14, 15, and 16, and 18 to 26, inclusive, in said specification.

1,822,121.—*James J. Barry*, Halifax, Nova Scotia. REFRIGERATING APPARATUS. Patent dated September 8, 1931. Disclaimer filed March 17, 1943, by the assignee, *General Foods Corporation.*

Hereby enters this disclaimer to claims 1 to 13, inclusive, and 15, in said specification.

2,000,064.—*Harvey S. Cover*, South Bend, Ind.. RESPIRATOR. Patent dated May 7, 1935. Disclaimer filed March 20, 1943, by the inventor.

Hereby enters this disclaimer to claims 5, 6, 7, 9, 10, 12, 13, and 14, in said specification.

2,120,230.—*Harvey S. Cover*, South Bend, Ind. RESPIRATOR. Patent dated June 14, 1938. Disclaimer filed March 20, 1943, by the inventor.

Hereby enters this disclaimer to claims 2 and 3, in said specification.

2,139,362.—*Ralph J. Getty*, Pittsburgh, Pa. METHOD AND APPARATUS FOR MANUFACTURING POTTERY ARTICLES. Patent dated December 6, 1938. Disclaimer filed March 17, 1943, by the inventor, the assignee, *William J. Miller*, consenting.

Hereby enters this disclaimer to claims 1, 3, 13, and 15, in said patent.

2,203,572.—*Robert H. Johnson*, Morgantown, W. Va. STRIPING OR BANDING MACHINE. Patent dated June 4, 1940. Disclaimer filed March 22, 1943, by the inventor.

Hereby enters this disclaimer to claims 19 to 32 inclusive, in said specification.

2,281,116.—*Hans Sengebusch*, Villa Park, Ill. IMPULSE TRANSMITTING DEVICE. Patent dated April 28, 1942. Disclaimer filed March 18, 1943, by the inventor; the assignee, *Associated Electric Laboratories, Inc.*, consenting.

Hereby enters this disclaimer to claims 9 and 10 in said specification.

Changes in Classification

Order No. 3,710, March 19, 1943, directs:

The following changes in the classification of inventions are hereby directed, to take effect immediately:

In *class 2, Apparel* (Division 24), establish the following subclass and definition:

Guards and protectors
2.1 Diving type,

2.1. The protective devices comprise body coverings, flexible or rigid and generally impervious to water, worn for underwater operations. This subclass provides for the complete suits and parts thereof not classifiable in the parallel protector subclasses.

Search this class, subclasses—
67 and **68**—for bathing garments.
Search Classes—
9—BOATS AND BUOYS, subclass 17 and the indented subclasses, for life preserving or diving suits equipped with swimming appliances or buoyant structure.
61—HYDRAULIC AND EARTH ENGINEERING, subclass 69 and the indented subclasses, for diving suits combined with grapples, underwater power propulsion devices, elevators, or other means pertaining to hydraulic engineering.
128—SURGERY, subclass 140 and indented subclasses, subclasses 191, 202, 203, and 204, for diving suits or helmets equipped with means to supply air or oxygen.

The patents in this subclass have been taken for the most part from class 61, Hydraulic and Earth Engineering, subclasses 70 and 71.

In *class 117, Coating; Processes and Miscellaneous Products* (Division 38), establish the following subclass and its definition:

Application to opposite sides of a sheet or web
68.5 Adhesive tape or base.

68.5. Processes under subclass 68, wherein the coated base is an adhesive tape or base.

Search this class, subclasses—
13 and **14**—for adhesive tapes or bases, wherein both sides are coated, there being printing on at least one side thereof.
44—for adhesive bases wherein the adhesive is present in the form of a stripe, border, or edging.
122—for other adhesive bases.

In *class 117, Coating; Processes and Miscellaneous Products* (Division 38), subclass 159, cancel the title, definition and notes, and substitute the following:

Particular base or coating
159 Iridescent or light-diffusing coating,

159. Processes under subclass 121, wherein the coating is uniform but reflects light non-uniformly, e. g., to give iridescent or polychrome effects or to diffuse light.

Note.—The surfaces so produced may be for camouflage.

Search this class, subclasses—
34—for fluorescent or phosphorescent coating applying.
37—and indented subclasses, for iridescent or light diffusing surfaces resulting from non-uniform coatings and particularly subclass 39, for marbelizing.
Search Classes—
41—ORNAMENTATION, subclass 19, for iridescent or light-diffusing surfaces produced by close-lying substantially parallel lines or ridges.
250—RADIANT ENERGY, subclass 71 and indented subclasses, for fluorescent or phosphorescent coated bases.

In *class 2, Apparel* (Division 24), subclass 2, cancel the note:

in subclass 67, add:

Search this class, subclass—
2.1—for diving suits.

In *class 9, Boats and Buoys* (Division 61), subclass 20, cancel the note, and substitute:

Search Classes—
2—APPAREL, particularly subclass 2.1, for life preserving or diving suits, per se.
128—SURGERY, appropriate air and oxygen supply subclasses, for suits equipped with air or oxygen supply means, but without buoyant or swimming features.

In *class 36, Boots, Shoes, and Leggings* (Division 11), subclass 8.5, cancel the notes and substitute:

Search this class, subclass—
71—for pads and foot supporters.
Search Classes—
128—SURGERY, subclass 166, for ankle supports or braces made independent of the boot or shoe.
280—LAND VEHICLES, subclass 11.36, for ankle supports attached to skates.

In *class 40, Card, Picture, and Sign Exhibiting* (Division 35), subclass 130, under "Search Classes", add:

88—OPTICS, particularly subclass 24, and indented subclasses, for apparatus for projecting real images, i. e., images formed by a lens or equivalent optical means and subclass 65, for light polarizing compositions, devices, and systems, and also combinations involving polarizers not elsewhere provided for.

In *class 41, Ornamentation* (Division 52), subclass 17, under "(3) Search Classes", add:

88—OPTICS, subclass 29, for stereoscopically related light polarizing pictures and designs and subclass 65 for other light polarizers (including doubly-refractive) even though in the form of a picture or other design. Where such a device is claimed, it is classified in class 88 and cross-referenced to class 41, where an ornamenting process for such class is either disclosed or claimed.

In *class 42, Firearms* (Division 22), subclass 84, under "Search Class", in the reference to class 240, change "subclass 8.4" to *subclass 6.41.*

In *class 57, Textiles, Spinning, Twisting and Twining* (Division 21), subclass 23, after "used", insert *in connection with splicing, such as those used.*

In *class 60, Power Plants* (Division 18), subclass 97, add:

Search Class—
303—FLUID PRESSURE BRAKE AND ANALOGOUS SYSTEMS, subclass 6 and the indented subclasses, for the distribution of pressure fluid to multiple motors, one of which is a brake motor.

In *class 61, Hydraulic and Earth Engineering* (Division 33), subclass 69, change the definition to read:

69. Apparatus having means with or within which men may be lowered into the water to carry on submarine operations and which may be entirely submerged while in use.;

and in subclass 70, add:

Search Classes—
2—APPAREL, subclass 2.1, for diving suit structure, per se.
9—BOATS AND BUOYS, subclass 17 and the indented subclasses, for diving suits exclusive of hydraulic engineering apparatus equipped with buoyant or swimming features.
128—SURGERY, subclass 140 and indented subclasses and subclasses 191, 202, 203, and 204, for diving suits, exclusive of hydraulic engineering apparatus and equipped with means for supplying air or oxygen for breathing.

In *class 70, Locks* (Division 20), subclass 262, add:

Search Class—
189—METALLIC BUILDING STRUCTURES, subclass 7 and indented subclass, for lock systems for jails.;

and in subclass 394, note 1, cancel the reference to class 78, Metal Forging and Welding, subclass 25, and substitute:

81—TOOLS, subclass 3. Similar mechanisms for forging will be found in class 78, METAL FORGING AND WELDING, subclass 25.

In *class 78, Metal Forging and Welding* (Division 45), subclass 25, add:

Search Class—
81—TOOLS, subclass 3, for similar devices designed as lock picking tools.

In *class 88, Optics* (Division 7), subclass 20, after "degree" insert *of eye movement,*.;

in subclass 24, cancel note (3) and under "(2) Search Classes", add:

40—CARD, PICTURE, AND SIGN EXHIBITING, subclass 130 and indented subclasses, for illuminated signs and signs involving the projection of shadow images.
240—ILLUMINATION, particularly subclass 41 and indented subclasses, for light projectors having no means for projecting real images.
272—AMUSEMENT AND EXERCISING DEVICES, subclass 10, for stage illusion means including a projector.
273—AMUSEMENT DEVICES, GAMES, subclass 105.1, for real image projecting apparatus or screens therefor peculiarly adapted for use as target apparatus.;

and in subclass 65, cancel the definitions and notes and substitute:

65. This is the generic subclass for (1) polarizing compositions, (2) polarizing devices, (3) polarizing systems, (4) combinations of any kind of which a polarizing device is a part and not otherwise provided for, either in preceding subclasses in this class or in another class.

(1) Note.—Polarizing devices (including doubly-refractive) may be in the form of a picture, letter or other design. Where in the form of a design, this may be due to the distribution of polarizing material uniform in its action, or it may be due to the non-uniform action of the polarizing material.

(2) Note.—Where both the polarizing device or composition and a method of making the same are claimed, the patent is here and cross-referenced when there is a class that provides for the method, this subclass taking such methods of manufacture as are not elsewhere provided for.

Search this class, subclasses—
29—for polarizers of design form, stereoscopically related.
61—for polarizers employed as light valves.
Search Classes—
18—PLASTICS, for processes of molding polarizing bodies.

23—CHEMISTRY, subclass 295, and indented subclasses, for processes of crystallization and see the notes thereto, for related art.
40—CARD, PICTURE, AND SIGN EXHIBITING, particularly subclass 130, for illuminated signs utilizing polarizers.
41—ORNAMENTATION, particularly subclass 10 and indented subclasses, for ornamenting processes.
117—COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, for coating processes.
240—ILLUMINATION, for illuminating devices or systems significantly claimed even though involving a polarizer. This subclass (65) takes polarizers combined with a light source where no significant feature for class 240 is claimed.
250—RADIANT ENERGY, subclass 11, for directional radio antennas with polarizers.
272—AMUSEMENT AND EXERCISING DEVICES, subclass 9 and indented subclasses for stage illusions utilizing polarizers.

In *class 106, Compositions, Coating or plastic* (Divisions 38, 64), main class definition, note 2, rewrite the reference to class 88 to read as follows:

88—OPTICS, subclass 65, for light polarizing compositions and subclasses 114 and 115 for light filter compositions.

In *class 117, Coating; Processes and Miscellaneous Products* (Division 38), subclass 34, note (1), after "products", insert *which claim a light sensitive coating, see class 95, Photography, subclasses 8 and 9;*
in subclass 68, add the following note:

Search this class, subclass—
14—for bases having opposite sides coated, there being printing on at least one of the surfaces.;

and in subclass 122, cancel note (2) and substitute:

Search this class, subclass—
68.5—for adhesive tapes or sheets having opposite sides coated and an adhesive coating on at least one of the surfaces and see the notes to the definition thereof.

In *class 128, Surgery* (Division 55), subclass 144, add:

Search Classes—
2—APPAREL, particularly subclass 2.1, for garments in general.
9—BOATS AND BUOYS, subclasses 17 to 21, for masks or suits with buoyant or swimming features for the wearer.
61—HYDRAULIC AND EARTH ENGINEERING, subclasses 70 and 71, for diving suits combined with hydraulic engineering apparatus.;

and in subclass 145, cancel the note and add:

Search Classes—
9—BOATS AND BUOYS, subclasses 17 to 21, for breathing devices combined with life preserving or swimming apparatus.
98—VENTILATION, subclass 89, if the novelty resides in the window attachment or parts adjacent thereto.

In *class 148, Metal Treatment* (Division 3), subclass 23, cancel the note and substitute:

Search Classes—
75—METALLURGY, appropriate subclasses, particularly subclasses 93, 94, and 96, for fluxing compositions specialized for use in metallurgical processes coming within the definition of class 75, such as, for example, melting or purifying metal, protecting molten metal, and smelting processes.
78—METAL FORGING AND WELDING, subclass 92 and indented subclasses.
113—SHEET-METAL WARE-MAKING, subclass 112.

In *class 189, Metallic Building Structures* (Division 33), subclass 7, under "(3) Search Classes", in the reference to class 70, add: *and particularly subclass 262 and indented subclasses for lock and/or lock and latch systems.*

In *class 211, Supports, Racks* (Division 8), subclass 4, cancel the existing notes and substitute:

Search Classes—
70—LOCKS, subclass 62, for supporting stands with locks wherein the support features claimed are only those sufficient for the accommodation of the lock mechanism.
194—CHECK-CONTROLLED APPARATUS, subclasses 40, 49, and 64.
248—SUPPORTS, subclass 203, for brackets having means for locking an article thereto.

In *class 237, Heating Systems* (Division 30), subclass 67, in note (1), after "6,", insert *9,*.

In *class 260, Chemistry, Carbon Compounds* (Divisions 6, 15, 31, 43, 50, 59, 63), main class definition, fifth paragraph, add the following:

In classifying a patent containing Markush type claims, i. e. "group consisting of A and B" and no species claims, the original patent has been placed in the first appearing subclass providing for the species in the Markush group. If, in addition to the Markush group, there were species claims, the rule stated hereinbefore was followed. The rule of superiority was also followed with reference to intermediate compounds and the reaction products thereof when the intermediate was provided for in a superior subclass.

In *class 303, Fluid-Pressure Brake and Analogous Systems* (Division 47), change the main class definition to read:

This class relates to the distribution of fluid to brake motors, i. e., the utilization of fluid pressure in the operation of brakes.;

and add (1.1) Note.:

(1.1) Note.—Systems for the distribution of pressure fluid to a plurality of motors other than brake motors are, for the most part, in class 60, POWER PLANTS, subclasses 6, 51, 57, 97, and their respective indented subclasses.;

and in the definition of subclass 5, change "motor" to *brake motor.*

TRADE-MARKS

OFFICIAL GAZETTE, APRIL 13, 1943

[VOL. 549. No. 2]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 457,194. VIKING CHEMICAL CORPORATION, New York, N. Y. Filed Dec. 3, 1942.

VIPOL

FOR SYNTHETIC RUBBER COMPOUND IN THE FORM OF A SOLID OR SPONGY MASS.
Claims use since Oct. 28, 1942.

CLASS 2

RECEPTACLES

Ser. No. 456,643. WELMAID PRODUCTS, Chicago, Ill. Filed Nov. 4, 1942.

"BAC-SAVER"

FOR COMBINATION FOLDING FABRIC CLOTHES BASKETS AND CLOTHES-PIN HOLDERS.
Claims use since Jan. 11, 1940.

Ser. No. 457,624. THE CITY AUTO STAMPING COMPANY, Toledo, Ohio. Filed Dec. 28, 1942.

CITY AUTO STAMPING

FOR AMMUNITION CHESTS.
Claims use since June 1, 1942.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 458,115. HARTMANN TRUNK COMPANY, Racine, Wis. Filed Jan. 23, 1943.

DUTY PACK

No claim is made to the word "Pack" apart from the mark.
FOR SUITCASES, LUGGAGE-CARRYING CASES, AND WARDROBE SUITCASES.
Claims use since Jan. 11, 1943.

Ser. No. 458,239. HEIRLOOM NEEDLEWORK GUILD, INC., New York, N. Y. Filed Jan. 30, 1943.

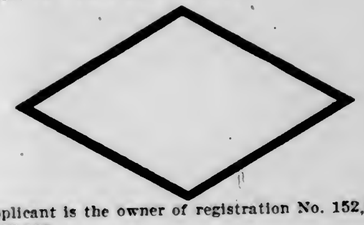
DOUGHBOY

FOR MILITARY TOILET KIT CASES, DUFFLE BAGS, FURLOUGH BAGS FOR CARRYING CLOTHING, AND MONEY BELTS.
Claims use since Nov. 1, 1942.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 455,562. DIAMOND ALKALI COMPANY, Pittsburgh, Pa. Filed Sept. 16, 1942.



Applicant is the owner of registration No. 152,151 and No. 282,927.
FOR CLEANING AND WASHING COMPOUNDS CONSISTING OF LAUNDRY SOURS, SILICATED ALKALIS CONTAINING SODIUM OXIDE AND SILICA, ALKALIS CONTAINING SODIUM COMPOUNDS, DRY CLEANERS, LAUNDRY SODAS, CLEANERS AND CLEANSERS ALL OF WHICH ARE FOR GENERAL LAUNDRY USE.
Claims use since 1912.

Ser. No. 458,078. MEINECKE & Co. INC., New York, N. Y. Filed Jan. 21, 1943.

HÆMO-SOL

FOR LIQUID CLEANSING COMPOSITION FOR SURGICAL INSTRUMENTS.
Claims use since Jan. 8, 1943.

Ser. No. 458,157. HARRIET A. MINOR, New Orleans, La. Filed Jan. 25, 1943.

MINOR'S KRE•OL

Applicant disclaims the word "Minor's" apart from the mark.
FOR HOUSEHOLD CLEANING AND POLISHING PASTE.
Claims use since Nov. 23, 1942.

Ser. No. 458,162. R. R. STREET & Co. INC., Chicago, Ill. Filed Jan. 25, 1943.

STREETEX

FOR DRY CLEANING DETERGENT.
Claims use since Mar. 1, 1936.

Ser. No. 458,674. ARKANSAS COMPANY, INC., Newark, N. J. Filed Feb. 22, 1943.

DERGON

FOR DETERGENTS USED IN PROCESSING OF TEXTILES.
Claims use since March, 1940.

CLASS 5

ADHESIVES

Ser. No. 458,040. INDUSTRIAL TAPE CORPORATION, New Brunswick, N. J. Filed Jan. 20, 1943.

JONFLEX

FOR PRESSURE SENSITIVE ADHESIVE TAPES.
Claims use since May 15, 1928.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 428,008. WESTBROOK AND MCLAREN, Dierks, Ark. Filed Jan. 29, 1940.



Westbrook-McLaren

The portrait is that of Louis A. Westbrook. No claim is made to the word "McLaren" apart from the mark.
FOR SALVE FOR OLD AND NEW SORES, BURNS, PILES, COUGHS, AND COLDS.
Claims use since June, 1938.

Ser. No. 454,371. OSCAR HAYES, doing business as Atlas Laboratories, Akron, Ohio. Filed July 21, 1942.

i-o-sal

FOR ANTISEPTIC AND GERMICIDE FOR EXTERNAL APPLICATION.
Claims use since May, 1933.

Ser. No. 456,559. S. C. JOHNSON & SON, INC., Racine, Wis. Filed Oct. 31, 1942.

DRAX

FOR AQUEOUS AND NON-AQUEOUS WAX EMULSIONS WHICH MAKE ABSORBATIVE FIBROUS AND NON-FIBROUS MATERIALS WATER PROOF AND WATER REPELLENT—NAMELY, FABRICS AND PAPER.
Claims use since Sept. 16, 1942.

Ser. No. 456,621. THE BORDEN COMPANY, New York, N. Y. Filed Nov. 3, 1942.

COMPREGNITE

FOR LIQUID PHENOL-FORMALDEHYDE RESIN SOLUTION, MADE ESPECIALLY FOR IMPREGNATING WOOD VENEERS FOR INCREASING THEIR STRENGTH AND DURABILITY, RENDERING THEM COMPRESSIBLE, PLASTIC, DENSE AND WATER RESISTANT.
Claims use since Apr. 16, 1942.

Ser. No. 456,919. DOUBLE-MIX, INC., Kansas City, Mo. Filed Nov. 19, 1942.



The portrait is that of Fay Skwarlo.
FOR COMPOSITION OF MATTER IN TABLET OR POWDERED FORM FOR ADMIXING WITH MILK AND BUTTER OR OLEO MARGARINE TO PRODUCE A SPREAD.
Claims use since Sept. 11, 1942.

Ser. No. 457,637. CUPRINOL, INC., doing business as Kopertox Laboratories, Boston, Mass. Filed Dec. 29, 1942.

KOPERTOX

FOR MEDICAL PREPARATION ADAPTED FOR DIRECT APPLICATION TO THE HUMAN SKIN FOR TREATMENT OF ATHLETE'S FOOT AND SIMILAR FUNGUS AILMENTS OF THE SKIN.
Claims use since October, 1942.

Ser. No. 458,037. JOHN HORVATH, Passaic, N. J. Filed Jan. 20, 1943.



The name on the drawing is a facsimile of the signature of the applicant.
FOR MEDICINE FOR THE TREATMENT OF HEMORRHAGE, STOMACH CRAMPS, AND ULCERS, A BOWEL AND URINE CLEANSER.
Claims use since Oct. 9, 1942.

Ser. No. 458,160. SPECIFIC PHARMACEUTICALS, INC., New York, N. Y. Filed Jan. 25, 1943.

ANALBIS

FOR BISMUTH COMPOUNDS FOR USE IN NON-SPECIFIC INFECTIONS OF THE THROAT SUCH AS TONSILLITIS, SEPTIC SORE THROAT, VINCENT'S ANGINA, ETC.
Claims use since Dec. 1, 1942.

Ser. No. 458,161. SPECIFIC PHARMACEUTICALS, INC., New York, N. Y. Filed Jan. 25, 1943.

LEANDIN

FOR OLEANDER GLUCOSIDE PRODUCT FOR USE AS A CARDIOTONIC.
Claims use since Dec. 1, 1942.

Ser. No. 458,423. ATLANTIC CHEMICALS & METALS CO., Chicago, Ill. Filed Feb. 9, 1943.

ALUCO

FOR CHEMICAL FLUX FOR DEGASIFYING AND PURIFYING ALUMINUM AND ITS LIGHT ALLOYS; FOR ELIMINATING GASES AND OXYGEN ABSORBED DURING THE MELTING PROCESS AND FOR DISSOLVING OXIDES AND SECURING HOMOGENEOUSLY DENSE GRAINED CASTINGS.
Claims use since September, 1940.

Ser. No. 458,431. ROHM & HAAS COMPANY, Philadelphia, Pa. Filed Feb. 9, 1943.

RHOMASE

FOR ENZYME PREPARATION PARTICULARLY USEFUL FOR HYDROLYZING SUBSTANCES SUCH AS CASEIN, GELATIN, OR GLUE.
Claims use since Jan. 22, 1943.

Ser. No. 458,538. MCKESSON & ROBBINS, INCORPORATED, New York, N. Y. Filed Feb. 15, 1943.

AXAR

FOR ANALGESIC TABLETS.
Claims use since Feb. 11, 1943.

Ser. No. 458,539. MCKESSON & ROBBINS, INCORPORATED, New York, N. Y. Filed Feb. 15, 1943.

X-AR

FOR ANALGESIC TABLETS.
Claims use since Feb. 11, 1943.

Ser. No. 458,540. MCKESSON & ROBBINS, INCORPORATED, New York, N. Y. Filed Feb. 15, 1943.

XAR

FOR ANALGESIC TABLETS.
Claims use since Feb. 11, 1943.

Ser. No. 458,543. LYLE W. MILLS, doing business as Hill's Laboratories, Silver Spring, Md. Filed Feb. 15, 1943.

HYCAPRIN

FOR MEDICINAL PREPARATION FOR RELIEF OF MUSCULAR ACHES, HEADACHES, POST NATAL PAINS, GRIPPE, NEURALGIA.
Claims use since Jan. 5, 1943.

Ser. No. 458,566. THE BOVININE COMPANY, Jersey City, N. J. Filed Feb. 16, 1943.

MINULES

FOR MEDICINAL MINERAL PREPARATIONS.
Claims use since Dec. 7, 1942.

Ser. No. 458,640. VALENTINE LABORATORIES, INC., Chicago, Ill. Filed Feb. 19, 1943.

VALEROL

FOR VITAMIN PREPARATIONS FOR INTERNAL USE FOR THE TREATMENT OF VITAMIN DEFICIENCY.
Claims use since Jan. 12, 1940.

Ser. No. 458,653. OSCAR HAYES, doing business as Atlas Laboratories, Akron, Ohio. Filed Feb. 20, 1943.

LUBROL

FOR ANTISEPTIC JELLIES.
Claims use since October, 1926.

Ser. No. 458,669. JOHN WYETH & BROTHER, INCORPORATED, Philadelphia, Pa. Filed Feb. 20, 1943.

WYMINS

FOR MEDICINAL VITAMIN PREPARATIONS.
Claims use since Feb. 10, 1943.

Ser. No. 458,672. ARKANSAS COMPANY, INC., Newark, N. J. Filed Feb. 22, 1943.

ARKOTAN

FOR TANNING AGENTS.
Claims use since August, 1939.

Ser. No. 458,694. FREDERICK STEARNS & COMPANY, Detroit, Mich. Filed Feb. 22, 1943.

COVIM

FOR VITAMIN PREPARATION FOR USE IN THE PREVENTION AND TREATMENT OF VITAMIN DEFICIENCIES.
Claims use since Feb. 12, 1943.

Ser. No. 458,730. GIVAUDAN-DELAWANNA, INC., Delawanna, N. J., and New York, N. Y. Filed Feb. 24, 1943.

BROMOSOLV

FOR SOLVENTS, PARTICULARLY FOR USE IN THE PREPARATION OF COSMETIC AND LIKE COMPOSITIONS.
Claims use since Feb. 17, 1943.

Ser. No. 458,770. THE VALE CHEMICAL CO., INC., Allentown, Pa. Filed Feb. 25, 1943.

IRONCO

FOR PREPARATION FOR USE IN CORRECTION OF NUTRITIONAL DEFICIENCIES.
Claims use since Nov. 10, 1937.

CLASS 7

CORDAGE

Ser. No. 457,917. LUDLOW MANUFACTURING & SALES CO., Boston, Mass. Filed Jan. 14, 1943.



The words "Made Only by Ludlow Mfg. & Sales Co., Boston, Mass.," are disclaimed apart from the mark.
FOR TWINE.
Claims use since Dec. 30, 1940.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 443,221. CELCURE WOOD PRESERVING CORPORATION, Jacksonville, Fla. Filed May 3, 1941.

"Natural Vacuum"

No claim is made to the word "Vacuum" used alone.
FOR WOOD PRODUCTS TREATED WITH WOOD PRESERVATIVES—NAMELY, ROUGH LUMBER, DRESSED LUMBER, MILLWORK, MOLDING, DOORS, FRAMES, SASH, POLES, CROSSARMS, PILING, FENCE POSTS, AND CROSSTIES.
Claims use since Dec. 2, 1940.

Ser. No. 451,030. CERTAIN-TEED PRODUCTS CORPORATION, New York, N. Y. Filed Feb. 17, 1942.

GUARD

FOR SHEET ROOFING MATERIAL OF FELT BASE SATURATED WITH A BITUMINOUS SATURANT AND USED AS CONSTRUCTION MATERIAL.
Claims use since Oct. 1, 1915.

Ser. No. 451,412. HYDRAULIC-PRESS BRICK COMPANY, Indianapolis, Ind. Filed Mar. 5, 1942.

EYE REST

FOR CERAMIC GLAZED BRICK AND TILE STRUCTURAL BUILDING UNITS.
Claims use since Feb. 26, 1942.

Ser. No. 457,088. M. H. DETRICK COMPANY, Chicago, Ill. Filed Nov. 28, 1942.

DETEGRAL

FOR REFRACTORY BLOCKS AND TILE EMPLOYED FOR THE CONSTRUCTION OF WALLS AND ARCHES, METAL HOLDING AND SUPPORTING CASTINGS AND MEMBERS, AND FRAMES THEREFOR, AND HEAT INSULATION FOR SAID WALLS AND ARCHES.
Claims use since Nov. 24, 1942.

Ser. No. 457,089. M. H. DETRICK COMPANY, Chicago, Ill. Filed Nov. 28, 1942.

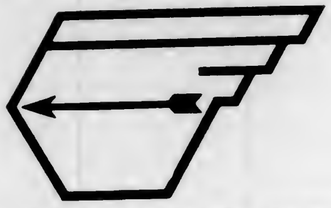
DETRED

FOR REFRACTORY BLOCKS AND TILE EMPLOYED FOR THE CONSTRUCTION OF WALLS AND ARCHES, METAL HOLDING AND SUPPORTING CASTINGS AND MEMBERS, AND FRAMES THEREFOR, AND HEAT INSULATION FOR SAID WALLS AND ARCHES.
Claims use since Nov. 16, 1942.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 447,353. THE WEATHERHEAD COMPANY, Cleveland, Ohio. Filed Sept. 26, 1941.



FOR AIRCRAFT PARTS AND ACCESSORIES—NAMELY, STATIC PRESSURE CONTROL VALVES, SELECTOR VALVES, CHECK VALVES.
Claims use since Dec. 1, 1940.

Ser. No. 458,137. AMERICAN ART ALLOYS, INC., Kokomo, Ind. Filed Jan. 25, 1943.

Dirilyte

FOR TABLE HOLLOW WARE MADE OF NON-PRECIOUS METAL.
Claims use since June 24, 1938.

Ser. No. 458,138. AMERICAN ART ALLOYS, INC., Kokomo, Ind. Filed Jan. 25, 1943.

Dirilyte

FOR TABLE HOLLOW WARE MADE OF NON-PRECIOUS METAL.
Claims use since June 24, 1938.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 457,591. NEW WRINKLE, INC., Dayton, Ohio. Filed Dec. 24, 1942.



The portrait is fanciful.
FOR PAINTS, ENAMELS, AND VARNISHES IN LIQUID AND CONCENTRATE FORM.
Claims use since April, 1942.

Ser. No. 457,837. NEW WRINKLE, INC., Dayton, Ohio. Filed Jan. 9, 1943.

WRINLIN

FOR PAINTS, ENAMELS, AND VARNISHES IN LIQUID, READY-MIXED FORM, BOTH READY-MIXED AND AS A CONCENTRATE; AND PAINT OILS HAVING A LINSEED BASE.
Claims use since June, 1942.

Ser. No. 458,002. TURCO PRODUCTS, INC., Los Angeles, Calif. Filed Jan. 18, 1943.

X-OL

FOR WAX POLISH FOR LINOLEUM, WOOD FLOORS, RUBBER TILE, FURNITURE, AND THE LIKE.
Claims use since Nov. 1, 1934.

Ser. No. 458,704. W. P. FULLER & CO., San Francisco, Calif. Filed Feb. 23, 1943.

CARBONOX

FOR METAL PAINTS, BOTH PRIMERS AND FINISHING TYPES.
Claims use since Jan. 1, 1931.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 453,194. CLARENCE C. FRANKLIN, Chicago, Ill. Filed May 23, 1942.



FOR CIGARS AND CIGARETTES.
Claims use since May 7, 1942.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 456,634. AGET MANUFACTURING CO., Adrian, Mich. Filed Nov. 4, 1942.

DUSTKOP

FOR ELECTRICALLY DRIVEN SUCTION FAN WITH HOUSING AND DUCTS THEREFOR, AND PARTS THEREOF—NAMELY, AS ADAPTED TO CLEAN AWAY PARTICLES FROM A MECHANICAL OPERATION.
Claims use since Mar. 1, 1939.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 457,585. ROSALIE M. CAMPBELL, New York, N. Y. Filed Dec. 24, 1942.

ROSOMAX

FOR DOLLS, DOG AND CAT TOYS—NAMELY, SIMULATED FIGURES OF LEATHER, AND COTTON, RAYON OR WOOLEN FABRICS, AND COMBINATIONS THEREOF, AND GAMES—NAMELY, BEAN BAGS, SAND SETS, TOY THEATRE SETS, AND PAPER CUTTING GAMES.
Claims use since April, 1916.

Ser. No. 458,475. CECIL L. JENSEN, Glen Ellyn, Ill. Filed Feb. 11, 1943.

STRIP TEEZ

FOR GAMES PLAYED WITH CARDS AND EQUIPMENT, THE CARDS BEARING INSTRUCTIONAL DATA AND SAID EQUIPMENT COMPRISING FIGURES AND VARIOUS AND SUNDRY ARTICLES OF WEARING APPAREL ADAPTED TO BE PLACED ON AND REMOVED FROM THE FIGURES ACCORDING TO THE INSTRUCTIONS CONTAINED ON THE CARDS.
Claims use since Feb. 4, 1943.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 457,042. NEW METHOD EQUIPMENT COMPANY, Indianola, Iowa. Filed Nov. 25, 1942.

WORKMASTER

FOR EARTH MOVING MACHINE IN THE NATURE OF A SCOOP ADAPTED FOR MOUNTING ON A TRACTOR OR THE LIKE.
Claims use since Oct. 16, 1942.

Ser. No. 458,426. FOSTER MACHINE COMPANY, Westfield, Mass. Filed Feb. 9, 1943. Under 10-year proviso.

FOSTER

FOR DOUBLERS, CHEESE WINDERS, MAGAZINE CREELS, TENSION, SLUB CATCHING, WAXING, YARN CONDITIONING, GEAR GAINER, KNOT CATCHING, AND PINEAPPLE ATTACHMENTS FOR WINDING MACHINES, CONES, SPOOLER GUIDES, YARN GUIDES AND OTHER PARTS FOR SAID WINDERS, DOUBLERS, CREELS, MACHINES AND ATTACHMENTS.
Claims use since Jan. 31, 1891.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 440,207. MULLINS MANUFACTURING CORPORATION, Salem, Ohio. Filed Feb. 1, 1941.



The word "Brand" is disclaimed apart from the mark.
FOR WRINGER ROLLS.
Claims use since Dec. 31, 1940.

Ser. No. 440,208. MULLINS MANUFACTURING CORPORATION, Salem, Ohio. Filed Feb. 1, 1941.

wear
master

FOR WRINGER ROLLS.
Claims use since Dec. 31, 1940.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 452,426. CLAUDE M. HATHAWAY, doing business as Hathaway Instrument Company, Denver, Colo. Filed Apr. 18, 1942.



FOR OSCILLOGRAPHS, GALVANOMETERS, ELECTRIC STRAIN GAGES, OSCILLOGRAPHIC AND IMPACT RECORDERS, ACCELEROMETERS, CALIBRATING DEVICES, ELECTRIC INDICATING INSTRUMENTS OF THE TYPES USED IN INDICATING DISTRIBUTION OF VOLTS IN POWER SYSTEMS AND DIFFERENCES IN FREQUENCY BETWEEN A SOURCE AND A FREQUENCY STANDARD, GEOPHYSICAL ENGINEERING INSTRUMENTS AND PARTS THEREOF.
Claims use since Mar. 24, 1942.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 458,051. ICEK M. TENENBAUM, doing business as Tenens Watch Co, Great Neck, N. Y. Filed Jan. 20, 1943.

TENENS

FOR WATCHES.
Claims use since Jan. 12, 1943.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 457,643. SEA WAVE WEDDING & ENGAGEMENT RING, INC., New York, N. Y. Filed Dec. 29, 1942.

SEA WAVE

FOR WEDDING AND ENGAGEMENT RINGS, CLIPS, BRACELETS, NOT INCLUDING WATCHES, BROOCHES, AND EARRINGS.
Claims use since Sept. 28, 1942.

CLASS 30

CROCKERY, EARTHENWARE, AND PORCELAIN

Ser. No. 457,634. NATIONAL UNIT DISTRIBUTORS, INC., Boston, Mass. Filed Dec. 28, 1942.

"UNI-SET"

Applicant disclaims the word "Set" apart from the mark.
FOR SEMI-VITREOUS CHINA TABLEWARE.
Claims use since Oct. 26, 1942.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 427,197. THE ESTATE STOVE COMPANY, Hamilton, Ohio. Filed Jan. 6, 1940.

Air-Flow

FOR GAS COOKING STOVE OVENS AND PARTS THEREOF.
Claims use since Sept. 8, 1939.

Ser. No. 438,474. THE FINGLES COMPANY, Baltimore, Md. Filed Dec. 3, 1940.

FINCO

FOR PORTABLE OIL-BURNING HEATERS FOR DOMESTIC AND INDUSTRIAL COOKING PURPOSES.
Claims use since Nov. 19, 1940.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 456,884. A. W. CHESTERTON COMPANY, Boston, Mass. Filed Nov. 18, 1942.

PARACHUTE

FOR MECHANICAL PACKING—VIZ., PACKING RINGS, PACKING FOR PISTON RODS, PACKING FOR SLIDE VALVE RODS, AND PACKING FOR USE IN STUFFING BOXES.
Claims use since Oct. 10, 1940.

CLASS 37

PAPER AND STATIONERY

Ser. No. 457,798. UNITED WALL PAPER FACTORIES, INC., Chicago, Ill. Filed Jan. 7, 1943.

Budget-Pak

The word "Pak" is disclaimed apart from the mark.
FOR WALL PAPER.
Claims use since Mar. 15, 1942.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 456,289. PHILIP H. LASHER, doing business as Western Movie Supply Co., San Francisco, Calif. Filed Oct. 20, 1942.

WESCO

FOR POST CARDS CONTAINING PICTURES.
Claims use since Sept. 1, 1942.

Ser. No. 458,560. THETA SIGMA PHI, Chicago, Ill. Filed Feb. 10, 1943.

The Matrix

FOR MAGAZINE FOR ALL WOMEN WHO WRITE, A PUBLICATION FOR SALE TO THE PUBLIC, SCHOOLS, LIBRARIES, AND INDIVIDUALS.
Claims use since March, 1915.

CLASS 39

CLOTHING

Ser. No. 439,170. N. B. COHEN COMPANY, Scranton, Pa. Filed Dec. 24, 1940.



The wording is disclaimed apart from the mark. The outline of the envelope per se is disclaimed. The portrait is that of Camille Bartlett.
FOR HAIR NETS.
Claims use since Apr. 1, 1936.

Ser. No. 453,676. ARTHUR W. MCKAY, Sacramento, Calif. Filed June 15, 1942.

Arronne MODES

The word "Modes" is disclaimed except as shown.
FOR SHOES MADE OF LEATHER, FABRIC, PLASTICS, RUBBER, AND/OR COMBINATIONS OF SAID MATERIALS, AND/OR SUBSTITUTES FOR SAID MATERIALS.
Claims use since May 6, 1942.

Ser. No. 456,827. WILLIAM LIVINGSTON, doing business as Hosecraft Hosiery Mills, New York, N. Y. Filed Nov. 14, 1942.

SOLETTES

FOR FOOT SOCKS.
Claims use since July 2, 1942.

Ser. No. 458,237. FASHION TOWNE, INC., New York, N. Y. Filed Jan. 30, 1943.

UNITED NATION
Fashions

The word "Fashions" is disclaimed apart from the mark.
FOR MISSES' AND JUNIOR MISSES' COATS, SUITS, AND COAT AND SUIT ENSEMBLES.
Claims use since Jan. 5, 1942.

Ser. No. 458,238. GLENSDER TEXTILE CO., New York, N. Y. Filed Jan. 30, 1943.

Ice-Mist

FOR WOMEN'S SCARFS.
Claims use since June 12, 1942.

Ser. No. 458,376. M & W THOMAS CORP., New York, N. Y. Filed Feb. 6, 1943.



The drawing is lined for red.
FOR NECKTIES.
Claims use since Sept. 15, 1942.

Ser. No. 458,411. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Feb. 8, 1943.

CARETREE

For MEN'S AND BOYS' SLACK SUITS.
Claims use since February, 1942.

Ser. No. 458,503. BRADFORD-NORTON, Birmingham, Ala. Filed Feb. 13, 1943.

BAMA

FOR LADIES' AND MISSES' HATS.
Claims use since Dec. 21, 1942.

Ser. No. 458,504. BRADFORD-NORTON, Birmingham, Ala. Filed Feb. 13, 1943.

RAMAJAMA

FOR LADIES' AND MISSES' HATS.
Claims use since Dec. 23, 1942.

Ser. No. 458,555. TOWNLEY FROCKS, INC., New York, N. Y. Filed Feb. 15, 1943.

BUSYBODY

FOR LADIES' AND MISSES' DRESSES, COATS, DRESS AND JACKET ENSEMBLES, SUITS, BLOUSES, SKIRTS, COVERALLS, AND JUMPERS.
Claims use since Nov. 2, 1942.

Ser. No. 458,556. TOWNLEY FROCKS, INC., New York, N. Y. Filed Feb. 15, 1943.

POPOVER

FOR LADIES' AND MISSES' DRESSES, COATS, DRESS AND JACKET ENSEMBLES, SUITS, BLOUSES, SKIRTS, COVERALLS, AND JUMPERS.
Claims use since Nov. 2, 1942.

CLASS 40

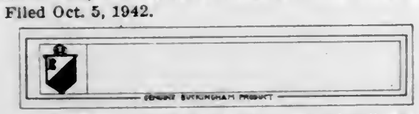
FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 450,332. FRIEDMAN BROS. & SONS NECKWEAR CO., INC., New York, N. Y. Filed Jan. 20, 1942.

SLIM-JIM

FOR ORNAMENTAL SHOE AND DRESS BOWS MADE OF FABRICS AND COMPOSITIONS; RIBBONS SOLD IN SHORT CUT LENGTHS, SUCH AS WRIST WATCH RIBBONS AND SHOULDER STRAPS; SHOE AND DRESS BUCKLES AND ORNAMENTS, CUFF LINKS, SHIRT BUTTONS, NECKTIE CLASPS AND COLLAR CLASPS, ALL MADE OF NON-PRECIOUS METALS OR COMPOSITION MATERIAL.
Claims use since October, 1941.

Ser. No. 455,986. MAURICE NEISHTAT, New York, N. Y. Filed Oct. 5, 1942.



The words "Genuine Buckingham Product" are disclaimed. The representation of the carrying cord per se is disclaimed.
FOR LEATHER WRIST WATCH STRAPS.
Claims use since January, 1941.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 451,195. J. H. BIRTWISTLE & COMPANY LIMITED, Lancashire, England. Filed Feb. 25, 1942.



FOR PIECE GOODS OF COTTON, RAYON, AND MIXTURES THEREOF; SHEETS, PILLOW CASES, BOLSTER CASES, MATTRESS COVERS, BLANKETS, BED SPREADS, QUILTS, TABLECLOTHS, TRAY CLOTHS, AND WINDOW CURTAINS IN THE NATURE OF WINDOW DRAPERY.
Claims use since July 23, 1941.

Ser. No. 456,077. THE KENDALL COMPANY, Walpole, Mass. Filed Oct. 8, 1942.

PERX

FOR INTERLININGS AND STIFFENER FABRICS SOLD BOTH IN THE PIECE AND IN THE BOLT.
Claims use since Sept. 29, 1942.

Ser. No. 457,259. THE PAUL WHITIN MANUFACTURING COMPANY, Northbridge, Mass. Filed Dec. 7, 1942.



Applicant is the owner of registration No. 399,001 of Dec. 8, 1942, effected under the 10-year proviso. Applicant disclaims the words "Fabrics" and "Gabardine" apart from the mark.
FOR FABRICS MADE OF RAYON, CELLULOSE ACETATE RAYON, SILK, COTTON, WOOL, AND MIXTURES THEREOF IN THE PIECE.
Claims use since Sept. 1, 1942; and since 1860 for the word "Rockdale."

Ser. No. 457,260. THE PANL WHITIN MANUFACTURING COMPANY, Northbridge, Mass. Filed Dec. 7, 1942.



Applicant is the owner of registration No. 399,001 of Dec. 8, 1942, effected under the 10-year proviso. Applicant disclaims the words "Fabrics" and "Pongee" apart from the mark.
FOR FABRICS MADE OF RAYON, CELLULOSE ACETATE RAYON, SILK, COTTON, WOOL, AND MIXTURES THEREOF, IN THE PIECE.
Claims use since Sept. 1, 1942; and since 1860 for the word "Rockdale."

Ser. No. 457,261. THE PAUL WHITIN MANUFACTURING COMPANY, Northbridge, Mass. Filed Dec. 7, 1942.



Applicant is the owner of registration No. 399,001 of Dec. 8, 1942, effected under the 10-year proviso. Applicant disclaims the words "Fabrics" and "Tropical" apart from the mark.

FOR FABRICS MADE OF RAYON, CELLULOSE ACETATE RAYON, SILK, COTTON, WOOL, AND MIXTURES THEREOF, IN THE PIECE.

Claims use since Sept. 1, 1942; and since 1860 for the word "Rockdale."

Ser. No. 457,982. MARCUS BEDSPREAD & DRAPERY CORP., New York, N. Y. Filed Jan. 18, 1943.

MARCRAFT

FOR BEDSPREADS, DRESSER SCARFS, FINISHED DRAPERIES, DRAPERY MATERIAL IN THE PIECE, PIECE GOODS OF COTTON, SILK, WOOL, RAYON, AND MIXTURES.

Claims use since January, 1942.

CLASS 43

THREAD AND YARN

Ser. No. 458,717. BADGER WORSTED MILLS, Grafton, Wis. Filed Feb. 24, 1943.

DEPENDON

FOR YARNS COMPOSED OF COTTON, WOOL, RAYON, AND WORSTED, AND COMBINATIONS THEREOF.

Claims use since Jan. 1, 1933.

CLASS 45

BEVERAGES, NONALCOHOLIC

Ser. No. 458,401. MUTUAL CITRUS PRODUCTS CO., INC., Anaheim, Calif. Filed Feb. 8, 1943.

BEV-ADE

No claim is made to the word "Ade" apart from the mark.

FOR POWDERED BEVERAGE BASE FOR MAKING NONALCOHOLIC BEVERAGES.

Claims use since Dec. 15, 1942.

Ser. No. 458,518. SAMUEL E. WEBB, doing business as Beverages of America Bottling Company, Philadelphia, Pa. Filed Feb. 13, 1943.



FOR NONALCOHOLIC, MALTLESS BEVERAGES AND PRODUCTS FOR USE IN MAKING THE SAME.

Claims use since June 1, 1940.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 449,992. HUNT BROTHERS PACKING COMPANY, San Francisco, Calif. Filed Jan. 5, 1942.

Alliance BRAND



No claim is made to the wording other than "Alliance" apart from the mark.

FOR CANNED FRUITS, CANNED VEGETABLES.

Claims use since Dec. 29, 1908.

Ser. No. 451,741. COUNTY FAIR PACKING CORP., Jamaica, Long Island, N. Y. Filed Mar. 19, 1942.



FOR BEEF CUTS.

Claims use since Aug. 29, 1941.

Ser. No. 454,205. SEA BOARD SUPPLY CO., INC., Philadelphia, Pa. Filed July 13, 1942.

DUCK-CEN-MIX

No claim is made to the words "Duck" and "Mix" except as shown.

FOR FEED CONCENTRATE FOR DUCKS.

Claims use since December, 1939.

Ser. No. 454,206. SEA BOARD SUPPLY CO., INC., Philadelphia, Pa. Filed July 13, 1942.

HOG-CEN-MIX

No claim is made to the words "Hog" and "Mix" except as shown.

FOR FEED CONCENTRATE FOR ANIMALS, PARTICULARLY HOGS.

Claims use since January, 1941.

Ser. No. 456,427. NATIONAL CANNERS ASSOCIATION, Wilmington, Del., and Washington, D. C. Filed Oct. 26, 1942. Under the act of February 20, 1905, as amended June 10, 1938.

SEMPO

FOR CANNED VEGETABLES.

Claims use since Oct. 17, 1942.

Ser. No. 457,364. WILLIAM HENRY ILIFF, Los Angeles, Calif. Filed Dec. 12, 1942.

ILIFFILI

FOR PEANUTS AND NUT MEATS.

Claims use since Oct. 1, 1942.

Ser. No. 457,767. NORDA ESSENTIAL OIL AND CHEMICAL COMPANY, New York, N. Y. Filed Jan. 5, 1943.

Norda
Maid

FOR FOOD FLAVORING EXTRACTS AND FOOD FLAVORING SYRUPS AND SPICES.

Claims use since Nov. 24, 1942.

Ser. No. 458,027. JEANNE ADLER, doing business as Cofytex Sales Co., New York, N. Y. Filed Jan. 20, 1943.

COFYTEX

FOR IMITATION COFFEE MADE FROM MALT WHICH CONTAINS NO CAFFEINE.

Claims use since Nov. 4, 1942.

Ser. No. 458,345. SPARK-O-LIFE COMPANY, Kansas City, Kans. Filed Feb. 4, 1943.

TINGLE!

FOR FRESH NATURAL GRANULAR WHEAT EMBRYO.

Claims use since Jan. 30, 1943.

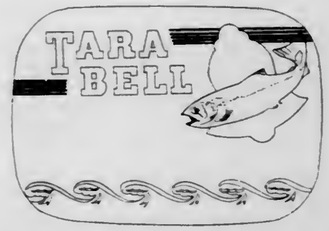
Ser. No. 458,378. VOLPIT CHEWING CANDY CO., INC., Long Island City, N. Y. Filed Feb. 6, 1943.

TRUNA

FOR CANDY.

Claims use since Feb. 3, 1943.

Ser. No. 458,622. THE BELL SMOKED FISH CO., San Francisco, Calif. Filed Feb. 19, 1943.



No claim is made to the representation of the fish or the label apart from the mark.

FOR CANNED FISH.

Claims use since July 7, 1940.

Ser. No. 458,659. MASON, AU & MAGENHEIMER CONF. MFG. CO., Brooklyn, N. Y. Filed Feb. 20, 1943.

RUMOR

FOR CANDIES AND CHOCOLATES.

Claims use since Dec. 16, 1934.

Ser. No. 458,729. N. GIANANDREA, doing business as Valley Growers Exchange, San Jose, Calif. Filed Feb. 24, 1943.

KLICK

FOR FRESH VEGETABLES.

Claims use since 1940.

Ser. No. 458,733. INTERNATIONAL MILLING COMPANY, Minneapolis, Minn. Filed Feb. 24, 1943.

Hy-Jump

FOR WHEAT FLOUR.

Claims use since Feb. 8, 1936.

CLASS 47

WINES

Ser. No. 458,118. JOSEPH MUTASCIO, doing business as Prosperity California Wines, New York, N. Y. Filed Jan. 23, 1943.

Savant

FOR WINES.
Claims use since June 10, 1942.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 450,092. DISTILLERS WAREHOUSE, INC., St. Louis, Mo. Filed Jan. 9, 1942.



The words "Kentucky Straight Bourbon Whiskey" are disclaimed apart from the mark.
FOR WHISKEY.
Claims use since Oct. 10, 1940.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

APRIL 13, 1943

400,927. VEHICLE HEATERS AND DEFROSTERS UTILIZING HOT ENGINE FLUIDS. LINCOLN MOTOR COMPANY, Detroit, Mich., assignor to Ford Motor Company, Dearborn, Mich.
Filed January 18, 1940. Serial No. 427,586. PUBLISHED FEBRUARY 2, 1943. Class 19.

400,928. CANDIES. THE METRO CHOCOLATE CO. INC., New York, N. Y.
Filed August 5, 1941. Serial No. 445,998. PUBLISHED FEBRUARY 2, 1943. Class 46.

400,929. CANNED DOG AND CAT FOOD. J. M. JULIAN COMPANY, also doing business as Marney Food Co., Huntington Park, Calif.
Filed August 27, 1941. Serial No. 446,574. PUBLISHED NOVEMBER 18, 1941. Class 46.

400,930. CANNED SALMON. GRIFFITH-DURNEY COMPANY OF WASHINGTON, Seattle, Wash., assignor to Budd T. Weyand, Seattle, Wash., doing business as Griffith-Durney & Company of Washington.
Filed November 10, 1941. Serial No. 448,509. PUBLISHED MARCH 24, 1942. Class 46.

400,931. SOAP. CATHERINE K. GORDON, doing business as House of Gordon, Chicago, Ill.
Filed December 3, 1941. Serial No. 449,133. PUBLISHED FEBRUARY 2, 1943. Class 4.

400,932. BITUMINOUS ROOFING CEMENT. THE FLINTKOTE COMPANY, New York, N. Y.
Filed December 8, 1941. Serial No. 449,258. PUBLISHED FEBRUARY 2, 1943. Class 12.

400,933. COUGH SYRUPS. THE DILL COMPANY, Norristown, Pa.
Filed March 3, 1942. Serial No. 451,359. PUBLISHED JUNE 9, 1942. Class 6.

400,934. DRY CLEANING FLUID. YORK PHARMACAL COMPANY, St. Louis, Mo.
Filed April 14, 1942. Serial No. 452,341. PUBLISHED FEBRUARY 2, 1943. Class 4.

400,935. SALAD DRESSING. SI-SI FOOD COMPANY, New York, N. Y.
Filed April 18, 1942. Serial No. 452,436. PUBLISHED FEBRUARY 2, 1943. Class 46.

400,936. TOILET PREPARATION FOR THE HAIR IN THE FORM OF A POMADE. NATIONAL DRUG AND CHEMICAL COMPANY OF CANADA, LIMITED, Montreal, Quebec, Canada.
Filed April 28, 1942. Serial No. 452,649. PUBLISHED FEBRUARY 2, 1943. Class 6.

400,937. MEDICINE SOLELY AND EXCLUSIVELY FOR DIABETES. E. J. DAILEY, doing business as E. J. Dailey's Laboratories, San Diego, Calif.
Filed May 4, 1942. Serial No. 452,766. PUBLISHED JUNE 30, 1942. Class 6.

400,938. CHEMICAL PREPARATION FOR REMOVING WALL PAPER. OTTO E. LINCK, doing business as Sollicide Laboratories, Montclair, N. J.
Filed May 25, 1942. Serial No. 453,247. PUBLISHED FEBRUARY 2, 1943. Class 6.

400,939. BREAD. ELIZABETH MONAGHAN INC., Detroit, Mich.
Filed June 4, 1942. Serial No. 453,461. PUBLISHED FEBRUARY 2, 1943. Class 46.

400,940. FRESH CITRUS FRUITS. L. V. W. BROWN ESTATE, Highgrove, Calif.
Filed June 17, 1942. Serial No. 453,707. PUBLISHED AUGUST 18, 1942. Class 46.

400,941. WOMEN'S SLIPS. HERMAN B. LEVY, doing business as Sally Style Slips, New York, N. Y.
Filed June 26, 1942. Serial No. 453,895. PUBLISHED DECEMBER 15, 1942. Class 39.

400,942. CANNED FRUITS, CANNED VEGETABLES. TRI-VALLEY PACKING ASSOCIATION, San Francisco, Calif.
Filed July 13, 1942. Serial No. 454,207. PUBLISHED SEPTEMBER 15, 1942. Class 46.

400,943. BATTERY PARTS AND SUPPLIES—NAMELY, STRAPS, CONNECTORS, TERMINALS, VENT CAPS, JARS, COVERS, WOOD CASES, AND SEALING COMPOUNDS, ETC. PHILCO CORPORATION, Philadelphia, Pa.
Filed July 21, 1942. Serial No. 454,374. PUBLISHED FEBRUARY 2, 1943. Class 21.

400,944. RADIO AND TELEVISION RECEIVING SETS AND PARTS THEREOF. ZENITH RADIO CORPORATION, Chicago, Ill.
Filed July 22, 1942. Serial No. 454,441. PUBLISHED FEBRUARY 2, 1943. Class 21.

400,945. RADIO AND TELEVISION RECEIVING SETS AND PARTS THEREOF. ZENITH RADIO CORPORATION, Chicago, Ill.
Filed July 22, 1942. Serial No. 454,442. PUBLISHED FEBRUARY 2, 1943. Class 21.

400,946. INCANDESCENT, FLUORESCENT, SHORT WAVE, AND ULTRA VIOLET LAMPS FOR USE IN AIRPLANE DETECTION, MEAT TENDERIZING, AND ILLUMINATION, AND FOR THE ASSOCIATED CONTROL EQUIPMENT INCLUDING ELECTRICALLY AND MANUALLY OPERATED BALLAST, RHEOSTAT, AND TRANSFORMER. INDUSTRIAL ELECTRONICS CORPORATION, Newark, N. J.
Filed July 23, 1942. Serial No. 454,446. PUBLISHED FEBRUARY 2, 1943. Class 21.

400,947. SYRUP, CONCENTRATES, AND EXTRACTS FOR CARBONATED NON-ALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS. VICTOR SYRUP CORPORATION, Long Island City, N. Y.
Filed July 24, 1942. Serial No. 454,484. PUBLISHED FEBRUARY 2, 1943. Class 45.

400,948. YARNS MADE OF RAYON, CELLULOSE ACETATE RAYON, WOOL, SILK, COTTON, AND MIXTURES THEREOF. THE PAUL WHITIN MANUFACTURING COMPANY, Northbridge, Mass.
Filed August 6, 1942. Under section 5b of the act of 1905 as amended in 1920 as to "Rockdale." Serial No. 454,772. PUBLISHED JANUARY 19, 1943. Class 43.

400,949. WRITING PAPER AND ENVELOPES. MUTUAL PRINTING COMPANY, Philadelphia, Pa.
Filed August 7, 1942. Serial No. 454,781. PUBLISHED FEBRUARY 2, 1943. Class 37.

400,950. BAMBOO VAULTING POLES AND BAMBOO SKI POLES. GEO. H. MAUS, INC., Amsterdam, N. Y.
Filed August 10, 1942. Serial No. 454,831. PUBLISHED FEBRUARY 2, 1943. Class 22.

400,951. ONIONS IN THEIR NATURAL STATE. ERNEST LUCARELLI & CO., Canastota, N. Y.
Filed August 15, 1942. Serial No. 454,928. PUBLISHED FEBRUARY 2, 1943. Class 46.

400,952. LIVE POULTRY AND EGGS. UNITED STATES DEPARTMENT OF AGRICULTURE, Washington, D. C.
Filed August 21, 1942. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 455,035. PUBLISHED FEBRUARY 2, 1943. Class 46.

400,953. LIVE POULTRY AND EGGS. UNITED STATES DEPARTMENT OF AGRICULTURE, Washington, D. C. Filed August 21, 1942. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 455,036. PUBLISHED FEBRUARY 2, 1943. Class 46.

400,954. LIVE POULTRY AND EGGS. UNITED STATES DEPARTMENT OF AGRICULTURE, Washington, D. C. Filed August 21, 1942. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 455,037. PUBLISHED FEBRUARY 2, 1943. Class 46.

400,955. LIVE POULTRY AND EGGS. UNITED STATES DEPARTMENT OF AGRICULTURE, Washington, D. C. Filed August 21, 1942. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 455,038. PUBLISHED FEBRUARY 2, 1943. Class 46.

400,956. LIVE POULTRY AND EGGS. UNITED STATES DEPARTMENT OF AGRICULTURE, Washington, D. C. Filed August 21, 1942. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 455,039. PUBLISHED FEBRUARY 2, 1943. Class 46.

400,957. LIVE POULTRY AND EGGS. UNITED STATES DEPARTMENT OF AGRICULTURE, Washington, D. C. Filed August 21, 1942. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 455,040. PUBLISHED FEBRUARY 2, 1943. Class 46.

400,958. MEN'S AND WOMEN'S SHIRTS, SLACKS, AND ENSEMBLES—NAMELY, SPORT SHIRTS AND HARMONIZING OR CONTRASTING SLACKS TO BE WORN BY MEN, WOMEN, AND CHILDREN. RIVERSIDE & DAN RIVER COTTON MILLS, INC., Danville, Va., and New York, N. Y.
Filed September 4, 1942. Serial No. 455,350. PUBLISHED FEBRUARY 2, 1943. Class 39.

400,959. SURGICAL STITCHING INSTRUMENTS, THEIR PARTS AND ATTACHMENTS—NAMELY, NEEDLES, BOBBINS, AND BOBBIN WINDERS. THE SINGER MANUFACTURING COMPANY, Elizabeth, N. J.
Filed September 5, 1942. Serial No. 455,383. PUBLISHED FEBRUARY 2, 1943. Class 44.

400,960. CELLULOSE ACETATE PLASTIC MOLDING MATERIALS IN PULP AND GRANULATED FORM. MANUFACTURERS CHEMICAL CORPORATION, Berkeley Heights, N. J.
Filed September 7, 1942. Serial No. 455,398. PUBLISHED FEBRUARY 2, 1943. Class 1.

400,961. OINTMENT FOR THE RELIEF OF MINOR WOUNDS AND BURNS. GEORGE A. BREON & COMPANY, Kansas City, Mo.
Filed September 24, 1942. Serial No. 455,717. PUBLISHED FEBRUARY 2, 1943. Class 6.

400,962. CIGARETTE CASES, CIGAR CASES, VANITIES, PUFF BOXES, COMPACTS, LIGHTERS, WATCH-BRACELETS NOT INCLUDING WATCHES, BRACELETS, CLIPS, EARRINGS, CUFF LINKS, TIE CLIPS, BILL CLIPS, CIGARETTE HOLDERS, CIGAR HOLDERS, KNIVES, PENS, PENCILS, AND COLLAR CLIPS WHICH ARE MADE OF PRECIOUS METAL. LOUIS TAMIS & SON, New York, N. Y.
Filed September 25, 1942. Serial No. 455,771. PUBLISHED FEBRUARY 2, 1943. Class 28.

400,963. OINTMENT FOR MINOR CUTS AND BURNS AND FOR COLD CREAM. JOHN L. NORRIS, JR., doing business as Vello Products, Lyndonville, Vt.
Filed October 1, 1942. Serial No. 455,889. PUBLISHED FEBRUARY 2, 1943. Class 6.

400,964. SLIDE FASTENERS. MORRIS FINKELSTEIN, New York, N. Y.
Filed October 5, 1942. Serial No. 455,969. PUBLISHED FEBRUARY 2, 1943. Class 13.

400,965. SOAP. PARA TI CORPORATION, New York, N. Y.
Filed October 9, 1942. Serial No. 456,103. PUBLISHED FEBRUARY 2, 1943. Class 4.

400,966. PERFUMES AND COSMETICS. PARA TI CORPORATION, New York, N. Y.
Filed October 9, 1942. Serial No. 456,104. PUBLISHED DECEMBER 22, 1942. Class 6.

400,967. CLAYS USED AS EXTENDERS IN PROTECTIVE PAINT COATINGS. GEORGIA KAOLIN COMPANY, Elizabeth, N. J.
Filed October 14, 1942. Serial No. 456,188. PUBLISHED FEBRUARY 2, 1943. Class 16.

400,968. TOILET SEATS. SWEDISH CRUCIBLE STEEL COMPANY, Detroit, Mich.
Filed October 16, 1942. Serial No. 456,252. PUBLISHED FEBRUARY 2, 1943. Class 13.

400,969. FRESH CITRUS FRUITS. SOUTHERN CITRUS ASSOCIATION, Redlands, Calif.
Filed October 21, 1942. Serial No. 456,327. PUBLISHED FEBRUARY 2, 1943. Class 46.

400,970. WIND AND WATER REPELLANT COTTON POPLIN PIECE GOODS. HIRSCH-WERNER, INC., New York, N. Y.
Filed October 31, 1942. Serial No. 456,558. PUBLISHED JANUARY 26, 1943. Class 42.

400,971. HOLLOW SHEET METAL AND WOOD BUILDING BLOCKS, PORTABLE SECTIONAL BUILDINGS, AND PARTS FOR PORTABLE SECTIONAL BUILDINGS, ETC. UNICON COMPANY, Kansas City, Mo.
Filed October 31, 1942. Serial No. 456,575. PUBLISHED FEBRUARY 2, 1943. Class 12.

400,972. POCKETBOOKS AND HANDBAGS. DEAUVILLE BAGS, INC., New York, N. Y.
Filed November 2, 1942. Serial No. 456,587. PUBLISHED FEBRUARY 2, 1943. Class 3.

400,973. ICE CREAM. ESKIMO PIE CORPORATION, Bloomfield, N. J.
Filed November 7, 1942. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 456,685. PUBLISHED FEBRUARY 2, 1943. Class 46.

400,974. ELECTRICAL INSULATOR PLUGS. NORTHAM WARREN CORPORATION, Stamford, Conn.
Filed November 9, 1942. Serial No. 456,720. PUBLISHED FEBRUARY 2, 1943. Class 21.

400,975. WOOLEN FABRICS IN THE PIECE. S. STROOCK & Co., INC., New York, N. Y.
Filed November 13, 1942. Serial No. 456,814. PUBLISHED JANUARY 19, 1943. Class 42.

400,976. ELBOW MACARONI, READY CUT SPAGHETTI, SHELL MACARONI, ALPHABETS, AND SOUP RINGS, ALL OF WHICH ARE KNOWN AS "MACARONI PRODUCTS." GOOCH FOOD PRODUCTS COMPANY, Lincoln, Nebr.
Filed November 17, 1942. Serial No. 456,873. PUBLISHED FEBRUARY 2, 1943. Class 46.

400,977. RAZOR STROPS. ILLINOIS RAZOR STROP COMPANY, Chicago, Ill.
Filed November 18, 1942. Serial No. 456,891. PUBLISHED FEBRUARY 2, 1943. Class 4.

400,978. CEMENT PIPES, CEMENT CONDUITS, CEMENT STACKS, AND CHIMNEY SECTIONS. CHARLES E. MORRIS, doing business as C. E. Morris and Company, Dallas, Tex.
Filed November 23, 1942. Serial No. 456,989. PUBLISHED FEBRUARY 2, 1943. Class 12.

400,979. PRESSED WOOD FIBER WALL BOARD. BARCLAY MANUFACTURING COMPANY, INC., New York, N. Y.
Filed November 25, 1942. Serial No. 457,027. PUBLISHED FEBRUARY 2, 1943. Class 12.

400,980. WHEAT FLOUR. HOPKINSVILLE MILLING CO., Hopkinsville, Ky.
Filed November 25, 1942. Serial No. 457,037. PUBLISHED FEBRUARY 2, 1943. Class 46.

400,981. CHEESE COCKTAIL SPREADS. THE BORDEN COMPANY, New York, N. Y.
Filed November 26, 1942. Serial No. 457,060. PUBLISHED FEBRUARY 2, 1943. Class 46.

400,982. LIQUID HYDROCARBON SOLVENTS OF GENERAL USE IN THE INDUSTRIAL ARTS AND PARTICULARLY AS A SUBSTITUTE FOR TOLUOL WHERE TOLUOL IS USED FOR ITS SOLVENT ACTION. THE NEVILLE COMPANY, Neville Island, Pa.
Filed November 26, 1942. Serial No. 457,067. PUBLISHED FEBRUARY 2, 1943. Class 6.

400,983. TEMPERATURE ACTUATED ELECTRIC SWITCHES. DETROIT LUBRICATOR COMPANY, Detroit, Mich.
Filed November 30, 1942. Serial No. 457,115. PUBLISHED FEBRUARY 2, 1943. Class 26.

400,984. LADIES' AND CHILDREN'S UNDERWEAR. BLUE SWAN MILLS, INC., New York, N. Y.
Filed December 2, 1942. Serial No. 457,162. PUBLISHED FEBRUARY 2, 1943. Class 39.

400,985. VITAMIN PREPARATION. PARKE, DAVIS & COMPANY, Detroit, Mich.
Filed December 7, 1942. Serial No. 457,249. PUBLISHED FEBRUARY 2, 1943. Class 6.

400,986. PHARMACEUTICAL PREPARATION USEFUL IN TREATMENT OF ASTHMA. HENRY H. BEISNER, doing business as H. H. Beisner (Chemicals), New York, N. Y.
Filed December 8, 1942. Serial No. 457,268. PUBLISHED FEBRUARY 2, 1943. Class 6.

400,987. MATTRESSES AND BOX SPRINGS. ALTOONA MATTRESS MFG. COMPANY, INC., Altoona, Pa.
Filed December 10, 1942. Serial No. 457,305. PUBLISHED FEBRUARY 2, 1943. Class 32.

400,988. PNEUMATIC TIRES AND TUBES. THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio.
Filed December 11, 1942. Serial No. 457,335. PUBLISHED FEBRUARY 2, 1943. Class 35.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

400,989. (CLASS 31. FILTERS AND REFRIGERATORS.) VIKING REFRIGERATORS, INC., Kansas City, Mo. Filed May 25, 1939. Serial No. 419,825.

CrispyCold

FOR REFRIGERATED DISPLAY CASES AND REFRIGERATORS FOR THE PRESERVATION OF FOODSTUFFS.
Claims use since Apr. 28, 1939.

400,990. (CLASS 39. CLOTHING.) SEARS, ROEBUCK AND CO., Chicago, Ill. Filed July 3, 1939. Serial No. 421,262.



Thriftily yours
Bob Burnham

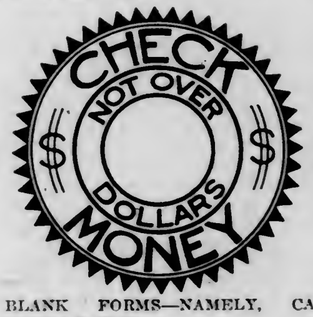
FOR MEN'S SHOES FORMED OF LEATHER, FABRIC, AND COMBINATIONS THEREOF.
Claims use since Jan. 16, 1938.

400,991. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROBERT J. LIFSEY, doing business as Herb Products Medicine Co., Jackson, Tenn. Filed Jan. 3, 1940. Serial No. 427,107.

MILLER'S

FOR ANTISEPTIC OIL.
Claims use since March, 1936.

400,992. (CLASS 37. PAPER AND STATIONERY.) WILLIAM I. NICHOLSON, JR., Tulsa, Okla. Filed Nov. 2, 1940. Serial No. 437,525.



FOR BLANK FORMS—NAMELY, CASHIERS' CHECKS, SOLD AS SUCH.
Claims use since Sept. 25, 1940.

400,993. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) MINE SAFETY APPLIANCES COMPANY, Pittsburgh, Pa. Filed Dec. 10, 1940. Serial No. 438,699.

ALL DUST

FOR RESPIRATORS FOR DUSTS.
Claims use since Nov. 1, 1940.

400,994. (CLASS 3. BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) ERNEST L. WARNER, Los Angeles, Calif. Filed Apr. 14, 1941. Serial No. 442,580.

Lady Vanity

FOR LEATHER VANITY CASES.
Claims use since Mar. 31, 1941.

400,995. (CLASS 39. CLOTHING.) LEEA M. PERLITCH, New York, N. Y. Filed Aug. 26, 1941. Serial No. 446,551.

Miss Lee's

FOR JOINED BLOUSE AND SLIP COMBINATIONS FOR INFANTS, CHILDREN, AND JUNIORS.
Claims use since March, 1941.

400,996. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LOVELL AND COVEL COMPANY, Cambridge, Mass. Filed Sept. 16, 1941. Serial No. 447,069.

Sugar Box

Lovell by & Covel

FOR CANDY.
Claims use since Aug. 22, 1941.

400,997. CLASS 3. BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) I. SMALLMAN & SONS, INC., New York, N. Y. Filed Feb. 7, 1942. Serial No. 450,839.

COIN-VU

FOR BILLFOLDS AND POCKETBOOKS.
Claims use since Jan. 2, 1942.

400,998. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CIMINO BROS., INC., New Haven, Conn. Filed Feb. 16, 1942. Serial No. 451,001.

Amalfi

FOR CORN OIL AND PEANUT OIL, BLENDED WITH OLIVE OIL.
Claims use since Dec. 10, 1941.

400,999. (CLASS 39. CLOTHING.) MARTINI FROCKS, INC., New York, N. Y. Filed Mar. 10, 1942. Serial No. 451,536.

Diminutives

FOR WOMEN'S AND YOUNG MISSES' EVENING GOWNS, HOSTESS GOWNS, DRESSES, AND SUITS FOR ORDINARY STREET WEAR.
Claims use since Jan. 2, 1942.

401,000. (CLASS 39. CLOTHING.) DAVID CRYSTAL, INC., New York, N. Y. Filed May 15, 1942. Serial No. 453,029.

COURTRAI

FOR LADIES' AND MISSES' DRESSES, DRESS ENSEMBLES, CONSISTING OF DRESS AND COAT.
Claims use since January, 1942.

401,001. (CLASS 45. BEVERAGES, NONALCOHOLIC.) H. E. SHAW COMPANY, Worcester, Mass. Filed July 6, 1942. Serial No. 454,076.

Tadcaster

FOR CONCENTRATED SYRUPS FOR THE MAKING AND FLAVORING OF BEVERAGES, INCLUDING COCOA, CHOCOLATE, MALT, GINGER, GINGERALE, MAPLE FLAVOR, ROOT BEER, SARSAPARILLA, VANILLA, FRUIT FLAVORED PHOSPHATE ACID, AND OLD ENGLISH STYLE PUNCH, ALL IN CONCENTRATED LIQUID FORM.
Claims use since 1930.

401,002. (CLASS 39. CLOTHING.) DRIWAY RAINCOATS LIMITED, Leeds, England. Filed July 8, 1942. Serial No. 454,100.

DRIWAY

FOR RAINCOATS AND WATERPROOF TWEED OVERCOATS FOR MEN, WOMEN, BOYS, AND GIRLS.
Claims use since 1934.

401,003. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) WILLIAM F. CROSBY, doing business as Sterling Products Company, Buffalo, N. Y. Filed July 24, 1942. Serial No. 454,475.

Sterling

FOR CREAM FURNITURE POLISHES.
Claims use since Mar. 1, 1941.

401,004. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) L. J. MILEY COMPANY, INC., Chicago, Ill. Filed July 29, 1942. Serial No. 454,578.

REDI-CUT

FOR BRAKE LINING SETS.
Claims use since Jan. 1, 1942.

401,005. (CLASS 48. MALT BEVERAGES AND LIQUORS.) GULF BREWING COMPANY, Houston, Tex. Filed Aug. 3, 1942. Serial No. 454,689.

GRAND PRIZE TASTIN

FOR LAGER BEER.
Claims use since Feb. 15, 1941.

401,006. (CLASS 39. CLOTHING.) MERRIMAC HAT CORPORATION, New York, N. Y. Filed Oct. 3, 1942. Serial No. 455,950.

Silver Fox by MERRIMAC

FOR FELT HAT BODIES.
Claims use since October, 1940.

401,007. (CLASS 39. CLOTHING.) CHIC HOSIERY CO., New York, N. Y. Filed Oct. 26, 1942. Serial No. 456,418.

CHIC-LADY HOSIERY

FOR LADIES' HOSIERY.
Claims use since December, 1941.

401,008. (CLASS 12. CONSTRUCTION MATERIALS.) S. GORDON WETMORE, doing business as Modern Movable Homes, Memphis, Tenn. Filed Nov. 11, 1942. Serial No. 456,759.

MODERN MOVABLE HOMES

FOR PREFABRICATED SECTIONS OF PREFABRICATED HOUSES AND FOR OTHER PARTS AND MATERIALS FORMING PORTIONS OF SUCH PREFABRICATED HOUSES.
Claims use since November, 1941.

401,009. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GILLETTE SAFETY RAZOR COMPANY, Boston, Mass. Filed Nov. 19, 1942. Serial No. 456,924.

LADY GILLETTE

FOR SAFETY RAZORS.
Claims use since May, 1930.

401,010. (CLASS 39. CLOTHING.) STEPHEN PUTNEY SHOE COMPANY, Richmond, Va. Filed Dec. 7, 1942. Serial No. 457,255.

The WESTOVER

FOR SHOES OF LEATHER OR LEATHER AND RUBBER.
Claims use since May 17, 1934.

401,011. (CLASS 39. CLOTHING.) L. ABELSON & SON, New York, N. Y. Filed Dec. 8, 1942. Serial No. 457,263.

Shorty Kote

FOR JUVENILE COATS.
Claims use since Oct. 1, 1941.

401,012. (CLASS 39. CLOTHING.) GIRLY-FORM DRESSES, INC., New York, N. Y. Filed Jan. 2, 1943. Serial No. 457,723.

Lady Stelle
STYLED BY
GIRLY FORM

FOR HOUSE DRESSES.
Claims use since Sept. 30, 1940.

TRADE-MARK REGISTRATIONS RENEWED

163,408. **TYREE'S BUCHU AND HYOSCYAMUS.** LIQUID MEDICINAL PREPARATIONS FOR INTERNAL USE. Registered January 9, 1923. JOSIAH S. TYREE. Renewed January 9, 1943, to J. S. Tyree, Chemist, Inc., Washington, D. C., a corporation of Delaware, successor.

164,237. **"LONDISCOT" AND DRAWING.** MEN'S OVERCOATS. Registered February 13, 1923. WEBER & HEILBRONER. Renewed February 13, 1943, to Weber and Heilbroner, Inc., New York, N. Y., a corporation of New York, by changes of name.

164,503. **STOVER.** WINDMILLS, COMBUSTION ENGINES, FEED-GRINDING MILLS, PUMP JACKS, WORKING HEADS, WOOD-SAW FRAMES, AND ENSILAGE CUTTERS. Registered February 20, 1923. STOVER MANUFACTURING & ENGINE CO., Freeport, Ill. Renewed February 20, 1943, to Stover Manufacturing and Engine Co., Chicago, Ill., a corporation of Illinois.

164,875. **HIGH ART.** PYJAMAS AND MEN'S UNDERGARMENTS—I. E., SHIRTS, DRAWERS, AND UNION SUITS OF TEXTILE FABRICS. Registered February 27, 1923. REGETTA MANUFACTURING CO. INC. Renewed February 27, 1943, to The B. V. D. Corporation, Baltimore, Md., a corporation of Delaware, successor.

165,008. **PLUKO.** HAIR DRESSING. Registered February 27, 1923. PLOUGH CHEMICAL COMPANY, doing business as Pluko Manufacturing Company. Renewed February 27, 1943, to Plough, Inc., Memphis, Tenn., a corporation of Delaware, assignee.

165,167. **REPRESENTATION OF A UNION LABEL.** POSTERS, CERTIFICATE CARDS, CIRCULARS, AND BOOKLETS. Registered March 6, 1923. UNITED GARMENT WORKERS OF AMERICA, New York, N. Y., a voluntary association. Renewed March 6, 1943.

165,184. **"GOLD BOND" AND DRAWING.** TRAVELING BAGS, BRIEF CASES, AND TRUNKS. Registered March 6, 1923. A. GALEWSKI & SONS, INC., New York, N. Y., a corporation of New York. Renewed March 6, 1943.

165,185. **ACTION.** GASOLINE. Registered March 6, 1923. SOUTHERN MINNESOTA OIL COMPANY, Fairmont, Minn. Renewed March 6, 1943, to Cities Service Oil Company, Bartlesville, Okla., a corporation of Delaware, assignee.

165,186. **ROYAL PENN.** MOTOR OILS. Registered March 6, 1923. SOUTHERN MINNESOTA OIL COMPANY, Fairmont, Minn. Renewed March 6, 1943, to Cities Service Oil Company, Bartlesville, Okla., a corporation of Delaware, assignee.

165,251. **HUSH-A-PHONE.** TELEPHONE MUFFLER. Registered March 6, 1923. HUSH-A-PHONE CORPORATION, New York, N. Y., a corporation of New York. Renewed March 6, 1943.

165,422. **"OCECO" AND DRAWING.** SALTED AND DRIED SAUSAGE CASINGS OF EVERY DESCRIPTION, AND GOLDBEATER SKINS. Registered March 6, 1923. OPPENHEIMER CASING CO., Chicago, Ill., a corporation of Delaware. Renewed March 6, 1943.

165,814. **CEL-O-SEAL.** PROTECTIVE MATERIALS USED FOR COATING AND SEALING CONTAINERS AND THE LIKE. Registered March 20, 1923. RHODIA CHEMICAL COMPANY, New Brunswick, N. J. Renewed March 20, 1943, to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware, assignee by mesne assignments.

165,850. **PETROMA.** PAINT PIGMENT. Registered March 20, 1923. THE AMERICAN CRAYON COMPANY, Sandusky, Ohio, a corporation of Ohio. Renewed March 20, 1943.

165,863. **CAMEÉ.** CANDIES. Registered March 20, 1923. JOHN WANAMAKER NEW YORK, New York, N. Y., a corporation of New York. Renewed March 20, 1943.

166,069. **MP.** AGRICULTURAL MACHINERY AND PARTICULARLY PARTS THEREOF. Registered March 27, 1923. MOLINE PLOW COMPANY, now by change of name Illinois American Plow Company, assignor to Moline Plow Company, Incorporated, Moline, Ill. Renewed March 27, 1943, to Minneapolis-Moline Power Implement Company, Minneapolis, Minn., a corporation of Delaware, assignee by mesne assignments.

166,470. **FEDERAL.** TELEPHONE AND TELEGRAPH APPARATUS AND RADIO APPARATUS. Registered April 3, 1923. FEDERAL TELEPHONE & TELEGRAPH CO., Buffalo, N. Y. Renewed April 3, 1943, to Louis Frankel, Chicago, Ill., successor.

166,837. **"CONCORDADE" AND DRAWING.** GRAPE JUICE. Registered April 17, 1923. WIRTH-CONCORDADE COMPANY. Renewed April 17, 1943, to Concordade Company, Inc., Providence, R. I., a corporation of Rhode Island, assignee.

166,916. **MERCO.** NAINSOOK, SHEETS, DIAPER CLOTH, QUILTS, AND LONG CLOTH. Registered April 17, 1923. THE MEYER'S COMPANY, Greensboro, N. C., a corporation of North Carolina. Renewed April 17, 1943.

167,029. **"LASSIE" AND DRAWING.** WHEAT FLOUR. Registered April 24, 1923. FEDERAL MILL & ELEVATOR CO., INC. Renewed April 24, 1943, to Federal Mill, Inc., Lockport, N. Y., a corporation of New York, assignee.

167,430. **ECONOMY.** DRAFT ARMS. Registered May 1, 1923. AMERICAN STEEL FOUNDRIES, Chicago, Ill., a corporation of New Jersey. Renewed May 1, 1943.

167,584. **REPRESENTATION OF A FLEUR-DE-LIS AND HEART.** TOOTH PASTE AND TOOTH POWDER. Registered May 1, 1923. LOUIS PHILIPPE, INC., New York, N. Y. Renewed May 1, 1943, to Affiliated Products, Inc., Jersey City, N. J., a corporation of Illinois, assignee by mesne assignments.

167,788. **CELOTEX.** COMPOSITION OF MATERIAL FOR WALL BOARDS, LINING FOR HOUSES, PLASTER BASES, BOX-MAKING MATERIAL, AND HEAT-INSULATING LUMBER. Registered May 8, 1923. DAHLBERG & COMPANY, INC. Renewed May 8, 1943, to The Celotex Corporation, Chicago, Ill., a corporation of Delaware, assignee by mesne assignments.

167,870. **CELOTEX.** COMPOSITION OF MATERIAL FOR WALL BOARDS, LINING FOR HOUSES, PLASTER BASES, BOX-MAKING MATERIAL, AND HEAT-INSULATING LUMBER IN GENERAL. Registered May 8, 1923. DAHLBERG & COMPANY, INC. Renewed May 8, 1943, to The Celotex Corporation, Chicago, Ill., a corporation of Delaware, assignee by mesne assignments.

167,930. **PURITOL.** A MEAT PRESERVATIVE, FLAVORING, AND COLORING COMPOUND IN LIQUID FORM. Registered May 8, 1923. E. L. KARNES, doing business as The Puritol Company, Kansas City, Mo. Renewed May 8, 1943.

168,118. **"THE FISK IDEAL" AND DRAWING.** RUBBER TIRES AND TUBES. Registered May 15, 1923. THE FISK RUBBER COMPANY, Chicopee Falls, Mass. Renewed May 15, 1943, to United States Rubber Company, New York, N. Y., a corporation of New Jersey, assignee by mesne assignments.

168,226. **DICTATION.** WRITING PAPER. Registered May 15, 1923. FOX RIVER PAPER COMPANY. Renewed May 15 1943, to Fox River Paper Corporation, Appleton, Wis., a corporation of Wisconsin, assignee.

168,238. **"THE HAMILTON MFG. CO." AND DRAWING.** PRINTERS' AND BOOKBINDERS' SUPPLIES. Registered May 15, 1923. THE HAMILTON MANUFACTURING COMPANY. Renewed May 15, 1943, to Hamilton Manufacturing Company, Two Rivers, Wis., a corporation of Wisconsin, successor.

168,247. **"FANS" AND DRAWING.** CIGARETTES. Registered May 15, 1923. TOBACCO PRODUCTS CORPORATION. Renewed May 15, 1943, to The American Tobacco Company, New York, N. Y., a corporation of New Jersey, assignee by mesne assignments.

168,402. **KYRO.** SOAP. Registered May 22, 1923. THE REMMERS SOAP COMPANY. Renewed May 22, 1943, to The Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio, assignee by mesne assignments.

168,465. **VICTOR.** COAL, WOOD, GAS, AND OIL HEATING FURNACES, GRATE FRAMES, GRATE BARS, GRATE-BAR LEVERS. Registered May 22, 1923. HALL-NEAL FURNACE COMPANY, Indianapolis, Ind., a corporation of Indiana. Renewed May 22, 1943.

168,469. **LAKE TAHOE.** FRESH GRAPES. Registered May 22, 1923. E. E. MORSE, Lodi, Calif. Renewed May 22, 1943.

169,192. **STEEL ENGINEERING.** TOY CONSTRUCTION SETS. Registered June 12, 1923. THE A. C. GILBERT COMPANY. Renewed June 12, 1943, to The A. C. Gilbert Company, New Haven, Conn., a corporation of Maryland, assignee.

169,274. **FEDERAL.** CERTAIN NAMED TIRES, HOSE, TUBING, BELTING, FLAPS, PACKING, PATCHES, AND TIRE ACCESSORIES. Registered June 12, 1923. THE FEDERAL RUBBER COMPANY, assignor to The Fisk Rubber Company, Cudahy, Wis. Renewed June 12, 1943, to United States Rubber Company, New York, N. Y., a corporation of New Jersey, assignee by mesne assignments.

169,275. **"FEDERAL" AND DRAWING.** CERTAIN NAMED TIRES, HOSE, TUBING, BELTING, FLAPS, PACKING, PATCHES, AND TIRE ACCESSORIES. Registered June 12, 1923. THE FEDERAL RUBBER COMPANY, assignor to The Fisk Rubber Company, Cudahy, Wis. Renewed June 12, 1943, to United States Rubber Company, New York, N. Y., a corporation of New Jersey, assignee by mesne assignments.

169,276. **FEDERAL.** CERTAIN NAMED TIRES, HOSE, TUBING, BELTING, FLAPS, PACKING, PATCHES, AND TIRE ACCESSORIES. Registered June 12, 1923. THE FEDERAL RUBBER COMPANY, assignor to The Fisk Rubber Company, Cudahy, Wis. Renewed June 12, 1943, to United States Rubber Company, New York, N. Y., a corporation of New Jersey, assignee by mesne assignments.

169,359. **FULFIT.** PINTLES FOR CASTERS. Registered June 12, 1923. THE BASSICK COMPANY, Bridgeport, Conn., a corporation of Connecticut. Renewed June 12, 1943.

169,375. **RAJAH.** RUBBER HEELS AND SOLES, RUBBERS, OVERSHOES, AND RUBBER SHOES. Registered June 12, 1923. ALFRED HALE RUBBER COMPANY, Atlantic, Mass. Renewed June 12, 1943, to Alfred Hale Rubber Company, North Quincy, Mass., a corporation of Massachusetts.

169,637. **MIQUON.** LUBRICATING OILS. Registered June 26, 1923. STANDARD OIL COMPANY, San Francisco, Calif. Renewed June 26, 1943, to Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif., a corporation of Delaware, assignee.

169,826. **ECO.** CERTAIN NAMED MEDICAL AND SURGICAL APPLIANCES. Registered July 3, 1923. EISELE & COMPANY, Nashville, Tenn., a corporation of Delaware. Renewed July 3, 1943.

170,320. **HYLO M. F.** BOOK PAPERS. Registered July 10, 1923. KIMBERLY-CLARK COMPANY. Renewed July 10, 1943, to Kimberly-Clark Corporation, Neenah, Wis., a corporation of Delaware, assignee.

170,321. **PRIMO M. F.** BOOK PAPERS. Registered July 10, 1923. KIMBERLY-CLARK COMPANY. Renewed July 10, 1943, to Kimberly-Clark Corporation, Neenah, Wis., a corporation of Delaware, assignee.

170,322. **ROTO M. F.** BOOK PAPERS. Registered July 10, 1923. KIMBERLY-CLARK COMPANY. Renewed July 10, 1943, to Kimberly-Clark Corporation, Neenah, Wis., a corporation of Delaware, assignee.

170,502. **"CHIM-RING".** SILK PIECE GOODS. Registered July 17, 1923. H. R. MALLINSON & CO. INC. Renewed July 17, 1943, to Mallinson Fabrics Corporation, New York, N. Y., a corporation of New York, assignee.

170,510. **REGATTA.** PAINTS—NAMELY, DRY, PASTE, SEMIPASTE, AND READY MIXED—AND VARNISHES. Registered July 17, 1923. OLIVER REEDER & SON, INCORPORATED, proprietors of The Baltimore Copper Paint Company, Baltimore, Md., a corporation of Maryland. Renewed July 17, 1943.

170,527, **MONTMARTRE.** SILK PIECE GOODS. Registered July 17, 1923. H. R. MALLINSON & CO. INC. Renewed July 17, 1943, to Mallinson Fabrics Corporation, New York, N. Y., a corporation of New York, assignee.

170,597. **ILANASILK.** MATTRESSES, PILLOWS, BOLSTERS, AND CUSHIONS. Registered July 17, 1923. THE ROBINSON-RODERS CO., INC., Newark, N. J. Renewed July 17, 1943, to Burton-Dixie Corporation, Chicago, Ill., a corporation of Delaware, assignee by mesne assignments.

170,716. **RAJAH.** MEN'S, WOMEN'S, AND CHILDREN'S BOOTS, SHOES, AND SLIPPERS MADE WHOLLY OR IN PART OF LEATHER, CANVAS, RUBBER OR TEXTILE MATERIAL. Registered July 24, 1923. ALFRED HALE RUBBER COMPANY, Quincy, Mass. Renewed July 24, 1943, to Alfred Hale Rubber Company, North Quincy, Mass., a corporation of Massachusetts.

171,005. **"SUNSET" AND DRAWING.** APPLE WRAPPERS. Registered July 31, 1923. FRED C. STRYPE, New York, N. Y. Renewed July 31, 1943.

171,145. **"TATE AFTERNOON TEA CUBES" AND DRAWING.** SUGAR. Registered July 31, 1923. TATE & LYLE, LIMITED, London, England, a corporation of the United Kingdom of Great Britain and Northern Ireland. Renewed July 31, 1943.

171,154. **HAWK QUILL.** PENS. Registered July 31, 1923. C. HOWARD HUNT PEN COMPANY, Camden, N. J., a corporation of New Jersey. Renewed July 31, 1943.

171,161. **LACTOID.** A COMPOUND OF VEGETABLE GUMS, AND SUGARS DESIGNED FOR USE AS AN INGREDIENT OF ICE CREAM TO IMPROVE THE BODY OF THE PRODUCT. Registered July 31, 1923. THE LIQUID CARBONIC COMPANY. Renewed July 31, 1943, to The Liquid Carbonic Corporation, Chicago, Ill., a corporation of Delaware, assignee.

171,200. **ANITA.** OLIVE OIL AND SALAD OIL. Registered July 31, 1923. STROHMEYER & ARPE COMPANY, New York, N. Y., a corporation of New York. Renewed July 31, 1943.

171,311. **"MISS AMERICA" AND DRAWING.** PICKLES AND CANNED VEGETABLES. Registered August 7, 1923. AMERICAN PICKLE & CANNING CO., Hattiesburg, Miss. Renewed August 7, 1943, to Standard Brands Incorporated, New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

171,413. **DELTA.** PICKLES. Registered August 7, 1923. AMERICAN PICKLE & CANNING COMPANY, Hattiesburg, Miss. Renewed August 7, 1943, to Standard Brands Incorporated, New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

171,463. **"NUT LUNCH" AND DRAWING.** PEANUT BUTTER. Registered August 7, 1923. GLENN TOWNSEND, doing business as Nut Lunch Company. Renewed August 7, 1943, to Hoody Peanut Products Company, Portland, Oreg., a corporation of Oregon, assignee.

171,539. **HIGH-COURT.** CHOCOLATE COATING. Registered August 7, 1923. IDEAL COCOA & CHOCOLATE CO., Lititz, Pa., and New York, N. Y. Renewed August 7, 1943, to Wilbur-Suchard Chocolate Company, Inc., Lititz, Pa., a corporation of Pennsylvania, assignee.

171,552. **MAGICFLOSS.** YARNS FOR KNITTING, CROCHETING, AND ART NEEDLEWORK. Registered August 7, 1923. BERNHARD ULMANN CO. INC., New York, N. Y., a corporation of New York. Renewed August 7, 1943.

171,561. **FIRE-ARMOR.** HEAT-TREATING CONTAINERS, KILN FURNACES, AND OIL-CRACKING STILL PARTS. Registered August 7, 1923. CHROBALTIC TOOL COMPANY, Chicago, Ill. Renewed August 7, 1943, to Michiana Products Corporation, Michigan City, Ind., a corporation of Indiana, assignee.

171,593. **SPROUTS.** CHOCOLATE. Registered August 7, 1923. IDEAL COCOA & CHOCOLATE CO., Lititz, Pa., and New York, N. Y. Renewed August 7, 1943, to Wilbur-Suchard Chocolate Company, Inc., Lititz, Pa., a corporation of Pennsylvania, assignee.

171,596. **UNI-TILLER.** DEVICES FOR CARRYING AGRICULTURAL TOOLS AND CONNECTING THEM TO TRACTORS OR OTHER SOURCES OF DRAFT POWER. Registered August 7, 1923. MOLINE PLOW COMPANY, INCORPORATED, Moline, Ill. Renewed August 7, 1943, to Minneapolis-Moline Power Implement Co., Minneapolis, Minn., a corporation of Delaware, assignee by mesne assignments.

171,604. **MOLETA.** DRY AND READY-MIXED PAINTS, PAINT ENAMELS, STAINS, AND VARNISHES. Registered August 7, 1923. MONROE, LEDERER & TAUSSIG. Renewed August 7, 1943, to Monroe, Lederer & Taussig, Inc., Philadelphia, Pa., a corporation of Delaware, successor.

171,606. **BETHLEHEM.** STRUCTURAL STEEL. Registered August 7, 1923. BETHLEHEM STEEL COMPANY, Bethlehem, Pa., a corporation of Pennsylvania. Renewed August 7, 1943.

171,610. **MIZZOU.** FIRE BRICK, FIRE-BRICK CEMENT, AND FIRE CLAY TILE. Registered August 7, 1923. A. P. GREEN FIRE BRICK COMPANY, Mexico, Mo., a corporation of Missouri. Renewed August 7, 1943

171,611. **H. M.** FIRE BRICK, FIRE-BRICK CEMENT, AND FIRE CLAY TILE. Registered August 7, 1923. A. P. GREEN FIRE BRICK COMPANY, Mexico, Mo., a corporation of Missouri. Renewed August 7, 1943.

171,612. **D. P.** FIRE BRICK, FIRE-BRICK CEMENT, AND FIRE-CLAY TILE. Registered August 7, 1923. A. P. GREEN FIRE BRICK COMPANY, Mexico, Mo., a corporation of Missouri. Renewed August 7, 1943.

171,782. **BILLEROI.** MEN'S, WOMEN'S, AND CHILDREN'S KNIT AND FLAT HOSIERY. Registered August 14, 1923. DREIFUS, ECKSTEIN & KING, INC. Renewed August 14, 1943, to Le Roi Hosiery Co. Inc., New York, N. Y., a corporation of New York, by change of name.

171,792. **BALCO.** HAIR NETS. Registered August 14, 1923. B. ALTMAN & CO., New York, N. Y., a corporation of New York. Renewed August 14, 1943.

171,809. **"BATES" AND DRAWING.** BAG FILLING AND PACKAGING MACHINERY. Registered August 14, 1923. BATES VALVE BAG COMPANY, Chicago, Ill. Renewed August 14, 1943, to St. Regis Paper Company, New York, N. Y., a corporation of New York, assignee by mesne assignments.

171,982. **MARVELHIDE.** COVER PAPER. Registered August 21, 1923. THE MARVELLUM COMPANY, Holyoke, Mass., a corporation of Massachusetts. Renewed August 21, 1943.

171,983. **ENGLISH VELLUM.** WRITING PAPER AND MAILING ENVELOPES. Registered August 21, 1923. WHITING PAPER COMPANY, Holyoke, Mass., a corporation of Massachusetts. Renewed August 21, 1943.

172,086. **"PEDIGREE" AND DRAWING.** WOMEN'S, MEN'S, BOYS', GIRLS', CHILDREN'S AND INFANTS' HATS MADE OF WOOL, SILK, COTTON, FUR, FELT, STRAW, HEMP, RATTAN, OSIER, AND PALM LEAF. Registered August 21, 1923. NEW ENGLAND PANAMA HAT CO., INC., New York, N. Y. Renewed August 21, 1943, to New England Panama Hat Co., Inc., Baltimore, Md., a corporation of New York.

172,099. **CURTIS FLEXIBLE INNERSOLES.** LEATHER INSOLES. Registered August 21, 1923. J. G. CURTIS LEATHER COMPANY, Ludlow, Pa., a corporation of Delaware. Renewed August 21, 1943.

172,111. **REPRESENTATION OF AN INDIAN HEAD.** LEATHER BOOTS AND SHOES. Registered August 21, 1923. CHIPPEWA SHOE MFG. CO., Chippewa Falls, Wis., a corporation of Wisconsin. Renewed August 21, 1943.

172,113. **"HAYWARD H H" AND DRAWING.** HOSIERY OF SILK, COTTON, WOOL, AND COMBINATIONS THEREOF. Registered August 21, 1923. HAYWARD HOSIERY COMPANY, Ipswich, Mass., a corporation of Massachusetts. Renewed August 21, 1943.

172,131. **COLLEGIATE.** BOOKS, MORE PARTICULARLY DICTIONARIES, WHICH ARE PUBLISHED FROM TIME TO TIME. Registered August 21, 1923. G. & C. MERRIAM COMPANY, Springfield, Mass., a corporation of Massachusetts. Renewed August 21, 1943.

172,147. **KYROCK.** ASPHALT. Registered August 21, 1923. KENTUCKY ROCK ASPHALT CO. Renewed August 21, 1943, to Kentucky Rock Asphalt Co., Louisville, Ky., a corporation of Delaware, assignee.

REISSUES

APRIL 13, 1943

22,299

LUBRICATING COMPOSITION

Clarence E. Earle, Washington, D. C.

No Drawing. Original No. 2,274,673, dated March 3, 1942, Serial No. 328,095, April 5, 1940. Application for reissue November 14, 1942, Serial No. 465,642

20 Claims. (Cl. 252—42)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A lubricating composition comprising oleaginous material selected from the group consisting of mineral and vegetable oils and a thickening agent consisting essentially of a lithium soap of a higher fatty acid in quantity sufficient substantially to thicken said oleaginous material.

22,300

VULCANIZATION OF RUBBER

Paul C. Jones, Silver Lake, and Roger A. Mathes, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Original No. 2,288,194, dated June 30, 1942, Serial No. 255,358, February 8, 1939. Application for reissue November 6, 1942, Serial No. 464,831

21 Claims. (Cl. 260—787)

12. The process which comprises vulcanizing a rubber in the presence of a 2-mercaptothiazoline and a fatty acid.

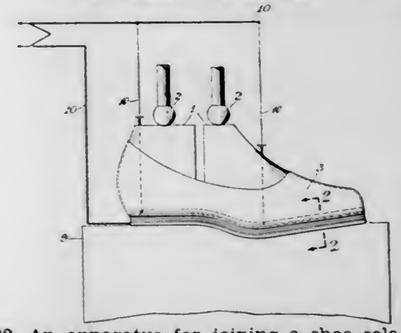
22,301

CEMENTING PROCESS

Earle C. Pitman, Red Bank, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Original No. 2,087,480, dated July 20, 1937, Serial No. 47,426, October 30, 1935. Application for reissue December 30, 1942, Serial No. 470,707

28 Claims. (Cl. 12—33)



22. An apparatus for joining a shoe sole and upper by means of a thermoplastic adhesive which comprises a last adapted to fit the upper snugly, a metal strip embedded in the lower edge of the last, an inflatable bag having in its upper surface a metal strip of approximately the same size and shape as the strip in the last, means to inflate the pressure bag and means to press the parts to be joined between the last and said bag, and means for supplying high frequency electrical energy to the said metal strips.

PLANT PATENTS

GRANTED APRIL 13, 1943

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

575

NECTARINE

Frederic W. Anderson, Merced, Calif.

No Drawing. Application October 20, 1941, Serial No. 415,749

1 Claim. (Cl. 47—62)

A new and distinct variety of nectarine substantially as described, having unusual eating and shipping qualities and which makes an attractive dried product without the use of sulphur.

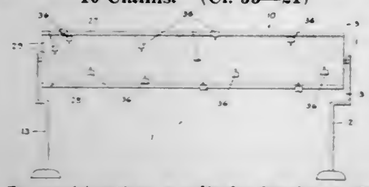
PATENTS

GRANTED APRIL 13, 1943

2,316,146
CASEIN PLASTICS
Frederick W. Adams, Pittsburgh, Pa., and William H. Lycan, Milwaukee, Wis., assignors to Pittsburgh Plate Glass Company, a corporation of Pennsylvania
No Drawing. Application March 22, 1940, Serial No. 325,376
8 Claims. (Cl. 106—147)

1. A composition of matter comprising casein and a glycerol ester of levulinic acid.

2,316,147
EDUCATIONAL DEVICE
Zibah B. Adams, Clinton, Mo.
Application November 22, 1941, Serial No. 420,073
10 Claims. (Cl. 35—21)



1. In combination, a cylinder having a plurality of circumferentially extending ribs slightly spaced from each other, and a plurality of card holders, each having a slender stem adapted to engage over any one of said ribs and retain the card carried thereby rigidly in position, each of said stems being formed so as to engage only one rib at a time.

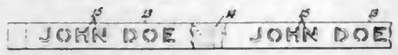
2,316,148
PROCESS FOR PRINTING MEANS
Ellis Bassist, Brookline, Mass., assignor to William Craig Toland, trustee, Brookline, Mass.
Original application December 28, 1940, Serial No. 372,142. Divided and this application July 30, 1941, Serial No. 404,691
4 Claims. (Cl. 95—5.4)



1. That improvement in methods of making photographic negatives which comprises applying a greasy image on a translucent base which includes a substratum of a hydrophilic polyvinyl alcohol and a coating of gum arabic overlying and impregnated in the substratum, coating an opaque light-sensitive material on the base in those areas which occur intermediate the greasy image, said light-sensitive material consisting of a colloid and a chromium compound adapted to render the colloid water-insoluble upon exposure to actinic light, exposing the light-sensitive material to actinic light and then removing the greasy image.

2,316,149
PROCESS OF INTEGRATING COLORED INSIGNIA TO RUBBER
Harold O. Bates, Cranford, N. J.
Application October 24, 1940, Serial No. 362,495
6 Claims. (Cl. 18—59)

1. A process of applying an insignia to a cable or the like having a coating of vulcanizable material, which comprises pressing against said cable in the uncured state a carrier strip having coated thereon a pigmented coating of material



adapted to be united to the coating by vulcanizing and then heating said parts while in contact under pressure until the coating adheres and becomes integral with the cable.

2,316,150
PAPER CUP
Walter E. Amberg, Beverly Shores, Ind., assignor to Universal Paper Products Company, Chicago, Ill., a corporation of Illinois
Application April 2, 1942, Serial No. 437,381
4 Claims. (Cl. 229—1.5)



1. A nestable paper cup of substantially true conical form adapted to be used in cone-shaped cup dispensers, said cup being formed with a bead at the mouth thereof rolled outside in with the free edge terminating within the roll of the bead.

2,316,151
ELECTROMAGNETIC HORN
Wilmer Lanier Barrow, Newton, Mass., assignor to Research Corporation, New York, N. Y., a corporation of New York
Application January 9, 1939, Serial No. 249,910
20 Claims. (Cl. 250—11)

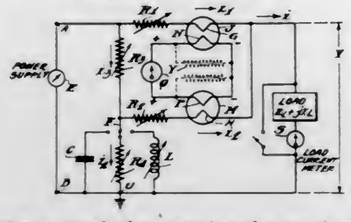


20. An electromagnetic system having, in combination, an electromagnetic horn adapted for the propagation therein of waves of a predetermined wave-length and having a small throat end and a large mouth end, and means for producing waves of the said wave-length of a predetermined order and excluding waves of a higher order comprising a cut-off throat portion provided upon the throat end and the transverse dimension of which is substantially equal to or only slightly greater than the critical transverse dimension of a hollow pipe that will pass waves of the said wave-length.

2,316,152
PROCESS OF PREPARING SULPHONIUM COMPOUNDS
Arthur E. Bearse, Grandview Heights, and Richard S. Shutt, Upper Arlington, Ohio, assignors to Battelle Memorial Institute, Columbus, Ohio, a corporation of Ohio
No Drawing. Application May 16, 1940, Serial No. 335,548
4 Claims. (Cl. 260—607)

1. The process of preparing a sulphonium compound which includes heating a sulphonium alkyl sulphate in an aqueous medium containing an appreciable amount of acid and devoid of precipitants of the sulphonium alkyl sulphate, said heating being continued for a time sufficient to hydrolyze said sulphonium alkyl sulphate.

2,316,153
DIRECT READING METER
George H. Brown, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Original application June 29, 1940, Serial No. 343,082. Divided and this application March 28, 1942, Serial No. 436,591
7 Claims. (Cl. 171—95)



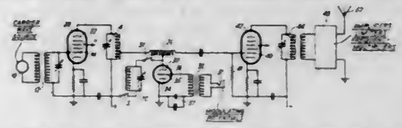
1. The method of measuring the reactance of a load which comprises the steps of passing an alternating current of predetermined magnitude and frequency through two separate paths to said load, controlling the division of said current between said paths in accordance with the reactance of a reactive element of known magnitude, and indicating the value of the reactance of said load as a function of the difference of the squares of the currents flowing in said paths.

2,316,154
NITRITE COMPOSITION
Francis S. Chambers, Jr., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 16, 1941, Serial No. 415,211
5 Claims. (Cl. 23—104)

1. A nitrite composition comprising a nitrite of one of the group of elements consisting of sodium and potassium, together with an amount between 1 and 7% of a nitrite of a metal of group II of the periodic system, the latter being present as a dry dusty coating on the dry particles of the former.

2,316,155
PHASE MODULATION
Murray G. Crosby, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application July 26, 1940, Serial No. 347,587
4 Claims. (Cl. 179—171.5)

1. Means for shifting the phase of alternating current including an inductance, a variable resistance having one terminal connected to a point on said inductance and a second terminal connected to a point of low alternating current voltage, said variable resistance having inherent reactance, connections for impressing voltages the phase of which is to be shifted on said inductance and resistance, connections for deriv-



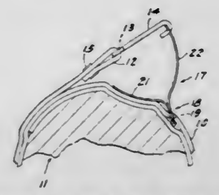
ing voltages, the phase of which may be varied by varying the value of said resistance, from said inductance and resistance, and connections including the inherent reactance of said resistance in a circuit parallel tuned to the frequency of said voltages.

2,316,156
CONTACT BREAKER DEVICE
James A. Doran, Providence, R. I.
Application September 25, 1939, Serial No. 296,368
5 Claims. (Cl. 200—19)



1. In a breaker contact arm, an elongated body of insulating material, a bumper projection formed integral therewith and at a right angle to the longitudinal axis thereof, a pivot hole formed in said body, a metallic strip of spring material secured to said body and having one end projecting beyond said bumper projection, the other end of said strip projecting beyond the other end of said body and forming a spring lever, and a contact member carried by said strip adjacent to said first end, said bumper projection lying between said pivot hole and said contact member.

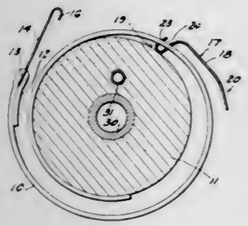
2,316,157
TOURNIQUET
Albert Eschner, Santa Monica, Calif.
Application March 3, 1942, Serial No. 433,194
7 Claims. (Cl. 128—327)



1. In a device of the kind described, a flexible connection for encircling the injured limb, an angular strip of rigid material bent in a flatwise manner at a point considerably spaced away from both of its ends, said strip being adjacent to its bend swingably connected with said flexible connection, one end portion of said angular strip constituting a foot portion to apply pressure over the injured vein or artery and the opposite or outer end thereof being shaped to receive a fastening element, and a fastening link one end of which is secured to the aforesaid flexible connection and the opposite end of which is engageable with the aforesaid outer end portion of said an-

gular member to maintain said member in an inswung position wherein its foot portion exerts compression upon the artery or vein.

2,316,158
ADJUSTABLE TOURNIQUET
Albert Eschner, Santa Monica, Calif.
Application May 20, 1942, Serial No. 443,755
6 Claims. (Cl. 128—327)



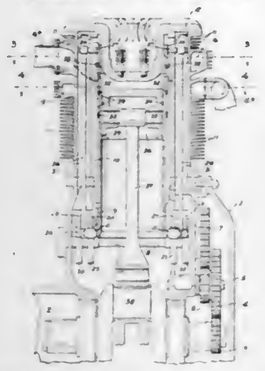
1. A tourniquet consisting of a flexible strap for passing around a bleeding limb, an elongated compressor member having at each end a laterally deflected portion, said deflected portions being located at the same side of said compressor member and a body portion uniting said end portions, there being a pair of adjacent parallel slots leading through one of said end portions of said clip, said strap extending through said slots and thereby swingably connecting said member to it, the opposite end portion of said member having an anchor portion to receive a hook when said member is swung about its connection with said strap as an axis through an angle of 180 degrees from an inoperative to an operative position, and a hook attached to one of the end portions of said strap to cooperate with said anchor portion when said member is in its operative position.

2,316,159
FRUIT AND BERRY WASHING AND GRADING EQUIPMENT
Roy James Evett, Seattle, Wash.
Application April 30, 1941, Serial No. 391,080
1 Claim. (Cl. 146—193)



In a berry washing machine of the character described, a continuous conveyor for the washing and grading of berries as conveyed thereon from a receiving to a discharge point, and comprising a succession of belt sections, each section being made up of a plurality of spaced individual belt strands of wire extending lengthwise of the belt and on which berries may be conveyed, belt mounting rollers at the ends of each section, formed with encircling grooves for reception and guidance of the belt strands therein, adjacent ends of the belt sections being carried by the same rollers and the section of the belt at the delivery end being carried at its discharge end about a roller wherein the guide grooves are spaced in a manner to cause divergence of the belt strands for the grading of berries as carried therealong by permitting them to fall between the strands.

2,316,160
INTERNAL COMBUSTION ENGINE
Clifford S. Goby, Cleveland, Ohio, assignor of one-half to Frank Kramer, Cleveland Heights, Ohio
Application November 13, 1939, Serial No. 303,942
8 Claims. (Cl. 123—75)



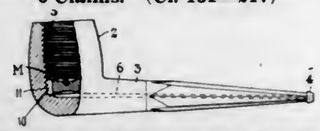
1. An internal combustion engine comprising a cylinder casing having a circumferential series of inlet ports extending therearound and a circumferential series of exhaust ports extending therearound and longitudinally spaced from the inlet ports, a cylinder sleeve reciprocably mounted within the said casing and having longitudinally spaced circumferential series of ports extending therearound and adapted to register with the two series of ports in the casing, a selector ring reciprocably mounted in the casing and surrounding the cylinder sleeve and provided with a circumferential series of ports extending therearound and adapted to register alternately with the two series of ports in the casing, an inlet manifold surrounding all of the inlet ports in said casing and adapted to supply gaseous fuel to all of said inlet ports, an exhaust manifold surrounding all of the exhaust ports in said casing and adapted to receive exhaust gases from all of said exhaust ports, a piston reciprocable in said cylinder sleeve, a crankshaft, and driving connections between said crankshaft and said piston, sleeve and ring for reciprocating the sleeve and the ring once for every four reciprocations of the piston and for bringing one series of ports in the sleeve into and out of register with the exhaust ports of the casing and for bringing the other series of ports in the sleeve alternately into and out of register with the inlet and exhaust ports of the casing and for bringing the series of ports in the ring alternately into and out of register with the exhaust ports of the casing and with the first series of ports in the sleeve and into and out of register with the inlet ports in the casing and with the second series of ports in the sleeve.

2,316,161
GRINDING TOOL
Kelsey I. Harvey, Beaver, Pa.
Application May 23, 1939, Serial No. 275,174
14 Claims. (Cl. 51—307)



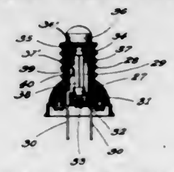
1. An abrasive article consisting of abrasive particles bonded with a ceramic derived of a boron salt, a lead salt and a lithium salt.

2,316,162
TOBACCO SMOKING DEVICE
Emerson B. Helm, Cleveland, Ohio
Application January 21, 1941, Serial No. 375,244
6 Claims. (Cl. 131—217)



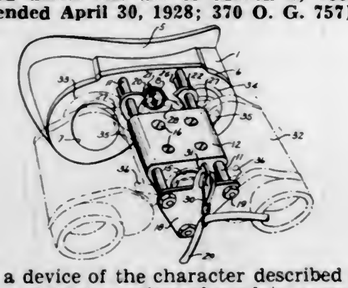
6. Tobacco smoking means comprising a chamber for holding bulk smoking tobacco, and means for conducting smoke in a devious cooling path outside the tobacco, including vortical smoke-conducting means around the tobacco, and means providing an outlet passage only at the periphery of the tobacco.

2,316,163
ATTACHMENT PLUG
Frank A. Hignutt, Port Norris, N. J.
Application June 20, 1940, Serial No. 341,574
1 Claim. (Cl. 200—115.5)



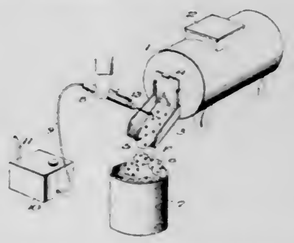
A device of the class described comprising a body having a handle portion provided with a longitudinal bore, a socket fitted in the lower end of the bore, a contact spring in the socket, a threaded contact sleeve in the upper portion of the bore, a cap engaging the threads on the sleeve and having its inner portion provided with a central recess, a substantially L-shaped contact member fitting within the recess and provided with a substantially U-shaped extension fitting over the inner end of the cap at said recess and disposed in contact with the sleeve, and a fuse having one end thereof in engagement with the L-shaped member and its other end engaging the contact spring.

2,316,164
FACE SUPPORT FOR BINOCULARS
Aaron H. Hoffeditz, Greencastle, Pa.
Application July 1, 1941, Serial No. 400,644
13 Claims. (Cl. 88—34)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



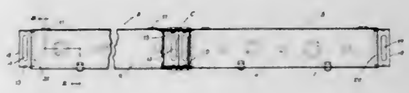
1. In a device of the character described comprising a rigid face piece shaped to accurately conform to the lineaments of a particular individual's face around the forehead, eyes, and nose and having openings therein for receiving the eyepieces of a pair of conventional binoculars, a plurality of parallel supporting rods secured to said face piece, a supporting member securely fastened to the body portion of the binoculars and slidably mounted on said rods, and means for holding the eyepiece assembly of the binoculars in fixed relationship to said face piece.

2,316,165
PROCESS OF MAKING COMPOSITE FROZEN EDIBLE PRODUCTS
Harry R. Howser, Washington, D. C.
Application December 4, 1940, Serial No. 368,532
7 Claims. (Cl. 107—54)



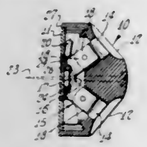
4. The method of manufacturing a variegated bulk product which comprises spreading an unconfined mass of partially frozen basic substance and embedding successive portions of flavoring syrup material of contrasting characteristics and of substantial volume as compared to particle size in the surface area thereof, said portions being spaced at random in a multiplicity of directions over the surface area of the unconfined basic substance, and then breaking up the composite mass to further disperse the portions of flavoring syrup material in a helter skelter arrangement through the basic substance.

2,316,166
WIRING DUCT
John E. Huguelet, Mount Lebanon, Pa., assignor to National Electric Products Corporation, a corporation of Delaware
Application September 4, 1940, Serial No. 355,328
5 Claims. (Cl. 138—75)



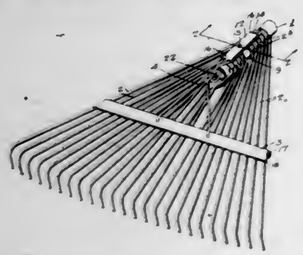
3. An electrical wiring duct assembly including two polygonal duct sections arranged end-to-end, at least one of said sections having an open side and bridging structure over the said open side at the end of the section adjacent the end of the other section, an interconnecting clamp embracingly engaging both said duct sections at their adjacent ends partially to overlie the sides of both sections and the bridging structure at the end of either section, deformations in the said clamp and in at least one of the surfaces of the walls of each duct structure and in the bridging structure, said deformations providing interlocking engagement between both duct sections and the said coupling clamp, and a cover on the open-sided duct section arranged to overlie the open side of the duct section and partially to overlie the bridge thereof.

2,316,167
ELECTRICAL OUTLET
William Huppert, New York, N. Y.
Application November 29, 1941, Serial No. 420,929
4 Claims. (Cl. 173—338)



1. In an electrical outlet, a housing having an exterior wall open at one end, contacts having terminal portions seated in the housing, a post adjacent each terminal portion spaced inwardly from the inner surface of the housing wall to form a guideway for confining a conductor wire therebetween positioned on the terminal portion of a contact, the ends of said posts being substantially flush with the end of the housing wall, and a detachable cover-plate closing the open end of the housing and having openings in which the ends of the posts are received to permit of pressing the cover-plate tightly against the wires.

2,316,168
RAKE
Howard C. James, Philadelphia, Pa., assignor to Henry Disston & Sons, Incorporated, Tacony, Pa., a corporation of Pennsylvania
Application July 30, 1940, Serial No. 348,588
6 Claims. (Cl. 56—400.17)

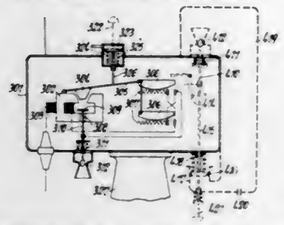


1. A rake comprising a plurality of time units each comprising a pair of tines diverging from a connecting portion, each said unit consisting of an integral substantially flat wire-like strip of highly resilient metal of greater width than thickness and having said connecting portion and the component tines in a common plane corresponding to the flat plane of the strip, the major portions of the tines of each pair being arranged substantially in coplanar relation and said units being in nested arrangement with the respective tines and connecting portions substantially in a plane common to all of said units, a handle element, and clamping means engaging the opposite flat faces of said connecting portions and securing the said units to the handle element.

2,316,169
POLYVINYL HALIDE COMPOSITION
Archie B. Japs, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application March 1, 1941, Serial No. 381,385
4 Claims. (Cl. 260—23)

1. A heat and light-stable composition comprising a polymer in which the predominant constituent is vinyl chloride and a partial ester of a polyhydric alcohol which, except for the oxygen of the hydroxyl groups, consists solely of carbon and hydrogen with an unsaturated fatty acid containing more than ten carbon atoms, the hydroxyl groups of the alcohol which are not esterified with the fatty acid remaining unreacted.

2,316,170
APPARATUS FOR INTERRUPTING OR CONTROLLING ELECTRIC CURRENTS
Fritz Kesselring, Friedrich Gieffers, Werner Kaufmann, Hermann Neugebauer, Wilhelm Puttfarcken, Robert Schimpf, and Marcel Zühlke, Berlin, Germany; vested in the Alien Property Custodian
Application December 30, 1938, Serial No. 248,648
In Germany December 31, 1937
37 Claims. (Cl. 175—294)

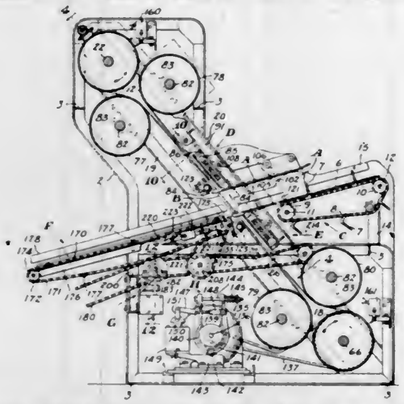


1. An apparatus for controlling electric currents, in particular in high power circuits, comprising the combination of resistance means capable of varying the effective resistance value within extreme limits and connected with the circuit to be controlled, said resistance means comprising a line of contact points; a movable control member of rocker shape arranged to roll off along said line of contact points in order to vary the effective resistance value, and means for actuating said control member with a speed not less than in the same order of magnitude as that of the current changes occurring in said circuit, whereby said resistance means are caused, when in operation, to start increasing their resistance value at a low current intensity and to assume a resistance value sufficient for the control purpose within a period not longer than that within which the current would otherwise reach its next maximum intensity.

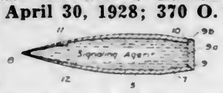
5. An apparatus as set forth in claim 1, having an electromagnet for pressing said control member against said contact points, and means for energizing said magnet in dependence upon the current to be controlled.

2,316,171
SLICING MACHINE
Arthur A. Kottmann, Davenport, Iowa, and Earl C. Vollmer, Rock Island, Ill., assignors, by mesne assignments, to The Bettendorf Company, a corporation of Maryland
Application March 6, 1939, Serial No. 260,046
21 Claims. (Cl. 146—88)

1. The combination in a bread slicing machine of cutter blades, electrical drive means for actuating the blades, conveyors for advancing unsliced bread loaves into the blades and for forwarding sliced bread loaves away from the blades, a drive for the conveyors including a clutch structure, electrical means for actuating said clutch to establish the conveyor drive, an electrical circuit including a switch for energizing the blade drive means, an electrical circuit for energizing the clutch actuating means, and an electrical switch common to both of said circuits to energize the same, said switch being located on the machine and subject to manual control.

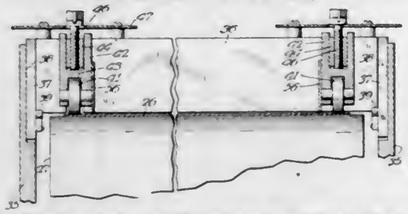


2,316,172
BULLET
Frank Kowalski, Jr., Fort Benning, Ga.
Application February 21, 1939, Serial No. 257,649
2 Claims. (Cl. 102—60)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



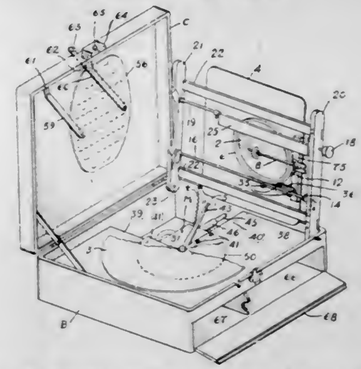
1. A bullet comprising a hollow shell having an ogival head weakened so as to be crushable on impact, a thin-walled hollow conical plunger nested loosely in the ogival head and movable rearwardly within the shell when the head is crushed on impact, and a burst indicating agent completely filling the shell adapted to be compressed by the plunger to rupture the shell and be released.

2,316,173
SHEET MAKING APPARATUS
Edouard M. Kratz, Gary, Ind., assignor to Kraft Cheese Company, a corporation of Delaware
Application May 19, 1939, Serial No. 274,481
7 Claims. (Cl. 18—15)



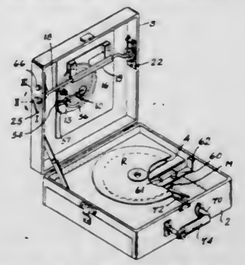
1. In apparatus of the class described, the combination of a rotatable drum, a belt adapted to travel around said drum, means for delivering sheet-forming liquid to said belt, a doctor blade extending transversely of said belt for limiting the depth of sheet-forming liquid carried rearwardly by said belt, side guides extending forwardly from said doctor blade for controlling the spread of said liquid, a member extending transversely between said side guides in proximity to said belt for retaining the liquid in a pool in front of said doctor blade, and means for detachably mounting said transversely extending member on said side guides and said side guides on said doctor blade.

2,316,174
SOUND REPRODUCING DEVICE
John G. Kurzen, Jr., Brooklyn, N. Y., assignor to Watch Tower Bible and Tract Society, Inc., Brooklyn, N. Y., a corporation of New York
Application June 25, 1940, Serial No. 342,335
20 Claims. (Cl. 274—1)



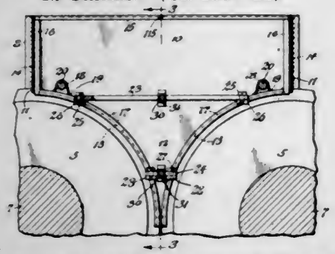
1. In a mechanical sound reproducing device, a container, a sound head therewithin, a support board on which said head is carried to travel over a sound record, an eccentric element at the back of said support board for raising the same and said head, a restraining catch for said eccentric raising and lowering element, and an operating handle externally of the container for controlling the raising and lowering.

2,316,175
SOUND REPRODUCING MEANS
John G. Kurzen, Jr., Brooklyn, N. Y., assignor to Watch Tower Bible and Tract Society, Inc., Brooklyn, N. Y., a corporation of New York
Application December 7, 1940, Serial No. 368,994
26 Claims. (Cl. 274—2)



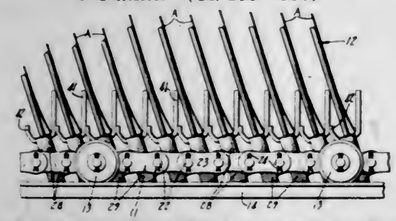
1. A mechanical sound reproducing device, comprising support means, a diaphragm movable over a sound record, a rod carried by said support means for guiding such movement, a ball-bearing slide on said rod and carrying such diaphragm, said rod being eccentrically mounted with respect to the support means to raise and lower the diaphragm from and to a sound record, a handle controlling the position of said rod to locked position, released position for return to "start" and down position for engaging the needle with a sound record, and combined snap-hold and audible position-indicating means for said control handle.

2,316,176
ATMOSPHERIC DRUM DRIER
Charles O. Lavett, Buffalo, N. Y., assignor to Buffalo Foundry & Machine Co., Buffalo, N. Y., a corporation of New York
Application August 1, 1940, Serial No. 349,191
12 Claims. (Cl. 159—11)



5. An atmospheric drier, comprising a frame, two rotary drums arranged side by side on said frame and adapted to receive the material to be dried between them, and means for closing each end of the space between the opposing sides of said drums, including an end board comprising a sheet of flexible material and reenforcing bars secured to the inner face of said sheet along the edges thereof, means for guidingly supporting said end board on said frame and a pressure device carried by said frame and urging the reenforced edges of said end board into sealing engagement with the ends of said drums.

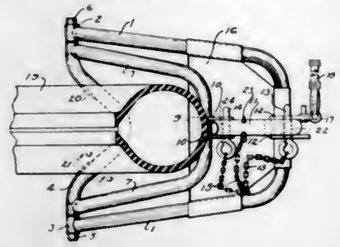
2,316,177
CONVEYER
Julius Meizer, Bellaire, N. Y., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application March 11, 1941, Serial No. 382,821
5 Claims. (Cl. 198—134)



1. A conveyer comprising spaced chains having side links, supplemental links adjacent corresponding side links and pins connecting said links, rigidly cross braced prongs on said supplemental links and extending from one chain to the other for supporting sheet material resting on edge on said supplemental links, outwardly and laterally extending wing sections on said prongs adapted to engage and support marginal edges of said sheets, and means on said supplemental links for restraining the sheets from shifting away from said prongs, said restraining means, prongs and wing sections thus supporting said sheets to prevent buckling, flexing and rubbing of said sheets on said prongs and links during movement of the conveyer.

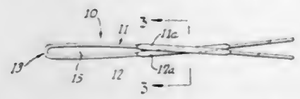
2,316,178
AIRPLANE WHEEL CHOCK
Otto Morgensen, Jr., Dayton, Ohio
Application March 3, 1941, Serial No. 381,473
12 Claims. (Cl. 188—32)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A wheel chock comprising a support-engaging member, a frame member connected at one end to said support-engaging member and arranged at an acute angle with respect thereto, a V-shaped member connected to one of said members and lying substantially in the plane of said support-engaging member, and a strut con-



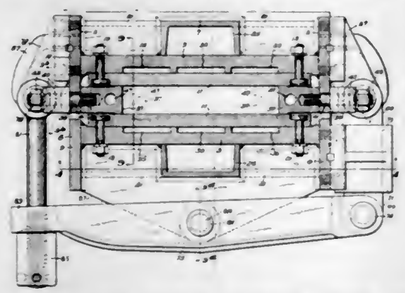
necting said support-engaging member to the other end of said frame member, said members being so constructed and arranged that a tire restrained by said chock will have an area overlying an upper portion of said V-shaped member and a portion alongside of said V-shaped member for the purpose specified.

2,316,179
CROSS HAIRPIN
Mabel Riggs Moseley, New Iberia, La.
Application December 12, 1941, Serial No. 422,695
1 Claim. (Cl. 132—50)



A hairpin made of a single piece of resilient material and comprising a pair of prongs interconnected at one end, intermediate portions of said prongs being flattened in parallel planes, and said flattened portions being in face to face contact and crossing one another, the ends of said prongs projecting in diverging planes outwardly of said flattened portions.

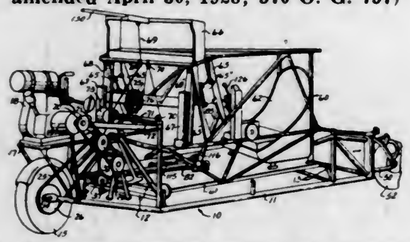
2,316,180
MOLD
Paul M. Mueller, Rome, N. Y., assignor to Revere Copper and Brass Incorporated, Rome, N. Y., a corporation of Maryland
Application June 5, 1941, Serial No. 396,696
25 Claims. (Cl. 22—144)



1. A mold for casting elongated metal slabs having means forming a vertical mold chamber comprising separable complementary mold parts,

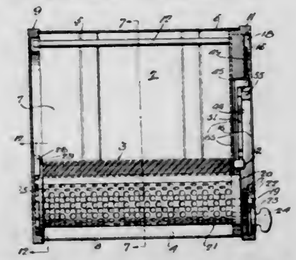
one of which parts comprises an elongated web provided with opposite edge flanges which flanges extend throughout the length of the mold chamber in facing relation to the sides of said chamber so that the latter lies between said flanges, an elongated plate-like member between said edge flanges defining a face of the mold chamber, which plate-like member is detachably secured at its edges to said web, elongated bar-like members defining the sides of the mold chamber, which members are positioned against the vertical edge portions of said plate-like member, means for detachably securing said members along their lengths operatively against the adjacent sides of said edge flanges, the other mold part defining the opposite face of the mold chamber and being adapted to be positioned against those sides of said bar-like members which are opposite the sides thereof positioned against said plate-like member, and means for clamping said plate-like member and bar-like members between said web and last mentioned mold part.

2,316,181
PREFLIGHT REFLEX AND GUNNERY TRAINER
William C. Ocker, Baltimore, Md., and Carl J. Crane, Barksdale Field, La.
Application September 10, 1941, Serial No. 410,318
19 Claims. (Cl. 35—12)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



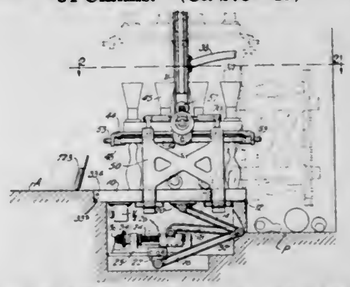
1. A power propelled vehicle for instructing students in the art of controlling an airplane including a main frame, supporting wheels for the frame, a power drive associated with at least one of the wheels for propelling the vehicle, at least one of said wheels being steerable for directionally controlling the vehicle and mounted at the rear of said frame, a platform having a seat thereon for the student occupant of the trainer and forming a cockpit inclosure, said platform being pivotally mounted on said main frame for lateral tilting with respect to the longitudinal axis of the main frame, reversible power actuated servo mechanism mounted on said vehicle and operatively connected to said platform to cause a tilting of the same in either direction about its pivotal axis, control means for said servo mechanism operative upon a displacement thereof from the neutral position in either direction to cause operation of said servo mechanism in a corresponding direction, a set of airplane-type control elements mounted on said platform and including controls simulating the rudder and lateral control means of an airplane, a connection between said simulated rudder control means and the directional control means of the trainer whereby the student may directionally control the trainer to traverse a desired course, and an operative connection between the simulated lateral control means and the control means for said servo mechanism whereby the student may cause a lateral tilting of said platform to simulate the lateral control of an airplane.

2,316,182
DISPENSING MACHINE
Philip D. Parsons, Swarthmore, Pa., assignor to Scott Paper Company, Chester, Pa., a corporation of Pennsylvania
Application February 25, 1939, Serial No. 258,475
5 Claims. (Cl. 312—51)



2. In an article-dispensing machine, a casing having a delivery port, a support in said casing for said articles, a member mounted in the casing for successive movements in opposite directions, means for limiting the movement of the member in both directions, article-engaging means on the member arranged to withdraw an article from the support to a position opposite the delivery port when the said member is moved continuously between said limits in one direction, and to discharge the said article through the delivery port when the member is subsequently moved in the reverse direction, and means precluding initiation of said reverse movement until the member has reached the limit of its movement in the first direction, said means comprising a ratchet connected to and movable with said member, a pawl coacting with said ratchet, means for normally retaining said pawl in a normal neutral position in which it is inoperative to prevent movement of said ratchet in either direction, means automatically operative at the beginning of the first of said movements to adjust said pawl into a position operative to prevent the reverse movement of the ratchet, and means automatically operative at the beginning of said reverse movement to adjust said pawl into a secondary position in which it is inoperative to prevent said reverse movement.

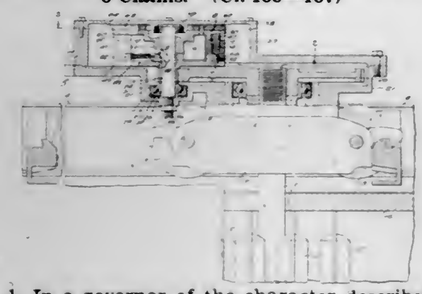
2,316,183
PIN SETTER FOR BOWLING ALLEYS
Morehead Patterson, New York, N. Y., assignor to American Machine and Foundry Company, a corporation of New Jersey
Application August 23, 1941, Serial No. 408,013
34 Claims. (Cl. 273—43)



23. In a bowling pin setting machine for an alley having a pin supporting portion and a pit adjacent said portion, a device movable to and from said portion for setting pins therein, and means associated with said device for engaging

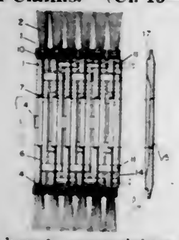
the tops of any pins remaining standing after the throwing of a ball for holding said pins immovable on said allay portion while said device moves away from said portion.

2,316,184
GOVERNOR FOR REVOLVING DOORS
Edmund Peremi, Manhasset, and Adam Webel, Jamaica, N. Y., assignors to General Bronze Corporation, Long Island City, N. Y., a corporation of New York
Application February 17, 1942, Serial No. 431,238
8 Claims. (Cl. 188—187)



1. In a governor of the character described a housing, a vertical shaft mounted for rotation in the housing, a base plate mounted on said shaft, threaded members carried by said base plate, centrifugal arms having threaded portions engaging with said threaded members, whereby outward lateral movement of said arms due to centrifugal force will cause movement of said arms in a vertical direction, a rotatable friction member carried by said arms and movable in a vertical direction with the arms, and a fixed braking member carried by said housing adapted to cooperate with said movable friction member.

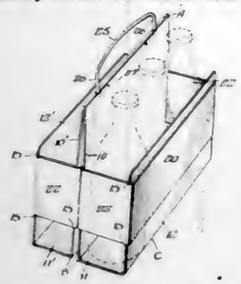
2,316,185
ROTARY BRUSH
Ruben O. Peterson, South Euclid, Ohio, assignor to The Osborn Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application May 14, 1940, Serial No. 335,068
14 Claims. (Cl. 15—181)



1. A rotary brush comprising a plurality of annular brush sections mounted on disc-shaped adapters, said adapters having peripheral section-supporting arms on one side serving to embrace adjacent sections, and said arms extending radially beyond the body of the adapter whereby ventilating openings are provided.

2,316,186
BOTTLE HOLDER
Henry K. Powell, Chicago, Ill., assignor to Morris Paper Mills, Chicago, Ill., a corporation of Illinois
Application August 4, 1938, Serial No. 222,963
10 Claims. (Cl. 229—28)

1. A container for carrying bottles or the like comprising a body member and a retainer member both formed of sheet material and adapted to be collapsed to flattened form, said body member comprising a pair of inner panels which are connected at their upper ends, bottom panels extending outwardly from the lower ends of the inner panels respectively, and outer panels extending upwardly from the outer margins of the

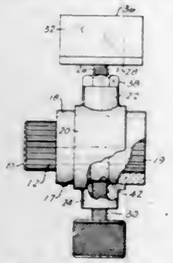


bottom panels; and the retainer member comprising portions arranged to encompass the body member and form end walls extending across the space between the outer panels and inner panels at the ends of the bottom panels and having portions disposed between the inner panels; the body member being provided with a handle at the upper ends of the inner panels.

2,316,187
POLYMERIZATION OF OITICICA OIL
Malcolm F. Pratt and Henry G. Berger, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application September 6, 1940, Serial No. 355,603
4 Claims. (Cl. 260—407)

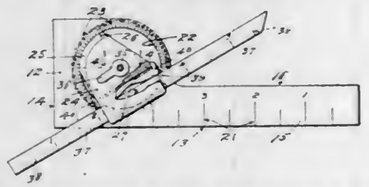
1. The process of polymerizing oiticica oil to produce a non-frosting, quick drying product, which comprises cooking the oil at a temperature above about 300° F. in the presence of a small amount of boron trifluoride as a polymerization catalyst.

2,316,188
IGNITION TIMING DEVICE
John J. Rose, Dayton, Ohio
Application March 3, 1942, Serial No. 433,243
6 Claims. (Cl. 33—181)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. For use on an internal-combustion engine having magneto ignition, a tool for bringing the sparking point on the magneto for any cylinder of the engine into timed relation with the firing point on the engine for that cylinder, said engine having an internally splined magneto driving shaft and said magneto having an externally splined hub slidable into said internally splined driving shaft and rotatable on its rotor shaft but having means to secure it against rotation thereon, and said engine and said magneto having axially parallel mounting stud holes at equal radii from the axes of the engine and magneto, said tool comprising, in combination, a cylindrical member having internal splines which are duplicative of the internal splines of the engine's magneto driving shaft, a plug having external splines which are duplicative of the external splines of the rotor shaft hub, a portion of the length of said plug extending into said cylindrical member, a collar freely rotatable on the outside of the cylindrical member, said collar having two integral radially extending hubs with tapped openings therethrough, a setscrew in one of said tapped openings, the inner end of said setscrew being seatable in a groove which extends around said cylindrical member, whereby said collar may be held against rotative and axial movement on said cylindrical member, and an aligning member supported by an integral threaded stem extending into the other tapped opening in the hub, said aligning member being in the form of a wedge bounded by two planes which converge on a line which is parallel to the magneto shaft axis and coaxial with the mounting stud holes.

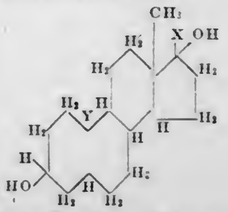
2,316,189
PROTRACTOR
Timothy A. Schaefer, West Allis, Wis., assignor to Industrial Engineering Co. Inc., Minneapolis, Minn., a corporation of Minnesota
Application February 16, 1942, Serial No. 431,018
3 Claims. (Cl. 33—94)



1. In a protractor, a thin base having a straight edge, an upstanding internally screw-threaded tubular pivot rigidly secured to the base, a flat body member turnably mounted on the pivot, a screw stud in the pivot, a face plate rigidly secured to the screw stud and overlying the body member, said face plate being operable to turn the screw stud in the pivot and said screw in turn move the face plate relative to the base and frictionally clamp the body member therebetween, and a thin narrow arm mounted on the body member for endwise adjustment, said base having a scale of degrees thereon and said body member having a position mark cooperating with said scale.

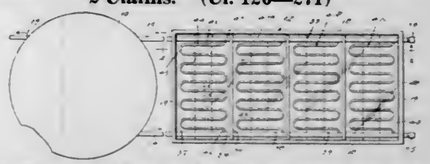
2,316,190
ACYL DERIVATIVES OF GERMINAL GLAND, HORMONE PREPARATIONS OF HIGH ACTIVITY AND A METHOD OF PRODUCING THE SAME
Walter Schoeller, Berlin-Westend, and Friedrich Hildebrandt, Hohen Neuendorf, near Berlin, Germany, and Erwin Schwenk, Bloomfield, N. J., assignors to Schering Corporation, Bloomfield, N. J., a corporation of New Jersey
No Drawing. Application February 21, 1935, Serial No. 7,604. In Germany February 22, 1934
18 Claims. (Cl. 260—397.5)

1. A method of producing derivatives of germinal gland hormone preparations having improved physiological activity, comprising subjecting cyclopentano tetradecahydro phenanthrene derivatives of the structural formula



wherein X is a member of the group consisting of alkyl and aryl groups and Y is a member of the group consisting of hydrogen and the methyl group, to the action of acylating agents.

2,316,191
SOLAR HEATER
Clifton A. Scott, North Miami Beach, Fla., assignor to Sun-Ray Heater Company, North Miami Beach, Fla., a partnership
Application June 29, 1940, Serial No. 343,281
2 Claims. (Cl. 126—271)

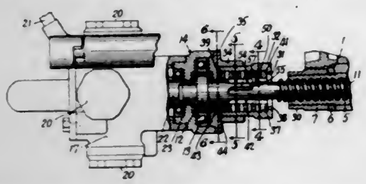


2. In a solar heater having an open top casing formed of bottom, side, and end walls, and a closure for the casing provided with a transparent panel, the combination of a bottom member of insulating material seated on the casing bottom and bearing against the inner faces of the casing walls, upstanding members of insulating material seated on said bottom member and bearing against the inner faces of the casing walls, means for securing said upstanding members to said casing side and end walls and on said bottom walls, an imperforate heat conducting plate disposed within the casing below the top of the latter and above said bottom member and bearing against said upstanding members, said plate having a substantially smooth upper face and having depending vertically disposed spaced parallel ribs seating on said bottom member, said plates, ribs, and bottom member defining closed spaces disposed in parallel relation below said plate, partitions coacting with said upstanding members and plate to form parallel heating chambers, water heating tubes each positioned within a heating chamber and having its bottom secured to the upper face of said plate, a cold water manifold extending through said casing end walls and said chambers in proximity to a side wall of the casing, and a hot water manifold extending through said casing end walls and said chambers in proximity to the other side wall of the casing, said manifolds being secured upon said plate and connected to each of said tubes.

2,316,192
FEEDING MECHANISM
Frank E. Sinclair, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application July 16, 1940, Serial No. 345,795
14 Claims. (Cl. 255—45)

1. In combination, a work-performing tool,

guiding and supporting means therefor along which said tool is adapted to be fed during feeding towards and retraction from the work, relatively rotatable elements mounted on said tool and on said guiding and supporting means respectively, said elements in engagement with each other and operative on relative rotation to effect movement of said tool along said guiding and supporting means, a motor for rotating one

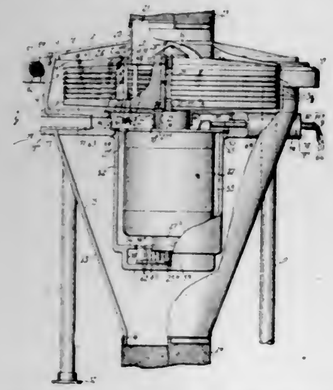


of said elements, and means for automatically imposing on said motor an additional load sufficient to stop tool movement as said tool approaches an end of its travel on said guiding and supporting means, said load-imposing means including a stop element rotatable about an axis and with which an element of said work-performing tool is engageable and resilient means for resisting rotary movement of said stop element.

2,316,193

APPARATUS FOR STERILIZING FLOUR AND LIKE PRODUCTS

Franklin S. Smith, New Haven, Conn.
Application September 26, 1939, Serial No. 296,544
8 Claims. (Cl. 99—249)



4. In apparatus for effecting the destruction of all insect life in a flowable product composed of individual solid parts, the combination of, confining means constituting a product-confining space through which a stream of the product is continuously passed in a free-flowing stream and a portion of which space defines the treatment zone, material-distributing means in the form of a rotary cage-like member having a plurality of rigid parallel axially extending bars having spaces therebetween through which the product is directed to said treatment zone, and mechanical mutilating means having treating surfaces for engagement with the particles of insect life and effective within said treatment zone to inflict lethal trauma on all insect life in the product.

2,316,194

DETERGENT COMPOSITION

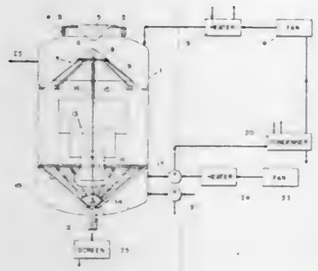
Gilbert C. Toone and Lawrence H. Flett, Hamburg, N. Y., assignors to Allied Chemical & Dye Corporation, a corporation of New York
No Drawing. Application October 20, 1938, Serial No. 236,090
11 Claims. (Cl. 252—161)

2. A detergent composition adapted for use as a shampoo comprising an alkali metal salt of a long-chain alkyl ester of sulfoacetic acid containing 12 to 18 carbon atoms in the alkyl radical thereof, and for each part by weight of said alkali metal salt of a long-chain alkyl ester three-fourths to ten parts by weight of a stabilizing agent composed of at least one compound which is an alkali metal salt of a monoalkyl ester of sulfoacetic acid containing 5 to 11 carbon atoms but not more than 9 carbon atoms in a straight chain in the alkyl radical thereof.

2,316,195

APPARATUS FOR THE MANUFACTURE OF SMOKELESS POWDER

Bernhart Troxler, Kenvil, N. J., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
Original application February 14, 1939, Serial No. 256,314. Divided and this application March 23, 1940, Serial No. 325,515
7 Claims. (Cl. 209—3)



1. A smokeless powder processing apparatus comprising a tank having a loading opening therein for entrance of smokeless powder grains into said tank, entrance and exit means in said tank for circulation of fluids therethrough, means for positioning the powder grains in a mass of substantially uniform thickness within said tank whereby the fluid resistance of the mass is maintained substantially constant, discharge means for removing the grains from said tank, and a classification screen adapted to separate grains into the desired grain size.

2,316,196

POLYVINYL HALIDE COMPOSITION

Harold Tucker, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application January 16, 1941, Serial No. 374,697
5 Claims. (Cl. 260—32)

1. A composition comprising a polymer in which the predominant constituent is vinyl chloride, a chlorinated aromatic hydrocarbon solvent, and maleic anhydride.

2,316,197

POLYVINYL HALIDE COMPOSITION

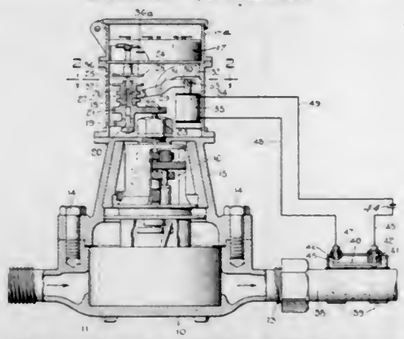
Harold Tucker, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application January 16, 1941, Serial No. 374,699
7 Claims. (Cl. 260—32)

1. A composition comprising a polymer of which the predominant constituent is vinyl chloride, a chlorinated aromatic hydrocarbon solvent, and a member of the class consisting of quinoline and isoquinoline in which at least one hydrogenation has been replaced by an hydroxyl group.

2,316,198

TEMPERATURE WATER METER

Alan J. Van den Berg, New York, N. Y.
Application February 9, 1940, Serial No. 318,031
4 Claims. (Cl. 73—198)



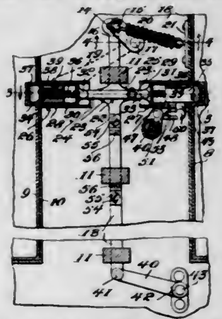
1. The combination of liquid flow registering mechanism, piping for conveying the liquid to such registering mechanism from a suitable supply and piping for delivering liquid to one or more locations of withdrawal, thermostatic means responsive to the temperature of the liquid in such delivery piping, and means operative solely in one or the other of two positions controlled by said thermostatic means, said one position effecting the actuation of said registering mechanism when the temperature of the liquid in such delivery piping is at or above a predetermined minimum, said other position effecting the non-actuation of said registering mechanism when the temperature of the liquid in such delivery piping is less than such predetermined minimum.

2,316,199

LOCKING MECHANISM FOR DOORS

John Vetter, Jr., Cheyenne, Wyo.
Application August 13, 1941. Serial No. 406,680
3 Claims. (Cl. 70—264)

1. In a device for simultaneously locking all doors of a vehicle from a central point, said vehicle having a hollow post on each side thereof against which the doors fit when in closed position, a vertically extending rod supported centrally of each post, a hollow casing mounted on each post on the interior thereof, locking members slidably disposed in said casings adapted for engagement in a locking recess formed in the edge of the vehicle doors, means for operatively connecting said locking members with said vertical rods, an actuating handle attached to the upper end of one of said rods and disposed on the interior of the vehicle, means connecting the lower ends of said rods whereby actuation of said handle will simultaneously operate said locking members, and an independent key operated

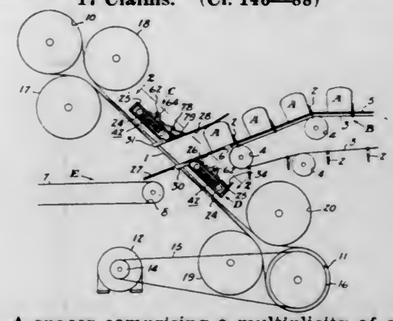


means for releasing one of said locking members from the exterior of the vehicle.

2,316,200

BLADE SPACER

Earl C. Vollmer and Frederick A. Herwehe, Rock Island, Ill., assignors, by mesne assignments, to The Bettendorf Company, a corporation of Maryland
Application March 6, 1939, Serial No. 260,044
17 Claims. (Cl. 146—88)



1. A spacer comprising a multiplicity of guide elements disposed in side by side relation, means for supporting and guiding the elements, aligned apertures through the elements, a lazy tongs extending through said apertures, elongated slots in the guide elements, pins connected to the lazy tongs and extending into said slots, and means for actuating the lazy tongs.

2,316,201

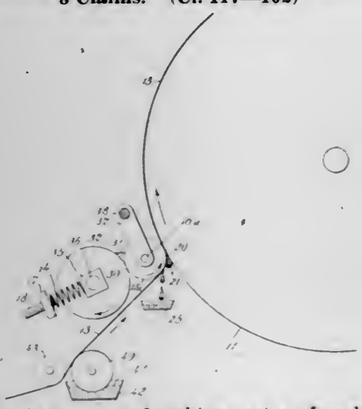
METHOD OF RECOVERING ELEMENTAL SULPHUR FROM GASES CONTAINING SULPHURETED HYDROGEN, CARBON OXYSULPHIDE, AND CARBON DISULPHIDE

Sven Johan Walldén and Ruth Saga Mariana Sundgren-Walldén, née Sundgren, Stockholm, Sweden, assignors to Imperial Chemical Industries Limited, Millbank, London, England, a limited joint-stock company of Great Britain
No Drawing. Application December 10, 1938, Serial No. 245,034. In Sweden December 10, 1937
6 Claims. (Cl. 23—226)

1. In a process for producing elemental sulphur in the gaseous state from a gas containing hydrogen sulphide as at least a major sulphur-containing constituent thereof, the step of passing said gas in admixture with sulphur dioxide in contact with a catalyst at a temperature below 350° C., the gaseous reaction mixture being substan-

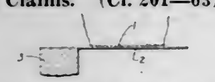
tially free of oxygen and substantially free of added carbonaceous reducing material; said catalyst comprising a water-soluble compound of an alkali metal, which compound is capable of forming an alkaline aqueous solution.

2,316,202
METHOD FOR COATING PAPER
Edgar Warner, Dayton, Ohio, assignor to The Champion Paper and Fibre Company, Hamilton, Ohio, a corporation of Ohio
Application July 31, 1940, Serial No. 348,951
8 Claims. (Cl. 117—102)



8. In the process of making cast surfaced coated paper by pressing a moving web of paper, by means of a press roll, against a moving casting surface with a layer of at least partially fluid coating material interposed therebetween, the improvement which comprises the continuous washing back of air bubbles and foreign matter from the nip where said pressing occurs, by means of a backwardly flowing pool of coating material maintained immediately in advance of said nip where it continuously washes over the moving web and casting surface, and the continuous washing of the press roll by means of a pool of water maintained in contact with said roll and out of contact with the paper web and the casting surface.

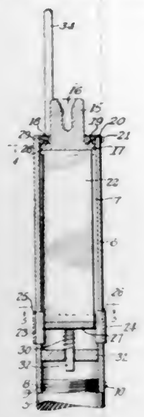
2,316,203
STRAIN RESPONSIVE APPARATUS
Edward E. Simmons, Jr., Pasadena, Calif.
Original application February 23, 1940, Serial No. 320,327, now Patent No. 2,292,549, dated August 11, 1942. Divided and this application July 1, 1942, Serial No. 449,297
3 Claims. (Cl. 201—63)



1. A bending element having a continuous solid filament of material whose electrical resistance varies in accordance with its strain bonded throughout its effective length to said element to produce a variable resistance upon bending of said element.

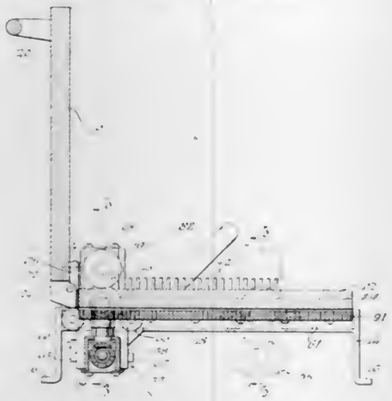
2,316,204
HOT STICK
Allison R. Williams, Yazoo City, Miss.
Application January 27, 1941, Serial No. 376,039½
7 Claims. (Cl. 81—53)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In combination, a housing, a tool for engaging a member threaded or to be threaded into another, said tool being carried by said housing rotatable about its axis, means carried by said housing for alternately and indefinitely storing clockwise and counterclockwise torque energy in predetermined amounts, manually releasable



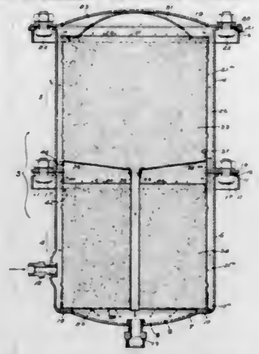
means releasable at will for releasing energy stored in said energy storing means, means for transmitting energy released from said storing means to said tool, and means for causing said transmitted energy to impart a force tending to rotate said tool about its axis.

2,316,205
SHEET TRIMMING DEVICE
Robert Alonzo Williams, Chicago, Ill., assignor to Ditto, Incorporated, Chicago, Ill., a corporation of West Virginia
Application December 29, 1941, Serial No. 424,745
12 Claims. (Cl. 164—73)



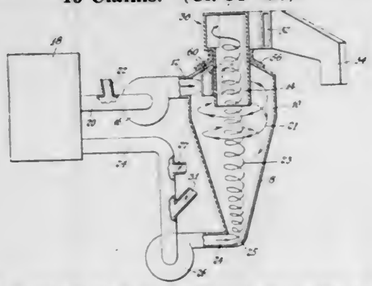
1. A sheet trimming device comprising a sheet receiving base, sheet clamping means mounted on the upper surface of said base, a carriage slidably mounted on the underside of said base, two pairs of rotatable cutting wheels mounted on said carriage in a position to trim the extended edges of a stack of sheets clamped on said base without interfering with the operation of said clamping means, and a common drive shaft disposed in said carriage for rotating both of said pairs of cutting wheels.

2,316,206
LIQUID FILTER AND FILTERING UNIT THEREFOR
Steven B. Wilson, Newton, Mass., assignor to Fram Corporation, a corporation of Rhode Island
Application January 4, 1940, Serial No. 312,410
11 Claims. (Cl. 210—134)



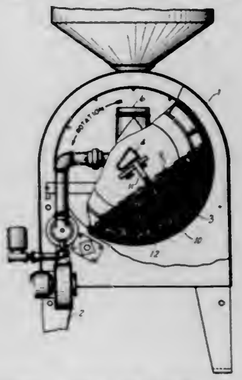
1. In a liquid filter, in combination: a casing; a cartridge within and in spaced relation to the casing laterally and at one end and also centrally spaced from, and peripherally forming a seal with, the casing at the other end, said cartridge having perforate outer ends and a peripheral series of openings spaced from the ends; a transverse partition between said openings and one end of the cartridge, said partition having a through aperture but otherwise imperforate; a duct member extending from said partition aperture to said other end of the casing; filtering means in the cartridge at the opposite sides of said partition; and passages in the casing respectively to receive and to emit the liquid, one passage at the centrally spaced end of the cartridge and the other at the opposite side of said peripheral seal between the cartridge and the casing.

2,316,207
METHOD AND APPARATUS FOR RAPIDLY DRYING CASEIN CURD AND LIKE SUBSTANCES
William B. Winter, Belmont, Mass., assignor to Atlantic Research Associates, Inc., Newtonville, Mass., a corporation of Delaware
Application April 8, 1941, Serial No. 387,453
15 Claims. (Cl. 34—10)



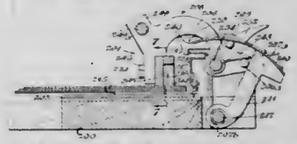
1. A method of rapidly drying particles of moist solid substances comprising delivering and whirling a stream of heated air to establish a voretx movement, feeding the particles to be dried into the stream of heated air for entrainment into the vortex to dry the particles, separating from the vortex movement by action thereof the slower drying particles, removing with air from the vortex movement the substantially dried particles, and introducing additional air into the vortex to intercept and reentrain the separated particles in the vortex movement.

2,316,208
ROASTER SYSTEM
Maurice D. Woodruff, Springfield, Ohio, assignor to The Bauer Brothers Company, Springfield, Ohio, a corporation of Ohio
Application March 21, 1939, Serial No. 263,261
10 Claims. (Cl. 263—32)



9. The herein described method including the steps of heating a mass of mobile material and simultaneously revolving the heated mass of mobile material in substantially concentric relation with a thermo-responsive device disposed substantially at the center of motion of the mass and automatically controlling the temperature of the revolving mass in accordance with the fluctuations of said thermo-responsive device.

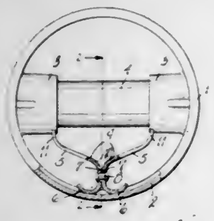
2,316,209
SUMMARY FORM MEANS
Joseph Zalkind, New York, N. Y.
Application February 9, 1939, Serial No. 255,413
3 Claims. (Cl. 129—4)



1. A record sheet holder comprising a backing support adapted to receive a multiplicity of strips of paper having columns of numerical data; means carried by said backing support for positively engaging the ends of said strips to hold them in spaced stepped relation across said backing support with columns exposed, said means comprising a row of pins carried by said backing support; means for impaling each of said strips upon appropriate pins, each impaled strip remaining in predetermined position while subsequent strips are applied; said impaling means comprising a bar having perforations registering with said pins; said bar being mounted above the pins on members retaining it in raised position, said members being arranged to yield to manual pressure upon said bar, and a shield covering said pins when said bar is raised, said shield being arranged to receive the ends of said strips; said shield being arranged to expose said pins

and leave said strip ends upon said pins when said bar is lowered for the perforations to impale said strips on said pins.

2,316,210
PISTON EXPANDER
Virgil D. Ackerman, Hastings, Mich., assignor to Hastings Manufacturing Company, Hastings, Mich., a corporation of Michigan
Original application February 12, 1942, Serial No. 430,563. Divided and this application July 20, 1942, Serial No. 451,599
6 Claims. (Cl. 309—12)



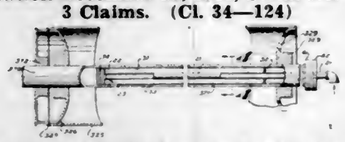
1. A piston expander comprising a pair of blade spring members having outwardly curved piston wall engaging portions at their outer ends of substantial area for engagement with a piston wall axially thereof, and coacting abutting portions adjacent and merging into said cylinder wall engaging portions, said coacting abutting portions being secured together by a single rivet at a point permitting springable substantial independent snubbing engagement of the said curved outer ends of the expander members with a piston wall, said expander members sharply diverging from said abutting portions and terminating in substantially parallel inner end portions having abutment receiving seats of substantial depth in their inner edges, their inner edges at the inner sides of the seats being inclined to facilitate the expander members being driven into a piston having pin bosses as an assembled unit, to engage said seats with said piston pin bosses of said piston.

2,316,211
ELECTRICAL FENCE CHARGING APPARATUS
Norman F. Agnew and Willard P. Place, Wilkinsburg, Pa.
Application September 6, 1939. Serial No. 293,582
3 Claims. (Cl. 256—10)



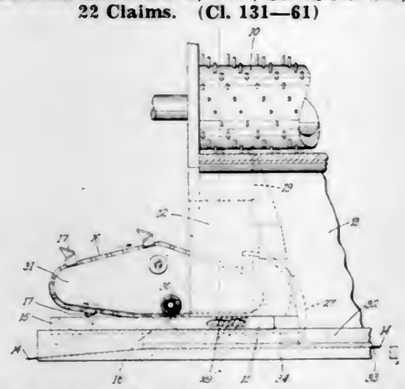
1. Apparatus for preventing short-circuits on a charged conductor by vegetation coming in contact therewith comprising, a transformer delivering periodic current from its output winding and having one terminal of said winding connected with ground, a continuous electrical connection between the other terminal of said winding and said conductor, means for impressing a unidirectional characteristic on the output of said transformer in a direction to render the unidirectional energization of said conductor positive with respect to ground, and means operating independently of said first-mentioned means for limiting the current output from said transformer to a safe value in the event of a short-circuit between said conductor and ground.

2,316,212
REGENERATED CELLULOSE APPARATUS
Francis P. Alles, Waynesboro, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application December 13, 1941, Serial No. 422,803
3 Claims. (Cl. 34—124)



1. A steam distributor for a web drying roll compising three concentric tubes, the innermost tube being connected to a source of heating fluid at one end and closed at the other end, the intermediate tube being larger than the innermost tube whereby a compartment therebetween is formed, the said compartment being closed at both ends, an opening through the wall of the innermost tube to provide communication between its interior and the said compartment near one end of said compartment, a line of discharge openings in the wall of the intermediate tube, and a slot in the outer tube registering with the said line of discharge openings to permit direct access of the heating fluid from the aforementioned compartment to the chamber between the exterior of the outer tube and the inside of drying roll.

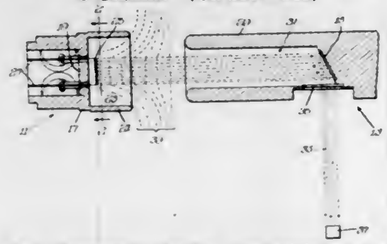
2,316,213
MECHANISM FOR FORMING DENSE END CIGARETTES
Charles Arelt, Richmond Hill, N. Y., assignor to American Machine & Foundry Company, a corporation of New Jersey
Application December 9, 1938, Serial No. 244,792
22 Claims. (Cl. 131—61)



13. A tobacco feed for a continuous rod cigarette machine of the class to be used in the fabrication of cigarettes of the dense end type, said feed including a traveling collecting conveyor, means for showering a supply of tobacco on said conveyor, mechanism cooperating with said conveyor for delivering to the conveyor at predetermined intervals increments of tobacco, means for shaping said increments so that a longitudinal cross section of said increment would depict substantially a three-sided figure, a rod former for forming said showered tobacco and increments into a cigarette rod having densified portions at spaced intervals, and a cutter for severing said rod at the region of maximum density to form cigarettes having dense ends in which the filler tobacco increases in density progressively and uniformly from normal rod density

at the juncture between rod and increment to the maximum desired density in the severed or free end of the cigarette.

2,316,214
CONTROL OF ELECTRON FLOW
Zed J. Atlee, Elmhurst, and Frank R. Abbott, Maywood, Ill., assignors to General Electric X-Ray Corporation, Chicago, Ill., a corporation of New York
Application September 10, 1940, Serial No. 356,158
8 Claims. (Cl. 250—145)

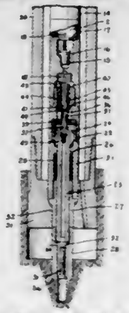


1. An electronic device comprising an anode and a cathode embodying an elongated electron emission element and an electron guiding cup forming a cavity having an open end, facing said anode, and a closed bottom, said cavity being cylindrical and having a diameter to depth ratio as three is to two, said emission element being disposed in the cup substantially at the bottom of the cavity, the diameter of said cavity at the open end thereof being not less than two times the effective electron emitting length of said element.

2,316,215
PRODUCTION OF AMINO ACIDS FROM THEIR HYDROHALIDES
Paul R. Austin, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 17, 1941, Serial No. 415,487
16 Claims. (Cl. 260—534)

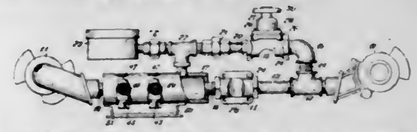
1. A process for the liberation of amino acids from their hydrohalides which comprises reacting an amino acid hydrohalide with pinene in the presence of a mutual solvent for the amino acid hydrohalide and pinene.

2,316,216
APPARATUS FOR TAKING SAMPLES OF FLUID FROM WELLS
Alvin M. Bandy, Ganado, Tex.
Application November 16, 1940, Serial No. 365,899
2 Claims. (Cl. 255—1.4)



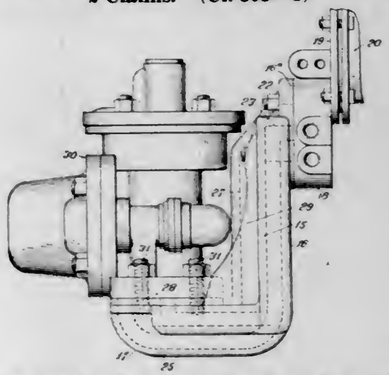
1. In a sample taking device having a sample chamber and provided with a channel entering said chamber; a tubular probe through which said channel extends and having a tapered lower end adapted to penetrate into the earth stratum to be tested and to form a seal therewith, an annular downwardly directed edge around the probe above the tapered lower end thereof and a tubular screen in the probe across said channel.

2,316,217
SINGLE CAR TESTING DEVICE
Thomas Henry Birch, Wauwatosa, Wis.
Application February 3, 1941, Serial No. 377,200
3 Claims. (Cl. 73—51)



1. A single car brake testing device comprising a portable unit provided with coupler means for connecting it between a source of air pressure and the car brake pressure line, said unit including a chambered section provided with at least one manually controlled air supply valve and a plurality of manually controlled test valves of different predetermined capacity, the air supply and test valves each being provided with calibrated orifice means of different fluid capacities; and a pressure responsive indicating means in fluid communication with the chambered section, whereby successive manipulation of the test valves will subject the car brake system to different predetermined degrees of fluid pressure, and the indicating means will measure the applied pressures and give evidence of any leakage in the system.

2,316,218
TRIPLE VALVE BRACKET
Thomas Henry Birch, Wauwatosa, Wis.
Application April 2, 1941, Serial No. 386,447
2 Claims. (Cl. 303—1)



2. A bracket for supporting the triple valve of a railroad car air brake system comprising, in combination with the ported head of a horizontally disposed brake cylinder and the ported face at one end of a triple valve, a casting having a vertical portion with a vertically disposed ported attaching face at the upper end on its rear side and a horizontal portion disposed laterally from the lower end of the vertical portion and terminating at its outer end in a horizontal upwardly disposed ported attaching face, said casting hav-

ing a plurality of continuous passages between the respective ports in the two attaching faces, the ports in the first mentioned face matching the ports in the vertically disposed cylinder head and the ports in the second mentioned face matching the ports in one end of the triple valve; the horizontally disposed face being provided with upstanding stud bolts arranged to match the bolt-holes in the ported face of the triple valve whereby the latter is held in upright position; and means for securing the bracket to the cylinder head.

2,316,219

COMPOSITION FOR CLEANING ALUMINUM

Robert H. Brown, New Kensington, and Robert B. Mears, Oakmont, Pa., assignors to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania

No Drawing. Application April 22, 1939, Serial No. 269,488

3 Claims. (Cl. 252—136)

2. A dry water-soluble aluminum-surface cleanser for use in aqueous solution, said cleanser being characterized by an acidic cleansing reaction in said solution and consisting substantially of an alkali metal fluoride and metaphosphoric acid, the latter being the major component and the principal active cleansing agent.

2,316,220

COMPOSITION FOR CLEANING ALUMINUM

Robert H. Brown, New Kensington, and Robert B. Mears, Oakmont, Pa., assignors to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania

No Drawing. Application April 22, 1939, Serial No. 269,489

4 Claims. (Cl. 252—136)

2. A dry water-soluble aluminum-surface cleanser for use in aqueous solution, said cleanser being characterized by an acidic cleansing reaction in said solution and consisting substantially of an alkali metal fluoride and ammonium dihydrogen phosphate, the latter being the major component and the principal active cleansing agent.

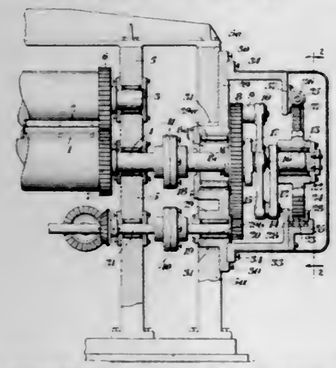
2,316,221

CUTOFF DRIVING MECHANISM

Hobart W. Bruker, Bordentown, and Francis W. Overton, Trenton, N. J.

Application April 22, 1942, Serial No. 440,010

8 Claims. (Cl. 164—68)



1. A cut-off driving mechanism having a cutting speed adjustment including a fulcrum member, an adjusting member movably engaging therewith, the engaging surfaces of said members having successive complementary raised and depressed portions affording rolling movement of said adjusting member along the surface of said fulcrum member with successive points along said last mentioned surface acting successively as fulcrum points for the movement of said adjusting member, means for moving said adjusting member to different positions along the surface of said fulcrum member, said mechanism having a driving member controlled as to position by said adjusting member thereby to regulate the cutting speed of said mechanism according to the position of said adjusting member.

2,316,222

HEATING ELEMENT SUPPORT UNIT FOR OVENS AND THE LIKE

Leonard E. Butters, Albion, Mich., assignor to Union Steel Products Company, Albion, Mich.

Application August 3, 1940, Serial No. 350,535

2 Claims. (Cl. 219—19)



2. A heating unit for an electric oven, comprising an open frame of rod stock having a plurality of straps welded at their ends to the parallel reaches of the frame, and a plurality of sets of insulator receiving and clamping clips spaced along and welded to said straps, said clips each comprising a pair of curved initially open ends and an integral connecting reach therefor secured to the strap, said ends receiving insulators and being bendable to a relatively closed position upon insertion of an insulator therein to clamp the same in place and said straps coacting with said clips in engaging the sides of the insulator, whereby the insulators are securely held in position with a minimum of metal surrounding and adjacent the same.

2,316,223

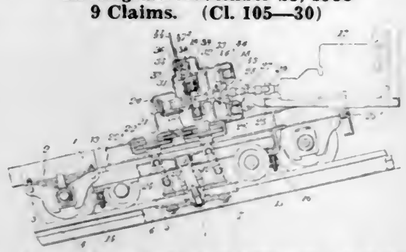
AUTOMOTIVE VEHICLE

Louis Joseph Jean-Baptiste Chêneau, Paris, France; vested in the Alien Property Custodian

Application November 17, 1939, Serial No. 305,029

In Belgium November 23, 1938

9 Claims. (Cl. 105—30)



1. A vehicle of the type described, adapted to run along a rolling track, including at least one rail, which comprises, in combination, a main frame, means adapted to run parallelly to said track, for supporting said main frame with respect to said track, a support movably supported by said main frame so as to be able to undergo relative movements with respect thereto in a direction parallel to said track, propelling wheels carried by said support adapted to run along said rail, and means, responsive to relative movement between said main frame and said support, for regulating the pressure of application of said propelling wheels with respect to said rail in accordance with the resistance to be overcome for causing the vehicle to move forward.

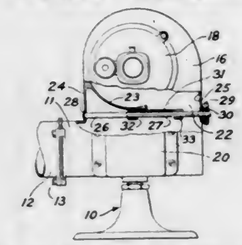
2,316,224

BLOWER FOR OIL BURNERS

Joseph A. D'Elia, Bridgeport, Conn.

Application June 19, 1940, Serial No. 341,358

4 Claims. (Cl. 230—114)



4. In an oil burner, a blower tube having an intake opening at one side adjacent its rear end, a fan casing on said tube at said end and including side and end walls and having a discharge opening aligned with the intake opening of the tube, a plate-like slide valve, means mounting said valve for sliding movement forwardly and rearwardly in directions longitudinally of the blower tube across said intake and discharge openings to vary their effective area, and means operable from the exterior of said casing and tube for adjusting said valve forwardly and rearwardly longitudinally of the blower tube.

2,316,225

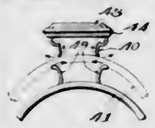
RING-MOUNTED JEWELRY

Elisa Strajman de de Hoffmann and Felix de Hoffmann, Buenos Aires, Argentina

Application May 13, 1941, Serial No. 393,252

In Argentina April 22, 1941

1 Claim. (Cl. 63—29)



In a ring for personal wear, a finger engaging annulus, and a separate gem mounting base, the back of said base being provided with curvilinearly contoured resilient protruding plate members, and said annulus being provided with curvilinearly contoured resilient engaging plates which are respectively contoured substantially parallel to the curvilinear contour of said protruding plate members, and adapted for mutual locking engagement of the parallel adjacent contoured surfaces of said plate members and said plates over substantially their entire extent.

2,316,226

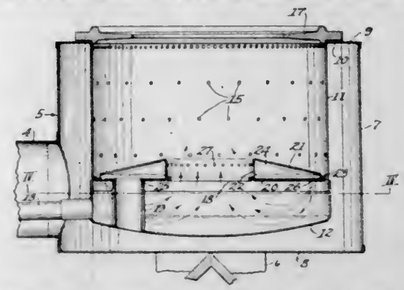
OIL BURNING APPARATUS

Harold B. Donley, Columbus, Ohio, assignor to Columbus Metal Products, Inc., Columbus, Ohio, a corporation of Ohio

Application May 9, 1939, Serial No. 272,623

15 Claims. (Cl. 158—91)

1. An oil burner comprising a combustion vessel having a closed bottom wall and a perforated side wall, means for introducing liquid fuel to said vessel, a ring-like distributor disposed in a horizontal position in said vessel below the perforations in the side wall and spaced from the bottom wall, said distributor having a plurality of downwardly and inwardly directed air outlets,



a casing surrounding said burner vessel and spaced from the side and bottom walls thereof to provide an air chamber, and means establishing communication between the interior of said distributor and said air chamber.

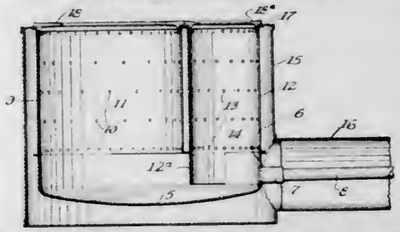
2,316,227

OIL BURNING APPARATUS

Harold B. Donley, Columbus, Ohio, assignor to Columbus Metal Products, Inc., Columbus, Ohio, a corporation of Ohio

Application April 3, 1940, Serial No. 327,679

5 Claims. (Cl. 158—91)



1. An oil burner comprising a pan-like vessel, a plurality of unequal diameter cylindrical shells arising from said vessel in spaced relation, said shells being provided with vertically and circumferentially spaced air admitting openings around the entire periphery, means for supplying regulatable quantities of fuel to said vessel in registration with the smaller diameter shell, and a casing surrounding said shells and spaced therefrom to provide an air chamber extending completely around each shell, communication between the interior of said shells and said chamber being established by the openings in the side walls of said shells.

2,316,228

PROCESS FOR THE PRODUCTION OF CHROMITE BLOCKS

Konrad Erdmann, Radenthein, Austria; vested in the Alien Property Custodian

No Drawing. Application December 28, 1936, Serial No. 118,018. In Austria December 31, 1932

11 Claims. (Cl. 106—59)

1. In the process of making chromite-magnesia brick having unprecedented spalling resistance, great slag resistance and strength at high temperatures, and fair strength at atmospheric temperatures, the improvement which comprises adjusting the proportion of the sizes of particles in a material consisting essentially of ground

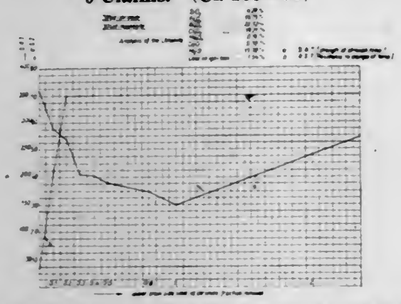
chromite and ground magnesia in which the amount of said chromite is between 60 and 80%, in such a manner that the mixture will contain at least about 20 to 40 parts of a fine fraction composed of particles of a size below 100μ (passing through a 150 mesh per linear inch screen), not over 15 to 25 parts of an intermediate fraction composed of particles of a size between about 100μ and about 1000μ (between a 150 and 16 mesh per linear inch screen) and at least about 35 to 65 parts of a coarse material composed of particles of a size above about 1000μ (retained on a 16 mesh per linear inch screen), substantially all of the magnesia being in a fine condition below about 100μ (passing through a 150 mesh per linear inch screen), whereas the said fine fraction below about 100μ contains substantially no chromite; molding the mixture into bricks and baking the bricks.

2,316,229

CHROME-MAGNESIA REFRACTORY AND METHOD

Josef Berlek, Radenthein, Carinthia, Austria; vested in the Alien Property Custodian

Application January 8, 1938, Serial No. 184,101
In Austria April 28, 1937
9 Claims. (Cl. 106—59)



1. In the process of making chromite-magnesia bricks having great spalling resistance, slag resistance and strength at high temperatures, and fair strength at atmospheric temperature, the improvement which comprises composing a charge consisting essentially of ground chromite and ground magnesia and preponderantly containing chromite, in such a manner that the mix will contain about 20 to 40 parts of magnesia meal reduced by special fine grinding to such a degree of fineness that it preponderantly contains particles not exceeding a size of 0.06 mm., and about 60 to 80 parts of chromite substantially freed from the finest particles up to an upper limit of at the least about 0.1 mm. and at the most about 0.5 mm.; adding a binding substance, molding the mixture into brick and baking the molded bodies.

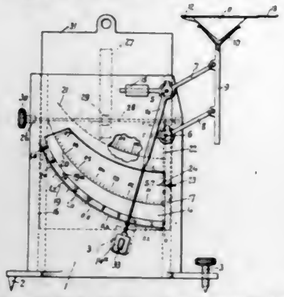
2,316,230

DISPENSING SCALE WITH A NEEDLE MOVING OVER A SCALE AND INSTANTANEOUSLY INDICATING THE WEIGHT IN UNITS

Peter Endres, Cologne, Ehrenfeld, Germany; vested in the Alien Property Custodian

Application August 10, 1940, Serial No. 352,156
In Germany August 23, 1939
1 Claim. (Cl. 116—129)

In a scale chart for weighing scales, wherein the weighing scales include a pivoted pointer, the scale chart including a front frame plate having engraved in its front side a main scale for the main constituent of a mixture and one or more additional scales for additional constituents of the mixture, the additional scales having graduations differing from the graduation of the main scale in correspondence with the desired proportion by weight of the constituents of the mixture and having a common vertical zero line with the main scale, the frame plate having a sector-shaped aperture, a shiftable plate behind said frame plate and having engraved in its front side the additional scales for the additional constituents of the mixture, a transverse zero line displaced 90° from the direction of the zero line of the main scale, and transverse graduations, one for each additional scale visible through said sector-shaped aperture when said shiftable plate is in suitable position.



2,316,231

DEVICE FOR INSERTING WIRE COILS IN TAPPED HOLES

Neil Evans, Montclair, N. J., assignor to Aircraft Screw Products Company, Inc., Long Island City, N. Y., a corporation of New York

Application June 16, 1942, Serial No. 447,236
9 Claims. (Cl. 10—1)



3. A tool of the character described, comprising a first rod-like member of a diameter smaller than the inner diameter of a wire coil intended to be contracted by the tool, the front end of said first member being slotted so as to receive in the slot a tang of the front end of the coil, when said front end of said first member is passed through said coil from the rear end thereof, a second member constituting a bushing in which said first member is axially shiftable and rotatable, said second member embodying means for engaging and frictionally detaining a portion of said wire coil from the outside, and detaining means in engagement with the two members to prevent a relative movement of the members owing to the tension of a contracted coil portion between the slotted end of said first member and the detaining means of said second member.

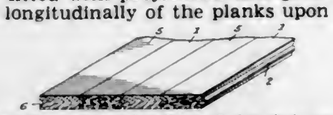
2,316,232

FLOORING MATERIAL AND FLOOR CONSTRUCTION

Albert C. Fischer, Chicago, Ill.

Application November 29, 1938, Serial No. 243,005
5 Claims. (Cl. 20—6)

1. An indoor floor construction comprising wooden planks of conventional flooring thickness fitted with projections and grooves extending longitudinally thereof alternated with planks of yielding plastic material of the same thickness likewise fitted with projections and grooves extending longitudinally of the planks upon opposite sides thereof and adapted for interengagement with the grooves and projections, respectively, of the wooden planks.

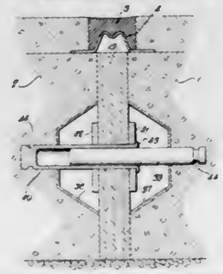


2,316,233

EXPANSION JOINT

Albert C. Fischer, Chicago, Ill.

Application March 7, 1939, Serial No. 260,444
8 Claims. (Cl. 94—18)



1. A paving assembly comprising two spaced paving sections, a plastic filler subject to deformation and cold flow between said sections, channel members within said paving sections defining empty chambers adjacent to said filler upon the opposite sides thereof, a pressing plate in each of said chambers and mechanically operating means connected therebetween and said paving sections for pressing the filler material bulged thereat in said chambers by the expansion of the paving sections to the portions thereof outside of said channel members upon the contraction of said paving sections.

2,316,234

ESTER OF SULPHOSUCCINIC ACID

Lawrence H. Flett, Hamburg, N. Y., assignor to Allied Chemical & Dye Corporation, a corporation of New York

Application November 30, 1940, Serial No. 367,965
1 Claim. (Cl. 260—481)

Disodium monocetyl-monosulphosuccinate.

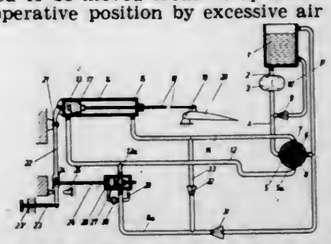
2,316,235

AUTOMATIC FLAP CONTROL FOR AIRPLANES

Erich Gast, Dessau, Germany; vested in the Alien Property Custodian

Application October 23, 1940, Serial No. 362,425
In Germany July 10, 1939
11 Claims. (Cl. 244—78)

1. An arrangement of the character described comprising a pivoted lever, a cylinder mounted for substantially axial movement on one extremity of the lever, means tending to retain the lever at one end of its travel and the cylinder in its normal position, a piston in the cylinder, means for introducing a pressure medium into the cylinder for moving the piston, a movable flap adapted to be moved from an inoperative to an operative position to afford resistance to an air stream, a rod connected to the piston and to the flap for moving the latter, and said flap being adapted to be moved from its operative towards its inoperative position by excessive air pressure thereby moving the cylinder and lever while the piston is held stationary in the cylinder by the pressure medium.

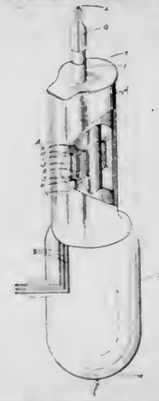


2,316,236

HIGH FREQUENCY TUBE

Frank Douglas Goodchild, London, England, assignor to International Standard Electric Corporation, New York, N. Y.

Application December 11, 1940, Serial No. 369,522
In Great Britain June 4, 1940
2 Claims. (Cl. 250—27.5)



1. An electron discharge device having an envelope comprising a substantially tubular shaped metal sleeve with a glass bulb portion secured thereto, a hollow metal resonator disposed within said sleeve in contact with the greater part of the interior thereof for cooling said resonator, a slot formed in one side of said resonator, a channel formed in said sleeve overlying said slot and cathode means disposed within said channel and overlying said slot for projecting a stream of electrons through said slot into said resonator.

2,316,237

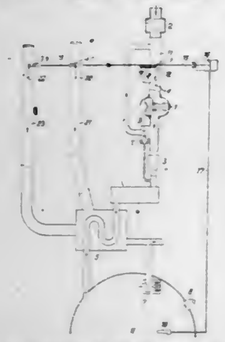
MEANS FOR CONTROLLING THE SUPPLY OF AIR TO THE CLOSED CABINS OF AIRCRAFT

Siegfried Grünert, Berlin-Kopenick, and Hans Ide, Berlin-Grunau, Germany; vested in the Alien Property Custodian

Application January 4, 1941, Serial No. 373,190
In Germany November 25, 1939
9 Claims. (Cl. 128—204)

1. In an aircraft a closed cabin and a compressor supplying the cabin with fresh air, and means in the delivery pipes of the compressor producing a resistance to the current of air supplied by the compressor and a difference in pressure before and behind said means, pipes branching off from the delivery pipe before and behind

said means and leading to a controlling means adapted to move under the said difference in



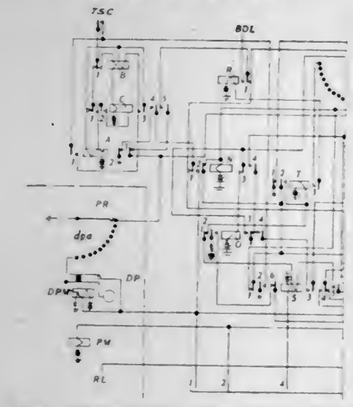
pressure and to adjust a valve controlling an outlet in the delivery pipe of the compressor before the said resistance.

2,316,238

TELECOMMUNICATION SYSTEM

Leslie Baines Haigh and Ladislas Kozma, Antwerp, Belgium, assignors to International Standard Electric Corporation, New York, N. Y.

Application December 20, 1938, Serial No. 246,796
In Belgium December 24, 1937
6 Claims. (Cl. 179—7.1)



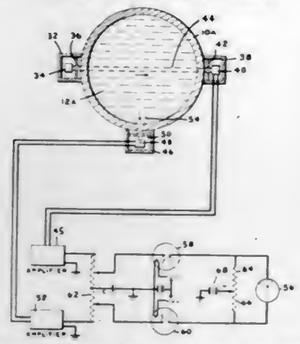
1. Fee determining equipment for telecommunication exchange systems comprising a number of tariff-recording terminals, switching means responsive to the establishment of a telecommunication connection for making contact with one of said tariff-recording terminals in accordance with the tariff schedule applicable to such telecommunication connection, a number of duration-recording terminals, switching means responsive to the continuance of an established telecommunication connection for making contact with one of said duration-recording terminals in accordance with the duration of the telecommunication connection, said fee determining equipment comprising a large number of groups of terminals each such group of terminals representing a different combination of tariff schedule and call duration, means for making contact with one of said groups of terminals under the joint control of said tariff-recording and call-duration contacts, means for indicating a series of separate digits representing the several digits of the total fee for a telecommunication connection and connections from one individual contact of said group of contacts for controlling the indication by said means of one of said digits and connections from another individual contact of said group of contacts for controlling the indication thereby of another of said digits.

2,316,239

METHOD AND APPARATUS FOR DETERMINING DENSITY OF FLUIDS

Donald G. C. Hare, Houston, Tex., assignor, by mesne assignments, to The Texas Company, New York, N. Y., a corporation of Delaware

Application August 20, 1941, Serial No. 407,607
5 Claims. (Cl. 250—83.6)



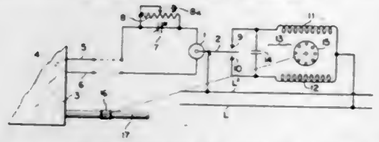
1. The method of determining the density of an inaccessible fluid within a container, which comprises directing a beam of penetrative radiation from a source into the fluid in the container wherein some of the radiation is absorbed by the fluid while some is scattered in the fluid, detecting radiation transmitted through the fluid, detecting radiation scattered in the fluid and returned outwardly through said container, and simultaneously measuring the amount of transmitted and scattered radiation.

2,316,240

CONTROL APPARATUS

Thomas R. Harrison, Wyncote, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania

Application October 31, 1941, Serial No. 417,303
19 Claims. (Cl. 171—95)



1. In a control system, a device having an element which is deflectable from a normal, neutral position, means to produce an electromotive force which is variable in accordance with the changes in a variable condition from a predetermined value, connections to impress said electromotive force on said device, means responsive to the deflections of said element to regulate said condition, and auxiliary means to modify the effect of variations of the electromotive force produced by said first mentioned means on said device in accordance with the trend of the variations in said condition to anticipate the need for regulation of said condition.

2,316,241

PREPARATION OF BEER

Eberhard Heimann, Berlin-Schoneberg, Germany; vested in the Alien Property Custodian

No Drawing. Application September 25, 1939, Serial No. 296,497. In Germany November 5, 1938
6 Claims. (Cl. 99—48)

1. In a process for the preparation of beer, the step which comprises bringing an alkalized silica gel in contact with the beer during its preparation.

2,316,242

PLASTICIZED CELLULOSE DERIVATIVE COMPOSITION

Winfrid Hentrich, Dusseldorf-Reisholz, Wilhelm Kaiser, Dessau in Anhalt, and Rudolf Endres, Dessau-Rosslau, Germany, assignors, by mesne assignments, to "Patchem A.-G. Zur Beteiligung An Patenten und Sonstigen Erfindungsrechten auf Chemische Verfahren," Zurich, Switzerland, a corporation of Switzerland

No Drawing. Application October 13, 1938, Serial No. 234,780. In Germany October 13, 1937
11 Claims. (Cl. 106—186)

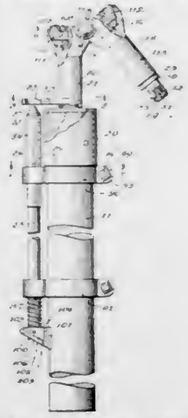
1. A plastic composition having a base material primarily consisting of a cellulose derivative selected from the group consisting of cellulose esters and ethers and containing as a softening and plasticizing agent for said base material an agent selected from the group consisting of substantially water-insoluble aliphatic and cycloaliphatic monosulfonamides substituted on the nitrogen atom only by alkyl radicals.

2,316,243

TRANSMISSION LINE TOOL

David C. Hubbard, Centralia, Mo., assignor to A. B. Chance Company, Centralia, Mo., a corporation of Missouri

Application October 9, 1941, Serial No. 414,223
5 Claims. (Cl. 81—57)



1. A transmission line tool comprising an elongated insulating handle and a metal tool carried by the end of said handle, said metal tool comprising a pair of bearing members, said bearing members being pivotally secured together, a shaft located in each of said bearing members, one of said shafts being fixedly secured to said pole, and the other having a non-circular formation at its end for service as a wrench, and driving means carried by the adjacent ends of said shafts, whereby the shafts may be driven by said pole irrespective of their angular relation, locking means carried by said pole for locking one of said bearing members to rotate with said pole, and means carried by the bearing member to be engaged by the locking means to lock the bearing member and pole for unitary rotation.

2,316,244

LEAD CHROMATE PIGMENT

William G. Huckle and Charles G. Polzer, Glens Falls, N. Y., assignors to Imperial Paper and Color Corporation, Glen Falls, N. Y., a corporation of New York

No Drawing. Application August 1, 1941, Serial No. 405,077
11 Claims. (Cl. 106—298)

1. In the treatment of lead chromate pigments for increasing their resistance to color deterioration by the action of light, the improvement which comprises subjecting the lead chromate pigment in the presence of an aqueous medium to the action of a trivalent antimony compound.

2,316,245

YARN PREPARATION

Archibald Stuart Hunter, Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application June 25, 1941, Serial No. 399,611
9 Claims. (Cl. 28—1)



1. A process for the production of yarn containing filamentous nubs which comprises repeatedly passing yarn containing severed filaments, alternately in opposite directions along its length, between resilient, yieldable yarn-contacting surfaces which are fixed relative to the axial dimension of the yarn.

2,316,246

KNIFE

Elmer Hyatt, Cleveland, Ohio

Application October 21, 1939, Serial No. 300,647
4 Claims. (Cl. 30—153)



1. A device of the character described having in combination a body member, a blade member pivoted to one end of said body member of resilient strip material, and a guard member mounted on the pivot of said blade member, and having integral marginal struck-up lugs cooperating with said body member, one of said lugs bearing frictionally on said body member to increase the locking spring tension on said guard, and said lugs engaging said blade member to move said blade to open and closed position, respectively.

2,316,247
ISOMERIZATION OF PARAFFINS
Vladimir N. Ipatieff and Herman Pines, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application January 12, 1940, Serial No. 313,528
15 Claims. (Cl. 260—683.5)

1. A process for the isomerization of paraffin hydrocarbons to produce therefrom substantial yields of compounds more highly branched than the materials subjected to treatment which comprises subjecting said hydrocarbons mixed with a hydrogen halide to contact with a granular composite of substantially anhydrous chlorides of aluminum and zirconium and a relatively inert adsorbent under isomerizing conditions of temperature and pressure.

2,316,248
ISOMERIZATION OF PARAFFINS
Vladimir N. Ipatieff and Herman Pines, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application January 12, 1940, Serial No. 313,527
15 Claims. (Cl. 260—683.5)

1. A process for the isomerization of paraffin hydrocarbons to produce therefrom substantial yields of compounds more highly branched than the materials subjected to treatment which comprises subjecting said hydrocarbons mixed with a hydrogen halide to contact with a granular composite of substantially anhydrous chlorides of aluminum and copper and a relatively inert adsorbent under isomerizing conditions of temperature and pressure.

2,316,249
BLUEPRINT TRIMMING DEVICE
Walter E. Johnson, Topeka, Kans.
Application November 28, 1941, Serial No. 420,743
2 Claims. (Cl. 164—36)

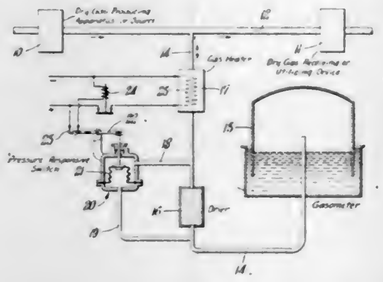


1. A blueprint trimming device adapted to be loosely hung on a guide roller on the delivery side of a blueprint drying machine so as to ride on the paper issuing from said machine comprising an elongated rectangular frame provided with a rectangular slotway, the end members of the frame extending beyond one longitudinal side of the frame and socketed on their lower edges to extend across a guide roller of the drying machine while the body of the device is adapted to be floatingly supported by the paper issuing from the drying machine; guide members slidable lengthwisely of the frame, provided with portions disposed beneath the frame adapted to engage the edges of the continuous sheet of blueprint paper issuing from the drying machine whereby the frame is made to ride longitudinally to follow any lateral movement of the paper, said guide members including means whereby the members may be clamped to the frame; one or more blade-holding members slidable lengthwise on said frame and each provided at one side with an upwardly disposed blade-supporting portion; a vertically disposed cutter blade secured to said blade-supporting portion of each blade-holding member with the cutting edge extending through the slot in the frame; and means whereby the blade-holding member may be clamped to the frame in its adjusted position.

2,316,250
TETRAHYDRO BENZOTHIAZOLE
Paul C. Jones, Silver Lake, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application December 31, 1940, Serial No. 372,573
2 Claims. (Cl. 260—302)

1. A 2-mercapto tetrahydrobenzo-thiazole containing no substituent groups in the tetrahydrobenzene nucleus other than hydrogen, alkyl, and alkoxy groups.

2,316,251
PROCESS AND APPARATUS FOR THE DRYING OF GASES
Heinrich Kahle, Munich-Pullach, and Stephan Stark, Munich-Grunwald, Germany; vested in the Alien Property Custodian
Application October 18, 1940, Serial No. 361,804
In Germany December 27, 1938
14 Claims. (Cl. 48—190)



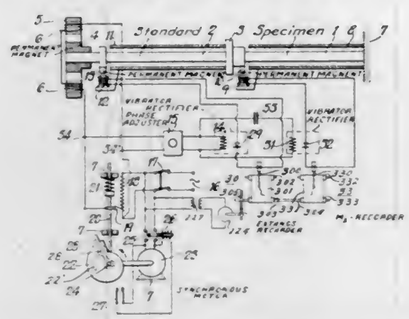
1. In a process for maintaining dry a gas which is conducted from a source of dry gas to a dry-gas utilizing means through a main pipe line having a liquid sealed gasometer connected thereto by a branch pipe line, the steps comprising providing a regenerable drying agent in a drier interposed in said branch pipe line, passing portions of moist gas through said drier in one direction from said gasometer to said main pipe line during periods when the rate of utilization exceeds the rate of supply of gas from said source, and passing other portions of dry gas from said main pipe line to said gasometer through said drier in the reverse direction during periods when the rate of supply exceeds the rate of utilization of gas, whereby a substantially uniform state of dryness is maintained in the gas on the main pipe line side of said drier.

2,316,252
ATTACHMENT FOR SKIS
George L. Karlsson, Peekskill, N. Y., assignor of one-half to Irmgard Schultze, New York, N. Y.
Application April 23, 1941, Serial No. 389,982
2 Claims. (Cl. 280—11.13)



1. A ski attachment comprising a base plate having a transverse bearing, a shaft journalled in said bearing and having a projecting end, a blade secured on said projecting end of the shaft, a spring for rotating the shaft so as to swing the blade downwardly and forwardly to an operative vertical position, means to limit rotation of said shaft to a position wherein the blade is in its forwardly and downwardly swung operative position, and transverse guideways adapted to be mounted upon a ski, said base plate being slidable in said guideways so as to position the blade over the ski when said blade is swung upwardly and rearwardly to a substantially horizontal inoperative position, whereby said blade may be retained in said inoperative position upon the ski.

2,316,253
METHOD AND MEANS FOR TESTING MATERIALS
George Keinath, Larchmont, N. Y.; vested in the Alien Property Custodian
Application July 18, 1938, Serial No. 219,919
In Germany July 17, 1937
25 Claims. (Cl. 73—51)
(Granted under the provisions of sec. 14, act of March 2, 1927; 357 O. G. 5)



4. In an arrangement for testing materials, a testing machine for subjecting a test piece to an oscillatory load, means associated with said machine for producing an alternating current dependent upon the speed of deformation of the test piece, a thermo-couple arranged to be responsive to the temperature of said test piece, and an electric recording measuring system connected with said current-producing means and said thermo-couple for recording the voltages produced by said means and said thermo-couple.

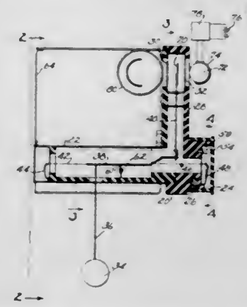
2,316,254
REVERSIBLE FABRIC
George H. Khoury, Brooklyn, N. Y.
Application October 8, 1941, Serial No. 414,118
1 Claim. (Cl. 139—414)

A uniformly woven double faced fabric consisting essentially of ground warp threads and waterproof ground weft threads closely interwoven to form a ground fabric, and soft face warp threads of a size much larger than the sizes of the ground threads, the weft threads being divided into groups of three consecutive wefts, the face warp threads being divided into groups of three, the first weft thread of each group being raised from the ground fabric and looped about the first face warp thread of each group thereof,



the second weft thread of each group likewise being raised from the ground fabric and looped about the second face warp thread of each group thereof, and the third weft thread of each group being raised from the ground fabric and looped about the third face warp thread thereof, whereby the face warp threads are bound to the ground fabric without being visible therethrough to form a reversible fabric.

2,316,255
ANEMOMETER
Max Knobel, Arlington, and Robert Henry Packard, Newton, Mass., assignors, by mesne assignments, to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application November 19, 1941, Serial No. 419,762
4 Claims. (Cl. 73—228)



1. An anemometer comprising a plurality of spaced supports, a metal wire suspending means extending between the supports, spring means adjacent one of the supports for keeping the wire stretched between the supports, a plurality of arms mounted upon said suspending means, a vane exposed to air flow mounted upon one of the arms, an indicating means provided upon another of the arms.

2,316,256
FISHLINE FLOAT
George L. Kohn, Van Wert, Ohio
Application April 13, 1942, Serial No. 438,816
4 Claims. (Cl. 43—15)

1. In a fish line float, line actuating means carried thereby and including a resilient element having a horizontally disposed portion terminating to provide a spring coil through which the line is passed and clamped thereto, spaced offset line guides mounted on the float, said horizontal portion of the element being adapted to be set under tension to be tripped

incident to a nibbling on the bait, and thus exert a sudden pull on the line, and means for holding said portion of the element in its set position for use.



2,316,257
HONING OR POLISHING TOOL
Arnold Krastin, Cleveland, Ohio
Application February 3, 1941, Serial No. 377,173
6 Claims. (Cl. 51—184.2)



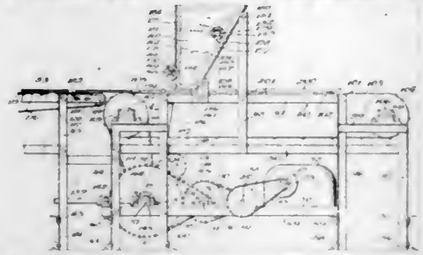
4. A honing or polishing tool comprising a rotatable head, flexible elements attached to the head and emanating therefrom and arranged to operate in contact with a circular surface in trailing relation to the attached portions of said elements, and means projecting laterally from the head in a manner approximately to center the head with reference to the work.

2,316,258
PRODUCTION OF SOFTENING AGENTS
Paul Kümmel, Oranienburg, near Berlin, Germany; vested in the Alien Property Custodian
No Drawing. Application February 24, 1940, Serial No. 320,722. In Germany February 23, 1939
8 Claims. (Cl. 252—1)

3. A softener for textile, leather, plastic and paper products consisting of a solution of a salt selected from the group consisting of the alkali metal glycolates and alkali metal lactates and of a minor portion of water soluble oxypolyalkylether serving to increase the hygroscopic properties of the softener.

2,316,259
MACHINE FOR MAKING CREAM FILLED WAFERS
Sol S. Leaf, Chicago, Ill., assignor to Overland Candy Corporation, Chicago, Ill., a corporation of Illinois
Application May 6, 1939, Serial No. 272,122
1 Claim. (Cl. 91—3)

In a machine for spreading a confection on a succession of pastry wafers; each of said wafers being of rectangular form, having side and end flanges in the same plane, and having a series of parallel trough-like formations depressed beneath the plane of said flanges and presenting abutment portions adjacent the end flanges substantially parallel to the edges of the latter; said machine comprising a frame, an endless conveyor belt operatively supported on said frame to present a horizontal top run, said wafers being disposable on said top run with their end flanges extending transversely of said run in contiguous relation and with said trough-like formations supporting the wafers on said run, transversely extending driving members secured on said belt and extending beneath the contiguous end flanges of adjacent wafers in driving engagement with



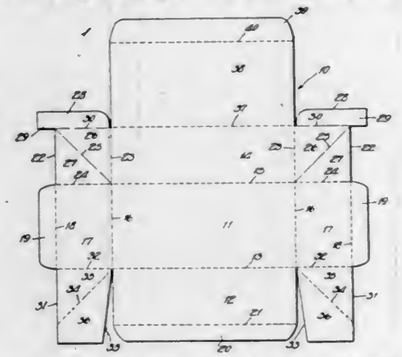
the adjacent abutment portion of a preceding wafer, said wafers being transversely slidable on said run, a hopper carried by said frame and having a lower end opening to feed confection continuously onto the wafers on said run, and means for guiding said wafers accurately under said opening comprising plates supported directly beneath said hopper at the sides of said opening and freely overlying the opposite margins of said run, said plates having parallel edges spaced apart so as to slidingly guide the wafers while the confection is being supplied thereon and having divergent entering portions to guide the wafers between said edges.

2,316,260
TREATMENT OF HYDROCARBONS
Edward C. Lee and Jacob Elston Ahlberg, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application April 29, 1939, Serial No. 270,931
6 Claims. (Cl. 196—52)

6. A process for the conversion of hydrocarbon oils heavier than gasoline which comprises subjecting the oil at a temperature in the approximate range of 850–1100° F. to the action of a synthetic catalyst substantially devoid of alumina and alkali metal ions and consisting essentially of a calcined mixture of a precipitated silica hydrogel and a precipitated hydrous oxide of tin.

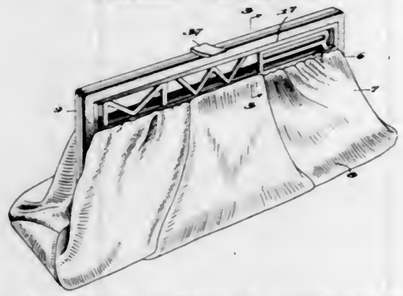
2,316,261
FOLDING BOX
David Levkoff, Brooklyn, N. Y.
Application January 13, 1941, Serial No. 374,141
2 Claims. (Cl. 229—31)

1. A collapsible box comprising a single blank of cardboard cut, scored and folded to provide a rectangular shape bottom wall, end walls hinged to said bottom wall, front and rear walls hinged to said bottom wall, a pair of rear foldable corner webs hinged to the rear ends of said end walls, each of said rear corner webs having a diagonal fold line dividing the same into an attaching section and a triangular shape web fold section having a free edge, pocket flaps connected to the attaching sections of said rear corner webs along hinge scores and being foldable inwardly thereover, fastening tabs integral with the outer ends of the pocket flaps extending beyond the plane of said free edge, said attaching sections lying flat against the inner side of said rear wall, means securing the fastening tabs of said pocket flaps to the rear wall, a pair of front foldable corner webs hinged to the front ends of said end walls, each of said front corner webs having a diagonal line dividing the same into an attaching section and a web fold section having a free edge, the attaching section of said front corner webs fitting flat against the inner side of said



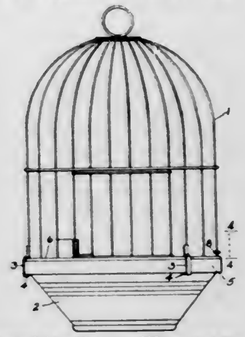
front wall, a front pocket flap folded inwardly from the top edge of said front wall and overlying said front corner webs, means securing the inner end portions of the attaching sections of said front corner webs and the front pocket flap flat against the front wall, whereby the free edges of the triangular shaped web fold sections of the front and rear corner webs flex the pocket flaps outwardly to enable portions of the web fold sections to interlock with the respective front and rear pocket flaps when the box is in set up position, and a cover hinged to the top of the rear wall for overlying the open top of the body of the box when the cover is in closed position thereover.

2,316,262
HANDBAG OR THE LIKE
David Lewis, New York, N. Y.
Application June 17, 1941, Serial No. 398,485
4 Claims. (Cl. 150—29)



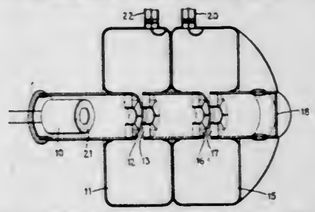
1. A handbag combination comprising internally channeled frame members pivotally attached at their extremities, plate means, at least one of said plate means providing ornamental indicia, seated in said internal channels, outside body material overlapped at its ends affixed to the lower portions only of said plate means on their outer surfaces, and an internal liner fabric overlapped at its ends affixed to the internal lower surfaces of said plate means, said overlapped portions of the liner fabric contacting and functioning as a handbag closure.

2,316,263
CAGE
Earl W. Little, Indianapolis, Ind.; Edward W. Little administrator of said Earl W. Little, deceased
Application April 29, 1941, Serial No. 390,967
2 Claims. (Cl. 47—35)



1. The combination with a cage body and a removable bowl therefor, of hangers fixed to said body and depending therefrom adapted to engage and suspend said bowl; a band attached to said body portion, said band having a gap therein whereby said body may be expanded for releasing said hangers from said bawl or positioning them for receiving said bowl, and means for locking said body against expansion.

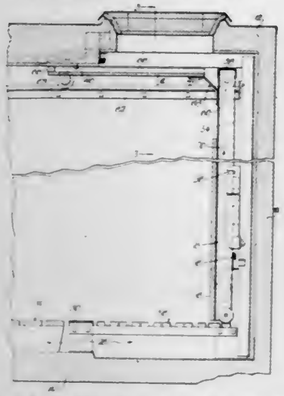
2,316,264
CONTROL SYSTEM FOR VELOCITY MODULATION TUBES
Charles V. Litton, Redwood City, Calif., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application August 27, 1940, Serial No. 354,359
2 Claims. (Cl. 250—27.5)



1. A vacuum tube structure for use in velocity modulated tubes, comprising an electron emitting cathode, means for producing a beam of electrons from said cathode, a resonator shell resonant at substantially the operating wavelength of the structure, means in said shell through which said electron beam may pass for modifying the velocity of electrons in said beam, said last named means comprising beam confining means for confining said beam to a continuously effective diametric dimension of not more than substantially one fifth of a wavelength at said operating frequency, said beam confining means including an electrode transverse to said beam and having a generally circular open portion with a radial dimension of substantialy one fifth of a wavelength at said operating frequency, whereby

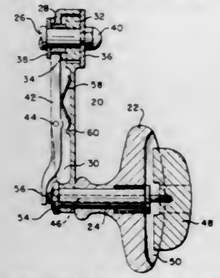
the voltages instantaneously effective upon said beam in any one electrode do not differ by more than five percent.

2,316,265
CONVERTIBLE BULKHEAD FOR REFRIGERATOR CARS
John S. Lundvall, Chicago, Ill., assignor to Union Asbestos & Rubber Company, Chicago, Ill., a corporation of Illinois
Application February 4, 1942, Serial No. 429,462
6 Claims. (Cl. 62—19)



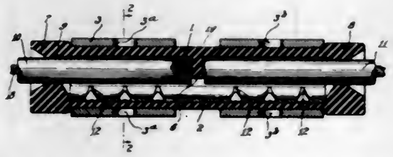
2. In a refrigerator car having a convertible ice bunker in an end thereof, a hatch opening in the ceiling of the car above said bunker, a transverse bulkhead forming one wall of said bunker and being movable to a stored position adjacent the end wall of the car when the bunker is not required, a deflector wall lying in a substantially horizontal plane in adjacent underlying relationship with said ceiling and hatch opening when the bulkhead is in stored position, said deflector wall being affixed adjacent one of its margins to the upper portion of said bulkhead and being supported adjacent its opposed margin by track means mounted within the car, said deflector wall being adapted to deflect air entering the car through the hatch opening and direct said air in a predetermined direction laterally of the car, said deflector wall being movable to an inoperative position clear of the hatch opening as the bulkhead is moved to extended bunker forming position.

2,316,266
HANDLE MECHANISM FOR REELS
Walter D. Marr, Flint, Mich.
Application December 18, 1940, Serial No. 370,699
5 Claims. (Cl. 74—548)



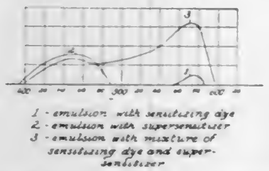
1. In a fishing reel, a winding drum driving shaft, a crank including a hand gripping part and an arm connecting the part to the driving shaft, means operable to couple the crank to the shaft to drive the latter or to disconnect the handle therefrom, said means including an element fixed to the shaft and provided with a series of teeth arranged around the axis of rotation of the shaft, said teeth opening outwardly in the plane of the element and on one side of the element, a member extending lengthwise of the arm of the crank, means pivoting the member intermediate its ends to an intermediate part of the crank arm, one end of said member extending as far as the toothed element and shaped for engagement with the teeth thereof, the other end of the member extending as far as the hand engaging part of the crank, spring means between the member and the crank arm yieldingly urging the end of the member out of engagement with the teeth of said element, and means reciprocatingly movable in said hand engaging part adapted to engage the adjacent end of the member and swing the other end thereof into engagement with the teeth of the element.

2,316,267
SLEEVE CONNECTOR
Ernest S. McLarn, Manhasset, N. Y., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application March 23, 1942, Serial No. 435,866
7 Claims. (Cl. 174—84)

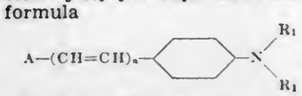


1. In a connector for insulated electric conductors having metal cores, a collapsible insulating sleeve for holding the ends of a pair of conductors in co-axial relationship, a metal plate in said sleeve having prongs projecting therefrom and of such length and so disposed that when the sleeve is collapsed they will penetrate through the insulation into the cores of the conductors within the sleeve, and a clamp disposed on the outer surface of said sleeve overlying the conductors therein for holding the sleeve collapsed.

2,316,268
PHOTOGRAPHIC EMULSION
Alfons Mareis, Dessau, Germany, assignor, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
Application November 14, 1939, Serial No. 304,300
In Germany November 24, 1938
3 Claims. (Cl. 95—7)

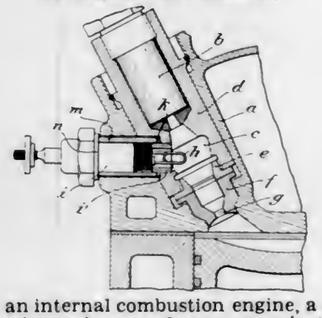


1. Photographic silver halide gelatin emulsion containing a 2.2'-monomethine cyanine and a non-quaternary styryl compound of the following general formula



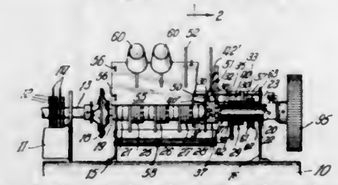
wherein A stands for a nitrogen-containing heterocyclic ring system; n is 2; R_1, R_2 is alkyl.

2,316,269
INTERNAL COMBUSTION ENGINE
Herbert Maruhn, Stuttgart-Bad Cannstatt, Germany; vested in the Alien Property Custodian
Application May 5, 1939, Serial No. 271,980
In Germany May 5, 1938
11 Claims. (Cl. 123—33)



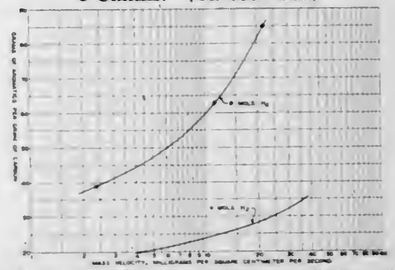
1. In an internal combustion engine, a cylinder head having a bore and a communicating slot substantially parallel thereto, a sleeve member including a pre-combustion chamber formed therein, mounted in said bore, a lateral projection on said sleeve slidably positioned within said slot, and a heating element mounted on said lateral projection and extending into said pre-combustion chamber.

2,316,270
PRESELECTOR
Edward J. Mastney, Berwyn, Ill., assignor to Oak Mfg. Co., Chicago, Ill., a corporation of Illinois
Application August 7, 1942, Serial No. 453,975
1 Claim. (Cl. 74—10)



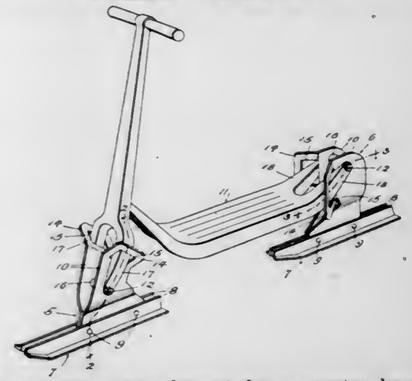
In a device of the character described, a shaft, means normally rotatable with respect to said shaft but adapted to be clamped in adjusted position by side thrust, an adjusting member threaded on said shaft and engaging said normally rotatable means to exert side thrust thereon, said adjusting member having a cam face thereon, a second adjusting member having a cam face cooperating with said first cam face, said second adjusting member being disposed on said shaft and having a limited degree of movement transverse to said shaft, a bolt threadedly engaging said second member and extending transversely of said shaft, and a third member disposed on said shaft and having a part engaging said bolt, said third member permitting said bolt to turn and adjust the transverse position of said second member whereby cooperating cam surfaces adjust the transverse dimension of the device.

2,316,271
TREATMENT OF HYDROCARBONS
William J. Mattox, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application August 12, 1940, Serial No. 352,230
8 Claims. (Cl. 260—668)



3. A process for the dehydrogenation of hydrocarbons having 6 to 12 carbon atoms to the molecule, which comprises combining vapors of said hydrocarbons with hydrogen and subjecting the mixture to contact with a metal oxide dehydrogenating catalyst at a temperature of from 450° to about 650° C., a liquid hourly space velocity of from 0.1 to 20 volumes per volume of catalyst, and at a mass velocity of at least 5 milligrams per square centimeter per second.

2,316,272
RUNNER ATTACHMENT FOR SCOOTERS
John J. Meyer, Ephrata, Wash.
Application February 19, 1942, Serial No. 431,579
5 Claims. (Cl. 280—27)

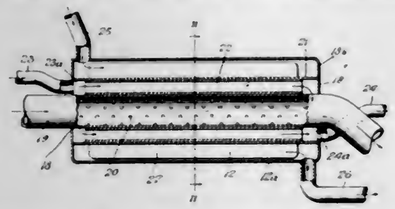


4. A runner attachment for a scooter having a fork, said attachment comprising a twin runner having upstanding flanges, two vertical plates having their lower end portions secured between said flanges, the upper portions of said plates being laterally spaced apart and having openings through which to pass a pivot for connecting said plates with the side arms of said fork, and a bushing between said spaced portions of said plates and abutting the same in alinement with said openings to receive said pivot.

2,316,273
HEATER
Ludwig Meyer and Friedrich Klein, Dessau, Germany; vested in the Alien Property Custodian
Application September 17, 1940, Serial No. 357,175
In Germany July 13, 1939
4 Claims. (Cl. 257—241)

4. A heater comprising an annular air cham-

ber having an inlet pipe and an outlet pipe connected thereto, an exhaust pipe extending through said annular chamber sealed therefrom and spaced from the inner wall thereof to provide an annular intermediate chamber, and spacing members directly connected to the exhaust pipe and to the inner wall of the chamber

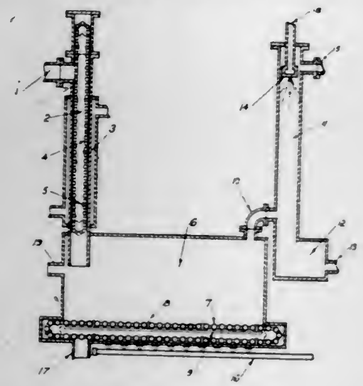


constituting heat transfer means from the former to the latter, said spacing members comprising a plurality of tubes annularly arranged around the exhaust pipe and having juxtaposed flat walls connected to one another to form an encircling gas-proof wall between the exhaust pipe and the chamber.

2,316,274
COATING AND PRODUCTION OF COATED STRUCTURES
James A. Mitchell, Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 16, 1937, Serial No. 148,516
18 Claims. (Cl. 260—17)

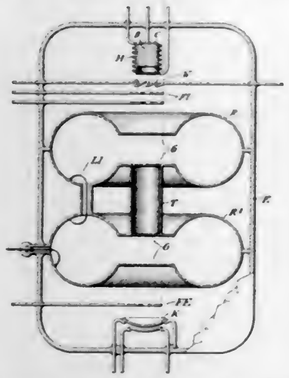
1. A composition comprising essentially 3 parts nitrocellulose, 5 parts modified rosin, 1.5 parts dibutyl phthalate, 0.5 part paraffin wax, 0.5 part benzoyl peroxide and 52 parts cyclohexyl methacrylate.

2,316,275
CHLORINATION OF METAL BEARING MATERIALS
Irving E. Muskat and Robert H. Taylor, Akron, Ohio, assignors to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
Application March 15, 1941, Serial No. 383,578
21 Claims. (Cl. 75—111)



1. In the chlorination of a tin bearing material which contains a quantity of iron of such magnitude that upon chlorination of said material, the amount of iron chloride formed is such as to cause plugging of the condenser system, the process which comprises chlorinating the material at a temperature sufficiently high to volatilize iron chloride and tin tetrachloride to form a vapor mixture containing a large quantity of both iron and tin chlorides, initially condensing the major portion of the iron chloride from the vapor mixture together with a quantity of tin tetrachloride in an amount sufficient to insure the elimination of a major portion of the condensed iron chloride from the vapor mixture and thus to minimize the tendency toward plugging of the system and separately condensing a further quantity of tin chloride from the vapor mixture.

2,316,276
ELECTRON DISCHARGE APPARATUS
Hans Motz, London, England, assignor to International Standard Electric Corporation, New York, N. Y.
Application December 11, 1940, Serial No. 369,515
In Great Britain July 5, 1940
4 Claims. (Cl. 250—27.5)

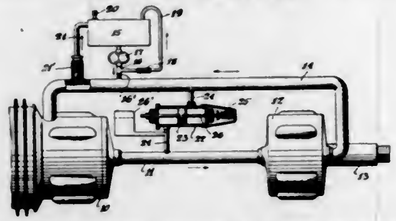


1. Electron discharge device for operation at extremely high frequencies comprising electron gun means, a first resonator chamber, a second resonator chamber, said chambers having apertures for permitting the passage of the electron beam emitted by said gun means, collector electrode means disposed in the path of said beam, said collector electrode means comprising a source of positive ions, and means for focusing positive ions from said collector electrode in a path through said resonator chambers.

2,316,277
DISCHARGE PRINTING ORGANIC DERIVATIVES OF CELLULOSE
Henry Charles Olpin and William Cyril McKnight, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application September 4, 1940, Serial No. 355,310. In Great Britain October 20, 1939
12 Claims. (Cl. 8—64)

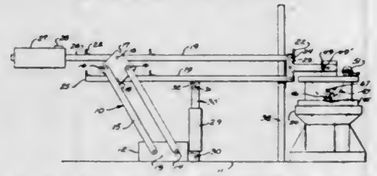
1. Process for the production of patterned textile materials of an organic derivative of cellulose, which comprises locally discharging the ground color of such materials colored in pale ground shades with an amino anthraquinone dye having direct affinity therefor, by locally applying to the materials a composition containing a sulphoxylate discharging agent.

2,316,278
DRIVE
Elias Orshansky, Jr., University Heights, Ohio, assignor to The Acrotorque Company, Cleveland, Ohio, a corporation of Connecticut
Application October 14, 1939, Serial No. 299,403
4 Claims. (Cl. 60—53)



1. A power drive, including in combination, a power driven pump, a fluid driven motor, means providing a passage extending from said pump to said motor, means providing a return passage from said motor to said pump, a single surge preventing means mounted across and connected to both of said passages and means forming a part of said last named means for increasing and decreasing the amount of liquid flowing from the pump to the motor in direct proportion to a decrease and increase in the amount of fluid flowing from the motor to the pump.

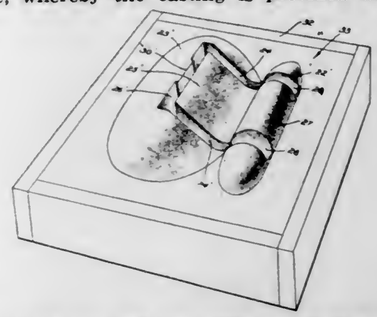
2,316,279
APPARATUS FOR MANUFACTURING MOLD MEMBERS
Raymond H. Osbrink, Los Angeles, Calif.
Application March 30, 1942, Serial No. 436,744
6 Claims. (Cl. 22—47)



1. In an apparatus for removing a pattern from a mold member, a base, a pair of parallel link motion arms each having one end pivotally engaging said base, a plate pivotally connecting the other ends of said arms, a second pair of parallel link motion arms each having one end pivotally engaging said plate, means to guide one end of said second pair of parallel link motion arms for movement in a single plane, means to move said second pair of parallel link motion arms, and a pattern mounted on said second pair of parallel link motion members and remote from said plate.

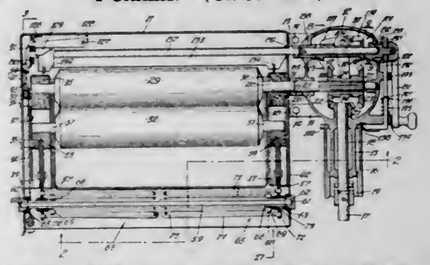
2,316,280
METHOD AND APPARATUS FOR PRODUCING CASTINGS
Raymond H. Osbrink, Los Angeles, Calif.
Application May 5, 1942, Serial No. 441,771
5 Claims. (Cl. 22—157)

1. The method of making a casting having at least one flat surface and having edges defined by intersecting faces comprising making a pair of complementary mold members and providing said mold members with a parting line which extends along certain edges of the casting and across a flat surface of the casting and wherein the part of the mold member which is to form the flat surface is recessed at one side, the recess beginning at the parting line, the recess being of decreasing depth as it recedes from the parting line, whereby the casting is provided with an



elevated portion of decreasing height as it recedes from the parting line, and thereafter removing the elevated portion of the casting.

2,316,281
CONSTANT PRESSSURE WRINGER
Allen J. Patch, Ripon, Wis.
Application November 24, 1939, Serial No. 305,773
4 Claims. (Cl. 68—256)

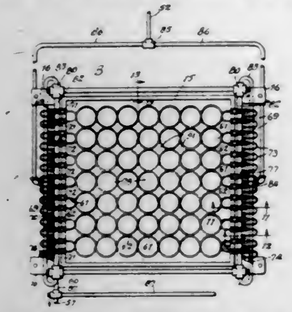


1. In a clothes wringer including a frame, a plurality of pressure rolls, roll supporting means adapted to permit said pressure rolls to move relatively to each other to assume a multiplicity of positions in variable spaced relationship with each other, bearing members for said rolls to permit rotary movement of said rolls, and driving means whereby said rotary movement may be imparted to said rolls; the combination of torque spring means comprising a shaft parallel with the rolls in operative non-wringing position, and springs each of which has one end thereof fixed to the shaft and another end thereof attached rotatably for rotation about the shaft in a plane at right angles to the shaft, and spring coupling means connected with the last-mentioned ends of said springs for applying spring pressure therefrom to the end portions of one of said pressure rolls comprising a crank and linkage whereby the torque exerted by said springs is resolved into a force acting in a rectilinear direction to urge said pressure rolls into engagement, and whereby the effective mechanical advantage of the springs decreases as the deformation of the springs increases.

2,316,282
APPARATUS FOR CUTTING ICE
William Carl Pfeil, Chicago, Ill.
Application September 13, 1940, Serial No. 356,615
16 Claims. (Cl. 62—112)

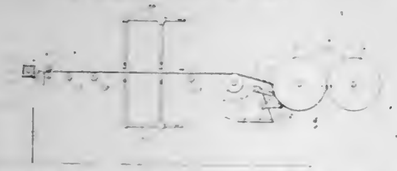
2. In an ice cutting machine, the combination of a grid comprising a frame, a plurality of cutting elements that form a plurality of substan-

tially circular cutting edges adapted to cut a cake of ice into a plurality of substantially cylindrical pieces, and means for feeding a heating me-



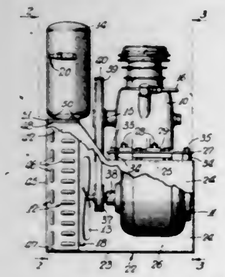
dium to said cutting elements so that said heating medium flows in opposite directions through opposite halves of each circular cutting edge.

2,316,283
PREPARATION OF PLASTIC MOLDING MATERIAL
Rene P. Piperoux, Radburn, N. J., and Dimitri G. Soussloff, New York, N. Y., assignors, by mesne assignments, to Celanese Corporation of America, a corporation of Delaware
Application May 8, 1941, Serial No. 392,428
10 Claims. (Cl. 18—48)



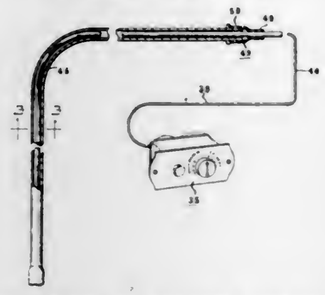
1. Process for the production of granules of plastic material suitable for molding, which comprises longitudinally slitting a sheet of heat softened plastic material to form ribbons of predetermined width, cooling said ribbons of plastic material to set the same, and then transversely cutting said ribbons so as to form granules of substantially uniform size and shape.

2,316,284
REFRIGERATION
Clyde Edward Ploeger, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware
Application December 7, 1940, Serial No. 368,997
11 Claims. (Cl. 62—115)



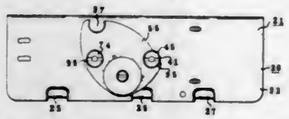
1. A condensing unit for refrigeration apparatus comprising a substantially U-shaped base, a condenser mounted within said base, a platform secured to the upper edges of said base, a compressor mounted on the top side of said platform, a motor operatively connected to said compressor and mounted on the lower side of said platform, and a fan operated by said motor for blowing air through said base and over said condenser.

2,316,285
CONNECTOR
Estel C. Raney, Columbus, Ohio, assignor to Ranco Incorporated, Columbus, Ohio, a corporation of Ohio
Application December 5, 1940, Serial No. 368,739
1 Claim. (Cl. 297—3)



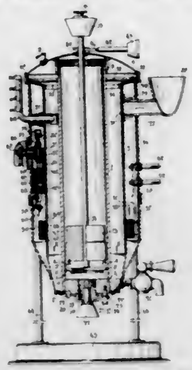
In combination, an elongated relatively rigid tube forming a heat conductor and adapted to have a portion thereof in heat exchange relation with a zone whose temperature is to be controlled and having another portion thereof extending outwardly from said first mentioned portion at substantially right angles, a pressure responsive element, and a relatively flexible tube containing a volatile fluid connected at one end with the pressure responsive element, said flexible tube having a portion thereof inserted into said first mentioned tube and caused to be flexed during insertion by the bend in the first-mentioned tube so that the tubes will be brought into frictional engagement.

2,316,286
CONTROL APPARATUS
Estel C. Raney, Columbus, Ohio, assignor to Ranco Incorporated, Columbus, Ohio, a corporation of Ohio
Application November 29, 1941, Serial No. 421,085
6 Claims. (Cl. 74—483)



1. In combination, mechanism having two rotatable elements; a handle member; means on each of said elements for cooperating with a portion of the handle for interlocking the handle in driving relation with the elements; a plate, said plate having an edge portion extending about a portion of one of said elements and an edge portion extending about a portion of the other of said elements; and means on the plate at one of said edge portions for cooperating with the first mentioned means on the element adjacent said one edge portion for interlocking the latter element and plate.

2,316,287
THERMOELECTRIC APPARATUS FOR HEATING COMPOUNDS USED FOR DENTAL IMPRESSIONS
Jose Mendez Ribas, Buenos Aires, Argentina
Application June 9, 1941, Serial No. 397,322
In Argentina January 13, 1941
5 Claims. (Cl. 219—38)



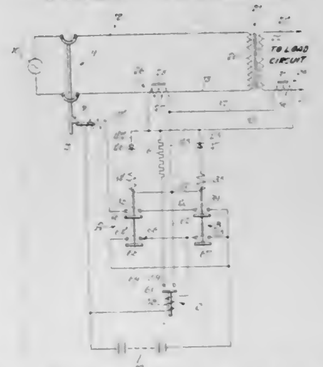
1. A thermo-electric apparatus for heating elastic compounds utilised for dental impressions, which comprises a central tubular covering for containing the elastic compound, a receptacle for containing the water for heating the elastic compound within the tubular covering, which said receptacle surrounds; a complementary outside covering which surrounds the receptacle which contains the water for heating the elastic compound, between which cover and receptacle there is formed a sleeve provided with means for the electrical heating of the receptacle, means of access to the water within the receptacle and means for emptying the receptacle, there being included within the central tubular cover, means for beating the elastic compound, means for closing the discharge opening for the elastic compound through the central tubular covering; means for slowing and regulating the discharge of the elastic compound to a predetermined volume and a thermostatic group for equalizing the temperature of the water at the predetermined maximum of a visible control.

2,316,288
DEVICE FOR PREVENTING SPEED OSCILLATIONS AND VIBRATIONS OF THE ROTARY MEMBERS OF MACHINES
François Marie Michel Bernard Salomon, Paris, France; vested in the Alien Property Custodian
Application January 14, 1939, Serial No. 250,910
In Luxemburg January 8, 1938
5 Claims. (Cl. 74—604)



1. Apparatus for damping oscillations in a rotatable member having an arm rigid therewith and extending radially from the axis of rotation thereof, said apparatus comprising means rotatable with said member including an axially extending portion having an arcuate external bearing surface on both sides of said arm, said bearing surfaces being radially displaced from and curved convexly toward said axis, damping means including masses freely suspended on said axially extending portions and having internal arcuate bearing surfaces engaging said first-named bearing surfaces, the radius of said internal bearing surfaces being greater than the radius of said first-named bearing surfaces, and a damping mass movably supported solely by said first-named masses and having arcuate bearing surfaces engaging arcuate bearing surfaces on said first-named masses, the radius of curvature of the last mentioned bearing surfaces of said first-named masses being greater than the radius of curvature of the cooperating bearing surfaces on said second-named mass and said second-named mass having free rolling movement along the cooperating bearing surfaces of said first-named masses.

2,316,289
CURRENT RESPONSIVE PROTECTIVE RELAY SYSTEM
Per N. Sandstrom, Chicago, Ill.
Application August 29, 1941, Serial No. 408,752
6 Claims. (Cl. 175—294)

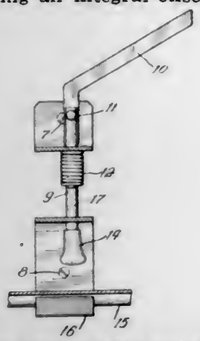


1. In a protective system for an alternating current circuit, in combination, relay means including a plurality of winding means and contact means controlled thereby, circuit means connecting said winding means for energization to the alternating current circuit, means interposed in said circuit means and arranged in such manner as to require a flow therethrough of successive positive and negative half cycles of alternating current for operating said contact means, and means for reducing the sensitivity of one of said winding means a predetermined time after the first half cycle of alternating current has energized the other winding means.

2,316,290
COAL CHUTE CARRIER
Rufus Schenbeck, Toledo, Ohio
Application November 28, 1940, Serial No. 367,507
1 Claim. (Cl. 224—29)

A carrier for a channel chute having a projection on the edge of its side flange, comprising a member formed of a single strip of material having a body portion adapted to be affixed to a vehicle body, said body portion having spaced outwardly projecting brackets thereon, one of said brackets having a retaining notch in a side thereof to engage a projection on the chute flange, a spring-actuated plunger slidably mounted in another of said brackets to hold the chute flange in engagement with the first-mentioned bracket, and a quick-action cam lever pivoted to the plunger to lift the plunger from engagement with

the chute to permit withdrawal of the chute from the bracket, said cam lever comprising an elongated bar having an integral offset end portion,



said end portion having a flat end at right angles to the length thereof in position to rest directly on the bracket and hold the plunger retracted.

2,316,291

PROCESS FOR RETOUCHING OF SUBTRACTIVE MULTICOLOR IMAGES

Wilhelm Schneider, Dessau, and Gustav Wilmanns, Wolfen, Kreis Bitterfeld, Germany, assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application January 18, 1940, Serial No. 314,448. In Germany January 18, 1939

1 Claim. (Cl. 95—2)

In a process for retouching photographic subtractive multi-color images on photographic multi-layer material wherein said images comprise yellow, magenta and blue-green color developed dyes, the image dyestuffs containing in their molecule at least one radical effecting fastness to diffusion, the improvement which comprises the use of transparent retouching dyestuffs exhibiting a spectral absorption corresponding substantially to that of said image dyestuffs and containing in their molecule auxochrome groups corresponding to those of one of said image dyestuffs and no radical effecting fastness to diffusion said dyestuff for retouching the blue-green image layer being the reaction product of α-hydroxy naphthoic acid with the oxidation products of diethyl-p-phenylendiamine, said dyestuff for retouching the magenta image layer being the reaction product of 1-β-naphthyl-3-methyl-pyrazolone-4'-8-disulfo acid with the oxidation products of diethyl-p-phenylendiamine and the dyestuff for retouching the yellow image layer being the reaction product of m-aminobenzoylacetanilide-p-carboxylic acid with the oxidation products of diethyl-p-phenylendiamine.

2,316,292

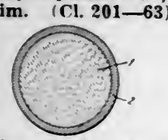
REGULATOR RESISTANCE

Wilhelm Schönfeld, Berlin, Germany; vested in the Alien Property Custodian

Application November 2, 1940, Serial No. 364,022

In Germany September 19, 1939

1 Claim. (Cl. 201—63)



A resistance element for an iron-hydrogen current stabilizing device comprising a core composed of quartz glass whose mechanical strength and insulation power are not appreciably affected when it is raised to temperatures of around 700° C., and a comparatively thin coating of iron around at least a portion of the length of said core, said iron having an effective current stabilizing range when its temperature is around 700° C.

2,316,293

ELECTRIC POWER CABLE

Thomas Robertson Scott, London, England, assignor to International Standard Electric Corporation, New York, N. Y.

Application March 26, 1940, Serial No. 325,952

In Great Britain June 20, 1939

3 Claims. (Cl. 174—102)



1. An electric power cable comprising an electric conductor, a coating of tin on said conductor to protect said conductor against sulphiding, a layer of metal to which rubber will vulcanize surrounding said conductor and said coating, said layer comprising brass coated lead tapes, a layer of insulating material comprising rubber surrounding said layer of metal and vulcanized thereto, whereby formation of any film of gas between said layer of insulating material and said metal is prevented, and a conductive sheath surrounding said layer of insulating material.

2,316,294

PROCESS FOR OBTAINING INDIVIDUAL COLOR-COMPONENT RECORDS FROM MULTILAYER DIFFERENTIALLY COLOR-SENSITIZED FILM ELEMENTS

Virgil B. Sease, New Brunswick, and Deane R. White, South River, N. J., assignors, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application April 11, 1940, Serial No. 329,196

7 Claims. (Cl. 95—2)

1. In a process for obtaining individual color-component records from a multilayer differentially color-sensitized film element containing developed color component images, which are disposed in respective, non-dyed, water-permeable colloid layers, the steps which comprise converting the superposed silver images into silver salt images by using a non-hardening bleach bath, redeveloping all but the inner image without re-exposing the element and directly removing said inner silver salt image.

2,316,295

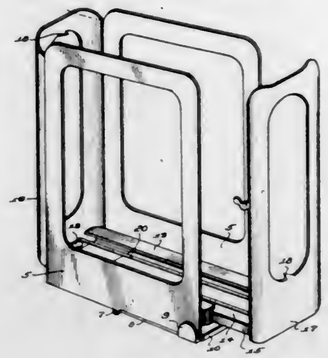
MATCH AND CIGARETTE HOLDER

Hwey J. Shaw, Shanghai, China; vested in the Alien Property Custodian

Application September 9, 1940, Serial No. 356,070

2 Claims. (Cl. 206—41)

1. A container for a package of cigarettes comprising an open top receptacle including a bottom, and open side and end frames, respectively, for displaying the package therethrough, one of said end frames being separate from the other frames and said bottom, means to mount said separate frames for movement to open and close the corresponding end of said receptacle comprising a horizontally extending trough-like guide fitting in the receptacle adjacent the bottom thereof and having inturned top flanges, a right angled hollow leg on the bottom end of said separate frame slidably fitting in said guide, and means to



yieldingly maintain said separate member in closing position comprising an elastic member extending through the guide and the leg and having its opposite ends fixed to the separate frame and the other end frame, respectively.

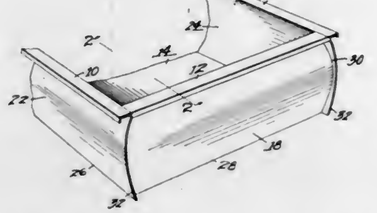
2,316,296

TANK CONSTRUCTION

Warren J. Simonds, Orange, Mass., assignor to Rodney Hunt Machine Company, Orange, Mass., a corporation of Massachusetts

Application June 1, 1940, Serial No. 338,291

2 Claims. (Cl. 220—72)



1. As an article of manufacture, a tank having a bottom, side walls, and an open top, said tank being adapted for the reception and emptying of fluids, said side walls being composed of flexible sheet metal which is thin enough to normally flex under liquid loads in the tank, and means to prevent such flexing, said means comprising pre-set bulges in said side walls, said bulges being substantially uniform throughout the lengths of the walls from end to end thereof and extending outwardly, said walls being joined at their ends to to form vertically curved corners, an outwardly extending flat rim having down turned edges at the top of each wall, said rims being joined at the corners and extending outwardly of the tank from the top of each corner, the bulges in the side walls being maintained in set condition under liquid loads by their corners and by said rims, the latter acting as I-beams to prevent buckling of the side walls on vertical lines, certain of said side walls terminating in at least one edge lying substantially in a vertical plane, said plane being at a right angle to the respective side wall.

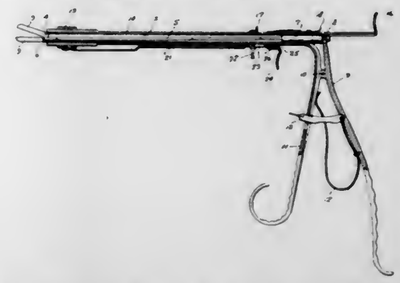
2,316,297

SURGICAL INSTRUMENT

Beverly A. Southerland, Charlotte, and Frank V. Taylor, Murphy, N. C.

Refiled for abandoned application Serial No. 386,520, April 2, 1941. This application January 15, 1943, Serial No. 472,521

1 Claim. (Cl. 128—326)



An instrument of the class described comprising an elongated barrel having an enlarged cylindrical forward end provided with rearwardly and upwardly curved slots opening on opposite sides of its forward edge, a stationary handle formed on and depending from the rear portion of said barrel, a thumb piece formed on the rear end of said barrel, a barrel slidably disposed in the first mentioned barrel, a stationary jaw formed on the forward end of said second mentioned barrel, a pivoted jaw secured to the forward end of the second mentioned barrel in opposed relation to the stationary jaw, a depending ear formed on the pivoted jaw, a plunger slidably disposed in the rear portion of the second mentioned barrel with its rear end projecting therefrom and provided with an annular groove, a rod formed on the plunger and having its forward end pivotally connected to the ear of the pivoted jaw, a handle pivoted on said stationary handle and having a forked upper end engaging the annular groove in the plunger, ratchet locking means between the handles, an expansion spring between the handles, a tubular member slidably disposed on the enlarged end of the first mentioned barrel and having forwardly disposed cutting areas in its edge and in alignment with the notches in said barrel, a rearwardly extending rod connected to said tubular member and having a slot formed therein adjacent its rear end, a thumb-screw passing through the slot in said rod and screwed into the second mentioned barrel, a finger piece formed on the rear end of said rod, a clip secured to said rod and partially surrounding the second mentioned barrel, an eye member secured to the second mentioned barrel, and a suture securing clip carried by the second mentioned barrel to the rear of said eye member.

2,316,298

CASTING MOLD FOR SYNTHETIC MATERIALS

Ernst Strunk, Berlin-Wilmersdorf, Germany; vested in the Alien Property Custodian

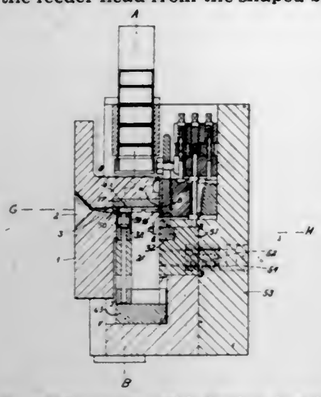
Application July 1, 1938, Serial No. 217,087

In Germany July 3, 1937

2 Claims. (Cl. 18—34)

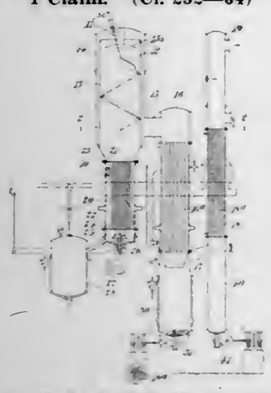
1. A multiple casting mold for synthetic materials, comprising mold parts with spaces for casting shaped bodies, and a feeder head part with feeder channels leading to said spaces, said feeder head part being movable relatively to said

mold parts during the opening of the mold to sever the feeder head from the shaped bodies, and



separate ejectors on said feeder head part for ejecting the feeder head.

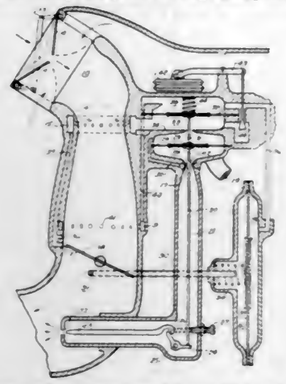
2,316,299
DIELECTRIC COMPOSITION
Archibald Walter Thompson, Bromley, England
Application January 19, 1940, Serial No. 314,735
In Great Britain January 25, 1939
1 Claim. (Cl. 252—64)



A new product of manufacture in the form of a dielectric composition comprising a naphthenic base mineral oil having a viscosity of at least 200 seconds Redwood at 140° F. and dissolved therein a refined rosin containing a total of residual terpenes and rosin oxide that is substantially less than that of the impure colophony from which it is produced, and having substantially the same optical activity as said impure colophony.

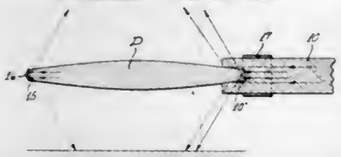
2,316,300
CONTROL FOR FUEL SUPPLIES
Stanley M. Udale, Detroit, Mich., assignor to George M. Holley and Earl Holley
Application August 23, 1940, Serial No. 353,782
3 Claims. (Cl. 261—69)

3. A fuel supply system for an internal combustion engine comprising an air passage, a venturi therein, an air valve regulating the flow through said venturi, said valve constituting the only movable obstruction in the air passage, a fuel entrance, a fuel venturi therein, an outlet from said venturi, a streamlined obstruction located in the throat of said venturi, a fuel throttle valve located some distance away from said venturi in said outlet from said venturi, a diaphragm responsive to the pressure drop in the throat of the fuel venturi, a second diaphragm responsive to the drop in the throat of the air venturi, means for rigidly connecting the two diaphragms together, said diaphragms being adapted to be in



equilibrium when subjected to the fuel and air pressures corresponding to the normal fuel and air flows, said connecting means being also connected to the fuel throttle valve and to the streamlined obstruction located in the throat of said fuel venturi for moving said obstruction relative to said venturi for the purpose of varying the effective throat diameter of said fuel venturi.

2,316,301
ILLUMINATED MAGNIFYING LENS AND READING GLASS
Paul Ullman, St. Louis, Mo.
Application October 5, 1940, Serial No. 359,863
2 Claims. (Cl. 88—39)



1. A reading glass comprising a tubular handle having an opening at one end, a light-ray-emitting source housed in the handle, a disk-shaped marginally beveled lens, a rim embracing and supporting said lens and having a substantially radially projecting tubular ferrule opening to the edge of the lens and having the opening thereof wider than said marginal edge, and a supporting member of rod-like configuration having the optical property of receiving light rays at one end and transmitting said rays endwise through its mass for emission at its other end, said member having one end mounted at the opening of said handle to receive light rays from the light-ray-emitting source and having its opposite light-emitting end received in said tubular ferrule whereby light rays emitted therefrom strike the marginally bevelled edge of the lens.

2,316,302
COVER FOR METER BOXES
Victor R. Van Dyk, Lewiston, and Mort Early, Moscow, Idaho
Application July 15, 1941, Serial No. 402,564
1 Claim. (Cl. 220—35)

A closure for meter boxes comprising a base plate, an upstanding flange on said plate defining a substantially rectangular opening, a cover plate fitting in said opening, a hinge pintle extending through said plate adjacent and spaced from one end of the plate and having the opposite ends thereof journaled in said flange whereby said plate is vertically swingable into and from closing positions relative to said opening, a coil spring fixed at one end in said opening substantially beneath said pintle, connections between the opposite end of said spring and said

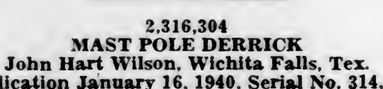


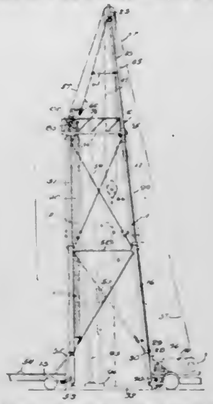
plate acting to shift said other end to opposite sides of the axis of said pintle under swinging of the plate to opposite sides of a dead center position relative to said axis whereby said spring is caused to act to close the cover plate or to maintain the same open, said connections comprising a V-shaped guide on the bottom of the plate having its ends connected to the plate at opposite sides of the axis of swinging movement of the plate, and an eye on said spring sliding in said guide.

2,316,303
SEMIBRIGHT NICKEL DEPOSITION
Andrew Wesley, Plainfield, N. J., and Jay William Carey, Lynbrook, N. Y., assignors to The International Nickel Company, Inc., New York, N. Y., a corporation of Delaware
Application August 30, 1939, Serial No. 292,696
6 Claims. (Cl. 204—49)

2. As a new article of manufacture, a composite article comprising a metallic core and a thick electrodeposited nickelous protective layer, said nickelous protective layer being about 0.0036 inch to about 0.006 inch thick, containing grains of a size greater than 0.0001 millimeter, having preferred crystallographic orientation with the [112] direction substantially normal to the surface of said core and having two maxima of light reflectively at about 20° to the normal of said layer.

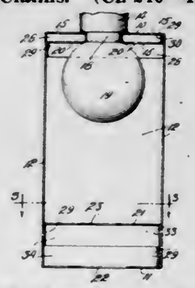
2,316,304
MAST POLE DERRICK
John Hart Wilson, Wichita Falls, Tex.
Application January 16, 1940, Serial No. 314,164
10 Claims. (Cl. 254—139.1)

9. A portable derrick outfit for pulling wells or like purposes, comprising, in combination, a pair of extensible mast pole units which are independently portable, means for extending and retracting said units, and means for connecting and bracing them in upwardly extending, spaced apart positions, each of said units comprising a pair of parallel, rigidly connected, tubular sections and one or more other pairs of parallel connected tubular sections telescoping therewith, one of said units being longer than the other and carrying a sheave at the top thereof, tackle associated with said sheave for pulling a well or the like, a platform pivoted to the longer mast pole unit, a pair of wheeled vehicles, means for respectively pivoting the lowermost sections of said units to said vehicles whereby the retracted units may be swung to a substantially horizontal position thereon, hoisting means on each of said vehicles for swinging said units to vertical positions and extending the telescoping sections, hoisting means on the vehicle, which is adapted



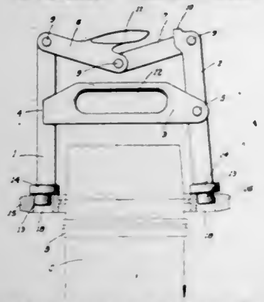
to carry the longer unit, for swinging said platform into operative position, a main winding drum on said last named vehicle for operating the well pulling tackle, and a detachable connection between said other vehicle and the shorter unit, whereby said vehicle may be disconnected and otherwise employed while the pulling operations are effected by the winding means on the main vehicle.

2,316,305
BLACKOUT SHIELD
Donald H. Wright, Garden City, N. Y.
Application May 28, 1942, Serial No. 444,809
4 Claims. (Cl. 240—108)



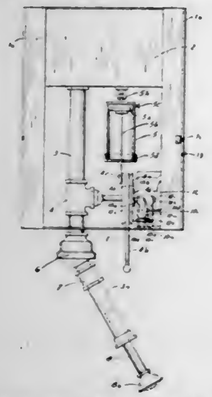
1. In a blackout enclosure shield for electric lamps, comprising a top, sides, and a bottom below and spaced from an electric lamp bulb to be positioned at the top, a central aperture in the top adapted to register with an electric lamp socket, a partition inside said enclosure adjacent the top but in spaced relation thereto, said partition and top having staggered openings therein whereby heated air may escape from inside said enclosure, the partition having a central opening through which the neck of an electric lamp may extend, an aperture in the bottom, a false bottom mounted inside said enclosure and spaced below the electric lamp and above the bottom; there being a central opening in said false bottom one half the diameter of the aperture in the bottom, whereby the edge of said aperture is shielded from the direct light rays emitted by the lamp.

2,316,306
SPREADER
Floyd H. Wyman, Toccoa, Ga., assignor to R. G. Le Tourneau, Inc., a corporation
Application April 11, 1942, Serial No. 438,557
5 Claims. (Cl. 29—88.2)



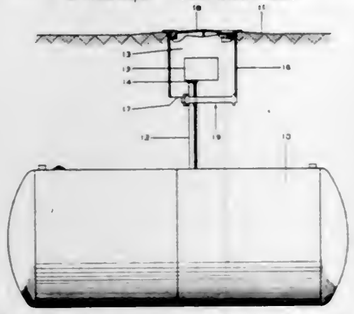
1. A spreader comprising a spreader bar, a pair of legs, means securing the legs intermediate their ends in connection with opposite ends of said bar for relative pivotal movement of said legs, one leg being fixed to the bar at a right angle thereto, and the other leg being pivoted to said bar, work engaging elements on one end of said legs, and manually actuated means connected between the legs and operative to effect such relative movement thereof, said manually actuated means comprising a toggle link unit.

2,316,307
AUTOMATIC MECHANISM FOR FURNISHING INTERMITTENT SPRAYS OF LIQUID SOAP FOR BATHS
Herring Young, Louisville, Ky.
Application April 21, 1941, Serial No. 389,636
1 Claim. (Cl. 299—73)



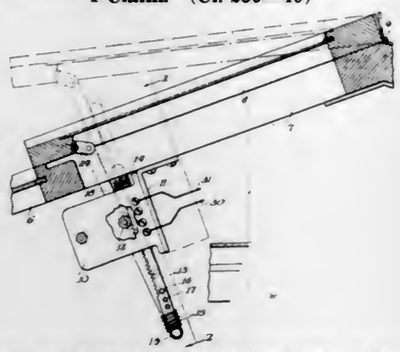
An automatic mechanism for furnishing intermittent sprays of liquid soap for baths, as herein above described, comprising,—a tank of liquid soap fixed in the upper end of a protective cabinet; a pipe-line leading from said tank down through the bottom of said cabinet; an automatic spring-pressed self-closing valve in said pipeline; a rotary sheave wheel operatively connected with said valve and provided with an operative cord thereon for rotating said wheel to open said valve; an adjustable air dashpot operatively connected with said sheave wheel and adapted to coact with the rotation of said wheel, controlling the backward movement thereof in holding the self-closing valve from closing for a predetermined time; a flexible joint in said pipe-line, installed below said protective cabinet and adapted to carry an extension pipe; and a telescoping attachment having a spray-head on the outer end thereof, said attachment being adapted to slide back and forth in said extension-pipe, said extension pipe with its telescoping attachment being adapted to be swung and adjusted for the convenience of the individual bather using said liquid soap-spray in connection with his bath.

2,316,308
APPARATUS FOR STORING FLUIDS UNDERGROUND
George R. Benz and Harry R. Zeigler, Detroit, Mich., assignors to Phillips Petroleum Company, a corporation of Delaware
Application May 19, 1939, Serial No. 274,622
3 Claims. (Cl. 220—86)



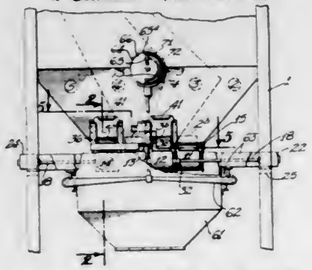
1. A support comprising a pair of generally V-shaped interchangeable members, means for pivotally connecting the members near their apices, each member including a plurality of substantially coplanar outwardly projecting arms, one arm of one member extending alongside of a like arm of the other member, each of said two arms having a recess defining an opening when the members are assembled eccentrically disposed with respect to said pivot point, the other arms of the members being disposed in diverging relationship, the outer end of each arm being notched.

2,316,309
GREENHOUSE VENTILATION
John Blain, Des Plaines, Ill., assignor to Lord & Burnham Company, Des Plaines, Ill., a corporation of Illinois
Application September 29, 1941, Serial No. 412,832
1 Claim. (Cl. 236—49)



The combination with a greenhouse, of a ventilating window positioned within the roof and adapted to be opened and closed, a motor secured to the roof adjacent to the window, a rack slidably mounted in the motor frame, a pinion driven by the motor engaging with the rack, buffer springs mounted at either end of the rack, adjustable means for limiting the throw of the rack, a link connecting the rack to the window frame, a source of electric supply, thermostatic means for controlling the supply, a transformer interposed between the supply circuit and the motor for reducing the voltage supplied to the motor, the arrangement being such that when the thermostat is closed, the motor will be driven to open the window and will hold the same open, and when the current is discontinued, the window will return to closed position.

2,316,310
FEED CONTROL MEANS FOR WEIGHING APPARATUS
Carl G. Bliss, Long Beach, Calif., assignor to Standard Steel Works, Los Angeles, Calif., a corporation of California
Application November 8, 1937, Serial No. 173,450
2 Claims. (Cl. 249—2)

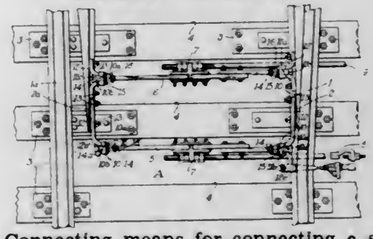


1. In an apparatus of the class described, a plurality of bins positioned immediately adjacent each other, each having a downwardly converging bottom, the vertex of the bottom and a portion of one side of each bin being open, some of the bins being open at one side and the others being open at the opposite side, measuring means, separate lateral conveyors, all located in substantially the same horizontal plane, one end of each forming a moving bottom below the open vertex and side opening of each bin, and extending with its other end beyond the respective bin at the side thereof having said side opening, said other end discharging into the measuring means, means responsive to the material in the latter, for measuring the amount thereof, and means for separately operating each of the conveyors, the latter means being controlled responsive to the movements of the measuring means, the conveyor operating means for the conveyors extending in one direction from the bins being located at the opposite lateral sides of the latter conveyors, and the conveyor operating means for the conveyors extending in the opposite direction being also located at the opposite lateral sides of the latter conveyors.

2,316,311
PRODUCTION OF ALLERGIC EXTRACTS
Charlotte H. Boatner, New Orleans, La., assignor to B. D. E. Corporation, New Orleans, La., a corporation of Louisiana
No Drawing. Application March 11, 1939, Serial No. 261,367
15 Claims. (Cl. 167—78)

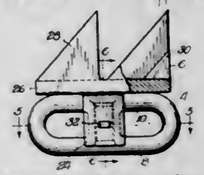
1. The process of producing extracts or concentrates of allergic factors from substances containing such factors which comprises treating said substances with a mixture of water and an organic solvent miscible with water of the class consisting of ethers, ketones and mono-hydroxy alcohols having at least three carbon atoms, to dissolve soluble constituents of the allergic-factor-containing-substances, the proportions of water and organic solvent being such that further increase in the proportion of organic solvent results in precipitation of an active precipitate, and adding more of the organic solvent to said solution to separate an active precipitate.

2,316,312
RAILWAY SWITCH ROD CONNECTING MEANS
Herbert L. Bone, Forest Hills, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application May 3, 1941, Serial No. 391,780
3 Claims. (Cl. 287—97)



1. Connecting means for connecting a switch rod to a switch point comprising an upstanding arm provided on the switch rod and formed with a through hole and with a vertically disposed semicylindrical bearing surface on the side nearest the switch point, a bearing bracket bolted to the switch point and provided with a rounded offset portion formed with an elongated through hole which aligns with the hole in said arm and with an outer bearing surface which mates with the bearing surface in said arm, said offset portion also being provided with an inner bearing surface concentric to said outer bearing surface, a clamping bolt extending through the aligned holes in said arm and said offset portion and provided at one end with a head having a bearing surface which mates with said inner bearing surface and at the other end with a threaded portion, and a nut screwed onto said threaded portion for clamping said arm to said bearing bracket to connect said switch rod to said switch point in a manner which permits said rod to swivel relative to the point.

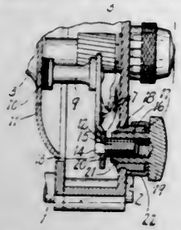
2,316,313
CONVEYER MECHANISM
William C. Bruton, Oakland, Calif., assignor to The American Brake Shoe and Foundry Company, New York, N. Y., a corporation of Delaware
Application June 16, 1941, Serial No. 398,195
4 Claims. (Cl. 198—200)



1. In a conveyer for logs or the like, the com-

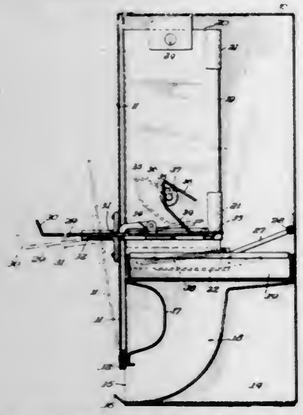
bination of a carriage having spaced depending legs formed with opposed grooves, a chain having a link provided with an integrally formed intermediate filler member projecting from said link and adapted to be received in said grooves, and means for securing said link and carriage in interlocked relation.

2,316,314
FISHING REEL
Frank Burdick, Kalamazoo, Mich., assignor to Shakespeare Company, Kalamazoo, Mich., a corporation of Michigan
Application July 15, 1940, Serial No. 345,496
4 Claims. (Cl. 242—84.5)



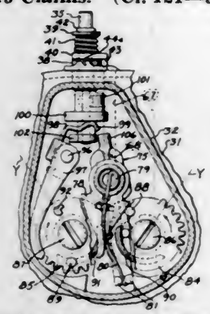
3. In a fishing reel, the combination with a frame, a spool, a segmentally curved spring brake arm generally concentric with the spool secured at one end to said frame and provided with a radially outwardly projecting ear adjacent its other end, a brake shoe on said other end of said brake arm coacting with said spool, an adjusting member rotatably mounted on said frame and provided with a finger piece, and a stud threadedly engaging said adjusting member and having thrust engagement with said ear on said brake arm and provided with a flattened end engaging an elongated opening therein whereby the stud is supported against rotative movement.

2,316,315
VENDING MACHINE
Charles L. Casey, Chicago, Ill.
Application April 27, 1942, Serial No. 440,640
3 Claims. (Cl. 194—1)



1. In a vending machine, a casing having a discharge outlet for the articles, an article holder swingingly mounted in the casing, a fixed ejector operable when the said holder is moved in one direction about its pivot, to eject an article from the holder, a closure for the casing, an actuator slide, a formation on said holder, and an arm carried by said slide, separate from but engaging over said formation, whereby to positively move the article holder about its pivot in both directions of movement of said slide, said slide being mounted upon said closure, whereby when said closure is opened the arm will move into an inoperative position with respect to said formation, and into an operative position with respect thereto when the closure is closed.

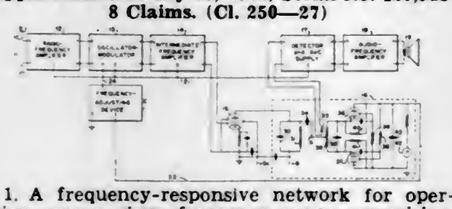
2,316,316
FLUID PRESSURE MOTOR
Irven E. Coffey, Normandy, Mo., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware
Application April 17, 1941, Serial No. 388,975
15 Claims. (Cl. 121—98)



1. In a fluid motor, a chamber and movable wall structure, ports for exposing said chamber, selectively, to differential pressures, a reversing valve for said ports having a locking projection, a valve shifter movable with said wall structure, a spring between said valve and said shifter, and drive mechanism including a pair of adjacent rotating members each having a valve locking abutment, said abutments being adapted to selectively engage and lock said valve during a portion of the stroke of said wall structure and shifter so as to stress said spring and to release said valve for shifting by said spring substantially at the ends of said stroke.

6. In a windshield wiper, a fluid motor including pressure actuated wall structure, and a parking control including a latching shoulder movable with said wall structure, a detent having an operative position for engaging said shoulder to park the motor at a predetermined point in its stroke, a device for relieving the pressure between said shoulder and said detent, and means for moving said detent away from said shoulder to start the motor.

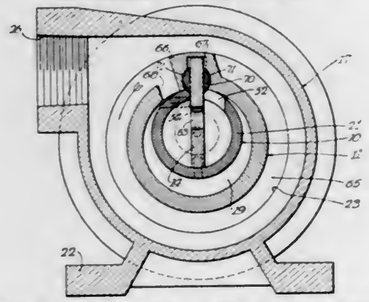
2,316,317
FREQUENCY-RESPONSIVE NETWORK
Leslie F. Curtis, Great Neck, N. Y., assignor to Hazeltine Corporation, a corporation of Delaware
Application January 16, 1942, Serial No. 426,943
8 Claims. (Cl. 250—27)



1. A frequency-responsive network for operation over a given frequency range comprising,

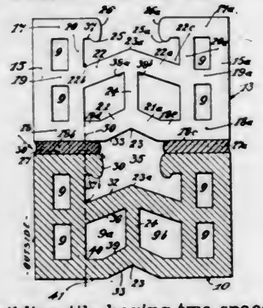
means for developing from an applied signal a first voltage which decreases in amplitude with frequency in the vicinity of the mean frequency of said range, means for developing from said applied signal a second voltage which increases in amplitude with frequency in the vicinity of the mean frequency of said range, a pair of rectifiers, an output circuit for each of said rectifiers, means for individually applying said voltages to said rectifiers, means for deriving a delay bias for each of said rectifiers solely from the output circuit of the other, and means for deriving from the output circuits of said rectifiers a control voltage which varies in accordance with the frequency of the applied signal.

2,316,318
ROTARY LIQUID PUMP
William Ward Davidson, Evanston, Ill.
Application July 8, 1939, Serial No. 283,480
13 Claims. (Cl. 103—121)



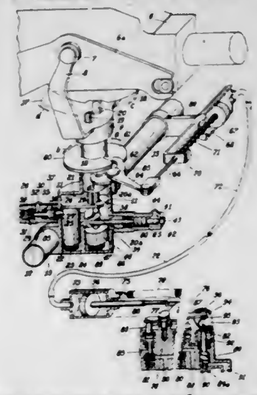
2. In a rotary pump of the type described, a rotatable cylinder, a hollow piston rotatably mounted eccentric to the cylinder and tangential to the inner surface thereof defining therewith a pump chamber, the piston having a slot extending through a wall intermediate the ends of the piston, a longitudinal vane extending outwardly through the slot from the internal surface of the piston diametrically opposite the slot into sliding engagement with the cylinder dividing the pump chamber into intake and discharge sections each having a port therein, and dowels rigid with the piston engaging the vane within the piston and retaining the vane in rigid relation to the piston.

2,316,319
BUILDING TILE
William G. Demarest, New York, N. Y.
Application January 28, 1941, Serial No. 376,351
2 Claims. (Cl. 72—41)



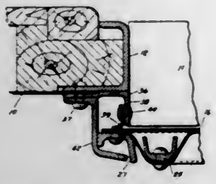
1. In a building tile having two spaced parallel load bearing portions of rectangular transverse cross section, joined by spaced, parallel upper and lower walls each of which is inclined downwardly and outwardly from the median line of the tile to connect with the opposed inner faces of said bearing portions, a centrally located, longitudinal wall joining said parallel walls, the combination of shelf-like inward extension walls supported by said bearing portions each having its upper surface in alignment with the upper surface of its adjacent bearing portion, the edges of said extensions being spaced from each other, and a downwardly directed enlargement on each of said extension walls overhanging the upper surface of said upper parallel walls at opposite sides of the said median line, whereby moisture seeping inwardly over said upper surfaces of a bearing portion and its inward extension wall is adapted to be guided directly from said enlargement to said upper parallel inclined wall immediately beneath said enlargement and guided by said wall in a direction away from said median line.

2,316,320
HYDRAULICALLY AND PNEUMATICALLY CONTROLLED MOUNT FOR AUTOMATIC GUNS
Albert Dewandre, Brussels, Belgium; vested in the Alien Property Custodian
Application December 27, 1938, Serial No. 247,961
In Great Britain August 25, 1938
6 Claims. (Cl. 89—37.5)



1. In a gun mount arranged on a moving unit, a stationary ring situated in a horizontal plane and rigid with said unit, a movable annular member rolling upon said stationary ring, auxiliary fluid motors for rotating said movable member in both senses, a casing supported by said movable member, a spindle pivotally mounted in said casing and extending normally in a perpendicular direction with respect to said movable member, a fork provided at the upper end of said spindle, two branches on said fork; a gun pivotally mounted between said branches; cams arranged in different transverse planes on said spindle and extending around a portion of the periphery of the latter, a two finger forked lever pivoted to said casing, the fingers of said lever cooperating each with one of said cams, fluid distributors for controlling said auxiliary motors, means subordinated to the angular displacements of said forked lever for actuating said fluid distributors when the gun is being moved laterally off its neutral position, and means subordinated to the sense of such lateral movement of the gun for actuating those distributors which control the motors that impart a corresponding rotary movement to said movable member.

2,316,321
CAR DOOR
Frank Ditchfield, Cleveland, Ohio, assignor to The Youngstown Steel Door Company, Cleveland, Ohio, a corporation of Ohio
Application August 20, 1940, Serial No. 353,362
6 Claims. (Cl. 20—26)



6. In a railway house car having a wall provided with a door opening, a flap of flexible material secured to and along said wall adjacent to a vertical marginal edge of said door opening and projecting freely from said wall, a longitudinally sliding door mounted upon said wall, said flexible flap extending into the path of longitudinal movement of said door, said door engaging and freely bending said flexible flap in the final longitudinal closing movement of said door to exclude rain, snow, cinders, dust, and the like, said flap being out of engagement with said door during substantially all other longitudinal movement of said door.

2,316,322
SLIDING CAR DOOR
Frank Ditchfield, Cleveland, Ohio, assignor to The Youngstown Steel Door Company, Cleveland, Ohio, a corporation of Ohio
Application August 29, 1940, Serial No. 354,709
9 Claims. (Cl. 20—26)

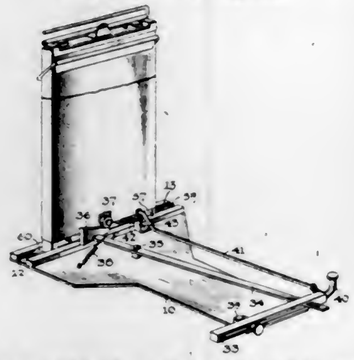


9. A longitudinally sliding metallic door for railway house cars having a vertical recess therein, a flexible weatherstrip seated in said recess said weatherstrip having a flange, means securing said flange in said recess, said weatherstrip also having a flange extending freely beyond said recess, said latter flange being adapted to be engaged and freely bent by a member on said car associated with said door to form a seal between said car member and said latter flange, for the purpose set forth.

2,316,323
VINYL RESIN COATING COMPOSITION
Arthur K. Doolittle, South Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York
No Drawing. Application November 17, 1939, Serial No. 304,941
5 Claims. (Cl. 260—32)

1. A vinyl resin composition essentially comprising a vinyl resin resulting from the conjoint polymerization of a vinyl halide with a vinyl ester of an aliphatic acid, and a solvent having marked compatibility for coal tar hydrocarbons and being adapted to retain its solvent action for the resin in high dilutions with toluene, said solvent comprising an alkoxy acetone.

2,316,324
COPYHOLDER
Edward L. Elliott, Arlington, Va., assignor to Federal Business Machines Corporation, Washington, D. C., a corporation of Delaware
Application August 4, 1941, Serial No. 405,429
8 Claims. (Cl. 120—29)



1. In a copy holder, a base adapted for association with a machine and including a portion which extends below the lower surface of the machine to a point adjacent the front of the machine, an upwardly extending standard member in fixed relation to the rear portion of the base, a member in vertically movable relation with respect to the standard member, one of said members being provided with copy holding means and the other with line indicating means, means operable from a point adjacent the lower end of the standard member, for moving the movable member with respect to the standard member, an operating member reciprocable laterally in a horizontal plane along the front of the machine to operate said moving means and extending adjacent the base below the level of the machine to a point adjacent the front of the base, and means secured to said frontwardly extending portion of the base, for adjustably limiting the extent of reciprocatory movement of the reciprocable operating member.

2,316,325
SHOE
Jacob Fein, Bronx, N. Y.
Application December 1, 1941, Serial No. 421,086
2 Claims. (Cl. 36—45)



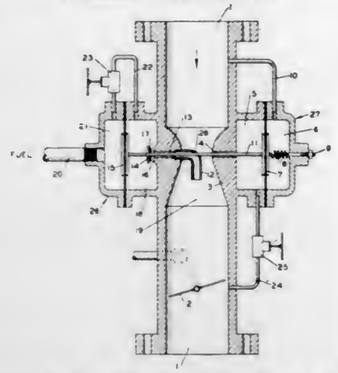
1. A shoe comprising an upper and an outsole, said upper comprising a backing layer secured to said outsole and extending from one side edge of the latter to the opposite side thereof and a face layer overlying said backing layer and extending from one side edge of the outsole to the opposite side thereof, said face layer being formed of textile cords mounted on said backing layer in adjacent side by side relation thereon, and lines of stitching extending longitudinally of said cords and securing said cords individually to said backing layer in said side by side relation thereon.

2,316,326
WASHING DEVICE
Leon Garin, New York, N. Y.
Application August 22, 1941, Serial No. 407,843
5 Claims. (Cl. 15—128)



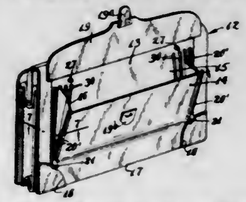
1. A washing device, comprising a hollow casing of impermeable material having an open side, a flexible porous cleaning member mounted across said open side, and a flexible connection connected with said casing and adapted to be connected with a supply of water or other cleaning fluid which is capable of passing through the porous member and inflate the same, said casing having a movable front section, and means for waterproofing the joints between the sections of said casing, said sections being hingedly connected, said waterproofing including a flexible waterproofed sheet cemented on the inner face of said casing.

2,316,327
CARBURETOR
Owen L. Garretson, Detroit, Mich., assignor to Phillips Petroleum Company, a corporation of Delaware
Application September 22, 1941, Serial No. 411,929
1 Claim. (Cl. 261—69)



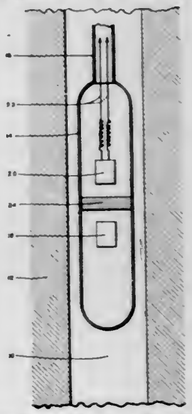
A liquid feed carburetor comprising an air inlet tube, a main throttle valve in the air inlet tube, a venturi in the air inlet tube upstream of the main throttle valve, a fuel passage extending through the wall of the air inlet tube at the throat portion of the venturi communicating with a source of fuel supply under pressure, an air passage extending through the air inlet tube at the throat portion of the venturi in alignment with said fuel passage communicating with an air pressure chamber, a variable opening fuel valve for controlling flow of fuel through said fuel passage, force transmitting means connected to the fuel valve and extending through said fuel and air passages, pressure responsive means in said air pressure chamber operably connected with the force transmitting means and tending to increase the opening of the fuel valve on increase of air flow through said venturi, a restriction in said fuel passage, pressure responsive means operably connected with the force transmitting means responsive to pressure differential induced by fuel flow past said restriction and tending to decrease the opening of the fuel valve on increase of fuel flow past said restriction, spring means connected with said force transmitting means tending to close said fuel valve, a conduit connecting said air pressure chamber with the air inlet tube downstream of the main throttle valve to reduce the pressure in said chamber for idling and adjustable valve means for controlling air flow through said conduit.

2,316,328
SIDE POCKET FOR BRIEF CASES AND THE LIKE
Henry J. Guenther and George G. Guenther, New York, N. Y.
Application June 4, 1941, Serial No. 396,552
3 Claims. (Cl. 150—1.6)



1. A brief case having a pair of adjacent walls pivotally connected together at their bottom edges and having expandable gussets between their side edge portions forming a pocket, each gusset having one of its edge portions securely attached to the side edge portion of one of said walls and its free end laced through certain of a plurality of slots formed in the other of said walls, and means attaching the free edge of each of said gussets to its respective attached end after being passed through said slots for drawing said pocket into a partially closed position.

2,316,329
SUBSURFACE PROSPECTING
Donald G. C. Hare, Houston, Tex., assignor to Texaco Development Corporation, New York, N. Y., a corporation of Delaware
Application June 18, 1940, Serial No. 341,102
4 Claims. (Cl. 250—83.6)



1. In the process of investigating the forma-

tions surrounding a bore hole in which a source of neutrons is passed through the hole, the neutrons penetrating the formations and certain of these neutrons being scattered in the formations, slowed down and returned to a detector disposed near the source, the method of increasing the number, energy and speed of the neutrons entering the formations which comprises mixing with the material comprising the source of neutrons a substance in which nuclear fission can be produced with attendant liberation of neutrons so that due to the bombardment of said substance by the neutrons from said source nuclear fissions will take place whereby the neutrons leaving the mixture will be greater in number and will have a higher energy and speed than would be the case if the neutron source alone were used.

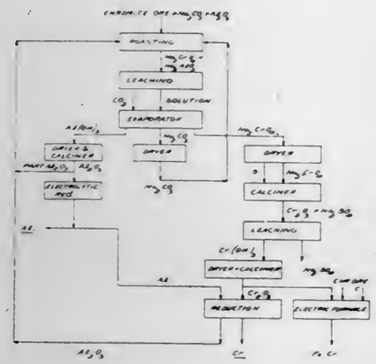
2,316,330

PROCESS OF TREATING CHROMITE ORES, PARTICULARLY MASINLOC ORE TO OBTAIN THEREFROM ALUMINUM, CHROMIUM, AND OTHER PRODUCTS

Eugene M. Hawk, deceased, late of Manila, P. I., by Luz M. Hawk, administratrix, Manila, P. I.; vested in the Alien Property Custodian

Application March 17, 1941, Serial No. 383,888

5 Claims. (Cl. 75—21)



1. The process of treating chromite ore containing a very substantial amount of alumina in a continuous cycle, for the production of carbon free chromium, and metallic aluminum, comprising mixing a batch of the crushed chromite ore with aluminum oxide and sodium carbonate, roasting the mixture until the following reactions are obtained:

$$4FeCr_2O_4+8Na_2CO_3+7O_2=$$
$$2Fe_2O_3+8Na_2CrO_4+8CO_2$$
$$Al_2O_3+3Na_2CO_3=2Na_3AlO_3+3CO_2$$

leaching the roasted product to extract the soluble sodium chromate and sodium aluminate, converting the sodium chromate to chromic oxide, converting the soluble sodium aluminate to aluminum oxide, converting at least a part of the aluminum oxide to metallic aluminum, and using a portion of said metallic aluminum for the reduction of said chromic oxide recovered from the sodium chromate solution to convert the same in the reaction to aluminum oxide, and using the latter as the added aluminum oxide with a new batch of the chromite ore.

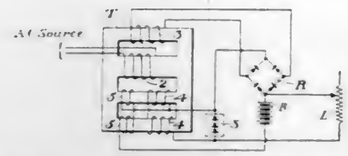
2,316,331

VOLTAGE REGULATING APPARATUS

Linnie K. Hedding, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application June 7, 1941, Serial No. 397,067

8 Claims. (Cl. 175—363)



1. Voltage regulating apparatus comprising, in combination with a source of alternating current, a saturable reactance device, a rectifier receiving energy from said source through said reactance device, a saturation winding on said device, a load receiving current from said rectifier through said saturation winding, an increase in the load current through said saturation winding causing an increase in the energy received by said rectifier from said source, a battery connected with the output circuit of said rectifier, a control winding on said reactance device connected in series with said battery and wound in a direction to aid said saturation winding when the battery is supplying current, and a shunt around said saturation winding having a negative resistance-voltage characteristic, the parts being so proportioned that when the current taken by the load exceeds a predetermined value said shunt will decrease the effectiveness of said saturation winding so as to cause said battery to share in supplying current to said load.

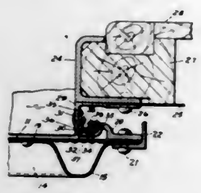
2,316,332

SLIDING CAR DOOR

Harold H. Henricks, Youngstown, Ohio, assignor to The Youngstown Steel Door Company, Cleveland, Ohio, a corporation of Ohio

Application October 11, 1940, Serial No. 360,781

2 Claims. (Cl. 20—26)



1. In a railway house car having a wall embodying a door opening and an outwardly directed vertical member adjacent to said door opening, a flange extending rearwardly from said member in spaced relationship to said wall, a leg on said flange directed toward said wall, a flexible weatherstrip, said weatherstrip having a marginal edge secured to said flange and a marginal edge extending beyond said leg toward said wall, and a longitudinally sliding door mounted on said car, said door having a vertical sealing strip engaging said leg and said latter marginal edge of said weatherstrip in the final longitudinal closing movement of said door, said sealing strip freely bending the engaged marginal edge of said weatherstrip, for the purpose set forth.

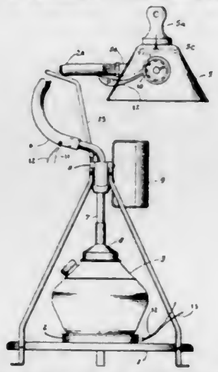
2,316,333

APPLICATOR AND BOILER FOR THERMAL-VAPOR TREATMENT OF CONGESTIONS IN THE HUMAN BODY

William E. Hillebrand, Louisville, Ky., assignor to Vapo-Therm Process Company, Louisville, Ky., a corporation of Kentucky

Application July 19, 1940, Serial No. 346,440

3 Claims. (Cl. 4—165)



1. In a portable apparatus designed for the thermal vapor treatment of congestions in various individual parts of the human body, as described, the combination of a rigid tripod provided with a hexagonal block fastened in the upper part thereof and with a broad horizontal shelf fastened to the tripod-legs near the bottom thereof; means for generating the thermal vapor for said treatment, comprising an electric heater on said shelf, with its electric supply-wires coming from a source of electricity; a circular glass bottle mounted on said heater and partly filled with water; a tubular metal cap screwed on the top of said bottle; means for efficiently supplying said thermal vapor for said congested parts, comprising an angular metal tube running down through said hexagonal block and connecting with said tubular metal cap in a sliding vapor-proof joint; a long flexible rubber-tube connected to the upper end of said angular metal tube, and encasing said electric supply-wires from said heater; and a soft rubber-applicator of conical shape attached in a vapor-proof joint to the outer end of said long flexible rubber-tube.

2,316,334

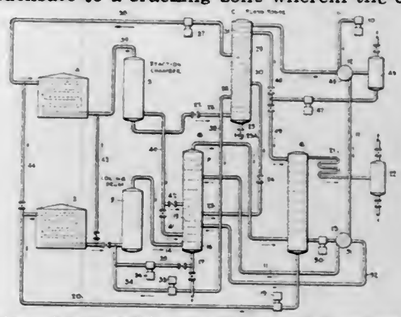
CRACKING HYDROCARBON OILS

Joel H. Hirsch, Wichita, Kans., assignor to de Florez Engineering Co., Inc., Hartford, Conn., a corporation of Connecticut

Application March 25, 1941, Serial No. 385,084

6 Claims. (Cl. 196—49)

2. In the conversion of hydrocarbon oils the process that comprises subjecting vapors evolved in a coking operation to dephlegmation in a dephlegmating zone with crude oil residual stock, subjecting the dephlegmated vapors to fractionation to form a reflux condensate, passing said reflux condensate to a heating coil wherein the oil is heated to a cracking temperature, passing a resultant mixture of reflux condensate and unvaporized residual stock from said dephlegmating zone to a flash dephlegmating zone wherein the mixture is subjected to stripping, combining the resultant stripped mixture with heated products from said heating coil and subjecting the admixed products to coking in a coking zone, passing evolved vapors from the coking zone to the aforesaid dephlegmating zone, subjecting vapors from said flash dephlegmating zone to fractionation to form a reflux condensate, directing the latter reflux condensate to a cracking zone wherein the oil is



subjected to cracking conditions of temperature and pressure, separating resultant cracked products into vapors and liquid residue, passing the separated vapors to said dephlegmating zone, flashing said liquid residue and passing resultant flashed vapors to said flash dephlegmating zone.

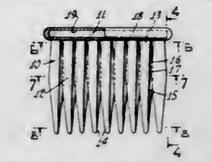
2,316,335

COMB

William Huppert, New York, N. Y., assignor to Delamere Company, Inc., a corporation of Delaware

Application April 18, 1942, Serial No. 439,527

5 Claims. (Cl. 132—21)



1. A hair retaining comb comprising a plurality of teeth having lapped lateral edge portions, a rib formed integral with and connecting the upper ends of the teeth, and a separate bar permanently secured to the rib to hold the teeth in lapped position.

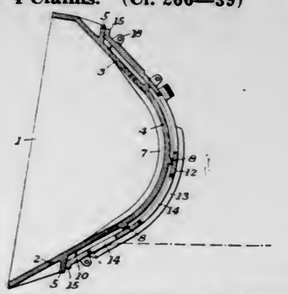
2,316,336

END DUMP CINDER POT

William Johnston, Jr., Wilkinsburg, Pa.

Application August 27, 1941, Serial No. 408,471

4 Claims. (Cl. 266—39)



1. In an end-dump cinder pot assembly organized to rock to dumping position on the surface of supporting structure, a cinder pot and an upwardly open cinder-pot-receiving and sup-

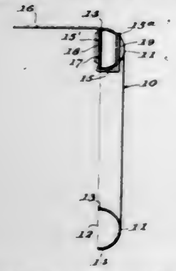
porting cradle having a curved rocking bottom surrounding the lower region of the cinder pot, the cinder pot having structure peripherally projecting part way the height of the cinder pot walls, and overlying and resting upon the top edge of the cradle for supporting the cinder pot in the cradle.

2,316,337

DRAPERY FESTOON RING

William C. Kenney, Cranston, R. I., assignor to Kenney Manufacturing Company, Cranston, R. I., a corporation of Rhode Island

Application December 29, 1941, Serial No. 424,767
11 Claims. (Cl. 160—330)



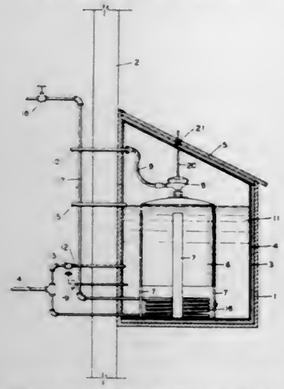
1. A festoon ring for use with a bracket having a pair of spaced ring-engaging portions to straddle said ring, said ring containing on one face thereof a resilient tab to be engaged by one of the ring-engaging portions of the bracket.

2,316,338

DISPENSING SYSTEM

Arthur N. Kerr, Los Angeles, Calif., assignor to Phillips Petroleum Company, a corporation of Delaware

Application July 20, 1940, Serial No. 346,632
4 Claims. (Cl. 62—1)



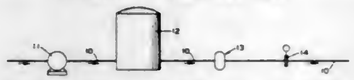
1. In a liquefied gas dispensing system, a protective housing adapted to contain water, a liquefied gas container in the protective housing, means for withdrawing gas from the liquefied gas container, means for supplying water to the protective housing in heat exchange relation with the liquefied gas container, a secondary heating means in heat exchange relation with the water in the protective housing, means for supplying water to said secondary heating means, and means for controlling the supply of water to the protective housing in accordance with changes in temperature of the water in the protective housing.

2,316,339

SURGE SUPPRESSION

William L. Kitsman, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application December 17, 1940, Serial No. 370,561
2 Claims. (Cl. 138—26)



1. In a fluid transportation system wherein a pump transmits fluid into a conduit in surges, the improvement comprising a fluid motor in the conduit downstream of the pump, rotary means within the motor actuated by the pressure of the fluid flowing in the conduit, and inertia means connected directly to the rotary means of the fluid motor and rotatable therewith, said inertia means being of sufficient mass to store energy to resist fluid surges in the conduit when said fluid surges occur.

2,316,340

IONOGRAPH TAPE

Earl J. Kohn, Columbus, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application November 23, 1940, Serial No. 366,862
14 Claims. (Cl. 204—2)

1. The process of preparing a transparent electrochemical recording sheet material, which comprises immersing regenerated cellulose sheet in an aqueous solution containing 0.1% to 1% rubianic acid, maintaining the solution at a temperature in the range 85° C. to boiling until impregnation has taken place to the extent that the subsequently dried film will contain between 0.3% and 3% rubianic acid, and thereafter removing and drying the impregnated sheet material.

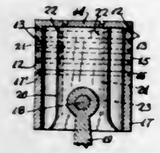
2. A transparent electrochemical recording tape, comprising a regenerated cellulose ribbon having incorporated therein between 0.3% and 3% rubianic acid to enable the tape to be used for recording without wetting with water preliminary to recording, said tape being free from surface bloom of rubianic acid.

2,316,341

QUICK RERING PISTON

Herman Kopp, Bronx, N. Y.

Application November 15, 1941, Serial No. 419,231
3 Claims. (Cl. 309—15)



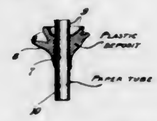
1. A quick re-ring piston, comprising a cylindrical head member circumferentially grooved for the piston rings and having integral top wall and skirt wall portions, a hollow cylindrical base member for the usual wrist pin and connecting rod, and fastening elements mounted through said top wall and connected with said base member for releasably connecting said members together, and means for wedging said fastening elements against said head member, said means comprising cams eccentrically mounted on said fastening elements and adapted to be engaged against portions of said head member.

2,316,342

CAKE CANDLE HOLDER

Anthony W. Krieg, Brooklyn, N. Y., assignor to Cypress Novelty Corporation, Brooklyn, N. Y., a corporation of New York

Application April 28, 1942, Serial No. 440,810
3 Claims. (Cl. 67—23)



2. A candle holder comprising a central resilient artificial straw and a plastic ornamental body deposited upon and secured to the straw, the upper end of the straw constituting a resilient socket for receiving a candle, said body flaring outwardly from the straw, and the lower end of the straw constituting a stem for insertion into the top of a cake.

2,316,343

MANUFACTURE OF CALCIUM SULPHATE

Paul Kubelka, Prague-Orechovka, and Ernst Reiner, Prague-Dejvice, Czechoslovakia; vested in the Alien Property Custodian

No Drawing. Application December 19, 1938, Serial No. 246,756. In Czechoslovakia December 29, 1937
6 Claims. (Cl. 23—122)

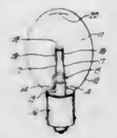
1. A method of purifying calcium sulphate consisting in treating impure calcium sulphate in an electrolyte solution in the presence of insoluble anhydrite at an increased temperature, about 80° C. until the calcium sulphate is almost completely transformed into insoluble anhydrite, then cooling the electrolyte solution to about 40° C. and leaving it undisturbed for a substantial time under such conditions that relatively coarse crystals of dihydrate of calcium sulphate have been formed, and separating said crystals from the impurities present in solid form and in solution.

2,316,344

FLASH LAMP

Eugene Lemmers, Cleveland Heights, Ohio, assignor to General Electric Company, a corporation of New York

Application January 21, 1942, Serial No. 427,598
7 Claims. (Cl. 67—31)



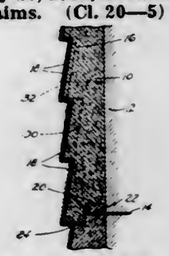
2. In a flash lamp comprising a sealed bulb at least a substantial portion of which is free of metallic conductor material, said bulb containing a gaseous filling and a quantity of fulminating material, means for facilitating the initiation of a high frequency discharge within the bulb at a point remote from said fulminating material and between two spaced points on the wall of the said bulb portion, said means comprising a metallic conductor extending between but terminating short of at least one of the said spaced points of the bulb wall to thereby shorten the discharge gap within said bulb.

2,316,345

OUTSIDE COVERING FOR BUILDINGS

John Logan, Jr., Chicago, Ill.

Application July 27, 1939, Serial No. 286,735
5 Claims. (Cl. 20—5)



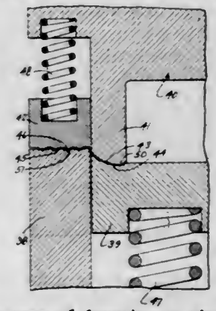
1. An outer covering for buildings comprising, in combination: a porous felted base having one plane face; the opposite face being felted into a plurality of inclined lands; the lower edges of said lands lying substantially in a plane parallel to said plane face; each land, above its lower edge, sloping slightly toward said plane face to define a tapered space with its thinner portion uppermost; each of said lands having an extension extending up past the lower edges of adjacent lands whose lower edges are at a higher level; whereby in horizontal section said base has alternating portions of different thickness, with laterally facing shoulders defining the discontinuities between thick and thin portions; the shape and spacing of said extensions being such as to cause the combined surface presented to simulate the contour of a roof made up of individual hexagonal shingle pieces laid in overlapping relationship; a coating of waterproof asphaltic material overlying the entirety of the irregular surface of said base and bonded thereto by penetration of said coating into the interstices of said base; said coating presenting an irregular outer surface in which the irregularities approximately duplicate those in the irregular base surface; and a surfacing of granular material held in place by at least partial embedment of the granules in said coating, whereby said surfacing also approximately duplicates the surface irregularities of the original base.

2,316,346

METHOD OF MAKING WHEEL TRIM

George Albert Lyon, Allenhurst, N. J.

Application January 20, 1940, Serial No. 314,818
2 Claims. (Cl. 29—159)



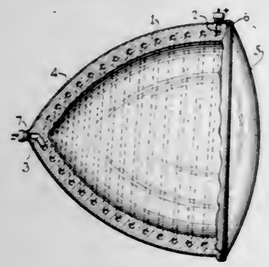
1. In a process of forming a ring having tensioned spaced peripheral fingers, the steps comprising blanking the ring including an annular body with spaced outer peripheral projections from a flat metallic sheet, pressing and gripping said projections in a corrugating die press part,

drawing the ring body while said projections are held by said die press part to form the ring into predetermined curved cross sectional shape, and continuing the pressing operation to pull and bend said projections out of said die press part into angular relationship thereto so as to cold work the projections.

2,316,347
STEAM CYLINDER OIL
Frederick H. MacLaren, Calumet City, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
No Drawing. Application June 27, 1940, Serial No. 342,683
14 Claims. (Cl. 252—56)

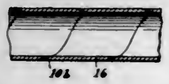
1. A cylinder oil comprising a major proportion of a heavy lubricating oil, small amounts of a fatty oil, and a drop size reducing agent, and at least about 15% of an isobutylene polymer having a molecular weight within the range of from about 1,000 to 1,500.

2,316,348
LAMP
Gustave Mahlck, East Orange, N. J.
Application October 19, 1940, Serial No. 361,818
1 Claim. (Cl. 176—14)



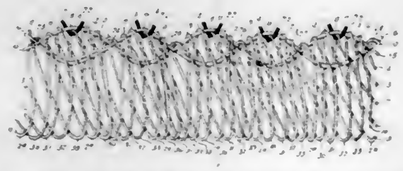
As a lamp structure, in combination: a hollow body of transparent dielectric material in the form of a parabola, a helical passage formed in the body beginning adjacent the opening of the parabolic body and terminating adjacent the apex, and a reflector formed on the outside surface of the parabolic body with the reflecting surface inward.

2,316,349
HOLLOW TUBULAR MEMBER
Wiley W. McMinn, Orange, N. J.
Original application October 30, 1937, Serial No. 172,053, now Patent No. 2,237,309, dated April 8, 1941. Divided and this application December 22, 1939, Serial No. 310,563
2 Claims. (Cl. 138—73)



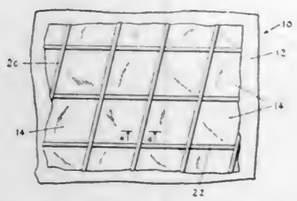
1. As a new article of manufacture, a hollow tubular metal member consisting of a strip of ductile ferrous metal wound into a series of spiral convolutions providing an axially straight walled member having a spiral scarf lap-joint seam between said convolutions forming an article having substantially uniform wall thickness, the walls of said seam being joined by the fusion therewith of a film of cuprous bonding metal having a lower melting point and substantially less tensile strength than the metal of the strip and the joint produced by such fusion constituting the sole structural connection between the adjacent convolutions, said hollow member having tensile strength at least as great as that of the strip material and having ductility enabling the member to be cold worked, without rupturing the seam, to an extent causing substantial plastic flow of the metal at the seam.

2,316,350
FRINGE
Hugo Mehler, Churchville, Pa.
Application April 6, 1940, Serial No. 328,223
1 Claim. (Cl. 28—78)



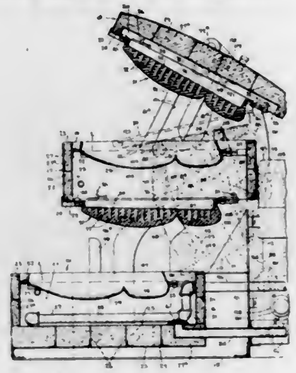
A fringe of the character described comprising a base formed of a plurality of threads twisted together, a plurality of fringe threads wrapped around said base and being mutually interlaced between intersecting points of the threads forming said base and providing a plurality of relatively tight securing bights at spaced points along the linear extent of said base and providing outstanding fringe bights between said points.

2,316,351
ORNAMENTAL SHEET LEATHER
Michael A. Miller, New York, N. Y.
Application December 10, 1940, Serial No. 369,415
4 Claims. (Cl. 41—34)



1. Ornamental sheet material comprising a backing or lining layer, an outer layer carried by said backing layer, said outer layer comprising a plurality of pieces of leather arranged in edge to edge relation on said backing layer in face to face relation therewith and secured in said relation by lines of stitching disposed adjacent the edges of said leather pieces, a plurality of narrow folded strips of leather extending longitudinally of and covering the adjacent marginal edge portions of said leather pieces along the lines therebetween, respectively, and lines of stitching passing through the bottom layers of said folded strips, respectively, and through the adjacent pieces of leather at one side of each of said lines, respectively, and concealed by their respective outer layers for securing said tubular strips in position, said strips overlapping the marginal edge portions of adjacent leather pieces at both sides of said lines.

2,316,352
VULCANIZING PRESS
Rupert G. Minns and Henning T. Tornberg, Akron, Ohio, assignors to National Rubber Machinery Company, Akron, Ohio, a corporation of Ohio
Application July 29, 1939, Serial No. 287,294
11 Claims. (Cl. 18—17)

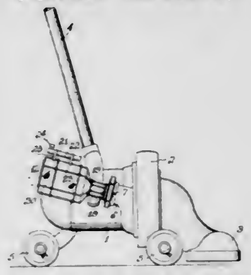


1. A press of the class described, comprising a plurality of members relatively movable into registry with each other, said members having recesses therein to form a closed chamber when the members are in registry, mating mold sections, means for supporting said mold sections on said members to be in mating relation within said chamber when closed, and releasable means for securing said sections against pivotal movement on said members, said releasable means being releasable to permit swinging said pivoted sections outwardly of the supporting members thereof when the press is open.

2. A press of the class described comprising a plurality of relatively movable press members adapted to be in superposed registering relation when the press is closed, said members being recessed to form a single closed chamber in the closed position thereof for containing fluid heating medium, a series of mating upper and lower mold sections mounted on said members to provide a plurality of superposed article-forming molds within said closed chamber, means for supporting said members to be relatively movable between said closed position of the press and in open position thereof in which all said members are in vertically spaced and substantially transversely-stepped relation, said stepped relation of the members facilitating pouring article-forming material into said lower mold sections, means for moving said supporting means to open and close the press, and means for maintaining said lower mold sections substantially horizontal in all positions of said members for preventing spilling of article-forming material therein.

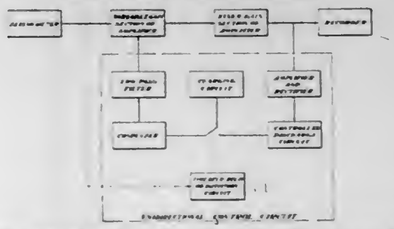
11. A vulcanizing press of the class described comprising a relatively fixed lower mold member and relatively movable upper and intermediate mold members arranged to be in superposed registering relation when the press is closed, a relatively fixed support rearwardly of said mold members, an arm member pivoted on said fixed support, a link element pivotally depending from the free end of said arm and pivotally connected at its lower end to said upper mold member to support the same, another arm member pivoted on said fixed support, a link element pivotally depending from said other arm and pivotally connected at its lower end to said intermediate mold member, a link element pivotally connected at opposite ends to said arm members, said arm members being shiftable on the fixed pivots thereof to swing said movable mold members in separate upwardly and rearwardly extending arcs about the fixed pivots of the arm members, power means for moving said arm members, said arm members being proportioned and arranged with respect to each other to swing said movable members in said separate arcs from said closed positions thereof to positions in which all of the mold members are in vertically spaced, substantially rearwardly stepped relation, and cooperating guide means on said relatively movable mold members operable when the same are between intermediate and closed positions for maintaining the upper mold member in parallelism with the intermediate mold member.

2,316,353
DUST BAG ATTACHMENT FOR SUCTION CLEANERS
Charles L. Moorhead, Lakewood, Ohio
Application March 24, 1941, Serial No. 384,975
6 Claims. (Cl. 183—9)



1. A bag holder for cleaning machines comprising a skeleton frame adapted to contain a bag and made in separable sections, means for holding the sections of the holder together to maintain them in bag holding condition, means for attaching the holder to the discharge neck of a cleaning machine, a receptacle for water, chemical solution, or the like having apertures to supply the solution to the bag, and means for attaching the receptacle to the holder.

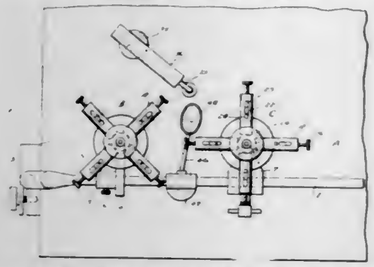
2,316,354
GAIN CONTROL
Burt E. Moritz, Jr., Houston, Tex., assignor to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware
Application January 18, 1940, Serial No. 314,503
8 Claims. (Cl. 177—352)



5. Apparatus for seismic surveying comprising means for generating seismic waves, a seismometer, an amplifier associated with said seismometer, said amplified including a variable gain section, a recorder actuated by said seismometer through said amplifier, means for changing the gain of said variable gain section of said amplifier

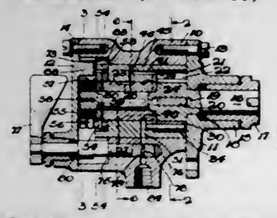
solely in the direction of increasing gain, means responsive to the average amplitude of the signals passing the output of said amplifier for varying the rate of change of said variation in gain, and means responsive to the operation of said first-mentioned means and operative a predetermined time after the operation of said first-mentioned means for initiating the action of said last-mentioned means at a time interval after the arrival of the first of said signals at said amplifier.

2,316,355
CLAMPING APPARATUS FOR OPTICAL FRAMES
Charles H. Nesbit, Harvey, N. Dak.
Application September 24, 1941, Serial No. 412,169
3 Claims. (Cl. 113—104)



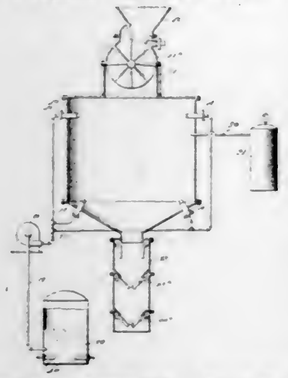
1. In a device of the class described, a turret including a base, a pair of plate-like members pivotally connected with the base at their inner ends, a cylinder slidably arranged on each plate-like member, a stationary jaw on the top of each cylinder, a piston in each cylinder and the top of the cylinder having a slot therein, a movable jaw carried by the piston and passing through the slot for cooperating with the stationary jaw, spring means for moving the piston in one direction and a screw for moving the piston in an opposite direction.

2,316,356
FLUID MOTOR
Henry C. Nette, Rutherford, and Myron L. Taylor, West Englewood, N. J., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application June 6, 1941, Serial No. 396,918
6 Claims. (Cl. 121—99)



1. A hydraulic motor of the oscillatory type having a shaft driven by fluid under pressure, a cylindrical chamber coaxially about said shaft, a vane rotatably carried on said shaft and in sealing engagement with the inner surface of said chamber, said chamber having a wall at each end thereof, said shaft carrying one end of each of two oppositely loaded spiral springs, a sleeve member about said shaft on one end thereof adjacent said chamber, means cooperating with said shaft for dividing said chamber into two cells, two fluid ports, on opposite sides of said vane in each of said cells, fluid passageways leading from said ports to said sleeve member, channel members in said sleeve member for selectively directing fluid into one and out of the other of said ports in each cell, a disc member carried by said shaft, said disc member having serrations formed in its periphery, two cam members having serrations mounted upon the serrations of said disc member, a plate member carried by said sleeve and rotatable therewith, means carried on said plate member for anchoring thereto the outer ends of said spiral springs and spring-urged detent means for permitting one of said spiral springs to become loaded upon rotation of said shaft in one direction, said detent means being released by one of said cam members to cause said spring to rotate said sleeve member and reverse the direction of fluid flow through said cells, additional detent means for permitting the other of said spiral springs to become loaded during rotation of said shaft in an opposite direction, said additional detent means being released by the other of said cam members to rotate said sleeve to reverse the direction of fluid flow through said cells, the angle of rotation of said shaft being determined by the angular separation of said cam members.

2,316,357
METHOD OF PREPARING BITUMINOUS COATING MIXTURES
Ernest H. Nichols, Hagerstown, Md.
Application August 9, 1938, Serial No. 223,999
3 Claims. (Cl. 106—281)

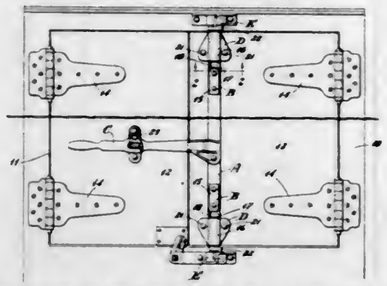


2. A method of distributing throughout a bituminous coating mixture comprising asphalt and a filler of finely powdered slate, an agent for retarding deterioration of the asphalt, consisting of heating the retarding agent, coating the slate particles with the heated retarding agent, heating the asphalt to render the same sufficiently fluid to mix thoroughly with the coated slate particles, and subsequently mixing said particles throughout the asphalt.

2,316,358
FLASH POWDER AND METHOD OF PREPARATION
Clifford A. Nickle, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
No Drawing. Application August 2, 1940, Serial No. 350,081
5 Claims. (Cl. 52—24)

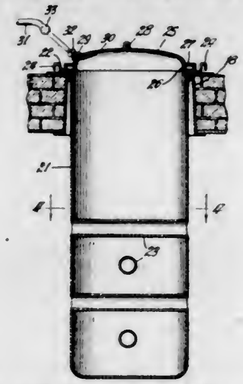
1. A flash powder comprising a thoroughly ball milled mixture of sodium nitrate and magnesium powder having a fineness of the order of 100 mesh in the proportions of approximately 1 part by weight of sodium nitrate to between ½ to 1½ parts by weight of magnesium, said mixture being intimately admixed, by shaking, with additional magnesium powder having a fineness of the order of 100 mesh in an amount approximating twice that of the magnesium content of said ball milled mixture.

2,316,359
DOOR FASTENER
Roland J. Olander, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application December 26, 1940, Serial No. 371,713
1 Claim. (Cl. 292—218)



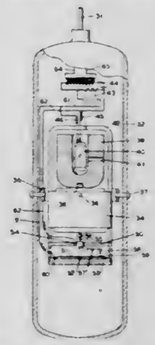
In a fastener for hinged doors, comprising a rotary operating bar mounted on the door and having keeper engaging means cooperating with fixed keepers, the combination with an outwardly projecting stop lug on said bar; of a two-part bearing bracket in which the bar is rotatably mounted, said two-part bracket comprising a back plate and a strap overlying said plate, said strap and plate embracing the bar from opposite sides and having bearing portions surrounding said bar, said plate having an outstanding tongue in the path of rotation of said lug for arresting rotary movement of the bar.

2,316,360
GARBAGE RETORT RECEPTACLE AND GARBAGE DISPOSAL SYSTEM
Thomas F. O'Shea, Chicago, Ill.
Application April 21, 1941, Serial No. 389,629
2 Claims. (Cl. 202—114)



1. In an apparatus for waste disposal including a distillation furnace, a relatively large combustion chamber defined by a bottom side wall and substantially flat top wall; upwardly extending heat-resistant baffles in said furnace; said top wall of said furnace being provided with a plurality of spaced apart annular openings; metal mounting collars mounted in said top wall and defining said spaced apart openings respectively; a plurality of substantially cylindrical retort receptacles removably mounted in said top wall openings, each of said retort receptacles having a peripheral supporting flange on their upper ends; adapted to cooperate with said collars whereby to support each retort with its major portion projecting through its corresponding opening in the top wall of the furnace; a plurality of transversely extending conduit pipes connected to and opening exteriorly of the walls of each retort receptacle respectively; removable covers on said receptacles, each of said covers having an outlet port therein, an outlet header mounted adjacent said furnace; a plurality of outlet pipes header to permit swinging movement thereof; and outlet pipes being movable with respect to said header to permit swinging movement thereof; and a nozzle movably connected on the end of each of said outlet pipes and communicating therewith, said nozzles being removably mountable in said retort cover ports, said header, outlet pipes and nozzles providing means for leading off volatile matter of distillation.

2,316,361
METHOD AND APPARATUS FOR SURVEYING WELLS
Raymond G. Piety, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application March 17, 1941, Serial No. 383,818
16 Claims. (Cl. 250—83.6)

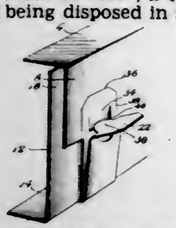


1. The method of determining the distribution of radioactive materials in the earth surrounding a bore hole comprising placing in the bore hole a directional detector responsive to radioactive radiations, and observing the direction and response of said detector with respect to a reference point on a magnetic compass.

2,316,362
PAPER BOX
George Vaughn Poe, Memphis, Tenn., assignor to Memphis Paper Company, Memphis, Tenn.
Application October 22, 1942, Serial No. 463,008
11 Claims. (Cl. 229—45)

1. In a box including a tray member, and a lid member having adjacent side walls vertically telescoping with one another, a vertically disposed tongue struck from a side wall of one member and having a free end disposed in one direction,

the tongue being adapted to overlie the adjacent side wall of the other member, a tab struck from said tongue and being disposed in a direction op-



posite from said one direction, the other member having a first slot in the side wall thereof for receiving said tongue, and a second slot for receiving said tab.

2,316,363

SHOE QUARTER AND METHOD OF FORMING SAME

Edward Quinn, Saugus, and Adrien L. Jalbert, Haverhill, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application June 16, 1941, Serial No. 398,280

10 Claims. (Cl. 12—146)



1. The method of forming two-part shoe quarters which comprises forming a groove in the flesh side of each part inwardly of but near the edge to be joined and extending substantially parallel thereto, securing the parts together in back-to-back relation by a line of stitching passing through portions of the quarter of full thickness outwardly of and along the outer edges of the grooves, turning the quarter right side out, and laying back the extensions of the seam thus formed.

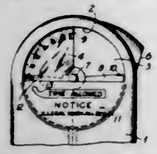
2,316,364

TIMING DEVICE

Marcus H. Rhodes, Hartford, Conn., assignor to M. H. Rhodes, Inc., Hartford, Conn., a corporation of Delaware

Application November 4, 1940, Serial No. 364,238

11 Claims. (Cl. 161—15)



4. A timing device comprising timing means, a first scale actuated by said timing means over a predetermined period of time, and a second scale actuated by said first scale only at the conclusion of said predetermined period for indicating the passage of an additional period of time.

2,316,365

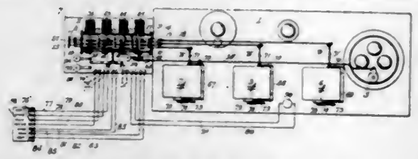
CONTROL MEANS FOR RADIO APPARATUS

Percy F. Rice, Tustin, Calif., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware

Application February 19, 1925, Serial No. 10,190

59 Claims. (Cl. 250—40)

1. In combination with an adjustably shiftable tuning means of a radio apparatus, a manually operable member and means actuated in response to the operation of said member for selectively shifting the tuning means for effecting a selected



frequency setting of the tuning means and for automatically controlling a circuit part of the radio apparatus.

2,316,366

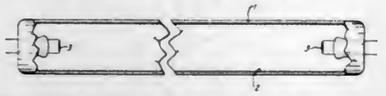
FLUORESCENT MATERIAL

Alfred Rüttenauer and Otto Fritze, Berlin-Wilmersdorf, Germany, assignors to General Electric Company, a corporation of New York

Application January 21, 1941, Serial No. 375,354

In Germany February 14, 1940

4 Claims. (Cl. 176—122)



3. In combination, a mercury vapor electric discharge lamp containing an internal coating of a heat treated fluorescent borate of cadmium containing in chemical combination therewith from 0.01 to 1 per cent of a metal taken from the group consisting of zinc, magnesium and calcium, the said borate having substantially greater lumen maintenance and stability under the mercury vapor radiations than a similar borate devoid of said metal.

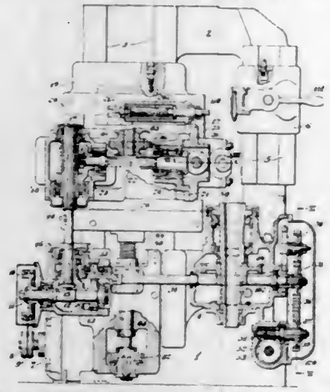
2,316,367

HOBBING MACHINE

Charles H. Schurr and Homer C. Warner, Cleveland, Ohio, assignors to The Lees-Bradner Company, Cleveland, Ohio, a corporation of Ohio

Application August 4, 1934, Serial No. 738,464

9 Claims. (Cl. 90—4)



1. A machine tool comprising a work spindle and a tool spindle, positive gearing between said spindles, a differential in said gearing, means for feeding said tool and work spindles relative each other, gearing connected to said first mentioned gearing and to said feed means and including a differential, a source of power connected to said first mentioned gearing, connections between said feed means and said first mentioned differential, and a second source of power connected to one element of said second mentioned differential.

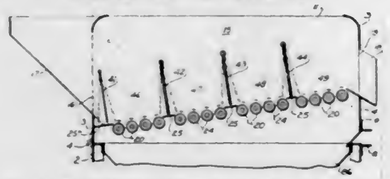
2,316,368

VEGETABLE PEELING MACHINE

Neal S. Sells, Hoopeston, Ill., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware

Application August 8, 1939, Serial No. 288,966

16 Claims. (Cl. 146—49)



1. In a vegetable peeling machine a longitudinally extending treating compartment, a series of peeling elements within the treating compartment positioned adjacent each other forming a continuous treating bed for supporting vegetables thereon, means for supplying vegetables to the peeling elements within said compartment, discharge means on said treating compartment for discharging vegetables therefrom, means for rotating the peeling elements in a common direction for advancing a mass of vegetables from the supply means to said discharge means and for rotating the component parts of said mass in frictional contact with said peeling elements, a plurality of adjustable partitions pivotally mounted within the treating compartment above the peeling elements in close proximity to the same and extending in a direction of the longitudinal axes of the peeling elements transversely of said treating compartment for changing the direction of travel of the vegetables therethrough, means for swinging the partitions transversely with respect to said peeling elements for effecting rotation of the mass of vegetables traveling between said partitions and for promoting the advancement thereof parallel to said peeling elements, and means for adjusting the transverse extension of the partitions with respect to the treating compartment for controlling the advancement of the vegetables through the same.

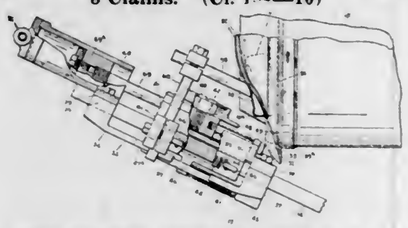
2,316,369

TIRE-BUILDING APPARATUS

Florain J. Shook, Akron, Ohio, assignor to National Rubber Machinery Company, Akron, Ohio, a corporation of Ohio

Application January 18, 1939, Serial No. 251,494

8 Claims. (Cl. 154—10)



1. Tire-building apparatus comprising a rotatable tire-building drum, a tire-building tool support associated with the tire-building drum, a member shiftably mounted on said support, an element shiftably mounted on said member, tire-building tools on said member and on said element, means including a stop member on said support for limiting shifting movement of said member thereon, means for limiting the relative movement of said member and said element, yielding means for retaining said member and said element against relative movement, and means for urging said member and said element toward said drum until said member engages said stop member, thereby initially to move the tool on said member into tire-working engagement with a tire being built on said drum, whereby continued movement of said urging means yieldably moves said element relatively of said member to urge said tool on said element into tire-building engagement with said tire being built on said drum.

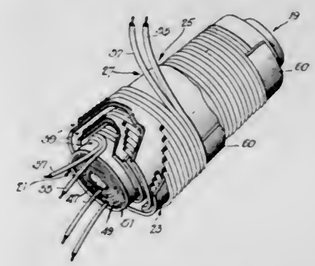
2,316,370

TRANSFORMER

John S. Smith, Hazel Crest, and Floyd Dawson, Chicago Heights, Ill., assignors to David L. Tressler, as trustee

Application January 5, 1940, Serial No. 312,482

1 Claim. (Cl. 175—356)



A transformer comprising a winding and a plurality of separate coils inductively coupled with said winding, said coils comprising separate conductors arranged in parallel side-by-side relationship and disposed in turns inductively coupled with the winding, whereby the inductive relationship between the winding and one coil is substantially identical to the inductive relationship between the winding and another coil, the turns of one coil being interspersed between the turns of another coil, the turns of said coils being arranged in concentric layers.

2,316,371

PLASTIC COMPOSITIONS

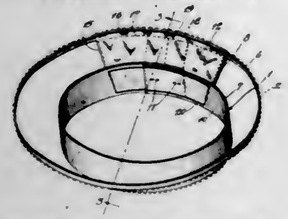
Corneille O. Strother, Buffalo, N. Y., assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York

No Drawing. Application November 21, 1939, Serial No. 305,451

10 Claims. (Cl. 260—86)

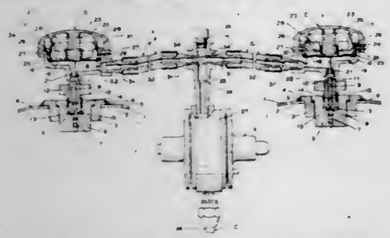
1. Normally solid, thermoplastic composition capable of fusing under heat comprising a heat-fusible, normally solid, thermoplastic, artificial resinous body intimately mixed with a fusion-temperature-lowering agent of the group consisting of pyrones and pyrononeS; both said composition and said resinous body being normally of substantially the same hardness, and said composition fusing at a lower temperature than said body.

2,316,372
UNIFORM CAP WASHING AND DRYING FORM
Samuel Sugar, Chicago, Ill.
Application April 22, 1942, Serial No. 439,972
4 Claims. (Cl. 223—24)



1. A removable form for uniform cap covers comprising a flat, narrow, flexible spring ring of circumference corresponding to the inside circumference of the crown or top portion of a cap cover, a stiff band or frame of a width and circumference corresponding to the width and interior circumference of a cap-cover band, and a stiffened member connecting the wide band and the narrow spring ring for insertion of the band and ring as a unit into a cap cover to hold the cap band and cap crown or top portion smooth during washing and drying, and removal as a unit, said stiffened member maintaining the band and ring in predetermined spaced relation.

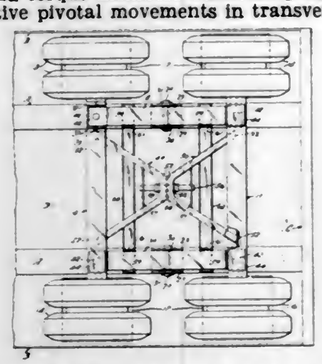
2,316,373
AUTOMATIC CHANGE-OVER REGULATOR FOR LIQUEFIED PETROLEUM GAS EQUIPMENT
Rosswell W. Thomas, Birmingham, Mich., assignor to Phillips Petroleum Company, a corporation of Delaware
Application June 29, 1939, Serial No. 281,969
21 Claims. (Cl. 62—1)



1. In a system for storing and utilizing high pressure gas the combination comprising, a plurality of containers for the gas, a service line, a conduit connecting each container to the service line, a gas pressure regulator interposed in each conduit at the container end of the conduit, each gas pressure regulator having an external adjustment member for governing the outlet pressure of the same, the member having limited movement between two extreme positions.

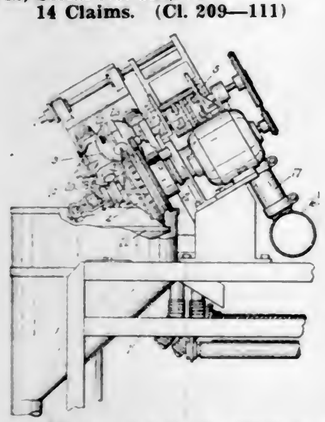
2,316,374
VEHICLE SUPPORTING TRUCK
Roy C. Townsend, La Crosse, Wis.
Application July 21, 1941, Serial No. 403,443
7 Claims. (Cl. 280—111)

1. In a vehicle, a pair of bolsters fulcrumed on transverse axes to the vehicle for up and down movements at front and rear ends, axles supportably engaging and connecting corresponding front and rear ends of each bolster, wheels on the axles, and torque members connecting the axles for relative pivotal movements in transverse up-



right planes, said torque members being pivotally connected at mutually supported adjacent ends.

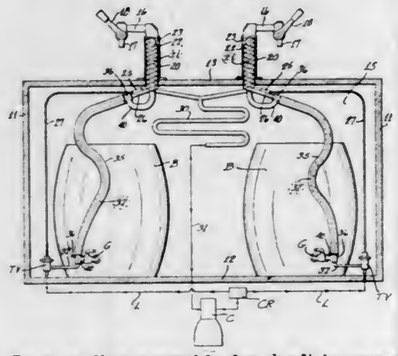
2,316,375
SORTING MACHINE FEEDING AND EJECTING DEVICE
Freeman Van Haften, Grand Rapids, Mich., assignor to Electric Sorting Machine Company, Grand Rapids, Mich., a corporation of Michigan
Original application January 13, 1941, Serial No. 374,224. Divided and this application February 16, 1942, Serial No. 431,101
14 Claims. (Cl. 209—111)



1. A feeding and operating device of the type described, comprising in combination a hollow rotatable drum-like conveyor having a plurality of open article seats on the periphery thereof in communication with the interior thereof, means for creating a suction interiorly of said conveyor effective at said seats to pick up articles past which the conveyor travels and hold the same on said seats for a substantial travel, an arcuate hollow shoe within said conveyor in sliding engagement with the internal periphery thereof adjacent said seats, the interior of said shoe being at such pressure as to nullify the effect of the conveyor suction at said seats to hold articles thereon, whereby said articles disengage from said seats and travel therefrom in a steady linear stream, operating means positioned adjacent said drum to the rear of the point of suction cutoff, with reference to the direction of rotation of the conveyor, effective to operate on articles in said stream when actuated, and photoelectrically con-

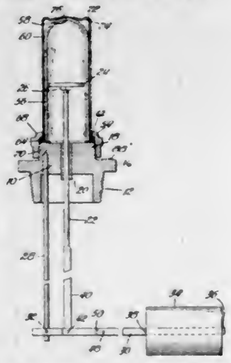
trolled means for actuating said operating mechanism, including an article illuminating and viewing housing through which articles on said seats pass in advance of the point of suction cutoff.

2,316,376
CHILLING MEANS FOR DRAFT BEVERAGES
Louis Weiss, St. Louis, Mo.
Application April 28, 1941, Serial No. 390,665
5 Claims. (Cl. 62—141)



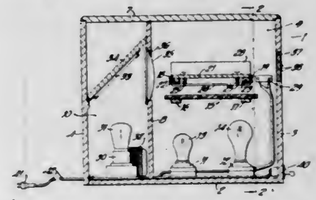
1. In a cooling assembly for draft beverages, a supply container, a draft line, a faucet from which the beverage is dispensed, a source of and a circulating line for a cooling fluid, said cooling fluid circulating line including a substantially direct portion consisting of a thin wall semi-flexible metal tube of relatively small diameter, the draft line including a portion coextensive with the last said portion of the circulating line and surrounding the latter in spaced relation, the last said portion of the draft line consisting of a tube of a non-metallic, flexible and tasteless material, and means including a terminal portion of the draft line and a further portion of the circulating line wrapped about said terminal portion, for keeping in chilled condition, a serving of beverage immediately adjacent the faucet.

2,316,377
TANK GAUGE
Joseph F. Wilhelm, Madison, Wis.
Application October 10, 1940, Serial No. 360,644
8 Claims. (Cl. 73—317)



8. In a tank gauge, in combination: a closure member; a support extending upwardly above said closure member and integral with said closure member; said closure member and support having a bore; a vertically slidable rod in said bore; an indicator member on said rod above said support; and housing and sealing means on said support, comprising: an inner transparent ceramic tube; an outer transparent tube telescoped over and radially spaced outside said inner tube; and a slotted sheet carrying indicia and housed between said tubes, whereby said indicator member can be seen through the slots.

2,316,378
APPARATUS FOR DETERMINING THE TENDENCY OF PAPER TO CURL
George S. Witham, Jr., Hudson Falls, N. Y., assignor to W. & L. E. Gurley, Troy, N. Y., a corporation of New York
Application October 23, 1940, Serial No. 362,396
10 Claims. (Cl. 73—51)



1. In a device for determining the curling properties of paper and the like, means forming an enclosure provided therewithin with means adapted freely to support thereon a sample sheet of paper in substantially horizontal, flat condition and means for providing and maintaining within said enclosure-forming means heat of substantially a standard temperature, said enclosure-forming means being provided in a side thereof with a translucent target provided with a scale for measuring the flatness of said sample sheet and means for casting light rays upon said target; said paper-supporting means being arranged to support said paper in the path of said light rays whereby the shadow of said paper will appear on said target.

2,316,379
PROCESS OF REMOVING IMPURITIES FROM WASHED TEXTILES
Erhart Wolter, Dusseldorf-Benrath, Germany, assignor, by mesne assignments, to The Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio
No Drawing. Application June 24, 1939, Serial No. 280,916. In Germany June 28, 1938
2 Claims. (Cl. 252—143)

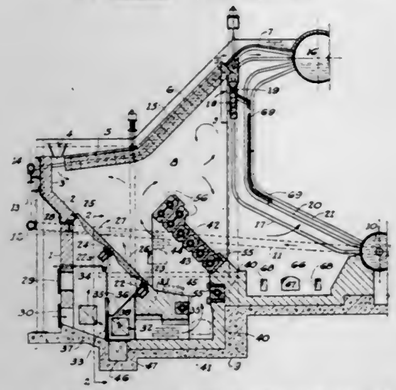
1. The method of removing deleterious deposits from a textile material washed in hard water, which comprises rinsing said material in an aqueous rinsing bath acidulated with approximately .5% sulfaminic acid.

2,316,380
POLYMERIZATION OF OLEFINS
Paul Woog, Paris, France; vested in the Alien Property Custodian
No Drawing. Application March 7, 1939, Serial No. 260,434. In France March 9, 1938
1 Claim. (Cl. 196—10)

A process for polymerizing olefins by treatment with sulfuric acid which comprises continuously introducing an olefin, while in the gaseous state and at substantially atmospheric pressure, into a sulfuric acid solution, containing about 67 per

cent sulfuric acid and 2 per cent silver sulfate and at a temperature of about 25 to 30° C. by passing the gas through a porous diaphragm disposed at such a depth in said solution that the resulting reaction is terminated at the moment when the gas bubbles leave the surface of the liquid, employing for that purpose a porous wall which cannot be attacked by the solution and having a sufficiently fine porosity to produce a real emulsion of said olefin in said acid, and separating the resulting polymerization product continuously at a rate corresponding to that at which it is produced.

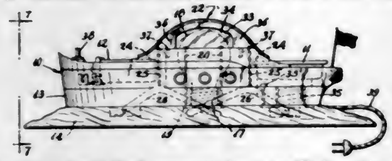
2,316,381
FURNACE WITH REFLEX ARCH
Paul Wright, Birmingham, Ala.
Application October 16, 1939, Serial No. 299,665
11 Claims. (Cl. 110—72)



8. In a furnace utilizing a combination of two sources of air for combustion, a front furnace wall and side walls; inclined perforate grates that extend from said front wall, transversely between the side walls; a lower hearth adjoining the lower transverse edge of said grates; an ash pit arranged at the rearward transverse edge of said hearth; a bridge wall across the furnace and so arranged that said bridge wall and said hearth form opposite sides of said pit: and as one source of air supply, a grate air chamber arranged under said grates and partially bounded by, said front wall and said side walls, and a gated partition that adjoins the lower transverse edge of said grates at said hearth; access doors in said front wall whereby air enters forward of said partition into said great chamber; and as another source of air supply, a pit air chamber arranged below said hearth and connected with combination air and ash passages extended under said hearth to said pit; a door in said side wall whereby air enters said pit chamber, rearward of said partition; whereby the combinations of air thus supplied, facilitate the hastening of fuel burning with higher temperatures in the furnace; and said passages advantageously permit removal of ash, thru said gated partition and said front wall access doors.

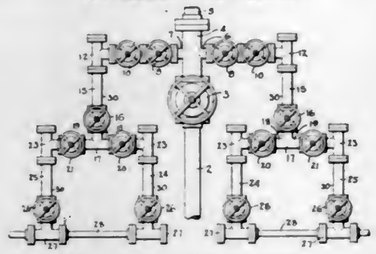
2,316,382
COMBINATION ELECTRIC TESTER, LAMP, AND SMOKER'S OUTFIT
Raymond Zuazua, New York, N. Y.
Application December 29, 1941, Serial No. 424,778
6 Claims. (Cl. 240—2)

1. A combination electric tester lamp and smoker's outfit, comprising a base supporting various smoker's articles and having a centrally located opening and an end opening extending downwards from the top, a lamp socket and lamp extendably mounted in said central opening, a lamp testing socket mounted in said end opening, a circuit connecting said sockets in series,



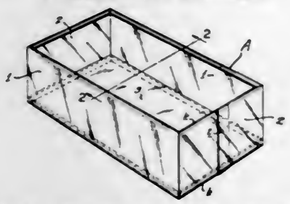
a switch controlled circuit in parallel with said testing socket, and a light controlling shade removably mounted on said base over said central opening and holding said lamp and socket down, whereby when said shade is removed said first socket will be free to move upwards to extend said lamp above said base.

2,316,383
SYSTEM OF REDUCING PRESSURES
James S. Abercrombie, Houston, Tex.
Application December 23, 1938, Serial No. 247,361
3 Claims. (Cl. 166—2)



1. A well head assembly comprising in combination a master valve, a Christmas tree assembly thereon including a pair of high pressure flow lines,, a pair of valves in each flow line, a high pressure choke in each flow line beyond said valves, a lower pressure valve beyond each high pressure choke, a pair of branch lines beyond each lower pressure valve, a valve in each branch line, a low pressure choke beyond each branch line valve, a low pressure valve beyond each choke, and a pipe line connected to all four of said branch lines beyond said low pressure valves.

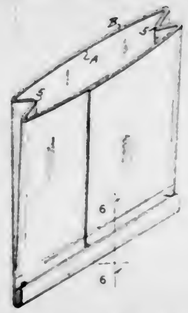
2,316,384
CONTAINER
Alvin A. Abramson, St. Louis, Mo., assignor to Central States Paper & Bag Company, St. Louis, Mo., a corporation of Missouri
Application November 25, 1940, Serial No. 367,003
1 Claim. (Cl. 229—3.5)



A straight walled polygonal container body comprising, in combination, a shell constructed of a single elongated substantially oblong-rectangular strip of transparent material curled

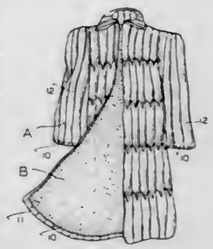
inwardly upon tiself along its opposite elongated parallel margins and thereby marginally provided lengthwise with cylindrical beads, said beads being provided at longitudinally spaced intervals with transversely aligned fold indentations, said indentations being positioned and spaced inwardly from the two ends of the elongated strip whereby the length of the two end portions combined constitutes more than the legnth of one side wall of the container and said strip having the bead portions thereof cut away at one end of the strip in the provision of a lapping and connecting tab, the strip being folded upon itself in registration with said transversely aligned indentations to constitute connected side wall panels and said tab being lapped over upon and being adhesively secured to the opposite end of the strip with the cutaway ends of the bead formations of the lapping end in substantial alignment and end-abutting relation with respect to the corresponding beads of the opposite end of the strip whereby said connected ends are disposed in substantially flatwise relation to form one side of the container and without angular bending of the material closely adjacent to either end of the elongated strip, and a bottom-forming member disposed within the confines of the folded strip contoured to conform substantially to the walled outline of the container supported upon and adhesively fixed to the inner side of one of said beads.

2,316,385
CONTAINER
Elmer D. Abramson, Clayton, Mo., assignor to Central States Paper & Bag Company, St. Louis, Mo., a corporation of Missouri
Application October 14, 1939, Serial No. 299,407
1 Claim. (Cl. 229—55)



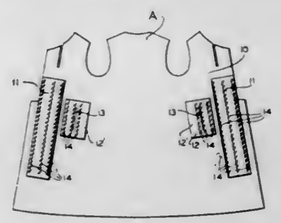
An open-mouthed pinch-bottom bellows type bag having an inner moisture resistant liner jacket and an outer covering jacket telescopically interfitted and secured together in the formation of a plural-ply open-ended tube, said tube being provided with diametrically opposed longitudinally extending inward folds of substantially V-shaped cross-section dividing the tube into opposed face walls connected by extending side bellows, said tube being provided along its bottom margin with a wide strip-like coating of water-resistant adhesive around both the inner and outer faces of the liner jacket and said side walls and said bellows being pinched together at said bottom end of the tube and being thus adhesively sealed in the formation of an initial transversely extending water-tight end-closure, said end-closure being further provided upon its external faces with a relatively narrower coating band of water resistant adhesive around the lower end and being folded and rolled twice upon itself in the provision of a completed double-folded leak-proof end-closure in which the outer faces are adhesive-free and all other faces of all of the plies are sealed throughout the area of the bottom closure and are rolled upon each other and are double-folded and are secured to each other and to the body of the bag adhesively.

2,316,386
PROCESS OF CLEANING FUR COATS
Robert E. Albrecht, St. Paul, Minn., assignor to E. Albrecht & Son Co., St. Paul, Minn., a corporation of Minnesota
Application June 21, 1941, Serial No. 399,215
1 Claim. (Cl. 8—142)



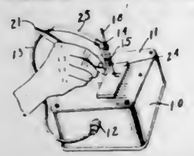
The method of cleaning a fur coat while the regular fixed lining is attached thereto, consisting in sewing up all the rips in the leather of the fur coat, providing an auxiliary lining made of turkish toweling material having absorbing nature, wetting the fixed lining of the fur coat with a solvent to clean the same, stitching the auxiliary lining marginally around all edges of the fur coat to seal and cover the fixed lining by the auxiliary lining, drumming with cleaning sawdust adapted to clean the fur, continuing the drumming until the fur is thoroughly cleaned, caging the coat to remove the sawdust and otherwise removing the sawdust from the fur and the outer surface of the auxiliary lining, and removing the auxiliary lining.

2,316,387
METHOD OF MAKING FUR COATS
Robert E. Albrecht, St. Paul, Minn., assignor to E. Albrecht & Son Co., St. Paul, Minn., a corporation of Minnesota
Application October 18, 1941, Serial No. 415,576
8 Claims. (Cl. 2—97)



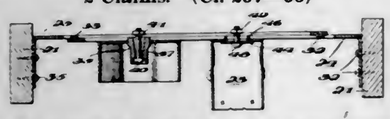
1. The method of making fur coats comprising surface sewing an interliner directly to the leather of the fur at spaced intervals to hold the interliner flat against and in fixed position to the leather, and then sewing a finishing liner of the coat to the free peripheral edges of the coat.

2,316,388
METAL ETCHING STYLUS
Robert B. Annis, Indianapolis, Ind.
Application December 13, 1941, Serial No. 422,855
6 Claims. (Cl. 219—29)



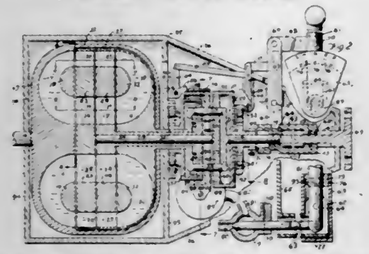
1. For an electric etching device, a stylus comprising a bracket having a shank and a head at the upper end of and in offset relation to the shank, an electrode, means for adjustably carrying the electrode from said head, a pencil-like member carried by the lower end of said shank at an acute angle to said electrode, the axis of said electrode and said member being in a common plane, said electrode being in spaced, substantially parallel alignment with said shank, and said shank being wider than said electrode to serve as a shield thereacross.

2,316,389
ADJUSTABLE BAR HANGER AND RECEPTACLE FASTENING MEANS
Earl B. Atkinson, Bay Village, Ohio
Application August 3, 1940, Serial No. 350,610
2 Claims. (Cl. 287—58)



1. An adjustable bar hanger comprising two elongated sections formed of resilient material, each of said sections comprising a bowed body member having a longitudinal slot therein, a laterally projecting lug located adjacent one end of said body member and a portion positioned in angular relationship with said body member located at the end opposite said lug, said elongated sections being positioned in superposed relationship with the bowed body members oppositely directed and with the lug of each section projecting into the longitudinal slot of the opposite section and means for drawing together the bowed body members and securing the sections in adjusted position.

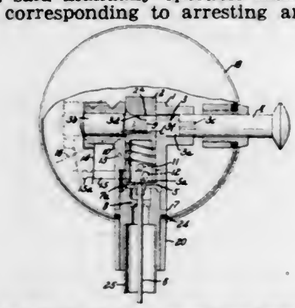
2,316,390
POWER TRANSMISSION
David Biermann, Hampton, Va.
Application December 18, 1940, Serial No. 370,659
1 Claim. (Cl. 74—189.5)



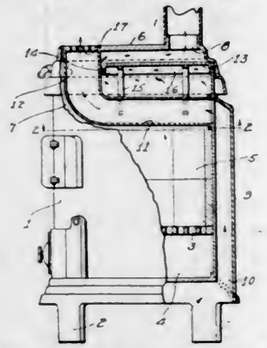
A rotary power transmission comprising a driving shaft; a driven shaft; a supporting fixed housing; a rotatable fluid tight housing coupled to said driving shaft; a centrifugal pump contained within and fastened to one end of said rotatable housing; a centrifugal motor facing said pump at the opposite end of said housing and rotatable independently of but cooperating with said pump for the purpose of transmitting torque from said pump to said motor through the interaction of fluid on blades carried by said pump and motor; two axial motors disposed between said centrifugal pump and centrifugal motor driven by the action of fluid impinging on blades carried by said axial motors, said fluid being circulated through the planes of said axial motors by said centrifugal pump and centrifugal motor; a central shaft connecting the axial motor which is adjacent to the pump to a sun gear of a planetary gear train; a plurality of planet gears meshing with said sun gear; a plurality of planet shafts carrying said planet gears and supported by a spider; a rotatable shaft coaxial with said driving and driven shafts connecting with said spider; a mechanical dog clutch arranged for coupling said spider and shaft with said driven shaft; a ring gear meshing with said planet gears and supported by a sleeve shaft encasing said spider shaft; one-way brake carried concentric with said ring gear sleeve shaft; a manually actuated dog clutch arranged for engaging with said one-way brake so that torque could be transmitted in a direction opposite to that of the driving torque from said ring gear to said fixed housing; a sleeve shaft concentric with said driving and driven shafts connecting said axial motor which is adjacent to said centrifugal motor to a sun gear of a second planetary gear train; a plurality of planet gears meshed with said second sun gear; a plurality of spider shafts carrying said second planet gears, said spider shafts mounted on said spider of said first named planetary gear train; a ring gear meshing with said second named planetary gears; a one-way brake carried by said second named ring gear assembly arranged for transmitting torque from said ring gear to said fixed supporting housing only in a direction opposite to that of the torque applied by said driving shaft; a sleeve shaft concentric to said driving shaft coupling said centrifugal motor with said planet gear spider; a brake arranged for manually locking said spider to said fixed supporting housing; a brake arranged for locking said first named ring gear to said fixed housing; and a control lever and cooperating linkages arranged for actuating the clutches and brakes in unison to accomplish either of the following: couple said spider shaft with said driven shaft and couple said first named one-way brake with said fixed housing for forward operation, couple said first named ring gear with said driven shaft and lock said spider to said fixed housing for reverse operation, couple said spider shaft with said driven shaft and lock said first named ring gear to said fixed housing for low operation, and release said driven shaft for neutral operation.

2,316,391
TEMPERATURE MEASURING DEVICE
Franz Georg Bloch, Le Sentier, Vaud, Switzerland
Application October 15, 1941, Serial No. 415,119
In Switzerland December 7, 1940
1 Claim. (Cl. 73—367)

A thermometer comprising a bimetallic temperature-responsive element of low torque, an indicating element, a brake member carried by said bimetallic element, an arresting member mounted for sliding movement into and out of contact with said brake member, a manually operable member mounted for sliding movement transversely of the path of movement of said arresting member and adapted to positively move said arresting member into and out of contact with said brake member, means for releasably holding said manually operable member in positions corresponding to arresting and non-arresting position of said arresting member, means including a resilient member connecting said manually operable member with said indicating element for imparting motion to said indicating element upon operation of said manually operable member to move said arresting member into arresting position and means including a stop carried by said bimetallic element for limiting the amount of movement of said indicating element in accordance with the position at which the bimetallic element is arrested.

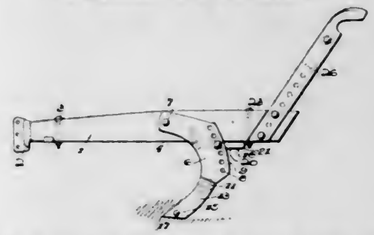


2,316,392
HEATING STOVE
Harry R. Bloemsma, East St. Louis, Ill.
Application April 30, 1941, Serial No. 391,058
1 Claim. (Cl. 126—70)



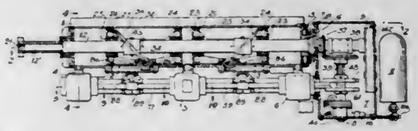
In a stove having a grate, a firebox with a dome chamber thereabove, and a smoke flue leading from closely adjacent the rim of the latter; a cold air conduit having its intake without the stove below said grate and then passing substantially horizontally through the dome chamber and thence passing vertically through the top of the latter adjacent the front of the stove at a point diametrically opposed to the flue opening and farthermost from the latter; and a baffle plate mounted in said dome chamber horizontally and spaced intermediate the top of the dome and the horizontal portion of said conduit, the front edge of said plate extending to the opposed last-mentioned vertical portion of said conduit, the rear edges of said plate being in sealing engagement with the sides of said dome chamber to prevent passage of gases therebetween and to restrict all gas passage from the firebox so that it is directed forwardly onto said conduit from beneath said plate and thence rearwardly above said plate toward the flue.

2,316,393
CULTIVATING PLOW
Rainie Bloodworth, Thomasville, Ga.
Application April 3, 1941, Serial No. 386,720
3 Claims. (Cl. 97—198.1)



1. In a cultivating plow, a plow beam, a plow foot pivotally attached to said beam, comprising a pair of spaced arcuate shaped plates having an earth working implement positioned therebetween, means to adjustably support the plates in operative position at different angles of cut, means to adjustably support a pair of plow handles at a fixed angle of inclination to the plow beam comprising, a pair of angularly disposed recesses on opposite sides of the beam to the rear of the plow foot, a handle spacing member having a pair of arms formed with a series of spaced registering openings, portions of said arms being seated in said recesses, a plow handle slidably seated in each of the recesses adjacent an arm of the spacer member, each of the handles having a series of spaced openings adapted to register with the openings in the spacer arms and bolt means insertable through the handles and the beam to securely clamp the handles in operative position on the beam.

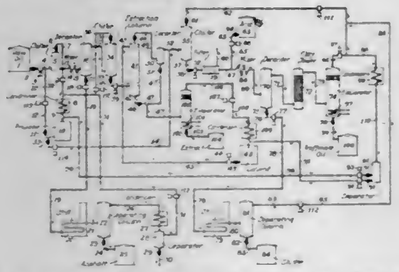
2,316,394
EXPLOSIVE TYPE ENGINE
Ransom Y. Bovee, Venice, Calif.
Application December 2, 1941, Serial No. 421,376
16 Claims. (Cl. 123—51)



6. An explosion engine embodying a cylinder with dual opposed double acting pistons reciprocable therein, a straight power shaft extending co-axially through cylinder and pistons, coupling means fixed to the power shaft to reciprocate the pistons oppositely to each other and for the pistons to rotate the power shaft, combustion spaces between the pistons and at each outer end thereof, a valve unit for each combustion space, a firing chamber surrounding a portion of each valve unit, passages connecting each combustion space with its respective firing chamber, triple headed valves reciprocable in each unit adapted to admit fuel charges into its respective firing chamber and combustion space, and also adapted to exhaust burned gases therefrom to the

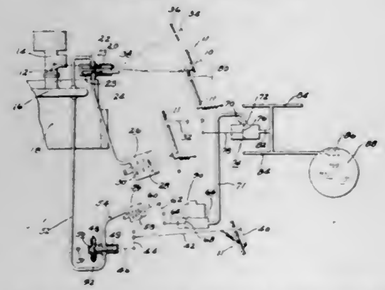
atmosphere, cam controlled means to reciprocate in unison the two outer valves to cause simultaneous intake, compression and exhaust in the two outer combustion spaces, and another cam controlled means to reciprocate the central valve to cause intake, compression and exhaust in the central combustion space, said means including a hollow oil conveying tube connecting all the valves together.

2,316,395
PROCESS FOR PRODUCTION OF LUBRICATING OIL
Ulric B. Bray, Palos Verdes Estates, and Claude E. Swift, Glendale, Calif., assignors to Union Oil Company of California, Los Angeles, Calif., a corporation of California
Original application August 4, 1931, Serial No. 555,018. Divided and this application February 19, 1935, Serial No. 7,268
4 Claims. (Cl. 196—13)



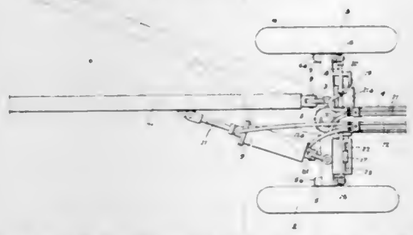
1. A process for the production of lubricating oil from oil containing wax which comprises commingling said oil with a liquid having a selective solvent action as between paraffinic and non-paraffinic fractions of the oil and a relatively less selective solvent liquid to form an extract phase comprising selective solvent and non-paraffinic fractions and a raffinate phase comprising selective solvent, less selective solvent and paraffinic fractions including wax, separating said phases, cooling the raffinate phase to separate wax and removing the wax from the raffinate phase.

2,316,396
BRAKE
Robert P. Breese, New York, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware.
Application February 16, 1940, Serial No. 319,350
5 Claims. (Cl. 192—13)



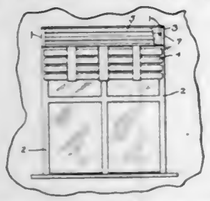
1. In a system for the control of automobiles, a clutch, hydraulically operated brakes, a manual control for the brakes, a separate power control for the brakes, said power control also actuating the clutch, a main master cylinder connected with said manual brake control, and means comprising an auxiliary master cylinder connected with said power brake control for forcing liquid from said auxiliary master cylinder through the main master cylinder to the brakes, whereby after the power application of the brakes the liquid so forced by the auxiliary master cylinder may be trapped upon operation of the main master cylinder and whereby the pedal stroke of the main master cylinder is minimized.

2,316,397
ADJUSTABLE DRAFT CONNECTION UNIT FOR IMPLEMENTS
Ernest V. Briscoe, Kerman, Calif.
Application July 14, 1941, Serial No. 402,319
2 Claims. (Cl. 280—33.11)



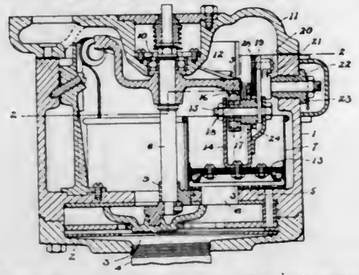
1. A draft connection for an implement wheel truck, the truck having an axle mounted for steering movement about a vertical axis centrally between the ends of said axle, said connection comprising a draft tongue projecting forwardly from the axle, a double-acting hydraulic cylinder pivoted at one end on the tongue intermediate the ends of the latter and for swinging movement in a plane parallel thereto, said cylinder extending rearwardly to the axle in diverging relation to the tongue, means to actuate said hydraulic cylinder, means swivelly connecting the rear end of the tongue to the axle intermediate one end of the latter and said vertical axis, and other means swivelly connecting the rear end of said hydraulic cylinder to the axle intermediate the other end of the latter and said vertical axis.

2,316,398
VENETIAN BLIND
Isidore R. Brodie, New Britain, Conn.
Application October 11, 1941, Serial No. 414,636
8 Claims. (Cl. 160—34)



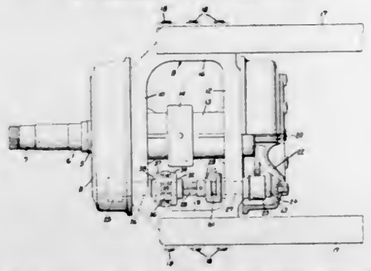
1. In a Venetian blind structure including a headrail and a facia board, end supports at opposite ends of said headrail and facia board, shelves on the inner faces of said supports, underlying and supporting the ends of said headrail, stationary slotted portions on the fronts of said supports having vertical facia board receiving slots in the adjacent faces thereof spaced from the front edges of said portions and having open bottoms to receive said facia board from below, and means on said end supports and movable relative to said slots for positioning said facia board in said slots.

2,316,399
MEANS FOR ADJUSTING THE LENGTH OF STROKE OF PISTONS
William H. D. Brouse, Toronto, Ontario, Canada, assignor to John Wood Manufacturing Company, Inc., Philadelphia, Pa.
Application November 26, 1941, Serial No. 420,574
6 Claims. (Cl. 74—600)



1. A mechanical movement for adjusting the length of stroke of a piston comprising in combination with the piston and piston pin, of means eccentrically mounted on the piston pin for limiting the travel of the piston, oscillatable means operatively connected with the piston, and means connected with said oscillatable means for rotating said eccentric means.

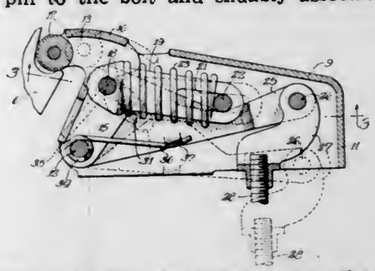
2,316,400
SLACK ADJUSTER
Frederick W. Burger, Niles, Mich., assignor to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application October 24, 1941, Serial No. 416,297
6 Claims. (Cl. 188—18)



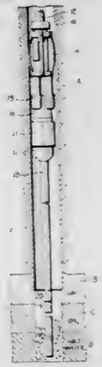
1. The combination, with independent axially spaced brake means including arcuate brake shoes arranged to be spread apart by a cam, of axially alined shafts operable to rotate said cams and extending toward each other, said shafts having adjacent splined ends, slack adjusting collar members secured on said splined ends and having axially overlapping tongue and groove portions, and means on said portions for rotating one shaft relative to the other shaft.

2,316,401
LATCH
William O. Burke, Rockford, Ill., assignor to National Lock Co., Rockford, Ill., a corporation of Delaware
Application April 21, 1941, Serial No. 389,607
4 Claims. (Cl. 292—122)

1. In a latch, the combination of a housing, a latch bolt and a lever coaxially pivoted on said housing, cooperating abutments provided by slots in the lever and a pin carried by the bolt whereby the bolt is retracted by operation of the lever, a link pivotally connected at one end by said pin to the bolt and slidably associated at its other end with a fixed abutment on the housing, and a spring interposed on said link between the bolt and said abutment for urging the bolt into projected position.



2,316,402
CEMENTING WELLS
Arthur B. Canon, Houston, Tex.
Application August 19, 1940, Serial No. 353,273
2 Claims. (Cl. 166—1)

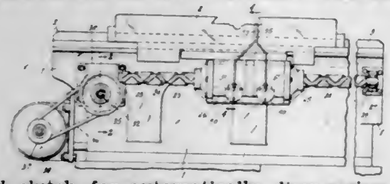


1. An apparatus for cementing a well bore including, a packer adapted to be lowered into the well bore upon tubing, a tail pipe depending from the packer and being adapted to receive cement from the tubing for conducting the same to the desired formation, the tail pipe having a frangible lower portion, said packer and tail pipe being adapted to be set within said well bore by said tubing so that the frangible lower portion of the tail pipe is disposed within said desired formation, whereby cement may be forced into the formation and allowed to harden around said frangible lower portion and whereby after such hardening the frangible lower portion may be ruptured so as to release said tail pipe and packer from the cement and permit removal of the same from the well bore.

2,316,403
LATHE CARRIAGE FEED MECHANISM
Lionel A. Carter, Webster Groves, Mo., assignor to Lehmann Machine Company, St. Louis, Mo., a corporation of Missouri
Application June 8, 1940, Serial No. 339,471
11 Claims. (Cl. 82—21)

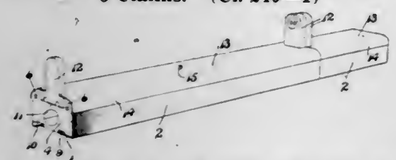
1. A lathe carriage feed mechanism comprising a unidirectional feed screw having right and left hand threads, nuts journaled in the carriage and cooperating with the respective threads, fluid pressure actuated means mounted entirely on and movable with said carriage for selectively

gripping said nuts to said carriage, manually operable means for moving said carriage including a shaft journaled in said carriage, a rotary handle rotatable about the axis of said shaft and a normally engaged clutch connection between said shaft and said handle, and a single control means for said fluid pressure actuated means and



said clutch for automatically disengaging said clutch whenever said control means is operated to cause the fluid pressure actuated means controlled thereby to grip said nuts, said control means including a control lever mounted on said carriage for pivotal movement about the axis of said shaft.

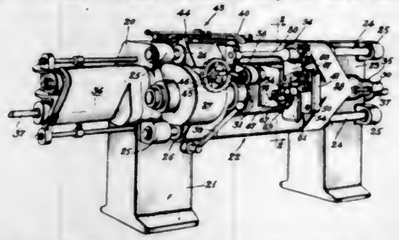
2,316,404
LIGHTING FIXTURE CONSTRUCTION
Thomas A. Carter, Jr., Grand Rapids, Mich., assignor to Grand Rapids Store Equipment Company, Grand Rapids, Mich., a corporation of Michigan
Application July 15, 1942, Serial No. 451,040
5 Claims. (Cl. 240—1)



1. In a device of the class described, a sheet metal channel member having a web and spaced flanges one at each side of the web bent therefrom substantially at right angles, a plate at each end of the channel closing said ends thereof, said plate being of sheet metal and having ears turned inwardly at its side edges to lie against said flanges and other ears turned inwardly adjacent its inner edge to lie against said web, said ears being permanently secured to said web and flanges, said plate adjacent the open side of the channel having a horizontal ledge struck therefrom and turned inwardly to substantially parallel said web, leaving two spaced apart ears one adjacent each of said flanges which extend beyond said ledge and the free edges of said flanges, each of said ears having an arc shaped edge and each having an opening therethrough, said plate adjacent the web having two spaced slots substantially parallel to the web cut therethrough, one toward each flange of the channel member, and a hook of flat metal inserted from the inner side of each end plate through one of said slots, permanently secured to said sheet metal member and projecting outwardly beyond its associated end plate, as specified.

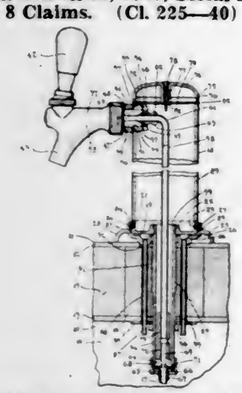
2,316,405
TURNING MACHINE
De Witt Clausen, Akron, Ohio, assignor to Lucien I. Yeomans, Incorporated, Chicago, Ill., a corporation of Illinois
Application June 5, 1940, Serial No. 338,974
12 Claims. (Cl. 82—14)

1. A turning machine having, in combination, means for rotating a workpiece having axially spaced areas to be turned to different diameters, a symmetrical reverse former fixed in spaced parallel relation to said workpiece, a support relatively movable axially of said workpiece and said former, two followers mounted on said support for movement transversely of and for co-



action with the opposite symmetrical sides of said former, and two cutting tools oppositely disposed for advancement and retraction relative to the axis of the work, each tool being supported for joint movement with one of said followers, said tools and said followers being in substantial alinement.

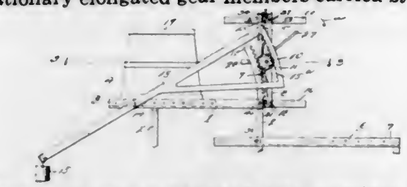
2,316,406
DISPENSING DEVICE
Richard T. Cornelius, Minneapolis, Minn.
Application March 31, 1941, Serial No. 386,003
8 Claims. (Cl. 225—40)



1. In combination, a tubular standard constructed of relatively thin metal open at the top and bottom and having a lateral opening at the side thereof, a faucet having a part extending through said lateral opening and providing an inlet to the faucet within the standard, means for attaching the faucet to the standard, a closure for the lower end of the standard, said closure being constructed with a flange having a groove extending about the same on the side thereof adjacent the standard, a bead on said tube extending into said groove for attaching the standard to the lower closure, means for feeding the liquid to be dispensed to said part of the faucet, said means extending through said closure, and a cap for closing the upper end of the standard.

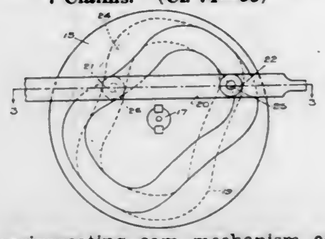
2,316,407
PACKAGE INVERTING MACHINE
John S. Cowl, Swoope, Va.
Application July 23, 1942, Serial No. 452,097
12 Claims. (Cl. 214—1)

1. A basket inverting machine comprising a frame, a rotatable carriage for receiving and inverting a basket, said carriage having gears at opposite sides thereof, said gears meshing with stationary elongated gear members carried by the



frame and counterweighted gear members pivoted to the frame and cooperating with the gears of the carriage for simultaneously rotating said carriage and traversing said carriage on the stationary gear members.

2,316,408
RECIPROCATING CAM MECHANISM
Joseph Dawson, Toronto, Ontario, Canada
Application October 3, 1941, Serial No. 413,536
7 Claims. (Cl. 74—55)



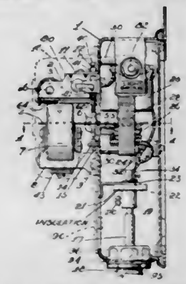
1. A reciprocating cam mechanism comprising a rotary member and a reciprocating member adapted to reciprocate at any predetermined vertical distance from the axis of rotation, connecting and transmitting members each forming an independent driving connection between said rotary and reciprocating members.

2,316,409
OIL WELL STRAIGHTENER
Lloyd R. Downing, Denver, Colo.
Application December 5, 1941, Serial No. 421,707
14 Claims. (Cl. 255—1.6)



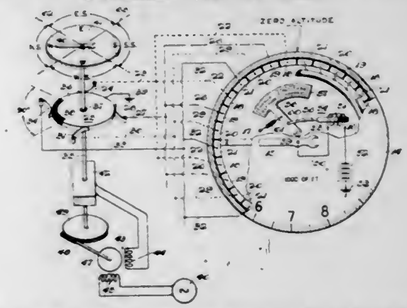
1. A drill bit deflected tool comprising: a core member arranged to be positioned in the tool string above a drill bit; a barrel rotatably mounted about said core member; a hydraulically-operated shoe in one wall of said barrel for contacting the wall of the drill hole; a piston boss fixed on the inner face of said shoe and slidably mounted in a pressure opening in said barrel; and means for conducting pressure from the core member to said pressure opening in the barrel to force said piston and said shoe outwardly therefrom.

2,316,410
WATT-HOUR METER
Willard H. Farr, Chicago, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application September 4, 1940, Serial No. 355,394
3 Claims. (Cl. 171—264)



2. In a watt hour meter, a casing including a front wall, a field core unit with windings assembled thereon, means extending rigidly from the rear face of said wall and supporting the field core unit, said core having a pair of pole pieces side by side with faces disposed in a common plane perpendicular to said front wall of the casing and a calibrating unit comprising a bracket attached to the rear face of the front wall, a shunt plate pivoted to said bracket and extending over the said faces of the pole pieces, and adjusting means carried by said bracket operable to swing said shunt plate about its pivot, said front wall having an opening through which said adjusting means is accessible for operation.

2,316,411
AIRCRAFT ALTITUDE SPACING SYSTEM
Martin J. Finnegan, Glen Rock, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application August 29, 1941, Serial No. 408,879
5 Claims. (Cl. 177—311)



3. In a traffic spacing system for aircraft, a device for indicating an aircraft's compliance or non-compliance therewith, including a compass having a directive element subject to the influence of the earth's magnetic field, an altimeter having a set of contacts regularly spaced through the indicating range of said altimeter,

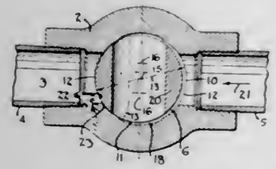
an electrical circuit, an indicator in said circuit, means in circuit therewith for operating said indicator, and electrical connections associated with said circuit and with said compass, so that, upon a cardinal change of azimuth indication by said compass, said indicator will be actuated to show the compliance or non-compliance of a craft with the system.

2,316,412
BOTTOM DUMP TRAILER WAGON
Henry C. French, Elm Grove, Wis., assignor to The Heil Co., Milwaukee, Wis., a corporation of Wisconsin
Application February 23, 1942, Serial No. 432,057
12 Claims. (Cl. 298—35)



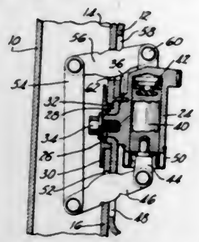
1. A dumping wagon, comprising a transportable hollow body formed of connected side and end walls and having a discharge opening in the bottom thereof, a cradle-like gate having a bottom portion and upstanding ends, said bottom portion normally closing the body discharge opening, means pivotally connecting the gate ends to the end walls of the body, an elongated flexible, pullable member, means effecting a running connection between the pullable member and the gate, and means for anchoring one end of the pullable member whereby a pull on the other end of said member causes said gate to swing in an arc upwardly and away from said body discharge opening.

2,316,413
OVAL PLUG VALVE CHAMBER
Ranald M. Garrison, Houston, Tex., assignor to Mission Manufacturing Company, Houston, Tex.
Application August 11, 1941, Serial No. 406,338
1 Claim. (Cl. 251—91)



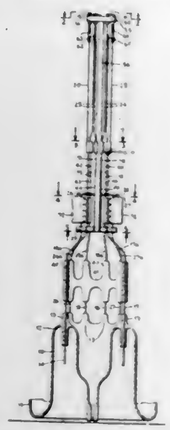
A plug valve including a housing having a passage therethrough, a cylindrical ported valve plug, an oval bore in said housing intersecting said passage to rotatably receive said plug, said plug having imperforate portions thereon to seal with the bore where the passage enters and leaves the bore, the bore of the housing about such passages being curved on a circular arc of the same radius as the surface of the cylindrical plug so that when the imperforate area of the plug engages the end of the oval bore of the housing there will be two circularly curved surfaces of the same radius in contact on the downstream side of the valve to provide a closure.

2,316,414
BRAKE
Rudolph A. Goepfrich, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application April 18, 1940, Serial No. 330,237
8 Claims. (Cl. 188—152)



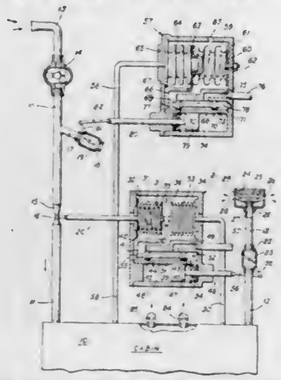
1. Actuating means for a brake having friction members mounted on a support comprising a pair of connected levers passing through the support and acting respectively on the friction members, and an actuator mounted on said support and operating said levers in which actuating means one lever is fulcrumed at one end and acts centrally on its friction member, and the other lever is operatively engaged at one end by said actuator and acts centrally on its friction member and has its other end connected to the free end of the first lever.

2,316,415
FILAMENTARY CATHODE ASSEMBLY
Lynn Goodale, Newark, and Lyle A. Backer, Denville, N. J., assignors to Federal Telephone and Radio Corporation, a corporation of Delaware
Application March 3, 1942, Serial No. 433,170
10 Claims. (Cl. 250—27.5)



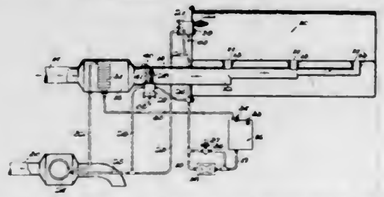
10. A filament assembly comprising a filament looped at its middle and having portions on each side of the loop extending substantially parallel and of equal length, an individual conducting lead connected to each end of the filament, said leads extending substantially parallel but of unequal length, and a cooling fin connected to the longer one of said leads, said cooling fin being proportioned to conduct away enough heat from the longer heat so that both leads expand and contract relative to the filament under temperature changes, to substantially the same extent.

2,316,416
PRESSURE AND FLOW REGULATOR
David Gregg, Caldwell, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application December 31, 1940, Serial No. 372,692
4 Claims. (Cl. 128—204)



1. A cabin supercharging system comprising a cabin, an air intake, a compressor between said intake and said cabin, an air by-pass and a venturi situated between said compressor and said cabin, a pressure regulator, a first pressure chamber in said regulator sealed at a predetermined pressure, a second pressure chamber open to cabin pressure and in constant communication therewith, a partition between said chambers movable upon a change of cabin pressure, a servo-motor operable upon movement of said partition to regulate the passage of air through said by-pass, a second pressure regulator having a chamber open to cabin pressure and a chamber open to Venturi pressure, a partition between said second named chambers movable upon a change of cabin or Venturi pressure, an exhaust passage connected to said cabin, a valve for throttling exhausted air in said passage, a servo-motor operable upon movement of said partition to vary the position of said throttling valve in said passage, and a second valve in said passage, responsive to atmospheric pressure to limit the rate of discharge of air through said passage, under conditions of varying atmospheric pressure.

2,316,417
HEATING SYSTEM
David Gregg, Caldwell, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application December 6, 1941, Serial No. 421,979
3 Claims. (Cl. 237—9)

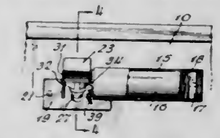


1. A cabin heating system comprising a flash boiler, a steam radiator, an air duct disposed about said radiator and having ventilating openings to the cabin, a water reservoir, a feed water pump connected to receive water from said reservoir, said flash boiler, said radiator and said feed water pump being in a closed series circuit, a first thermostat located in said duct, a second thermostat located in the cabin, a water connection through said first thermostat and extending between said feed water pump and said flash boiler, a water connection between said feed water pump and said flash boiler extending through said second thermostat, a cut-off valve in the water connection of each of said thermostats, and thermo-operated means for controlling the flow of water through each of said connections by operation of said cut-off valve.

2,316,418
COMPOSITION COMPRISING SOLID ETHYLENE POLYMERS
Bernard James Habgood, Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application May 27, 1940, Serial No. 337,550. In Great Britain May 30, 1939
2 Claims. (Cl. 260—41)

1. A solid composition of matter which comprises an intimate mixture of a high molecular weight polymer of ethylene and carbon black in proportion by weight of about 25 to 60 parts of carbon black for 100 parts of said polymer, and which is characterized by substantially greater tensile strength, hardness and electrical conductivity than said ethylene polymer, said polymer being selected from one of the groups consisting of (*a*) the solid polymer obtained by heating above 500 atmospheres at a temperature of from 100° C. to 400° C. a composition comprising ethylene as an essential component, and (*b*) the solid halogenated derivative of the polymer obtained by polymerizing ethylene at said temperature and pressure, said carbon black having a particle size not exceeding 100 millimicrons and being one of the group of carbon blacks consisting of acetylene blacks, channel blacks, and lamp blacks.

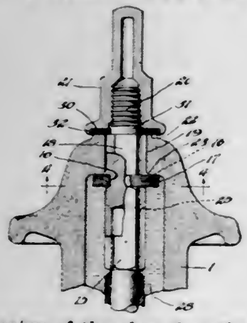
2,316,419
ILLUMINATING DEVICE FOR POCKETBOOKS
Otto Hallbauer, East Englewood, N. J.
Application December 13, 1941, Serial No. 422,785
1 Claim. (Cl. 240—6.45)



The combination with a flash light battery and an incandescent lamp each having terminals; of a supporting device therefor formed from a sheet of material cut transversely adjacent one end for a part of its width to divide the sheet into battery and lamp receiving portions, said battery receiving portion being rolled to form a cylindrical open ended compartment for containing said battery with the terminals of the latter adjacent opposite ends of the compartment, and said lamp receiving portion being bent to provide a housing having a plurality of angularly disposed walls at one end of said compartment with one of said walls in opposed relation to said compartment end, a contact member secured to and insulated from the latter wall and embracing the base of said lamp for electrical contact therewith when the terminal of said lamp is electrically engaged with another of the walls of said housing, said contact member also engaging the battery terminal at

the last named end of said compartment, and means at the other end of said compartment for electrically connecting the other terminal of said battery with the wall of said compartment to complete the energizing circuit for said lamp.

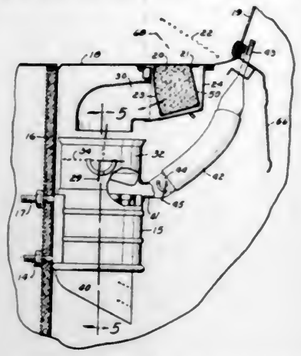
2,316,420
TERMINATOR
Weldon O. Hampton, Chicago, and Elias S. Cornell, Evanston, Ill., assignors to The Delta Star Electric Company, Chicago, Ill., a corporation of Illinois
Application June 9, 1938, Serial No. 212,778
6 Claims. (Cl. 174—75)



3. Apparatus of the class described comprising a hollow body having an opening therethrough, an electric terminal stud extending through said opening and having a smooth cylindrical portion immediately above the body, means for sealing against the entry of air or moisture into said body around the stud, said means comprising a gasket resting on said body and surrounding the stud, means clamping the gasket against said body and compressing said gasket axially into pressure engagement with the stud to form a pressure sealing fit around the cylindrical portion of the stud and prevent flowing of the gasket material radially inwardly, said stud having means supporting the gasket between the housing and the cylindrical part of the stud, means confining the gasket against flow radially outwardly, said clamping means and said body covering substantially the entire opposite surfaces of the gasket to prevent flowing of the gasket material under the continuous pressure to which it is subjected, and spring means compressed by the clamping means an amount in excess of the amount that the gasket material can set and maintaining the gasket under pressure continuously.

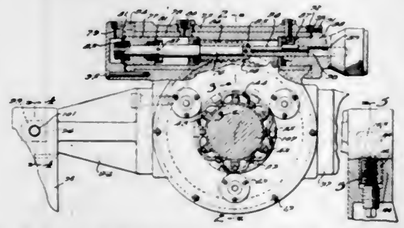
2,316,421
COMBINATION HEATING AND VENTILATING SYSTEM
Edmund E. Hans, Detroit, Mich.
Application July 9, 1942, Serial No. 450,317
4 Claims. (Cl. 98—2)

1. An automobile heating and ventilating arrangement comprising a vehicle body including a wall having an opening therethrough through which outside air is adapted to flow, a closure for said opening, a duct within the body through which air flowing through the opening passes, a sleeve having one extremity adjacent, in axial alignment with, and longitudinally spaced from the end of the duct remote from said opening, the perimeter of the sleeve being greater than that of the duct at the adjacent extremities, a fan and a heater within the sleeve whereby air flowing through the opening induces a flow of air from within the body into the sleeve so that both outside air and recirculated air from within the body are discharged through the heater, and



when the closure is shut air is recirculated from within the body through the sleeve and heater by the fan.

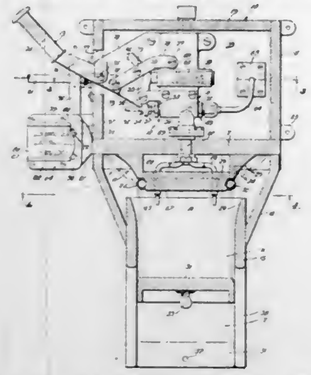
2,316,422
EXTERNAL HONING TOOL
William H. Harris, Jr., Detroit, Mich., assignor to Micromatic Hone Corporation, Detroit, Mich., a corporation of Michigan
Application April 7, 1941, Serial No. 387,170
11 Claims. (Cl. 51—184.3)



6. A tool for grinding the external surfaces of a cylinder including a housing, a unitary cam element movable axially therein, a plurality of abrasive stones carried by the body movable radially by said cam element, a plurality of pinions having stems threaded in said cam element, a ring gear for operating said pinions for adjusting said cam element axially, means for rotating said ring gear, and a universally floating support for said tool.

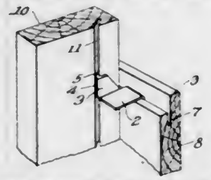
2,316,423
DEVICE FOR PROVIDING REFRIGERANTS IN CONTAINERS
Leo M. Harvey, La Canada, and Herbert Harvey and Reuben Hill, Los Angeles, Calif.; said Herbert Harvey and said Hill assignors to said Leo M. Harvey
Application June 23, 1939, Serial No. 280,818
15 Claims. (Cl. 226—19)

15. A device for providing a refrigerant in a container having an open end comprising a body having a compartment for receiving and confining the container, the outer end of the compartment being open to admit the container, sealing means in the body facing outwardly at the inner end of the compartment to be engageable by the end face of the container at the open end of the container to provide a seal between the container and body when the container is positioned in the body, and means for discharging a refrigerant



into said open end of the container when the same is positioned in the compartment.

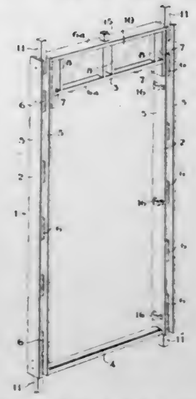
2,316,424
WALL PANEL SECURING MEANS
Henry Hasenburger, Newark, N. J., and Harvey Wiley Corbett, New York, N. Y., assignors to Prebilt Housing Corporation, New York, N. Y., a corporation of Ohio
Application February 12, 1940, Serial No. 318,484
7 Claims. (Cl. 20—4)



1. In building construction, an elongated stud having a longitudinally extending slot formed in one side thereof, a finish panel positioned in front of said stud, said panel having a slot formed in one edge, and a clip for securing said panel to said stud, said clip comprising a sheet metal body portion having a pair of angularly disposed lips, one of said lips being positioned in the slot in said stud and the other lip being received by the slot in said panel.

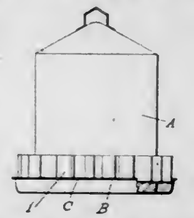
2,316,425
COMBINATION DOORFRAME AND CASING
Henry Hasenburger, Newark, N. J., and Harvey Wiley Corbett, New York, N. Y., assignors to Prebilt Housing Corporation, New York, N. Y., a corporation of Ohio
Application August 1, 1940, Serial No. 349,340
7 Claims. (Cl. 20—11)

1. In building construction, a combination door frame and casing comprising a pair of vertically extending stud sections, transversely extending lintel and saddle block bars secured to the upper and lower ends of said stud sections respectively to form an open rectangular body, clip members secured in spaced relation to the inner surfaces of said stud sections and said lintel bar, pairs of casing side and top rail sections disposed in engagement with said clip members, saddle sections positioned on said saddle block at the lower ends of said vertical casing rails, said side, top and saddle sections having corresponding grooves, locking strips provided on the rear surface with rib members disposed in said grooves, and fastening means extending through said locking strips



into said clips, the interengagement of said ribs and grooves preventing separation of said rails and saddle sections.

2,316,426
SAFETY SANITARY GUARD FOR DRINKING TROUGHS OF POULTRY FOUNTAINS
Clarence Elliott Hedrick, Newton, Kans.
Application July 8, 1940, Serial No. 344,398
2 Claims. (Cl. 119—77)

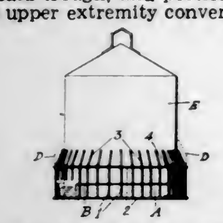


1. In combination with a drinking fountain comprising a vertically disposed cylindrical tank and an annular trough surrounding the said cylindrical tank at its lower extremity, the trough having an upwardly extending wall spaced outward from the tank, a strip of pleated material, the pleated strip being of sufficient length for lapped engagement of a portion of its pleated ends that coincide with respect to the abrupt bends of the pleats, said lapped portions being secured together when placed in the trough between its outer wall and the wall of the tank substantially as shown and described.

2,316,427
SANITARY SAFETY GUARD FOR POULTRY DRINKING FOUNTAINS
Clarence Elliott Hedrick, Newton, Kans.
Application August 30, 1940, Serial No. 354,862
1 Claim. (Cl. 119—74)

In combination, a cylindrical vertically disposed water container having an annular watering trough surrounding the base thereof, said watering trough having a flanged wall outwardly spaced from the wall of the cylindrical water container, and an annular upright wire mesh structure engaging snugly with the flange of the said outer wall of the trough, the lower edge of the wire mesh being in the same plane as the

bottom of said trough, and portions of said wire mesh at its upper extremity converging upwardly



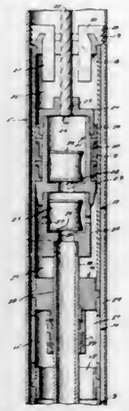
and engaging the wall of the cylindrical water container.

2,316,428
CLAMP STICK
Walter A. Heinrich, Richmond Heights, Mo., assignor to James R. Kearney Corporation, St. Louis, Mo., a corporation of Missouri
Application January 2, 1941, Serial No. 372,740
1 Claim. (Cl. 81—53)



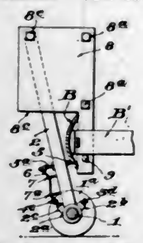
A clamp stick comprising a handle portion in the form of an elongated pole, a socket member supported by said pole at an end thereof, an element disposed within said socket member for movement longitudinally thereof, a clamp-engaging member in the form of a hook which is pivotally supported by said element for such movement independently thereof as will cause an outer end portion of said clamp-engaging member to swing in an arc of a circle, said clamp-engaging member being movable by contact of a portion thereof into a portion of said socket member to a position where a portion of said element cooperates with said end portion of said clamp-engaging member to close said clamp-engaging member and being movable to a position relative to said portion of said element where said clamp-engaging member is in an open position, resilient means which tends to move said clamp-engaging member to the open position, and operating means for moving said element to positions where said clamp-engaging member assumes said open and closed positions, said operating means comprising a tubular operating element which embraces said pole and is movable longitudinally thereof, a sleeve supported for rotary movement relative to said tubular operating element and having a notch formed in a portion thereof, an abutment fixed to said pole, said abutment being adapted to be contacted by a portion of said sleeve to limit upward movement relative to the pole of said sleeve and the operating element with which it is associated so as to retain the clamp-engaging member in its closed position and said sleeve being rotatable relative to the pole to cause the clamp-engaging member to assume its open position to aline the notch of said sleeve with said abutment to permit additional upward movement of said sleeve and said operating element with respect to the pole, means comprising a torsional coil spring which tends to move said sleeve in one direction, and means for limiting rotary movement of said sleeve.

2,316,429
INVERTED CYLINDER PUMPING UNIT
Bee Henderson, Dryden, Tex.
Application April 7, 1941, Serial No. 387,304
1 Claim. (Cl. 103—181)



Means for locking a piston containing barrel in a well casing comprising an annular member connected with the upper end of the barrel and having an upper annular part extending upwardly and inwardly at an angle from the lower part, inverted L-shaped dogs having teeth on the outer edges of their upper ends for biting into the well casing to prevent upward movement of the barrel, the lower portions of the dogs extending into the barrel for engagement by the piston when the piston is moved upwardly to an extent greater than that required for the pumping operation and each dog having a notch in its upper part, the walls of which slope upwardly and inwardly, the notches receiving a sloping part of the annular member, whereby upward movement of the dogs by the piston will cause the dogs to move upwardly and inwardly to move the teeth out of engagement with the casing.

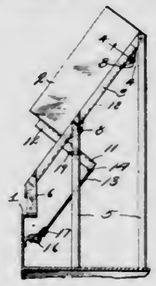
2,316,430
AUTOMOBILE JACK
John E. Hines, Rochester, Minn.
Application February 2, 1942, Serial No. 429,313
12 Claims. (Cl. 254—94)



1. A vehicle jack comprising a swingable bar adapted to be pivotally connected in inclined

position to a vehicle body and caused to assume a substantially vertical jacking position by movement of the vehicle towards said bar, the swinging movement of the bar into jacking position being limited by contact of the bar with a portion of the vehicle body; a ground wheel journaled at the lower end of said bar; means normally preventing rotation of said wheel in either direction; and means on the bar actuated by the contact against said portion of the vehicle body to release said rotation preventing means and permit rotation of the ground wheel in the direction of movement of the vehicle during the jacking operation while preventing rotation in the opposite direction.

2,316,431
RAFT LAUNCHING DEVICE
Thomas W. Hooley, Jr., New Orleans, La.
Application May 26, 1942, Serial No. 444,562
4 Claims. (Cl. 9—22)



1. A raft cradling and launching device for ships, said device comprising spaced downwardly and outwardly inclined trackways, said trackways being formed from angle bars and adapted to receive therein the under side of a life raft in a position whereby said raft will slide on one of the flanges of the trackways, said last named flanges having interruptions intermediate their length and rollers carried by the under side of the raft and engaging the under side of the trackway flange, one of said rollers being receivable through the interruptions of said flanges.

2,316,432
LIFTING JACK
Ion Von Kert Hott, Dayton, Ohio, assignor to The Joyce-Cridland Company, Dayton, Ohio, a corporation of Ohio
Application April 26, 1940, Serial No. 331,840
8 Claims. (Cl. 254—98)

1. In a lifting jack of the type comprising a vertically reciprocatory supporting member having a tubular upper portion, a lifting element mounted on said supporting member for vertical movement with relation thereto and having a screw threaded portion extending into said supporting member, a sleeve mounted on the upper end of said supporting member for reciprocatory movement therewith, extending upwardly therefrom about the screw threaded portion of said lifting element and rotatable with relation to said supporting member and said lifting element, a handle secured to said sleeve for rotating the same, said sleeve having a guideway, a holding element slidably mounted in said guideway, biased toward said lifting element and having a toothed portion to engage the screw thread of said lifting element to hold the latter normally against downward movement with relation to said sleeve and to impart upward movement to said lifting element when said sleeve is rotated in one direction, said holding element being movable to an inoperative position by an upward pull on



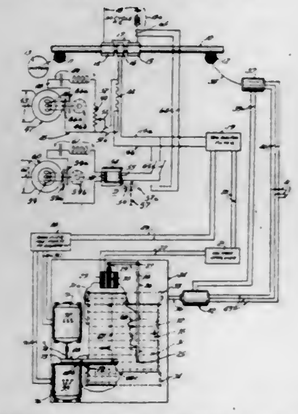
said lifting element, and means carried by said sleeve for retracting said holding element to release said lifting element and the load thereon for downward movement.

2,316,433
CLOTHES DRYING RACK
Walter L. Hulick, San Diego, Calif., assignor to Alice H. Preston, San Diego, Calif.
Application November 7, 1941, Serial No. 418,177
4 Claims. (Cl. 211—104)



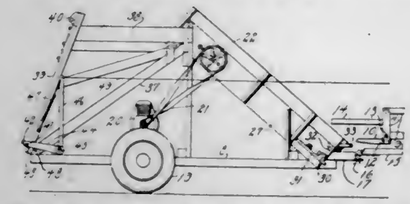
1. In a clothes drying rack of the class described, the combination of a pair of connected relatively narrowly spaced stationary uprights, another pair of connected relatively widely spaced shiftable uprights and a plurality of clothes hanger members pivotally connected at their one end at the outer side of said narrowly spaced stationary uprights and at their other end with the inner sides of said relatively widely spaced shiftable uprights, said clothes hanger members being pivotally spaced on said uprights a sufficient distance apart to permit the nesting of said uprights and said clothes hanger members when collapsed.

2,316,434
PHASE INDICATOR
Emmett M. Irwin, Long Beach, Calif., assignor to Magnetest Corporation, Long Beach, Calif., a corporation of California
Original application August 12, 1940, Serial No. 352,280. Divided and this application March 17, 1941, Serial No. 383,868
14 Claims. (Cl. 172—245)



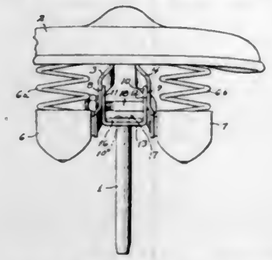
1. A phase indicator adapted to receive low and widely variable energy from an alternating current circuit and including an electrically responsive movable indicating means, means including an amplifier operable by low and widely variable energy input from the alternating current circuit for maintaining a substantially constant energy output over the range of widely variable low input, and means responsive to the output of said amplifier and actuating said movable indicating means for indicating the phase relation between the voltage and the current in the alternating current circuit supplying energy to said amplifier.

2,316,435
BALE GROUPER
Arthur C. James, Genoa, Ohio
Application April 27, 1942, Serial No. 440,681
1 Claim. (Cl. 214—9)



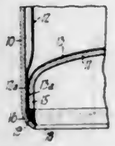
The combination with a pick-up baler or the like having a rearward horizontally extending way for a succession of completed bales to pass endwise therealong, of a bale grouper trailer having vertical axis connection centrally of the way, an elevator supported adjacent said connection directed in its ascent to one side of the direction of said way, deflection means mounted near the upper portion of the elevator and toward which the way is directed for supplementing elevator operation to orient the bales or the like from endwise to sidewise direction of progress, and a chute receiver for the bales or the like as they approach sidewise direction of progress.

2,316,436
CYCLE SADDLE POST
Harold E. Kalter, Elyria, Ohio, assignor to The Troxel Manufacturing Company, Elyria, Ohio, a corporation of Ohio
Application April 3, 1941, Serial No. 386,596
2 Claims. (Cl. 287—14)



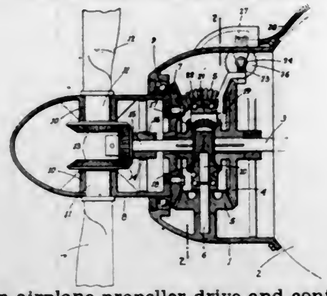
1. In a cycle saddle, the combination with a pair of relatively spaced saddle seat supporting reach elements having substantially flat relatively confronting surfaces, said surfaces being indentured at a medial portion of their length and the said indentured surfaces being substantially centrally perforated, of a saddle post, a sheet metal clamp element of channel form having upstanding parallel flange and intermediate web portions, said web portion having a perforation disposed centrally thereof through which the upper end of said saddle post is adapted to project, said clamp element being rigidly secured to the upper end of said post and said flanges extending outwardly from the post, said flanges having their outer surfaces indentured in substantially the manner of said reach element surfaces and said flanges having aligned apertures through a centrally disposed portion of its indentured surface adapted to be placed in alignment with the apertures of said reach members, and a bolt projected through each said pair of apertures and adapted to resiliently compress the indentured surfaces of said reach members into meshing engagement with the indentured surfaces of the clamp element, whereby the saddle may be adjustably tilted to different desired angles and rigidly clamped to the desired adjusted position.

2,316,437
BIMETAL TANK
Arthur J. Kercher, Berkeley, Calif.
Application April 5, 1938, Serial No. 200,132
3 Claims. (Cl. 220—63)



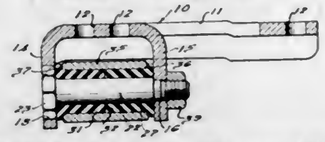
1. In a bi-metal tank, a base metal shell having end walls and cylindrical side walls, a non-corrodible sheet metal liner extending over the inner surfaces of the shell, the junction between each end and the side walls of the shell having marginal edge portions of the liner interposed between the same, and each end edge of the cylindrical side walls extending past the edge of the adjacent end wall being turned inwardly to overlap the adjacent end wall and form an annular recess, said annular recesses being filled with hard solder.

2,316,438
CONTROLLABLE PITCH PROPELLER
Percy R. Lea, Stockton, Calif.
Application March 18, 1941, Serial No. 383,974
12 Claims. (Cl. 170—135.6)



1. An airplane propeller drive and control unit comprises a hub, propeller blades turnably mounted in the hub, a fixed housing supporting the hub for rotation, a bevel drive gear in the housing, a driven bevel gear rigid with the hub and concentric with and facing the drive gear, a bevel pinion fixed in the housing and engaging the drive and driven gears, a bevel gear smaller than and fixed to the drive gear between the drive and driven gears, another bevel gear smaller than and turnable relative to the driven gear in facing relation to the first named bevel gear, a bevel pinion engaging said relatively small bevel gears, connecting means between said other bevel gear and the blades to rotate the latter in opposite directions and relative to the hub when said other gear rotates at a speed different from that of the hub, means mounting said last named bevel pinion for rotation about the axis of the drive gear and means to control the rotation of the mounting means.

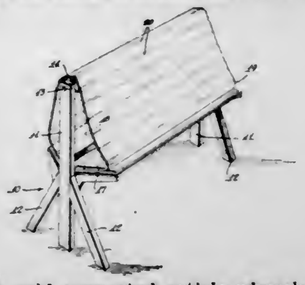
2,316,439
SPRING BOLT STRUCTURE
John W. Leighton, Port Huron, Mich.
Application October 20, 1941, Serial No. 415,731
3 Claims. (Cl. 267—54)



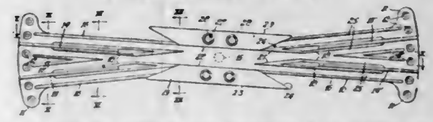
1. A shackle bolt assembly comprising a bracket having spaced substantially parallel legs provided with aligned apertures, the aperture in one leg being larger than in the other and being defined by a peripheral wall inclining to smaller size towards the other opening, a sleeve element between the legs, a bolt extending through the apertures and sleeve element and having a head portion disposed in the larger portion in fitting relation to such inclined wall, and means securing the bolt to said other leg, the legs of the bracket being so formed that they tend resiliently to spread apart whereby the head portion is resiliently held in fitting relation to its aperture.

2,316,440
INSPECTING DEVICE
David H. Levine, New Haven, Conn.
Application December 24, 1941, Serial No. 424,368
6 Claims. (Cl. 26—70)

1. Apparatus of the character described comprising a stand, a roller rotatably mounted on said stand for supporting a stitched article, a stitched article and means on said roller cooperating with said supported article whereby rotation of the roller will cause movement of the article.



2,316,441
TROLLEY CROSSING AND SWITCH DEVICE
Warren J. Lewis, Chicago, Ill., assignor to The Ohio Brass Company, Mansfield, Ohio, a corporation of New Jersey
Application September 22, 1941, Serial No. 411,794
15 Claims. (Cl. 191—37)

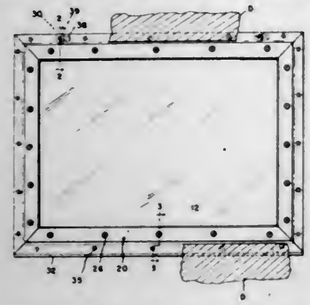


1. A trolley device for guiding a grooved current collector along a predetermined path comprising, a body member having a plurality of angularly disposed runners at the ends thereof forming part of a plurality of paths across the device, said runners terminating short of one another and arranged to guide a current collector by its groove, a fixed side guard extending along each side of each runner over at least a part of the length of the latter and in spaced substantially parallel relation thereto, a pair of movable guard members having collector guiding edges disposed in spaced and substantially parallel opposed relation to one another and forming a channel to receive and guide a current collector by its outer side faces as it moves between the spaced ends of the pairs of oppositely disposed runners, means pivotally mounting said movable guards and the said channel for swinging movements between a position wherein the channel forms a collector guiding path aligned between a pair of said oppositely disposed runners and a position forming a collector guiding path aligned with another pair of said oppositely disposed runners, and means carried by one of said guard members for wedging engagement by the exterior side of a collector for effecting swinging movement of the guard members and channel from one of said positions to the other.

2,316,442
BLACK-OUT WINDOW
Ralph H. Lootens, Detroit, Mich., assignor to Motor Products Corporation, Detroit, Mich., a corporation of New York
Application February 2, 1942, Serial No. 429,318
7 Claims. (Cl. 189—64)

1. A black-out window assembly comprising a window frame having an outwardly opening channel portion provided at opposite outer edges thereof with lateral flanges, and a garnish por-

tion upon said lateral flanges and constituting a closure for said channel portion, an opaque panel substantially parallel to the garnish portion of said window frame, a support for said opaque panel carried by one of said lateral flanges, and a



resilient cushion for one or more transparent panes within said frame having a lip extending laterally beyond the other of said lateral flanges and disposed in surface-to-surface relation with said opaque panel.

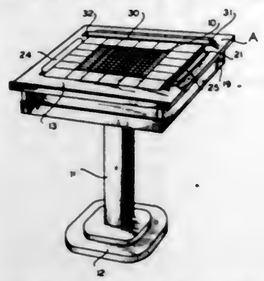
2,316,443
DISPLAY STAND
William L. Luckey, Detroit, Mich., assignor to Tivoli Brewing Company, Detroit, Mich., a corporation of Michigan
Application August 20, 1941, Serial No. 407,561
6 Claims. (Cl. 40—126)



1. A display stand comprising a back, a shelf extending forwardly therefrom and having its rear edge forwardly inclined adjacent and towards its lateral extremities, two vertical sets of strips arranged in forwardly and outwardly stepped relation one on each side of said back, said strips being horizontally slotted intermediately of their height to receive a portion of the inclined rear edge of said shelf, and the inner vertical edge faces of the strips being shaped to form recesses between them and the strips adjacent and inwardly disposed relative thereto to support vertical margins of sheets in said recesses, said shelf being adapted to support the undersides of said sheets.

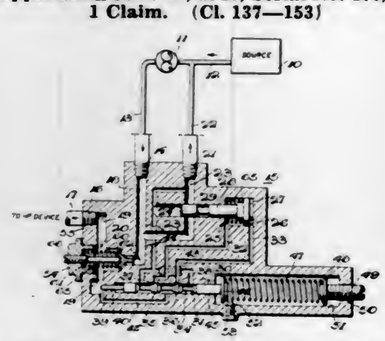
2,316,444
BOWLING SCORE SHEET DISPLAY TABLE
Royal J. MacMillan, St. Paul, Minn., assignor of one-third to Franklyn M. Lewis and one-third to William C. Kregel, both of St. Paul, Minn.
Application September 2, 1941, Serial No. 409,177
3 Claims. (Cl. 282—15)

1. A bowling score sheet display table including a storage compartment for a supply of original and duplicate score sheets, a separate storage compartment for the duplicate score sheets after they have been used, means for moving the sheets into operative position across the top of said table, a separate elongated storage compartment for a supply of carbon tissue, a channel guide member extending transversely across said table, a pair of flat bars pivoted to the top of said table, one of said bars providing a means for holding the carbon tissue between the score sheets in operative position, the other of said bars having a rule edge against which the original score sheets may be torn off, said chan-



nel guide member adapted to protect the edge of the carbon tissue which extends between the score sheets, and means for carrying the carbon copy of the score sheet into said separate storage compartment therefor.

2,316,445
PRESSURE REGULATOR
John Marshall, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application June 27, 1941, Serial No. 400,114
1 Claim. (Cl. 137—153)



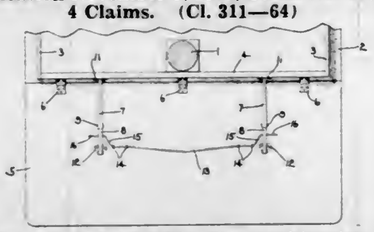
A pressure regulator comprising an inlet conduit for fluid under pressure, an outlet conduit for such fluid, a check valve located therebetween, a fluid return conduit in circuit with said inlet conduit, a cut-off valve between said fluid inlet conduit and said fluid return conduit, a servo-valve for controlling the operation of said cut-off valve, a pin connected to one end of said servo-valve, a spring in compression against the other end of said servo-valve, said pin projecting with a sliding sealed fit, into said outlet conduit and movable against compression of said spring to operate said servo-valve when the pressure against said pin in said outlet conduit exceeds a fixed value, a cylinder having a fluid conduit opening into each end thereof, said fluid conduits being connected, through said servo-valve to said outlet conduit, a piston within said cylinder connected to said cut-off valve, so that upon movement of said servo-valve due to excessive pressure upon said pin communication between said cylinder and said outlet pressure conduit is established to move said piston and carry said cut-off valve to its open position, thereby placing said inlet pressure and said fluid return conduits in direct communication.

2,316,446
HOE HANDLE ATTACHMENT
Karou Matsunaga, Kalaheo, Kauai, Territory of Hawaii
Application May 13, 1941, Serial No. 393,286
3 Claims. (Cl. 97—71.1)



1. In a device of the class described, a hoe handle, a section at the end of the handle detachable therefrom and ferrule means thereon to fit the handle, an extension on one side of the section, a cut away portion on the handle to receive the extension, a scraper on the section and a pocket in the handle to receive the scraper.

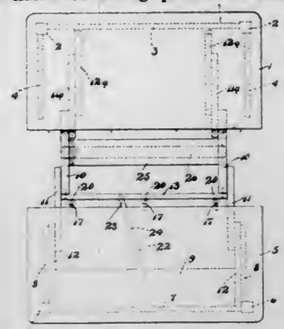
2,316,447
TRIP MECHANISM FOR TABLE LEAF BRACE
Thurlow E. McFall, Sparta, Mich., assignor to Michigan Artcraft Company, Sparta, Mich., a corporation of Michigan
Application November 3, 1941, Serial No. 417,611
4 Claims. (Cl. 311—64)



1. In a drop leaf table, the combination with two spaced apart toggle braces connecting the leaf with the table to support said leaf in a horizontal position, of a trip to break the toggles to lower the leaf to vertical position comprising, an elongated rod rockably mounted at the under side of the leaf to turn about a horizontal axis and provided with a handle portion between its ends offset from the rod to extend downwardly and outwardly from the leaf when it is in horizontal position, said rod at each end being provided with an offset arm located in a plane substantially at right angles to the plane of said handle portion and disposed between the link of the toggle brace connected to the leaf and the inner side of said leaf, said arms on outward pull of the handle breaking the toggle braces in a downward and outward direction, and said arms swinging upwardly and away from the links of the toggle braces with which they are engaged in breaking said toggle braces to thereby occupy a substantially horizontal position with the handle portion of the rod lying in a substantially vertical position at the inner side of the lowered leaf.

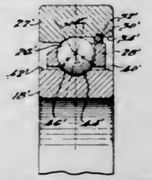
2,316,448
EXTENSION TABLE
Thurlow E. McFall, Sparta, Mich., assignor to Michigan Artcraft Company, Sparta, Mich., a corporation of Michigan
Application May 4, 1942, Serial No. 441,635
3 Claims. (Cl. 311—42)

1. In a table, two groups of extensible slides, a top member permanently secured to one of the end slides of each of said groups, a second top member, two-part hinges connecting said second top member with an intermediate slide member of each group, a supporting structure connected to the other ends of said extensible slide groups, said fixed top member being provided with recesses



at an edge and the parts of said hinges connected with said intermediate slides having projecting portions to enter said recesses in which position the hinged top member may be turned to lie over and against the fixed top member or lie in the same plane therewith, as specified.

2,316,449
BEARING
John W. Parker, Detroit, Mich.
Application May 31, 1941, Serial No. 396,042
4 Claims. (Cl. 308—195)

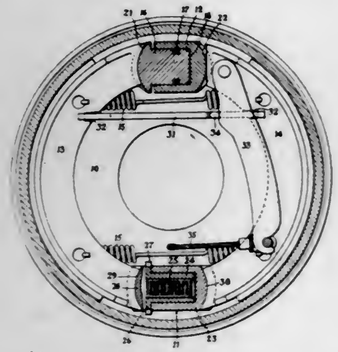


1. A bearing comprising, in combination, a one-piece inner race member, a one-piece outer race member, and a plurality of balls arranged between said race members, each of said race members being so constructed and arranged as to provide two axially spaced points of contact between it and said balls, said points of contact on one of said race members being disposed on opposite sides of and spaced a substantial distance from a plane including the centers of said balls, one of said points of contact on the other of said races being disposed substantially in said plane, three of said points of contact between said races and said balls being such as to provide a true rolling effect therebetween, and the fourth point of contact between said races and said balls being so located with respect to the remaining three points of contact between the races and the balls as to necessitate a slippage between said balls and said fourth point of contact during true rolling of said balls at the three remaining points of contact.

2,316,450
BRAKE FOR VEHICLES
Frank Gordon Parnell, Leamington Spa, England, assignor to Automotive Products Company Limited, Leamington Spa, England
Application October 3, 1941, Serial No. 413,545
In Great Britain October 28, 1940
7 Claims. (Cl. 188—106)

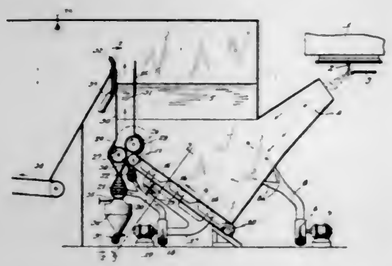
1. A brake comprising a brake support, two

shoes mounted on the support having fulcra which are movable relatively to each other to adjust the shoes and compensate for lining wear, the fulcrum of one shoe being fixed relatively to the brake support and the fulcrum of the other shoe being adjustable relative thereto, a fluid pressure wheel cylinder acting between the shoes opposite their fulcra and capable of sliding



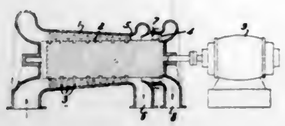
movement parallel to its axis on the brake support so that both shoes may be adjusted by the movement of one fulcrum, and parking brake spreading means acting between the shoes at or near the ends thereof upon which the fluid pressure wheel cylinder acts whereby the relative position of the points of connection of the parking brake spreading means to the two shoes is substantially unaltered by the shoe adjustment.

2,316,451
APPARATUS FOR PRODUCING MINERAL WOOL
John Page, Wilmette, Ill., assignor to United States Gypsum Company, Chicago, Ill., a corporation of Illinois
Application November 18, 1939, Serial No. 305,060
11 Claims. (Cl. 154—27)



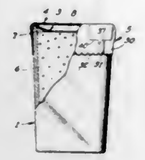
11. Apparatus for producing debeaded and felted mineral wool comprising means to provide a gaseous suspension of mineral wool containing beads and beaded fibers, means to separate the beads and beaded fibers from said suspension, means to comb the separated beaded fibers to segregate the beads therefrom, means to intermingle the combed fibers in suspension with the original bead-free fibers, means to atomize a fiber-coating agent into said mixed suspension, and means to felt said treated fibers.

2,316,452
AXIAL BLOWER
Hans Pfenninger, Wettingen, Switzerland, assignor to Aktiengesellschaft Brown, Boverie & Cie, Baden, Switzerland
Application February 2, 1942, Serial No. 429,329
In Switzerland December 9, 1940
7 Claims. (Cl. 230—115)



2. An axial flow blower comprising an impeller drum, a turbine mounted on the same shaft as the impeller drum, a common casing for said impeller drum and said turbine, and means for the flow of fluid from the impeller drum to a point of use including a branch for the flow of part of the fluid directly from the impeller drum to said turbine without substantial change of direction and without leaving the common casing.

2,316,453
CLOSURE MEMBER
Carlo Ray and Don Ray, Beverly Hills, Calif.
Application May 13, 1941, Serial No. 393,192
4 Claims. (Cl. 215—38)

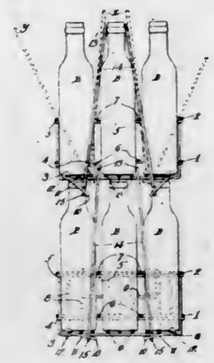


4. A closure member for jars, glasses and other containers comprising: a precut outer member composed of foldable material and adapted to cover the opening into a container and to have its edge portions folded around said opening to form a skirt and a sheet of stretchable, moisture-resistant, thermoplastic material on the lower surface of said outer member, said sheet of thermoplastic material being attached at edge portions only to the lower surface of the outer member, whereby said sheet is adapted to contact with and seal the opening of a container and to be drawn thereinto by the cooling of the heated contents.

2,316,454
CASE CARRIER FOR BOTTLES
Emerson J. Reid, Kansas City, Mo., and John W. Taylor, Kansas City, Kans.; said Taylor assignor to Hume Manufacturing Company, North Kansas City, Mo., a corporation of Missouri
Application January 14, 1942, Serial No. 426,682
10 Claims. (Cl. 224—48)

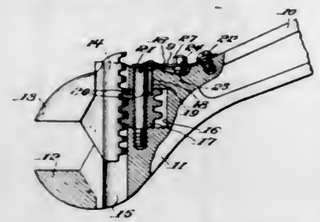
4. A case carrier comprising a supporting platform for bottles or the like, a handle adjustable upward and downward relative to said platform, and means of stiff character extending transversely of the platform and associated with the latter and the handle and pivoted to the platform for swinging upward toward and downward from

the underside of the platform, concurrently with corresponding adjustments of the handle, and



pivotally engaged with the lower end of the handle.

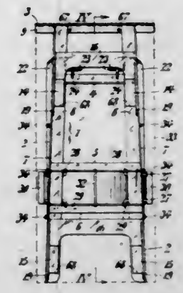
2,316,455
WRENCH
Frederick P. Richardson, Klickitat, Wash.
Application August 23, 1941, Serial No. 408,094
2 Claims. (Cl. 81—165)



1. An adjustable wrench, comprising a stationary jaw provided with a handle, a movable jaw mounted in the stationary jaw, a manually operated worm in the stationary jaw for moving the movable jaw and having a plurality of openings in one end, a curved groove in the stationary jaw adjacent the worm, a leaf spring secured at one end to the stationary jaw and extending over the curved groove, a pin carried by the opposite end of the leaf spring and adapted to enter the openings in the worm, said leaf spring provided with a slot, a member sliding in the slot of the leaf spring and having its lower end engaging the curved bottom of the groove and the upper end above the leaf spring forming an operating knob.

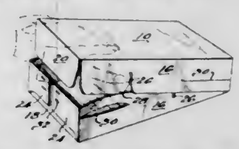
2,316,456
CONVERTIBLE CARRIER EQUIPMENT
Ernest C. Robes, Jr., Etna, N. H., assignor of one-half to Fred P. Carr and Earle C. Gordon, Jr., both of Lebanon, N. H.
Application April 16, 1941, Serial No. 388,751
3 Claims. (Cl. 224—9)

1. In a convertible carrier device the combination of a rigid frame fabricated of corresponding section elements, said frame including convergent side members having a tie component across and projecting beyond the closer related ends of said members; parallel braces between the side members with the brace remote from the tie component spaced inwards from the wider related ends of said side members; spaced pairs of similar section legs pivoted to and normally collapsed within the frame side members; means whereby the respective pairs of legs are ar-



restable in frame supporting position; and means cooperative with the respective leg free ends to adapt the device for hauling purposes.

2,316,457
PAPER BOX
Henry B. Royce, Birmingham, Mich.
Application December 30, 1940, Serial No. 372,247
3 Claims. (Cl. 229—23)

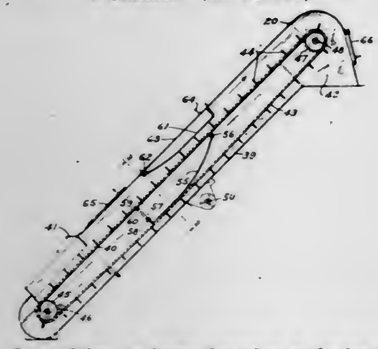


1. A box formed from paper or the like comprising separable and identical top and bottom sections, each of said sections comprising a main portion forming the top of the box in the upper of said sections and the bottom of the box in the lower of said sections, each of said sections including side and end walls, one of said end walls of each of said sections being secured to both side walls of the corresponding section and the remaining end wall of each of said sections being free of direct attachment to the side walls thereof, each side of each of said sections being transversely slotted from its free edge for at least part of the width thereof to form a tongue adjacent that end of said sides nearest the last mentioned end, and each of said sides being slitted longitudinally thereof intermediate opposite edges thereof adjacent that end thereof closest to the first mentioned of said ends, said sections adapted to be assembled together with their open sides opposed to each other and with one of said sections received within the other thereof, and the tongues of at least one of said sections projecting through the slits of the other of said sections whereby to frictionally lock said sections together.

2,316,458
METHOD OF PREPARING SOYBEANS
Oreste Scalise, New York, N. Y.
No Drawing. Application July 12, 1940, Serial No. 345,115
17 Claims. (Cl. 99—98)

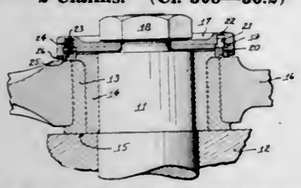
1. The method of processing soya beans which comprises soaking soya beans in water containing sodium chloride and flavoring-coloring agent, and frying the beans in hot oil until the residual moisture of the beans is about 2% or 3%.

2,316,459
ROTARY DRIER
Harlow L. Schmidt and Henry C. French, Milwaukee, Wis., assignors to The Heil Co., Milwaukee, Wis., a corporation of Wisconsin
Application July 3, 1939, Serial No. 282,592
9 Claims. (Cl. 34—57)



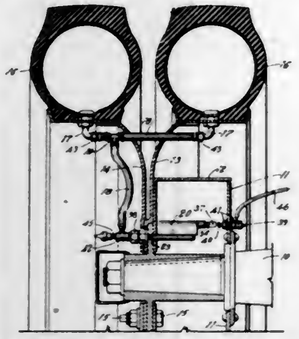
1. In a drier, a drum forming a drying zone, means for maintaining sub-atmospheric pressure in said zone, a casing having a lower inlet and an upper outlet, the latter of which communicates with said zone, an endless conveyor within said casing having movable flights for delivering a constant stream of material from said lower inlet to said zone through said upper outlet, means for preventing uncontrolled admission of air with the material including swingable air seals coacting by gravity with the upwardly and downwardly movable stretches of said conveyor, said means being positioned to form a closure between said conveyor and adjacent casing portions, and an air port adjacent the upper end of said casing for admitting controlled quantities of cold air to said drying zone.

2,316,460
GREASE RETAINER FOR CRANKPIN BEARINGS
Otto B. Schoenky, Los Angeles, Calif.
Application June 16, 1941, Serial No. 398,271
2 Claims. (Cl. 308—36.2)



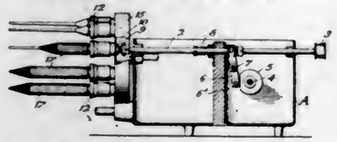
1. In a locomotive crank pin bearing, a crank pin, a plurality of relatively movable members surrounding said pin having side faces, a grease retainer positioned between two of said side faces comprising a ring of channel shaped cross section having its back in contact with one of said faces, a second ring having an annular tongue portion movably fitted in the channel of the first ring, the back of the second ring being in contact with the other of said faces, said tongue portion having a plurality of spaced sockets and being interrupted at one point to form a transverse key way, a key secured within the channel of the first ring for engagement with said key way to prevent relative rotary movement of said rings, and coiled springs within said sockets acting to separate the rings and to press their backs yieldingly against said faces.

2,316,461
TIRE PRESSURE SIGNAL
Edward F. Schubert, Keenesburg, Colo.
Application February 23, 1942, Serial No. 431,989
3 Claims. (Cl. 200—58)



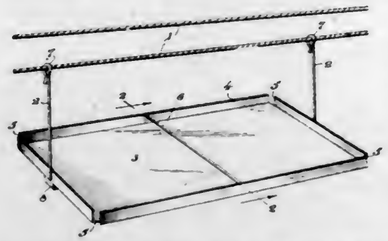
1. Means for moving a circuit closing contact in consequence of variations in air pressure comprising: a housing; a cylindrical operating chamber in said housing having an air inlet positioned concentrically at one extremity of said chamber; a flexible rubber cap; a flange surrounding said cap; a clamping bushing clamping said flange around said inlet, said cap extending through said bushing; a guide sleeve projecting from said bushing around said cap; a stem slidably mounted in said sleeve in contact with said cap to be actuated by the expansion of the latter; a head on said stem; a tubular skirt extending from said head about said guide sleeve; a flange on the extremity of said skirt; an annular abutment in said chamber about said head; and a spring compressed between said flange and said abutment to urge said stem against said cap, said head being operatively connected with said circuit closing contact.

2,316,462
WINDING MACHINE HAVING A PLURALITY OF WINDING SPINDLES
Walter Siegenthaler, Erlenbach, near Zurich, Switzerland, assignor to the firm Maschinenfabrik Schärer, Erlenbach-Zurich, Switzerland
Application December 14, 1939, Serial No. 309,295
In Switzerland February 25, 1939
6 Claims. (Cl. 242—34)



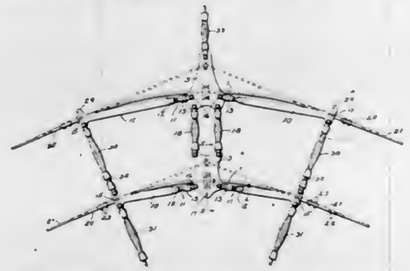
1. In a winding machine, a driving mechanism including a rotary, axially movable driving spindle; a housing for said driving mechanism: a carrier member disposed exteriorly of said housing and carrying a plurality of winding spindles; means for rotating said carrier member intermittently stepwise in response to the size of the winding in process of being wound, whereby the winding spindles are brought one after another into coaxial relation with said driving spindle; said driving spindle having a coupling member and each winding spindle having a counter coupling member; and means for axially displacing said driving spindle and its coupling member in response to the size of the winding to allow said winding spindle carrier member to be moved stepwise.

2,316,463
BIRD'S PULLEY LUNCH BOX
Raymond Skulina, Chicago, Ill.
Application March 12, 1941, Serial No. 382,928
2 Claims. (Cl. 119—51)



1. In combination with a clothesline suspended to be longitudinally movable, a bird feeding tray including a bottom having sides thereon and also crossbar means on the sides enabling birds to perch thereon, a plurality of supporting wires extending upwardly from the tray and having each a hook at its upper end which engages tightly onto said line and constrains said tray to move with the line and prevents slipping thereon, apertures on the tray to drain liquid therefrom, and weight means provided on the bottom of the tray to prevent tilting thereof.

2,316,464
SUPPORT FOR TROLLEY WIRES
Leonard V. Smoot, Newport, Ky., and Harry A. Bachler, Cincinnati, Ohio, assignors to The Ohio Brass Company, Mansfield, Ohio, a corporation of New Jersey
Application July 2, 1940, Serial No. 343,596
14 Claims. (Cl. 191—40)

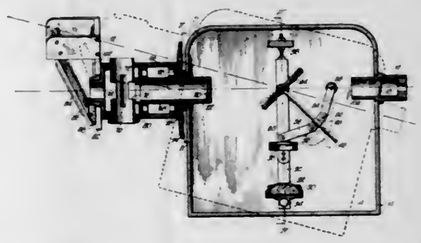


1. A support for a pair of trolley wires forming a part of an overhead system comprising a pair of bendable bars each formed to a predetermined curvature, a plate for each bar disposed on opposite sides thereof and secured to the bars adjacent the longitudinal center thereof, insulating means secured to the plates and holding the members in spaced and insulated relation, each bar provided with means to change the curvature thereof and maintain said curvature after adjustment, the said means comprising members provided with means to change the length thereof and positioned on the concave side of the bars and attached to the plates and to the bars adjacent the ends thereof whereby the curvature of the bars may be changed by adjusting the length of the said members, means associated with each end of each bar to receive and hold a trolley wire in predetermined relation thereto and means associated with each plate and each adjustable member to receive supports for the plates.

2,316,465
PRODUCTION OF CONDENSATION PRODUCTS OF KETENE
Hanns Peter Staudinger, Ewell, and Karl Heinrich Walter Tuerck, Banstead, England, assignors to The Distillers Company Limited, Edinburgh, Scotland, a British company
No Drawing. Application June 27, 1941, Serial No. 400,118. In Great Britain March 8, 1940
3 Claims. (Cl. 260—544)

1. A process for the production of beta alkoxy acid halides comprising reacting one of a group consisting of ketene and diketene with an α-halogenated aliphatic ether in the presence of a condensation catalyst.

2,316,466
INSTRUMENT FOR THE SIMULTANEOUS DIRECT DETERMINATION OF LATITUDE AND LOCAL SIDEREAL TIME FROM A SINGLE SETTING ON THE NIGHT SKY
Norman Wyman Storer, Lawrence, Kans.
Application October 1, 1941, Serial No. 413,188
9 Claims. (Cl. 88—2.2)



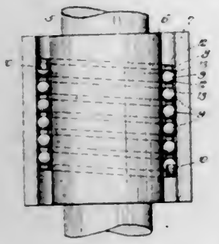
4. In an instrument for determining latitude and sidereal time from a single setting on the night sky, a sighting section having an objective lens, an eye-piece lens, a common focal plane between said lenses, structure for indicating the direction of gravity and having means for designating to the operator when said structure is vertically disposed, said structure having a scale provided with a part operable by the said structure, said scale including indicia designating latitude; and a head rotatably mounted on the sighting section having a mirror for initially reflecting the light of the index star, a half-silvered mirror intersecting the collimation axis of the objective and eye-piece lenses and disposed at an angle to the first mentioned mirror, a prism between the half-silvered mirror and the objective lens, and a scale arranged on the head to have the reading thereof changed as the head is rotated to indicate sidereal time.

2,316,467
PROCESS OF FORMING LAMINATED PRODUCTS
Oswald C. H. Sturken, Closter, N. J., assignor to Corn Products Refining Company, New York, N. Y., a corporation of New Jersey
No Drawing. Original application June 23, 1938, Serial No. 215,407. Divided and this application May 22, 1939, Serial No. 275,057
4 Claims. (Cl. 154—40)

1. Process of making a water resistant laminated article which comprises: dipping sheets of fibrous material impregnated with a substance selected from the group of substances consisting of the bitumens and waxes into a cold solution of zein, a zein solvent and a solvent of the bitu-

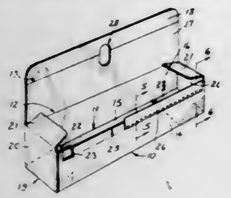
men-wax substance which is compatible with zein; and uniting the impregnated sheets by pressure.

2,316,468
BEARING ASSEMBLY
Stanley R. Thomas, Lyons, Mich., assignor to Bantam Bearings Corporation, South Bend, Ind., a corporation of Indiana
Application July 26, 1941, Serial No. 404,190
11 Claims. (Cl. 308—6)



1. A rotating and reciprocating bearing comprising an inner bearing member adapted to both rotate and reciprocate, said member having an annular cylindrical bearing surface, an outer member having an internal cylindrical bearing surface spaced radially about said inner member, a helically coiled retaining member intermediate said members and out of contact therewith, and a plurality of ball bearings retained between contiguous coils of said retaining member forming an anti-friction bearing between said members.

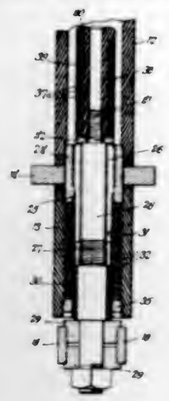
2,316,469
CARDBOARD BOX
Nils Gustav Thor, Clifton, N. J., assignor to The Hamersley Manufacturing Company, Garfield, N. J., a corporation of New Jersey
Application April 22, 1941, Serial No. 389,700
6 Claims. (Cl. 206—58)



1. A box comprising a cardboard sheet having panels adapted to define the walls of the box including a front wall and end walls, each end wall carrying an attachment flap which overlaps the front wall, the box structure being of such a character that its maintenance depends on the attachment of said flaps to said front wall, and a cutter secured to the edge of the front wall and also to said attachment flaps thereby attaching the latter to said front wall.

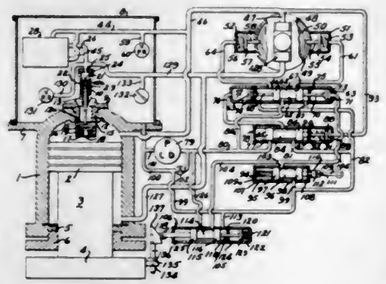
2,316,470
SWITCH CONSTRUCTION
Hugh A. Triplett, Wilmette, Ill., assignor to Schweitzer & Conrad, Inc., Chicago, Ill., a corporation of Delaware
Application August 2, 1940, Serial No. 349,709
11 Claims. (Cl. 200—149)

1. In a dry type circuit interrupter, arc extinguishing means comprising a plurality of rings of fiber stacked one above the other and providing



a bore therethrough of substantially uniform diameter in which the arc is drawn.

2,316,471
FULL AUTOMATIC PRESS CONTROL
Warren R. Tucker, Dayton, Ohio, assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del., a corporation of Delaware
Application March 15, 1940, Serial No. 324,155
12 Claims. (Cl. 60—52)

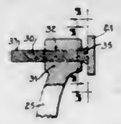


1. In combination, a main cylinder, a main plunger reciprocable in said main cylinder and supporting an actuating arm, a first pump for delivering fluid into said main cylinder to actuate said main plunger and comprising fluid operable controlling means adapted to control the flow of fluid and the direction of delivery of said first pump, a pilot pump for supplying fluid to said controlling means, valve means operable by fluid from said pilot pump to control the supply of fluid from said pilot pump to said controlling means, a by-pass valve, a starter valve movable selectively into one position for causing fluid from said pilot pump to actuate said valve means, or into another position to cooperate with said by-pass valve for by-passing said pilot pump, cam means operable by said actuating arm of said main plunger for actuating said by-pass valve to control the flow of fluid from said pilot pump to said controlling means, and further valve means operable independently of said by-pass valve and adapted in response to a predetermined position of said plunger to vary the flow of fluid from said first mentioned valve means to said controlling means.

2,316,472
MANUFACTURE OF VINYL ESTERS
Karl Heinrich Walter Tuerck, Banstead, England, assignor to The Distillers Company Limited, Edinburgh, Scotland, a British company
No Drawing. Application April 5, 1940, Serial No. 328,098. In Great Britain April 18, 1939
1 Claim. (Cl. 260—486)

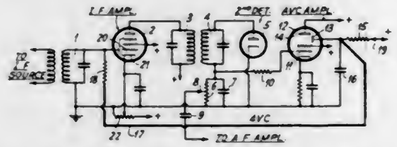
A process for the production of vinyl crotonate which comprises bringing crotonic acid into solution by dissolving it in an organic solvent, the quantity of which being such as to keep the crotonic acid dissolved during the reaction, adding a mercuric compound and sulphuric acid separately so as to precipitate mercuric sulphate in the reaction mixture and introducing into said mixture, at the rate at which it is absorbed, acetylene while the temperature is maintained below 30° C.

2,316,473
PROTECTOR FINGER FOR LOOMS
Richard G. Turner, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application March 4, 1942, Serial No. 433,402
9 Claims. (Cl. 139—345)



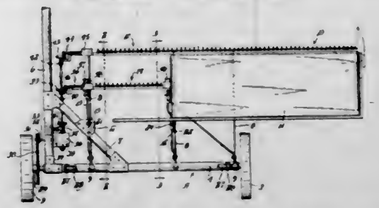
1. In a loom protector finger having a head with a transverse threaded bore extending therethrough, and a plug of non-metallic wear resisting material of cylindrical form having initial shallow threads cut in the periphery therefrom to conform to the pitch of the threads of the bore, the threads of the bore being deeper than the initial threads of said plug to be embedded into the latter when said plug is threaded into said bore, said threads within the bore cooperating to hold said plug with the rear end thereof projecting behind said head for engagement with a shuttle binder.

2,316,474
AMPLIFIER CONTROL CIRCUITS
Jacob van Slooten and Bernardus W. van Ingen Schenau, Eindhoven, Netherlands, assignors to Radio Corporation of America, a corporation of Delaware
Application May 3, 1940, Serial No. 333,080
In the Netherlands September 11, 1939
7 Claims. (Cl. 179—171)



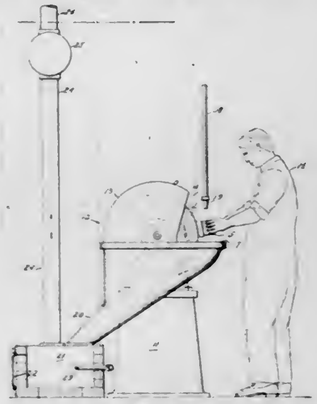
1. In combination with a signal voltage amplifier tube, means responsive to signal amplitude variation for controlling the gain of the amplifier, said responsive means including a tube having at least an electron emission element, a plate, a control electrode and a secondary electron emission electrode arranged adjacent the path of electrons flowing from said element to said plate, a direct current voltage control connection from the secondary emission electrode to said amplifier, and means for applying signal-representative voltage to said control grid.

2,316,475
UNDERCUT SICKLE FOR WINDROWERS
Peter Casper Viken, Roseau, Minn.
Application February 26, 1942, Serial No. 432,379
5 Claims. (Cl. 56—23)



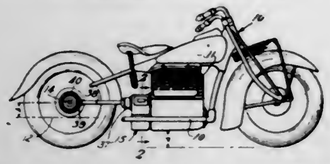
1. In a windrower, an ambulent frame, a main sickle bar extending across said frame, a conveyor behind said sickle bar having a discharge end adjacent one end of said sickle bar, and an auxiliary sickle bar secured to said frame and positioned at a point below the height of said main sickle bar, said auxiliary sickle bar being further located approximately between the discharge end of said conveyor and a point in tandem rearward alignment with the adjacent end of said main sickle bar.

2,316,476
SCRAP DISPOSAL SYSTEM
Harry J. Walpole, Grantwood, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application January 17, 1942, Serial No. 427,191
4 Claims. (Cl. 51—273)



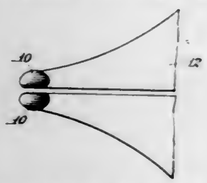
1. In combination with a grinding wheel, means for burning scrap from work being ground, which comprises an envelope extending about said wheel, a work-receiving aperture formed in said envelope, said envelope having a scrap trough beneath said work-receiving aperture, means for directing an air stream into said trough, a combustion chamber below said envelope, an inclined passageway connecting said envelope and said combustion chamber, means for maintaining said combustion chamber in heated condition, and means including an exhaust blower and an exhaust conduit opening into said chamber to draw off gases formed in said chamber.

2,316,477
SHAFT DRIVE FOR MOTORCYCLES
George B. Weaver, Springfield, Mass., assignor to Indian Motocycle Company, Springfield, Mass., a corporation of Massachusetts
Application August 18, 1941, Serial No. 407,255
11 Claims. (Cl. 180—33)



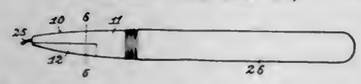
1. In a motorcycle which includes a frame, front and rear wheels mounted in the frame, and a motor carried by the frame intermediate the wheels, the crank shaft of the motor being below the level of, and at right angles to the axle of the rear wheel, a power train from the crank shaft to the axle of the rear wheel which comprises a clutch mechanism and a speed change transmission mechanism arranged in sidewise parallel relationship, the forward end of the clutch mechanism being connected to the crank shaft and the rear end of the clutch mechanism being connected by a laterally directed drive means to the rear end of the transmission mechanism, said transmission mechanism extending forwardly from its connection with said laterally directed drive means, and a horizontal drive shaft including a universal joint connected to the axle of the rear wheel and connected to said transmission mechanism forwardly of said laterally directed drive member.

2,316,478
PEN POINT MATERIAL
Norman E. Weigel, Short Hills, N. J.
Application October 21, 1941, Serial No. 415,900
6 Claims. (Cl. 120—109)



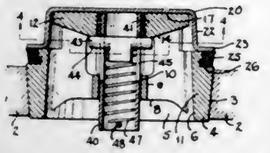
1. Pen point material consisting of two preformed and pre-finished writing point-forming bodies joined by a cuttable portion cross-sectionally smaller than the bodies and arranged between them.

2,316,479
FOUNTAIN PEN
Norman E. Weigel, Short Hills, N. J.
Application August 27, 1942, Serial No. 456,312
9 Claims. (Cl. 120—52)



1. In a fountain pen, a nib, and an end section composed of two component parts, one of said parts having a cross-sectionally reduced integral extension which fits in the other part and constitutes an ink feed bar, said parts serving to clamp the nib and to hold the same in writing position.

2,316,480
FLAT-TOP SLUSH PUMP VALVE
Richard E. White, Walter E. Liljestrand, and Alexander S. Volpin, Houston, Tex., assignor to Mission Manufacturing Company, a corporation
Application August 3, 1940, Serial No. 350,832
1 Claim. (Cl. 251—144)



In a slush pump valve assembly, a seat ring having a seat thereon, a valve member, a guide way on said ring, a guide stem on said member for cooperation with said guide way, a stop head on said ring above said seat to arrest downward movement of said valve member, a stop seat on said member for cooperation with said stop head, a means to limit the upward movement of said member relative to said ring seat including means movably carried by said stem and movable relative thereto, a resilient means normally urging said limiting means against said stop head.

2,316,481
HALOGENATED POLYMERS OF ETHYLENE
Donald Whittaker, Northwich, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application January 6, 1941, Serial No. 373,380. In Great Britain January 16, 1940
4 Claims. (Cl. 260—94)

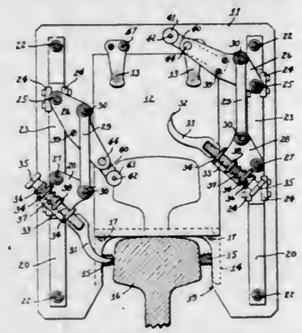
1. A composition of matter comprising a halogenated ethylene polymer and a small amount of a substance selected from the class of aromatic oxygen containing compounds of the class consisting of salicylic acid, and esters of aromatic acids with monohydric, dihydric and trihydric phenols.

2,316,482
VARIABLE PITCH PROPELLER
Crawford S. Williams, Durham, N. C., assignor of fifty per cent to John A. Williamson, Raleigh, N. C.
Application August 23, 1941, Serial No. 408,088
7 Claims. (Cl. 170—163)



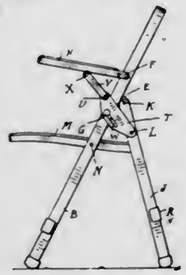
1. A variable pitch propeller comprising a propeller shaft, a hub fixed thereon one side of said hub being formed with an annular groove, radial blade shafts having portions journaled in said hub and extending into said groove, cam levers on the said portions within said groove, spring means holding said cam levers and their blade shafts in initial position and arranged to return the cam levers and blade shafts to initial position after operation, a shell rotatably and slidably mounted on said propeller shaft, said shell having a substantially continuous annular surface engageable with said cam levers to tilt said levers and thereby vary the pitch of said blade shafts, and means for operating said shell in directions toward and away from said cam levers.

2,316,483
CONTOUR SCRIBER
Luther F. Williams, Oakland, Calif.
Application June 2, 1941, Serial No. 396,369
4 Claims. (Cl. 33—23)



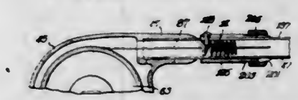
1. In a contour scriber having a flat platen with means for clamping the same to the object to be scribed and means for holding a sheet of paper on said platen, movable feeling and tracing arms interconnected for simultaneous corresponding movement to trace the contour of the object on the paper, a resilient extension carried by said tracing arm, tracing means carried by said extension, an adjusting member carried by said arm for raising said tracing means off the paper, and locking means operated by said adjusting member for holding the arms stationary.

2,316,484
FOLDING CHAIR
Kenneth G. Maurer, Muncie, Ind., assignor to The Durham Manufacturing Company, Muncie, Ind., a corporation of Indiana
Application May 25, 1940, Serial No. 337,126
5 Claims. (Cl. 155—142)



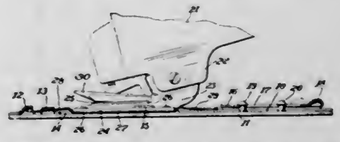
2. A portable foldable structure comprising a main frame, a rear frame pivotally connected thereto at its upper end, a seat pivoted to the main frame and pivotally and slidably connected to the rear frame whereby the frames may be moved from expanded to proximate relation, means to limit the extent of the pivotal movement of said seat, an arm rest pivotally connected at its rear end to said main frame at the upper portion of the latter, and a foldable device slidably pivotally interconnecting the said arm rest, main frame, and rear frame, to stay said arm rest in raised position when the frames are in the expanded relation, but which functions when the seat is swung upwardly and the rear frame is drawn adjacent to the main frame, to have drawn said arm rest down and interlocked it and the main frame and the rear frame in closely collapsed condition.

2,316,485
DRAFTING APPARATUS
Adolph Langsner, Chicago, Ill., assignor to Eugene Dietzgen Co., Chicago, Ill., a corporation of Delaware
Original application May 8, 1939, Serial No. 272,335. Divided and this application January 10, 1940, Serial No. 313,166
5 Claims. (Cl. 33—79)



2. A parallel motion apparatus comprising an arm having spaced pulleys thereon, flexible driving means on said pulleys, a tubular member on said arm and enclosing the flexible driving means between said pulleys, a spring connected to said flexible driving means within said tubular member and adjustably anchored on said arm under tension to urge said driving means in one direction on said pulleys, manually operable means to adjust the tension of said spring comprising a sleeve connected to said spring and having contractible portions encircling and longitudinally slidable on said tubular member, and clamp means manually operable to secure said sleeve in longitudinally adjusted position on said tubular member.

2,316,486
SUPPORTING BASE FOR ELECTRIC SCISSORS
Malcolm S. Park, Mount Kisco, N. Y., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application April 18, 1942, Serial No. 439,469
4 Claims. (Cl. 30—231)



4. A base plate for supporting an electric scissors having a blade support formed with a flange comprising, a plate having a pointed toe portion and a heel portion, a cap carried by the plate and located at the toe thereof, a latch located on the heel of said plate and slidable to and from said cap, a strap located adjacent said cap, a slot formed in said plate adjacent said strap, and a lip overhanging said slot, all of the above mentioned elements being located on the upper face of said plate and in a position to cooperate with the flanged blade support of said scissors.

2,316,487
CONTAINER FOR THE STORAGE OF SOLUTIONS OF PEROXYGEN COMPOUNDS
Joseph S. Reichert and Samuel A. McNeight, Niagara Falls, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 1, 1940, Serial No. 343,454
1 Claim. (Cl. 206—84)

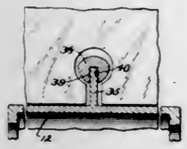
A package of a peroxygen compound comprising an alkaline solution of a peroxygen compound contained in a metallic container, the surfaces of which container coming in contact with the solution of the peroxygen compound are formed of a metallic material selected from the group which consists of magnesium and magnesium alloys of high magnesium content.

2,316,488
BIMETAL VALVE
Frank Roth, Pelham Manor, N. Y.
Application May 27, 1942, Serial No. 444,633
7 Claims. (Cl. 123—188)



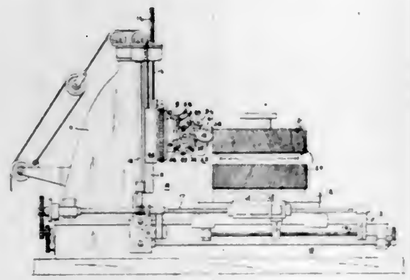
1. A valve of bimetal construction suitable for use in internal combustion engines which comprises a hollow stem of a high tensile strength alloy and a hollow head piece of a high temperature resistant alloy, said head piece comprising a domed head, a seating surface and including a section part way down the curve at the neck of the finished valve, said hollow stem and head piece being welded together below said seating surface.

2,316,489
FILING APPARATUS
Richard P. Scholfield, New York, N. Y., assignor to Scholfield Service, Inc., New York, N. Y., a corporation of New York
Application April 1, 1941, Serial No. 386,326
7 Claims. (Cl. 129—16)



1. A rotary filing drum having a card retaining rail associated with its rim, said rail comprising a web connected to the rim and a head adapted to be embraced by the edges of apertures in the cards mounted on the drum, a section of said head being removable from the web whereby the cards may be removed by radial movement over the exposed end of the web.

2,316,490
GEAR GRINDING APPARATUS
Harold W. Semar, Drexel Hill, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 25, 1942, Serial No. 436,167
29 Claims. (Cl. 51—56)

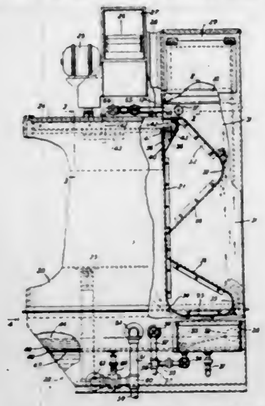


6. In a machine for grinding faces on helical teeth of a gear member, supporting means for the gear member providing for rotation of the latter about its axis; a grinding wheel having its grinding face in a plane of rotation thereof; means for supporting the grinding wheel so that when it is in grinding position it effects grinding of a tooth face along lines, in a base circle tangent plane, from the dedendum circle to the addendum circle; means for effecting cycles of translatory movement of the grinding wheel in order that it may be positioned for tooth grinding in successive tooth spaces of the gear member and, when so positioned, in order that it may be fed parallel to the gear member axis to grind increments of tooth faces; mechanism utilizing power supplied to the machine for rotating said supporting means and for operating the means for effecting cycles of translatory movement of the grinding wheel so that operation of the last-named means occurs in timed relation with respect to rotation of the gear member; and means for imparting feeding movement to the grinding wheel in order that the convolutions of tooth face increments may be arranged to provide tooth faces uniformly ground from end to end of the teeth.

2,316,491
GAS HANDLING APPARATUS
Rudolph R. Teichner, Jackson Heights, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application October 7, 1939, Serial No. 298,392
6 Claims. (Cl. 261—112)

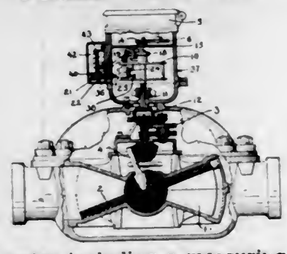
1. In a spray booth having vertical walls, means to deliver a liquid to one of the walls to form a continuous film of substantially uniform thickness to run down over a front surface of the wall, the said means comprising a trough extending horizontally along the top edge of the wall on the rear side thereof, the top edge of the wall forming a lip for the trough, a liquid supply pipe extending down into the trough to deliver liquid

thereinto below the level of the lip, and a plate-like horizontal baffle surrounding the pipe at a



level above the outlet of the pipe and below the top of the trough.

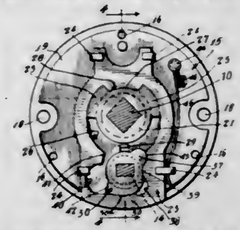
2,316,492
FLUID METER
Leon Trager, Newark, N. J., assignor to Worthington-Gamon Meter Company, Newark, N. J., a corporation of New Jersey
Application August 26, 1941, Serial No. 408,322
5 Claims. (Cl. 73—233)



1. In a meter including a measuring piston, a registering mechanism and a gear train for transmitting measuring movement of the piston to the registering mechanism, means connecting the gear train and registering mechanism and constructed and arranged for correcting inaccuracies in the measurement registering movement of the registering mechanism, said means including a transmission carrier connected to the gear train for rotation thereby and connected to the registering mechanism to impart movement thereto, a cam carried by said transmission carrier for limited movement relative to the carrier, a slip clutch associated with the cam for movement therewith in one direction only, and means connected to the clutch to impart movement from the clutch to the registering mechanism in a direction reverse of the movement imparted to the registering mechanism from the transmission carrier.

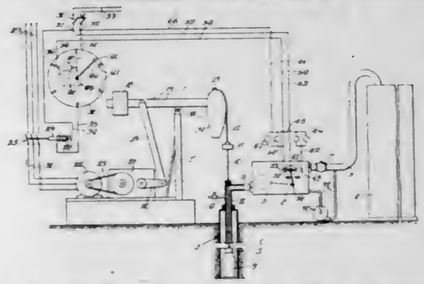
2,316,493
SPINDLE LOCK
Roy Bell Swarens, Ernest F. Attula, and Harry Stuart Molony, Los Angeles, Calif., assignors to Pacific Plastic & Manufacturing Company, In Los Angeles, Calif., a corporation of Californ
Application August 11, 1941, Serial No. 406,310
5 Claims. (Cl. 292—359)

1. A spindle locking mechanism comprising a plate, a disk mounted upon said plate and engaging said spindle, a dogging mechanism slidably mounted upon said plate and surrounding said disk, an aperture in said dogging mechanism adapted to allow free rotation of said disk, a notch in said disk and a lug upon said dogging



mechanism adapted to engage said notch in dogging engagement, and a cam member mounted on said plate and engaging said dogging mechanism for movement of said dogging mechanism into and out of dogging engagement with said disk.

2,316,494
OIL WELL PUMP CONTROLLER
Raymond Tipton, Chicago, Ill., assignor to W. C. Dillon & Company, Inc., Chicago, Ill., a corporation of Illinois
Application May 12, 1941, Serial No. 393,085
9 Claims. (Cl. 103—25)

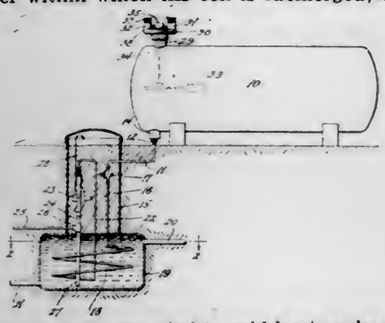


1. A system for controlling a motor operated oil well pump comprising, in combination with said pump and its motor, an electrically operated time switch clock, an electric circuit controlled thereby, means controlled by said clock through said circuit to stop the pump motor when the clock hand reaches a certain position and to start the pump motor when the clock hand reaches a certain succeeding position, an electric circuit for actuating said clock, and means controlled by the pumping of oil by the pump for automatically opening said clock actuating circuit pursuant to such pumping and for closing it pursuant to cessation of such pumping, whereby during such pumping of oil by the pump the clock stops and stands still and the motor operates the pump independently so long as it pumps oil and upon cessation thereof the clock resumes operation and moves its hand to position to stop the motor which then remains idle for a definite time interval until the clock hand moves to position to start the motor.

2,316,495
LIQUEFIED GAS DISPENSING SYSTEM
Loyd J. White, San Antonio, Tex., assignor to Southern Steel Company, San Antonio, Tex., a corporation of Texas
Application October 9, 1940, Serial No. 360,471
6 Claims. (Cl. 62—1)

1. In a liquefied gas dispensing system having

a permanently installed pressure storage tank mounted above the ground; a liquid outlet conduit communicating with the bottom of the tank and leading underground; a first stage pressure reducing regulator in said conduit; a heat exchanger including a coil of pipe connected to said regulator and a chamber containing circulating water within which the coil is submerged; a gas



outlet conduit connected to said heat exchanger; a second stage pressure reducing regulator in the gas outlet conduit also arranged underground and connected to deliver gas to a service pipe, and a protecting casing for said regulators supported on the heat exchanger and extending above the ground level and filled with heat insulating material to a point above both regulators.

2,316,496

PROCESS FOR PRODUCING NONSTICKING, SMOOTH, FLAMEPROOFED, THIN, FLEXIBLE SHEETING

William D. White, Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 23, 1940, Serial No. 346,993
1 Claim. (Cl. 117—145)

The process of producing flameproof, nonsticking, transparent, regenerated cellulose sheet which comprises passing gel regenerated cellulose in sheet form through an aqueous bath comprising 7% ammonium sulfamate, 1.5% glycerol, and sufficient emulsion of the composition:

	Parts
Carnauba wax	22.7
Stearic acid	9.7
Morpholine	11.3
Shellac (bleached)	18.2
Mono-sulfonated alkyl benzene	2.3
Water	391.0

to give 0.5% solids and thereafter drying said sheet material.

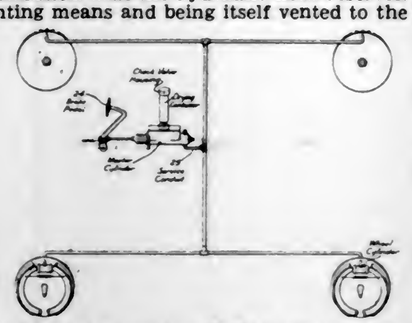
2,316,497

HYDRAULICALLY ACTUATED SYSTEM

John C. Woodhouse, Cragmere, and Kenneth E. Walker, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application October 28, 1941, Serial No. 416,806
3 Claims. (Cl. 188—152)

1. In a hydraulically-actuated system including a plurality of slave cylinders, a master cylinder, a hydraulic fluid reservoir communicating with the master cylinder, air venting means for the hydraulic fluid reservoir and conduit means for transmitting hydraulic fluid pressure from the master cylinder to the slave cylinders, the combination therewith of a container holding a drying agent, the container being in closed communication with the hydraulic fluid reservoir air venting means and being itself vented to the at-



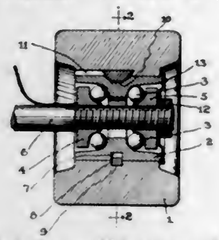
mosphere at a point such that air entering the hydraulic fluid reservoir must first pass over the drying agent and be deprived of its water content.

2,316,498

WHEEL FOR ROLLER SKATES

Charles A. Biczak, Jr., Passaic, N. J.

Application November 18, 1941, Serial No. 419,541
3 Claims. (Cl. 301—5.7)



1. In a wheel, the combination of a wheel rim having an axially disposed seat for a hub and an internally disposed groove in said seat, a hub in said seat having a peripheral groove registering with the first mentioned groove, a split ring in the said grooves engaging the hub and wheel rim and having spaced ends and a block between the spaced ends of the said ring.

2,316,499

TALL-OIL REFINING

Joseph N. Borglin, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application August 16, 1941, Serial No. 407,247
16 Claims. (Cl. 260—97.5)

1. A process for refining crude tall-oil which comprises subjecting the tall-oil in liquid phase to the action of an aqueous silicofluoride solution, and recovering the refined tall-oil.

2,316,500

FISHING LINE RETRIEVER

Elwyn R. Bray, St. Paul, Minn.

Application May 20, 1942, Serial No. 443,787
4 Claims. (Cl. 43—30)

1. A fishing line retriever comprising a single length of stiff wire whose major portion constitutes a shaft, the wire at one end of said shaft being bent into the form of a figure 8 having one small loop at one side of said shaft and a relatively large loop at the opposite side of said shaft, the wire at the other end of said shaft

being also bent into the form of a figure 8 having a small loop at said one side of said shaft and a relatively large loop at said opposite side of said shaft, said large loops being of two different sizes and being adapted to surround and



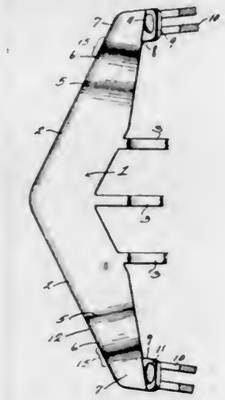
slide downwardly upon a snagged fishing line with either of said large loops disposed downwardly, said small loops providing means for connecting a drop-line with either end of said shaft, and a weight attached to the intermediate portion of said shaft.

2,316,501

PEANUT AND SIMILAR HARVESTING PLOW

George Washington Braxton, Scotland Neck, N. C.

Application March 16, 1942, Serial No. 434,949
4 Claims. (Cl. 55—54)



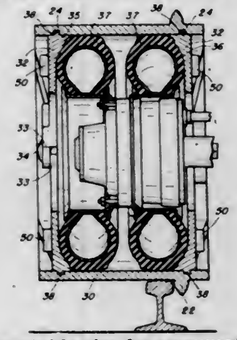
1. A plow comprising a relatively long blade body, said body having a long central flat portion designed to work beneath the ground surface, said central portion being joined at each end with an outwardly extending terminal portion by a doubly bent portion leading upwardly and outwardly in the direction of the length of the blade, the body having a sharpened lead edge extending along the doubly bent portions and to the end of each terminal portion, and means for attaching each terminal portion with a supporting carrier.

2,316,502

RIM AND ATTACHING MEANS FOR PNEUMATIC TIRES

James W. Carman, Seattle, Wash.

Application May 26, 1941, Serial No. 395,168
7 Claims. (Cl. 295—8.5)



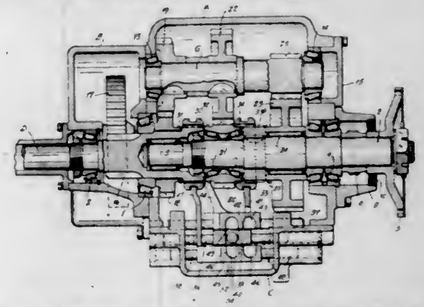
1. A demountable rim for pneumatic tires comprising a hollow cylindrical rim having inner opposed segmental thread elements arranged adjacent each edge, a pair of circular locking members each having segmental thread elements mating with thread elements of the rim to position said rim about a pneumatic tire between said members, each said locking member comprising a pair of substantially semi-circular arms pivoted together at one end and having expander means between the other ends whereby to expand said members to bind them in the rim when the thread elements are engaged together.

2,316,503

CHANGE SPEED TRANSMISSION GEARING

George W. Curtis, Milwaukee, Wis., assignor to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio

Application October 13, 1941, Serial No. 414,707
11 Claims. (Cl. 74—331)



1. A change speed transmission mechanism comprising axially alined power input and output shafts and two countershafts alongside thereof, a gear rigid with said input shaft, a gear journaled on said input shaft, first and second gears journaled on said output shaft, a first gear rigid with one of said countershafts and intermeshing continuously with the gear journaled on said input shaft, a second gear rigid with said countershaft and intermeshing continuously with said first gear on said output shaft, a third gear rigid with said countershaft and intermeshing continuously with said second gear on said output shaft, a first gear rigid with the other countershaft and intermeshing continuously with the gear rigid with said input

shaft, a second gear on said other countershaft and intermeshing continuously with said second gear journaled on said output shaft, a third gear mounted on said other countershaft and adapted to transmit motion from the latter to said first mentioned countershaft through one of said gears thereon, means for clutching to said input shaft either the gear journaled thereon or said first gear on said output shaft, and means for clutching to said output shaft either of said first and second gears thereon.

2,316,504
RADIO SHIELD
Ward D. Dayton, Bloomfield, N. J., assignor to Breeze Corporation, Inc., Newark, N. J.
Application June 30, 1941, Serial No. 400,531
19 Claims. (Cl. 123—148)



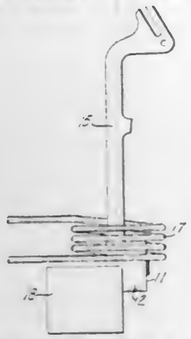
1. In an internal combustion engine radio shield of the type having a conduit shielding the conductor for a shielded spark plug of the engine, the combination with said conduit and the shielded spark plug, of a conductor shielding connection therebetween vented to deliver outwardly therefrom any gas forced through said spark plug into said connection by the engine and electric means adapted to close the vents in said connection.

2,316,505
HEATER PAD
William J. De Bry, Jr., Salt Lake City, Utah
Application August 14, 1941, Serial No. 406,825
2 Claims. (Cl. 219—24)



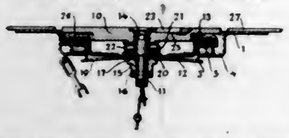
1. A solution control pad for permanent waving machines comprising a single sheet of fabric bent back upon itself to form two thicknesses and sewed together to form a unitary sheet having thread openings therethrough to permit quick absorption and passage of electrolyte and waving solution therethrough; separate sheets of metal foil carried one on each side of said fabric; narrow metal foil contacts extending from without the pad in one end into fixed electrical contact with said sheets of metal foil, said narrow contacts being insulated from each other but held firmly adjacent each other over their greater portion of length; a sheet of waxed paper adjacent one side of said unitary fabric sheet covering the contact on that side; and an outside sheet of metal foil covering the entire outside area of said waxed paper and the entire area of one side of said pad said outside foil to be encircled by the heating element of the waving machine to evenly distribute the heat over the entire area of the pad.

2,316,506
METHOD OF MANUFACTURE
William J. Doelker and George J. Oswald, Dayton, Ohio, assignors to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Application May 24, 1941, Serial No. 394,968
6 Claims. (Cl. 219—12)



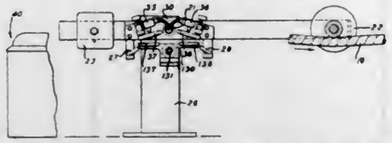
6. The method of soldering a porous metal object and a supporting object, including the step of holding the objects together at the intended joint; the step of applying a flux to the intended joint; the step of applying cold solder to the intended joint; the step of placing the porous metal object on a rest made of high heat conductive material to cool the porous object when the joint is heated; and the step of applying heat locally to the intended joint by use of high frequency induction heating.

2,316,507
FILLER CAP OR CLOSURE
Reuben G. Dykeman, Dayton, Ohio, assignor to United Aircraft Products, Inc., Dayton, Ohio, a corporation of Ohio
Application October 21, 1940, Serial No. 362,056
5 Claims. (Cl. 220—40)



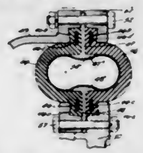
1. In combination with a tank formed with a filler opening, a seat connected to the tank and located below the top thereof and surrounding the opening, a closure for said opening composed of an inner member, a gasket carried by said inner member and engageable with said seat, an outer member having an outer face which lies substantially flush with the top of the tank, a stud having rigid connection with the outer member and supported by the inner member, means fixedly carried by said stud for latching the closure in closed position, said outer member having a cut-out portion, a handle for rotating the outer member received in said cut-out portion and having an outer face which in one position lies substantially flush with the outer face of the outer member, and having ears disposed on opposite sides of the stud, and a pin extending through the stud and pivotally connected at its end portions to the ears of the handle to mount the latter for movements into and out of the cut-out portion.

2,316,508
STRAND HANDLING APPARATUS
Waldemar C. Ewaldson, Millington, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application August 14, 1941, Serial No. 406,855
8 Claims. (Cl. 242—45)



1. In a strand handling apparatus having means to advance a strand longitudinally and means adjustable to control the speed of advance of the strand, means responsive to variations of tension in the strand to adjust the speed control means, and means to cause the responsive means to actuate the speed control means intermittently to approximate a desired speed step by step.

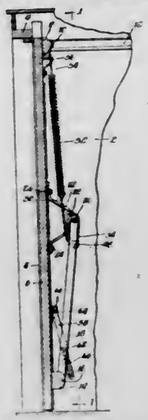
2,316,509
SHAFT COUPLING
Thomas L. Fawick, Akron, Ohio
Application July 11, 1940, Serial No. 344,930
5 Claims. (Cl. 64—11)



1. A flexible shaft-coupling comprising a pair of transmission shafts in series, inner and outer rigid members mounted upon them respectively and defining between them an annular space, a flexible, torque-transmitting fluid-container having an axial length greater than its radial extent and mounted in said space and held to a radially shallow cross-sectional form by said rigid members, at least one of the peripheries of said fluid-container being formed, adjacent and axially inward from an approximately cylindrical outer surface thereof, with a radially projecting anchorage flange comprising resiliently deformable material, and means for clamping said flange in an axial direction, and the said clamping means having a surface complementary to and bearing against the said approximately cylindrical outer surface of the fluid-container.

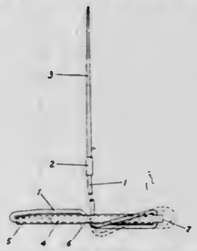
2,316,510
GARAGE DOOR
William D. Ferris and Cecil R. Wolf, Sterling, Ill., assignors to Frantz Manufacturing Co., Sterling, Ill., a corporation of Illinois
Application December 31, 1941, Serial No. 425,020
2 Claims. (Cl. 20—19)

1. An overhead door construction comprising a frame having an opening to be closed, a rigid one-piece door adapted to be moved from a substantially vertical position closing said opening to an open substantially horizontal position adjacent the upper part of said opening, counterbalancing means for said door comprising a spring and a connected elongated flexible member, lever means, a stationary bracket on the door frame, a bearing thereon, a pivotal pin turnably mounted in said bearing, said lever means being rigidly connected to said pivotal pin, and means connecting said elongated flexible member to said lever, said connecting means comprising an elongated cam composed of a plurality of sheets of



metal rigidly interconnected, said sheets of metal at one end of the cam having an elongated slot formed therein and overlying one end of said pivotal pin, and means for rigidly and adjustably fastening said end of the cam to said pivotal pin, peripheral portions of said sheets of material being relatively spaced apart to provide a peripheral cam groove, variant portions of said groove lying at different distances from the axis of turning of the cam, means connecting said elongated flexible member with the other end of said cam in a manner to cause said flexible member to wrap upon and unwrap from said cam within said groove during various opening and closing positions of the door.

2,316,511
FISH STRINGER
Algernon F. Flournoy, Monroe, La.
Application November 19, 1941, Serial No. 419,741
2 Claims. (Cl. 224—7)



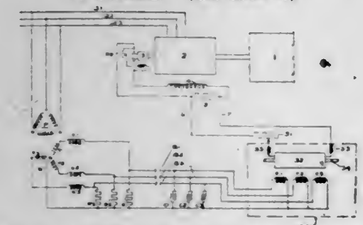
2. A fish string comprising a cord, a needle mounted on one end of the cord, the other end of said cord being fastened to one end of a tubular stop bar with the cord extending out of said end of the tubular stop bar, the bore of said stop bar being large enough to receive the needle por-

tion of another stringer to permit fish from one stringer to be slid directly onto the other stringer, said tubular stop bar being provided with a slot through a medial portion of its length of a sufficient size to receive a doubled portion of the said cord, said tubular stop bar being provided with a notch into which the said cord may be looped.

2,316,512
LIQUID PHASE EXTRACTION OF GLYCERIDE OILS AND ACIDS
Stephen E. Freeman, Wauwatosa, Wis., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
No Drawing. Original application January 17, 1939, Serial No. 251,340. Divided and this application May 13, 1940, Serial No. 334,997
3 Claims. (Cl. 260—428)

1. A process of selectively separating a fraction which is rich in unsaturated glycerides from a material containing said glycerides in admixture with more completely saturated glycerides, which process comprises contacting the material with an organic polar solvent in which the polar group is a nitro group, which solvent at a low temperature is relatively immiscible with the saturated glycerides, but being completely miscible at elevated temperatures, the temperature of treatment being above about minus 20° C., the ratio of solvent and the temperature being below that of complete miscibility with the glycerides, separating the two resultant phases while they are both in liquid state, one containing primarily undissolved glycerides relatively poor in unsaturated glycerides and containing some solvent and the other consisting of solvent in which is dissolved glycerides relatively rich in unsaturates.

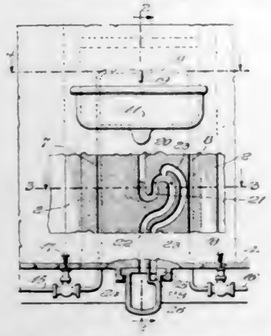
2,316,513
CONTROL MEANS FOR PRIME MOVER DRIVEN GENERATORS
Frazer W. Gay, Metuchen, N. J.
Application September 18, 1941, Serial No. 411,327
4 Claims. (Cl. 290—4)



1. In combination with a prime mover driven generator, a power fluid flow limiting means, an electric motor for operating said limiting means, a detector responsive to the product of the field current and the terminal voltage of said generator, and motor circuit closing means controlled by said detector to operate and set said limiting means so as to maintain at any instant the power fluid flow to said prime mover proportional to the ability of said generator to maintain synchronism with a system in which the same is connected.

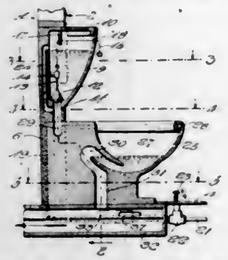
2,316,514
WALL AND PLUMBING FIXTURE
Max Grunt, Summit, N. J.
Application September 11, 1942, Serial No. 458,015
7 Claims. (Cl. 4—166)

1. The combination of a partition wall having its opposite sides open and formed with a recess, the sides of which are formed by a pair of studs, a pair of slabs arranged vertically in said recess between the studs and disposed in back-to-back relation with respect to each other, each of said slabs being formed with a pocket in its outer front face, a fixture fitted in each pocket and extending outwardly from the respective side of the wall, each of said slabs being formed with water



supply and discharge passages, means for supplying water to the supply passage at its lower end, the upper end of said supply passage having communication with the fixture, the fixture having a discharge conduit in its bottom for communication with the discharge passage in the slab, and a waste carrying-off conduit for communication with the lower end of the discharge passage of each slab.

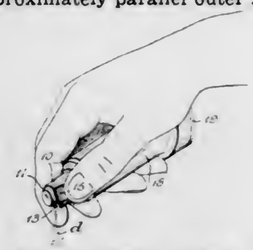
2,316,515
WATER CLOSET CONSTRUCTION
Max Grunt, Summit, N. J.
Application September 11, 1942, Serial No. 458,016
8 Claims. (Cl. 4—10)



1. The combination with a wall having a recess formed therein, a slab arranged in said recess, said slab being formed with a pocket in the lower front side thereof, a water closet bowl having its rear portion fitted in the pocket in said slab, a water tank carried by the upper portion of the slab, means for supplying water to the tank, means for communicatingly connecting the water tank with the interior of the bowl when the latter is positioned in the slab pocket, and a waste conduit in communication with the bowl.

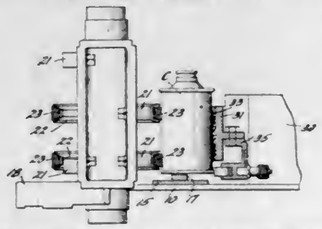
2,316,516
DISPENSING DEVICE
Arthur Hammerstein, Great Neck, N. Y.
Application August 29, 1940, Serial No. 354,660
2 Claims. (Cl. 221—62)

1. In a dispenser for comminuted materials, the combination of a rigid container having an open end and adapted to contain a supply of the comminuted material to be dispensed therefrom, a dispensing device connected with said container and projecting beyond the open end of said container to normally constitute a seal and closure for the open end thereof, said dispensing device comprising a hollow resilient body in unobstructed interior communication with said container and freely accessible for compression beyond the open end thereof and having an interior flattened end surface, and a normally sloping section constituting part of said dispensing device and comprising an interior sloping surface leading to said flattened end surface and an approximately parallel outer sloping sur-



face, said sloping section having a normally closed slit extending transversely therethrough from said outer sloping surface to said interior sloping surface in substantial parallelism with the major axis of said dispensing device, said interior sloping surface being substantially horizontal in an inverted angular dispensing position of said container to provide a collecting surface for the comminuted contents thereof, and said slit being convertible into a substantially vertical discharge opening in said angular dispensing position of said container, by inward compression of said resilient body to force the comminuted material against said interior flattened end surface and outward through said discharge opening.

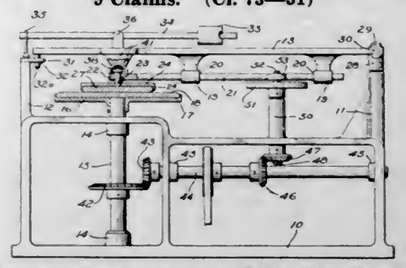
2,316,517
MECHANISM FOR MARKING CONTAINERS
George J. Huntley and Edwin Rolker, Baltimore, Md., assignors to Crown Cork & Seal Company, Inc., Baltimore, Md., a corporation of New York
Application December 7, 1939, Serial No. 308,077
7 Claims. (Cl. 101—7)



1. In a mechanism for embossing identifying markings upon cylindrical metal containers, a horizontal and stationary support upon which upright containers may slide and rotate, a moving container engaging belt at one side of and above said support, critically spaced embossing means at the other side of said support and along which the containers are adapted to be rolled by said belt to receive markings spaced according to an identifying code, said embossing means being immediately above said support, and a fixed element above said embossing means and directly opposite said belt, said element having frictional

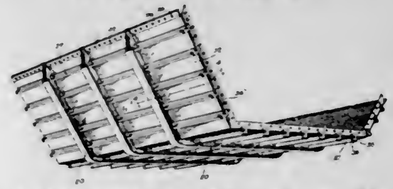
qualities to insure that the containers will rotate on their vertical axes along said embossing means in synchronism with said belt.

2,316,518
RUB-OUT MACHINE
Edward F. Klenke, Jr., East Orange, N. J.
Application May 8, 1940, Serial No. 333,930
9 Claims. (Cl. 73—51)



8. A grinding apparatus of the class described, comprising a horizontally disposed lower mulling plate circular in cross-section, the upper surface of which has been ground smooth, mounted at the end of a rotatable shaft, means for imparting rotary motion to said shaft, a smaller upper flat plate of circular cross-section with beveled edges, the lower surface of which has been ground smooth, disposed at the end of a rotatable and reciprocating shaft, and adapted to be moved into and out of direct contact with the smooth surface of the said larger plate, said smaller plate, when in contact with the mulling surface of the larger plate, being free to simultaneously rotate and reciprocate thereover, means for imparting reciprocating motion to said smaller plate, means for maintaining said smaller plate in operatively-disposed relationship continuously over a point central of said lower plate, and means for maintaining said smooth grinding surface of said plates in continuous contact with each other under a predetermined constant pressure during the rotation of said larger plate.

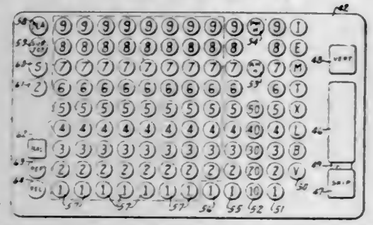
2,316,519
BRICK PAN FOR BOILERS
Benjamin Labaree, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application August 15, 1941, Serial No. 407,020
4 Claims. (Cl. 189—34)



1. A sheet metal brick pan sub-assembly unit capable of being handled and shipped as a unit and having its margins formed with reinforced joint structures for assembly with adjacent parts of a boiler casing, said unit comprising longitudinal beams, transverse rails and a cover panel, all fabricated out of light gauge sheet metal, said longitudinal beams being of hollow cross-section and extending continuously from end to end of the unit in parallel relation spaced from each other, said transverse rails being of angular cross section and small cross sectional

area as compared with said beams and being disposed normal to the beams with one of their arms in substantially the plane of the inner walls of said beams and being arranged in parallel relation spaced from each other, another arm of said rails being joined to the adjacent side wall of a beam, and the cover panel overlapping the inner walls of said beams and the first-named arms of said rails throughout their extent and being joined thereto substantially throughout the overlap, whereby an integrated structure results in which the parts mutually reinforce and brace each other thereby combining great strength and rigidity with low weight.

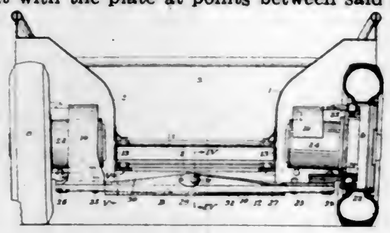
2,316,520
ACCOUNTING MACHINE
Henry F. Lang, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Application August 2, 1940, Serial No. 349,784
10 Claims. (Cl. 235—60)



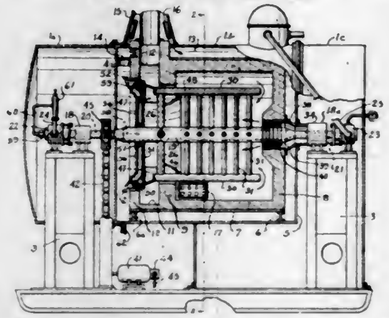
1. In a machine of the character described for computing the elapsed time between the "in" and "out" times of A. M. and P. M. work periods, said machine having a balance totalizer, printing means, and keys for controlling the positioning of corresponding wheels of the balance totalizer and for controlling the positioning of corresponding type carriers of the printing means, the combination of main actuators controlled by said keys to adjust the type carriers; auxiliary actuators to control the entry of amounts into the balance totalizer; means normally effective to connect the auxiliary actuators to the main actuators for unitary movement therewith, to position the type carriers and the totalizer wheels commensurate with the value of the depressed keys; an A. M. control key; a P. M. control key; means operated by the joint depression of both the A. M. and P. M. control keys to disengage the connecting means; and means to control the auxiliary actuators when they are disconnected from the main actuators to cause a fixed corrective figure to be entered in the balance totalizer, when the A. M. and the P. M. keys are jointly depressed prior to a machine operation.

2,316,521
VEHICLE MOUNTING STRUCTURE
Arthur L. Lee, Oakmont, Pa., assignor, by mesne assignments, to Joy Manufacturing Company, Franklin, Pa., a corporation
Application March 14, 1941, Serial No. 383,330
4 Claims. (Cl. 280—80)

1. The combination with a mine vehicle body and a pair of wheels, of a single steel cross-plate connected at its ends to the wheels beneath the body for supporting the latter, said plate being thin enough to possess moderate resiliency and being much broader than it is thick to provide it with strength adequate for the sustention of heavy loads, and a rigid cross-structure pivoted at its center to the body on the centerline of the vehicle and having load transmitting engagement with the plate at points between said centerline and wheels, the portion of the plate between said points being free to flex downwardly under load.

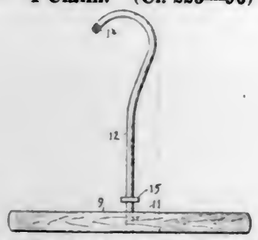


2,316,522
ROTARY VAPOR GENERATOR
John E. Loeffler, Houston, Tex., assignor to Loeffler Steam Generator Company, Houston, Tex., a corporation of Texas
Application September 9, 1939, Serial No. 294,077
6 Claims. (Cl. 122—11)



1. A rotary vapor generator comprising a furnace, means for heating the furnace, a rotatable shaft in the furnace, radial tubular legs on the shaft, radial tubes on the shaft, manifolds connecting said legs and tubes in series, an annular funnel shaped baffle extending radially inwardly from the manifolds and a fan at the end of the funnel for creating a draft through the furnace, a liquid inlet conduit communicating with the legs and a vapor outlet conduit communicating with the tubes.

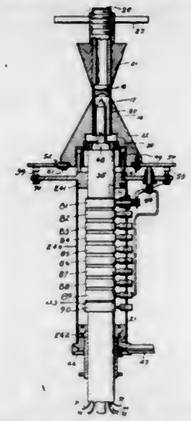
2,316,523
GARMENT HANGER
Malcolm C. Marble, Canton, Pa., assignor to The Belmar Manufacturing Company, Canton, Pa., a corporation of Pennsylvania
Application April 11, 1942, Serial No. 438,638
1 Claim. (Cl. 223—96)



A garment hanger comprising a pair of wooden transverse garment-clamping bars, springy wooden rods secured in and extending upwardly from

the bars and slightly inclined in the direction of one end of the bars, a transversely-extending wooden hook member lying over the center of gravity of the hanger, means for securing the upper ends of the rods in the hook member adjacent one end thereof, in fixed relation to each other such that in the absence of constraint the rods diverge laterally from each other in a plane inclined with respect to the clamping bars, and sliding keeper means on the rods for moving the lower portions of the rods and the clamping bars secured thereto, toward each other.

2,316,524
BALANCE TESTING DEVICE
Sidney W. Martin, Chicago, Ill.
Application January 17, 1940, Serial No. 314,192
8 Claims. (Cl. 73—53)

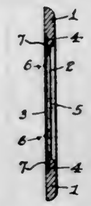


1. Means for balancing a wheel or the like, including a standard, a wheel support rotatable thereupon and universally rockable about a desired center, means for rotating the wheel and support without preventing rocking thereof about such center, and means for locating dynamic unbalance during rotation of the wheel, comprising a plurality of angularly spaced contacts rotatable with the support and closable by tilting of the latter, a plurality of indicating devices to which said contacts are individually electrically connected, whereby said indicating devices are individually actuable, each in response to tilting of the wheel about a different transverse axis, and indexing means for indicating which of said contacts, and which corresponding portion of the wheel, is represented by each of said indicating means.

2,316,525
CELLULOSIC MATERIALS AND METHOD FOR PRODUCING SAME
Ambrose McAlevy, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application January 19, 1940, Serial No. 314,657
9 Claims. (Cl. 260—227)

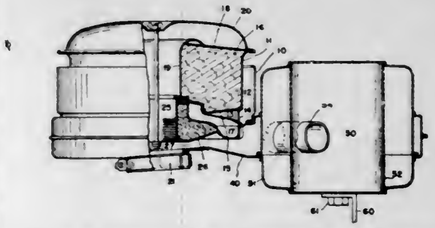
1. The process which comprises esterifying cellulose, in the presence of a boron trifluoride complex selected from the group consisting of complexes of boron trifluoride and an aliphatic acid having less than 5 carbon atoms, complexes of boron trifluoride and an alkyl ester of an aliphatic acid having less than 5 carbon atoms, and complexes of boron trifluoride and water, with an esterification mixture containing, as an esterifying reactant, an alkyl ester of an aliphatic acid having less than 5 carbon atoms in the molecule.

2,316,526
PLASTIC FRAME FOR SCREENS, VENTILATORS, AND WINDOWS
Albert W. McDonald, Elkhart, Ind.
Application July 26, 1941, Serial No. 404,241
3 Claims. (Cl. 160—382)



2. In a ventilator of the type described, the combination of a frame moulded from plastic material, a wire screen extending across the opening of the frame and having the edge portions of the wire screen embedded in the plastic frame at the back thereof, and a groove formed in the back of the plastic frame, whereby the edge portions of the wire screen may be pressed deeper into the plastic material of the frame.

2,316,527
COMBINED AIR CLEANER AND SILENCER
Merritt A. Mieras, Redford Township, Wayne County, Mich., assignor to Industrial Wire Cloth Products Company, Wayne, Mich., a corporation of Michigan
Application October 12, 1940, Serial No. 361,000
3 Claims. (Cl. 183—1)

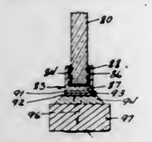


1. In a combined air cleaner and silencer for the carburetor intake of an internal combustion engine, a hollow frame of small vertical dimension having in one face an air passage and means for fixing said passage over the intake of said carburetor, an air cleaner unit mounted in said frame in alignment with said passage but spaced therefrom, and a resonator unit also mounted in said frame, said hollow frame providing a means of communication between said resonator and the said air passage.

2,316,528
DOOR FITTING
Ewell C. Miles, Springdale, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
Application September 7, 1940, Serial No. 355,718
8 Claims. (Cl. 20—16)

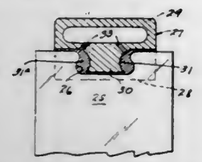
2. A door panel comprising a single massive panel of tempered glass, which panel has the face adjacent to an edge thereof enclosed in a chan-

nel-like element providing a hinge connection for the panel, the space between the channel and



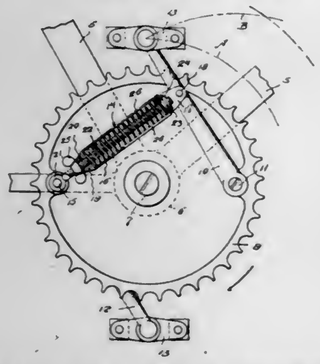
the panel being filled with metal having a solder-like bond to the glass.

2,316,529
GLASS TRAY
Robert A. Miller, Tarentum, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
Application March 19, 1942, Serial No. 435,384
2 Claims. (Cl. 65—53)



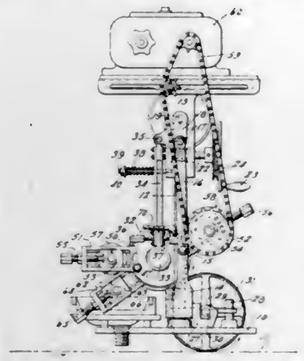
2. A tray comprising a plate of glass having notches cutting in opposed ends, the notches being laterally flared toward the bottom, handle elements comprising channel-like portions fitting over the edges and covering the notches and having packings of readily fusible metal in the notches, the sides of said channel-like portions having holes formed therein, the holes being filled with metal constituting said packings to provide rivets between the packings and the handle elements, said holes being formed in the sides of the channel-like elements and registering with pits formed on the opposite sides.

2,316,530
CRANK UNIT
Torval W. Nilsen, Snelling, Calif.
Application May 3, 1941, Serial No. 391,786
1 Claim. (Cl. 74—594.3)



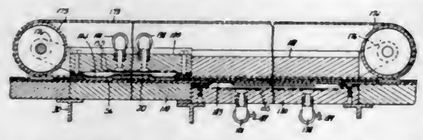
In a bicycle drive unit, the combination with a pedal shaft having a sprocket gear secured thereto and mounted for rotation and a pair of rigid pedal arms each having secured to one end a foot pedal, of an elongated member secured intermediate its ends to said shaft and having the other end of one of the arms pivoted to one end thereof, the other end of the other pedal arm being pivoted on the sprocket gear eccentrically of the axis of rotation of the shaft, and spring tensioned devices pivoted to said arms closer to said pedals than to the pivots of the arms and one of said tensioned devices pivoted on the sprocket gear eccentrically of the axis of rotation of the sprocket gear and the shaft and the other tensioned device pivoted on the other end of said elongated member eccentrically of the axis of rotation of the shaft, said spring tensioned devices each including a stop nut and a spring tension adjusting nut, said nuts being manually adjustable to render the tensioned devices operative and inoperative.

2,316,531
SIZING AND COATING APPARATUS
Walter A. Nivling, Newton Center, Mass.; Lyman E. Nivling and Owen C. Nivling administrators of said Walter A. Nivling, deceased
Application December 14, 1940, Serial No. 370,124
9 Claims. (Cl. 91—50)



1. A coating machine for applying liquid to a moving web which comprises a roll running in contact with the web, a transfer roll in contact with said roll, a doctor roll spaced slightly from said transfer roll, means to drive said doctor roll positively and at a surface speed different from that of the transfer roll, and means for supplying liquid to the transfer roll.

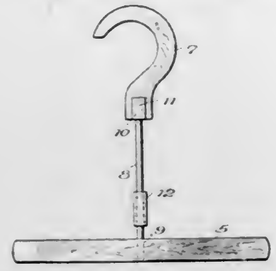
2,316,532
APPARATUS FOR REMOVING MARGINAL PORTIONS OF GLASS UNITS
William Owen, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
Application June 20, 1940, Serial No. 341,476
11 Claims. (Cl. 49—48)



1. An apparatus for running marginal cuts along sheet glass comprising spaced stationary jaws, one jaw having a yieldable layer of material on the face thereof for receiving a marginally scored sheet glass unit, the other jaw having a diaphragm thereon operable to cover the glass unit, and fluid pressure means communicating with the diaphragm to press the latter uniformly over the area of the glass unit against the yieldable material and thereby to snap the glass unit along its scored portion.

4. In an apparatus for running marginal cuts along sheet glass, a pair of spaced opposed jaws defining a passage therebetween, diaphragms secured on the respective jaws in offset relation and expandible in opposite directions across the passage for surface engagement over the area of the marginally scored glass, and fluid pressure means communicating with each diaphragm to press the latter against its opposed jaw and snap the glass along the marginally scored area thereof.

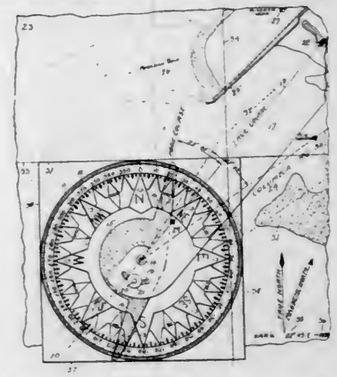
2,316,533
GARMENT HANGER
John A. Packard, Canton, Pa., assignor to The Belmar Manufacturing Company, Canton, Pa., a corporation of Pennsylvania
Application April 11, 1942, Serial No. 438,639
3 Claims. (Cl. 223—96)



1. A garment hanger comprising a substantially flat wooden hook, a wooden member retained transversely in the shank of the hook and projecting outwardly on either side thereof in a direction at right angles to the plane of the hook, a pair of downwardly extending springy wooden rods fixedly secured in said member and spaced from each other, a transverse wooden garment-clamping bar secured to the lower end of each rod, and a vertically sliding keeper surrounding the pair of rods and formed with spaced openings in which said rods are, respectively, slidably received, whereby said keeper is adapted in its upper position to cause the rods to move away from each other and in its lower position to move the rods and the attached clamping bars toward each other.

2,316,534
PROTRACTOR
Frank H. Parks, Portland, Oreg.
Application August 1, 1941, Serial No. 405,030
1 Claim. (Cl. 33—75)

A protractor having a rectangular transparent base on the surface of which is formed a compass dial having a pivot disposed at the center thereof, a transparent true course arm mounted on said pivot and having one edge thereof in alinement thereto, said true course arm having an arcuate slot formed therethrough, the center of which is the center of the pivot, a magnetic course arm also mounted on said pivot and having an end extending across the face of said dial, both ends of said magnetic course arm being in alinement with each other and radial from said pivot, and a clamping screw passing through the slot in said true course arm into said magnetic course arm whereby the magnetic declination may be set off and held at a fixed value while said



true and magnetic course arms are permitted to rotate on said pivot.

2,316,535
PROCESS FOR THE PRODUCTION OF PIGMENT-CONTAINING PRODUCTS
Georg Böhner, Edingen-on-the-Neckar, Bruno Wendt, Dessau, and John Eggert, Leipzig, Germany; vested in the Alien Property Custodian
No Drawing. Application June 8, 1940, Serial No. 339,572. In Germany May 3, 1939
6 Claims. (Cl. 106—308)

1. A process for producing colloidal pigment material which comprises dispersing a pigment in a liquid polyhydric alcohol selected from the class consisting of triols and tetrols of hexane and octane by subjecting a pigment in a plastic state to an intense mechanical treatment by means of a kneading and rolling process in the presence of said liquid polyhydric alcohol.

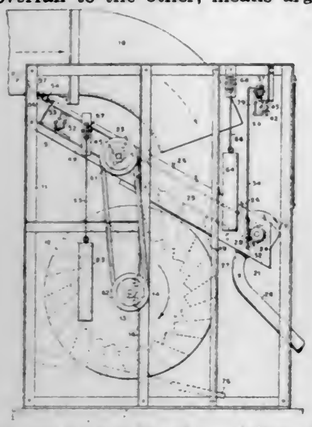
2,316,536
POLYMERIZATION OF ACETYLENE
Otto Fuchs, Frankfort-on-the-Main-Hochst, Germany; vested in the Alien Property Custodian
No Drawing. Application April 4, 1941, Serial No. 386,850. In Germany February 9, 1940
4 Claims. (Cl. 260—678)

1. In the process of polymerizing acetylene to non-benzenoid polymers thereof the step which comprises passing acetylene through a catalyst containing a liquid medium, a cuprous salt, a salt of the group consisting of alkali metal salts and ammonium salts and an organic compound capable of forming dipolar ions in said liquid medium and selected from the class consisting of aminocarboxylic acids, betaines, peptides and polypeptides.

2,316,537
OVERFALL SAMPLING DEVICE
Bertram H. Hendrickson, Athens, Ga., assignor to Claude R. Wickard, as Secretary of Agriculture of the United States of America and to his successors in office
Application October 16, 1941, Serial No. 415,261
5 Claims. (Cl. 73—21)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A device for obtaining a sample of a fluid overfall comprising a waterwheel actuatable by the overfall, a housing having a slot opening

therethrough narrower than the width of the overfall intersecting the trajectory of the overfall, said housing being movable from one side of the overfall to the other, means urging said



housing to one side of said overfall, and means actuated by said waterwheel for intermittently moving said housing to the other side of the overfall against the action of said first-mentioned means.

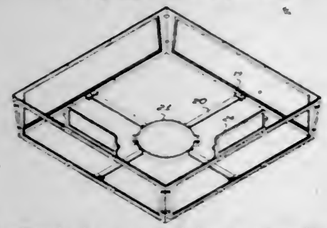
2,316,538
SULPHONIC ACIDS AND PROCESS OF PREPARING THEM
Ludwig Orthner and Werner Langbein, Frankfort-on-the-Main, Germany; vested in the Alien Property Custodian
No Drawing. Application August 3, 1940, Serial No. 351,153. In Germany July 13, 1939
5 Claims. (Cl. 260—513)

4. As new compounds the sulphonic acids of the general formula

$$R—X—CH_2—O—CH_2—CH_2—SO_3H$$

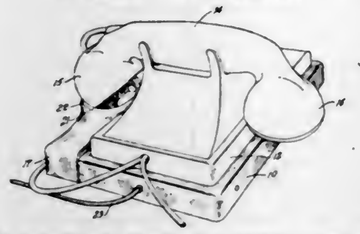
wherein R stands for an aliphatic radical with at least four carbon atoms, and X stands for oxygen.

2,316,539
STREET SIGN
Henry M. Patterson, Baltimore, Md.
Application May 24, 1940, Serial No. 337,065
4 Claims. (Cl. 40—131)



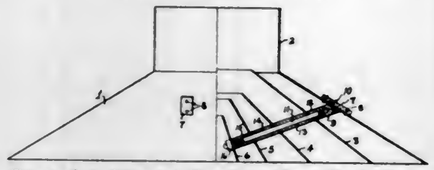
2. A street sign comprising a plurality of sign frames adapted for removably receiving a sign panel in each frame, means for securing the frames together at their end edges in angular relation to each other, a channeled lug on the inner surface at the lower edge of each frame, the channel of the lug being inverted, an arm secured thereto for supporting the lower edges having one end seated in each of said lugs and of the frames on said arms, said arms extending inwardly of the frames, means for attaching the arms to a lamp post beneath the lamp and means attached to the lug for retaining the sign panel in position in the frame.

2,316,540
TELEPHONE STERILIZER
Gail L. Danley and Alvin J. Gordon, Denver, Colo.
Application March 13, 1941, Serial No. 383,126
4 Claims. (Cl. 179—185)



2. A telephone sterilizing device comprising: a base for supporting a telephone; a raised rim on said base to engage and accurately position the telephone thereon; a lamp housing secured to one side of said base; a sterilizing lamp in said housing; an opening in the top of said housing in alignment with the normal, at-rest position of the transmitter of said telephone; and an enclosing shield extending upwardly about said opening to confine light rays emitted through said opening to the area of said transmitter, said lamp housing being interchangeable to either side of said base so that the transmitter may be placed on either side of said phone.

2,316,541
LOUVER CONSTRUCTION
Henry Berger Ahlberg, West Hartford, Conn., assignor to The Gray Manufacturing Company, Hartford, Conn., a corporation of Connecticut
Application January 22, 1941, Serial No. 375,395
1 Claim. (Cl. 98—40)

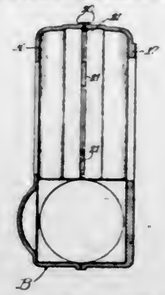


In a structure of the type described the combination including a plurality of nested, truncated, conical shields arranged concentrically in radially spaced relation, and means for firmly uniting said shields in such position comprising a rod passing through said shields at an acute angle to their adjacent surfaces, collars mounted on said rod and lying between adjacent pairs of shields, said collars having end faces at acute angles to their axis, and means for attaching said rod to the innermost and outermost shields, whereby said shields are firmly locked in place with respect to each other.

2,316,542
OIL BURNER BLOWER HOUSING
Loyd I. Aldrich, Wyoming, Ill.
Application September 8, 1941, Serial No. 410,008
3 Claims. (Cl. 230—133)

1. In an oil burner blower housing, a pair of housing halves formed of cast iron having ground

coplanar meeting surfaces, the inner edges of said surfaces being beveled, said housing halves having portions arc-welded together at said beveled

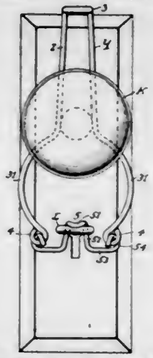


edges said portions being periodically spaced along said beveled edges and the welding material being stainless steel.

2,316,543
CATALYTIC OXIDATION
William J. Amend, Seaford, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 13, 1941, Serial No. 406,725
4 Claims. (Cl. 260—537)

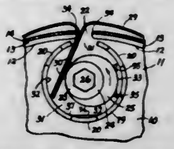
1. A process for the catalytic oxidation of ketones which comprises subjecting a ketone corresponding to the general formula, $RCOR_1$, in which R denotes an alkyl, cycloalkyl, aralkyl or aryl radical and R_1, an alkyl cycloalkyl or aralkyl radical, or in which R and R_1 are connected with each other as members of a non-aromatic ring system, to oxidation in the liquid phase, in the presence of a solvent for the ketone, by means of a gas containing oxygen, in the presence of a catalyst comprising a mixture of manganese and barium acetates.

2,316,544
LOCKING DEVICE FOR DOOR KEYS
William E. Amos, Detroit, Mich.
Application August 19, 1940, Serial No. 353,218
2 Claims. (Cl. 70—430)



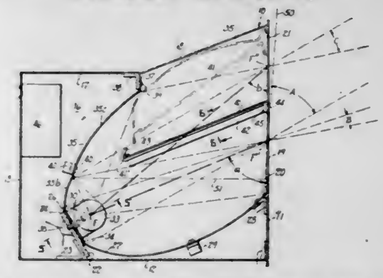
1. A key locking device comprising a yoke-like structure having a pair of straight side members connected at their upper ends by a handle portion disposed at right angles to said members and having at their lower ends a pair of arcuate members adapted to pass over a door knob and terminating in closed loops; and a tongue having loops swivelly engaging the first-mentioned loops and having a central U-shaped portion adapted to engage the handle of a key to lock the same against rotation.

2,316,545
HOLDER
Carl F. Anderson, St. Paul, Minn.
Application January 2, 1940, Serial No. 311,991
10 Claims. (Cl. 51—194)



1. A holder comprising a member providing an outer circumferential surface, said member including a bore providing an internal cylindrical surface having an inwardly extending protuberance thereon and there being a passageway leading from said outer circumferential surface to said bore, and a cam adapted to be actuated within said bore, the outer circumferential surface of said member being adapted to receive a strip of material to be fastened about and upon said outer circumferential surface, and superimposed portions of said strip of material being adapted to be inserted through said passageway into said bore at a side of said cam, the cam including an external cylindrical surface thereof having an outwardly extending protuberance thereon adapted to be rotated in proximate relation to the internal cylindrical surface of said bore to pull said superimposed portions of the strip of material inwardly of said bore thus to cause said strip to be made taut upon said outer circumferential surface, and the protuberances upon said external and internal cylindrical surfaces in cooperation with each other being adapted to cause said superimposed portions of the strip removably to be fastened in said holder.

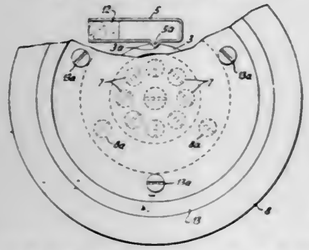
2,316,546
LIGHTING APPARATUS
Victor Geist Anderson, New Rochelle, and Harold William Rambusch, Brooklyn, N. Y., assignors to Rambusch Decorating Company, New York, N. Y., a corporation of New York
Application May 31, 1940, Serial No. 338,164
13 Claims. (Cl. 240—78)



1. Means for projecting light onto one of the surfaces forming a right dihedral angle throughout an area of substantial length and width extending to the corner thereof, comprising a lighting appliance recessed behind the plane of the other surface of said dihedral angle and having a window in the plane of said other surface, a light source parallel with the corner, and a light reflecting trough made of highly specular mate-

rial disposed about the source and extending toward the edges of the window, the reflecting surfaces being of substantially elliptical contour with common foci at the light source, the conjugate foci being in the plane of the window, being spaced and adjacent the edges of the window, the wall of the trough remote from the corner spreading the specularly reflected light throughout a predetermined angle from the plane of the second surface of the dihedral angle so as to illuminate a predetermined region extending outwardly from said corner, the wall of the trough nearer the corner having a portion substantially elliptical with respect to one conjugate focus and another portion substantially elliptical with respect to the other conjugate focus more remote from the corner said portions projecting specularly reflected rays into angles generally beyond those of the rays reflected by the remote side of the trough for illuminating areas of the first surface more remote from the corner.

2,316,547
TUNING DEVICE FOR RADIO APPARATUS
Frank Edwin Baum, Chelmsford, and Terence Norman Dudley Phillips, London, England, assignors to Radio Corporation of America, a corporation of Delaware
Application January 11, 1941, Serial No. 374,048
In Great Britain January 30, 1940
10 Claims. (Cl. 74—10)



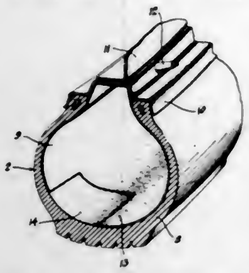
1. A click stop device comprising a member to be adjusted, an adjusting element, a rotatable shaft connecting said member to said element, a plurality of ring members mounted for rotation about said shaft and each having in the periphery thereof one part of a stop means, separate means each carrying the other part of said stop means adapted to engage the stop means in the periphery of one ring member, and a plurality of means associated with the adjusting knob, each associated with a ring member and adapted to fix relatively to the shaft and against rotation independently thereof, the ring member with which it is associated.

2,316,548
FASTENING DEVICE
Nathaniel R. Beagle, Jefferson City, Mo.
Application November 21, 1942, Serial No. 466,511
12 Claims. (Cl. 24—221)



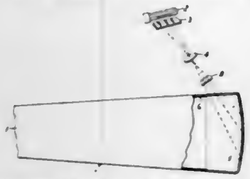
12. A fastening device comprising a plug member having a countersunk head and adapted to fit within a countersunk opening provided therefor in two or more pieces that are to be secured together, a pair of levers pivotally supported on said plug member for swinging movement crosswise thereof, and a wedge member mounted in said plug member for sliding movement longitudinally thereof into engagement with said levers to swing the same into engagement with one of said pieces on opposite sides of said opening, each of said levers comprising a long and a short arm extending in the same general direction, said short arm being adapted when said plug member is withdrawn from said opening to bear against the edge of said opening and swing said lever into substantial endwise alinement with said plug member, means for retaining said wedge member in said plug member, said plug member and said wedge member having recesses in the outer end thereof adapted to receive a tool for withdrawing said wedge member from said plug member.

2,316,549
PNEUMATIC TIRE ASSEMBLY
Gerald L. Benson, Detroit, Mich., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application July 29, 1941, Serial No. 404,494
4 Claims. (Cl. 152—330)



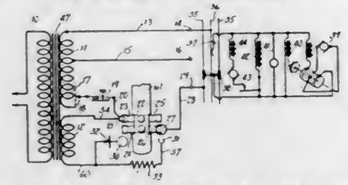
1. A static reducing pneumatic tire comprising a tire casing, an inner tube assembled within the casing, and a coating of an electrically conducting acetylene carbon black powder adhered to the surface only of the inner wall of the inner tube around the circumferential crown region thereof.

2,316,550
OSCILLOSCOPE SCALE
Alfred Bigalke, Berlin, Germany, assignor to General Electric Company, a corporation of New York
Application May 20, 1941, Serial No. 394,337
In Germany November 1, 1939
3 Claims. (Cl. 88—24)



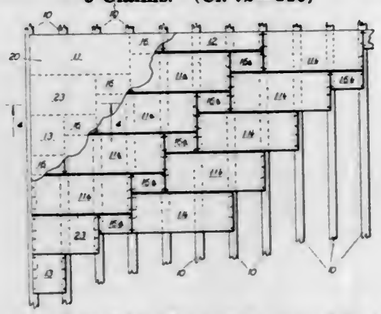
1. An electron beam instrument comprising an evacuated envelope with transparent walls adapted to have a cathode ray beam produced in the envelope, a fluorescent screen on the inner surface of one wall of the envelope, and means for projecting reference-line means on to said fluorescent screen, said projecting means comprising an optical object lying along a plane other than parallel with the said screen, a light source for illuminating the optical object, and means for focusing an image of the object on the said fluorescent screen, said projecting means being located outside and to one side of said envelope and projecting such image through a side wall of the envelope onto the inner surface of the screen.

2,316,551
TOY TRAIN CONTROLLER
Joseph L. Bonanno, Maplewood, N. J., assignor to The Lionel Corporation, New York, N. Y., a corporation of New York
Application May 7, 1941, Serial No. 392,287
13 Claims. (Cl. 171—97)



1. In a combined transformer and controller for the track circuit of a toy railroad, a secondary winding adapted to provide a maximum alternating current voltage across its ends, an output terminal, a tap intermediate the ends for providing a lesser voltage between the tap and said output terminal and connected to a fixed contact, a second output terminal, a movable switch contact normally connecting said fixed contact and second terminal, a half-wave rectifier having one end connected to the secondary and the other end to a fixed contact normally out of engagement with the movable contact but engageable thereby before the movable contact leaves the first fixed contact so that a direct current component may be introduced into the circuit supplied from said terminals, and a resistance connected to the end of the winding remote from the first terminal and to another fixed contact, the last-mentioned fixed contact being engageable by the movable contact after it leaves the first contact and while it is in engagement with the rectifier connected contact so that the maximum voltage is impressed on the circuit including the resistance.

2,316,552
LATHING SYSTEM
Acie L. Braxdale, Glendale, Calif.
Application March 14, 1941, Serial No. 383,295
3 Claims. (Cl. 72—116)



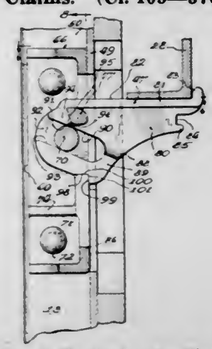
1. A lath wall for plastering, comprising a plurality of spaced parallel supports, a plurality of laths secured transversely to said supports having their adjoining horizontal edges spaced apart to receive plaster therebetween, said laths forming diagonal courses, the ends of each successive lath in a course being offset from adjoining laths in said course, and lath sections substantially equal in length to the offset portions of said laths secured to said supports and interposed between the ends of laths in contiguous courses to break the continuity of the horizontal spaces between the laths in said contiguous courses.

2,316,553
CONTACT PLATE FOR DRY PLATE ELEMENTS
Fritz Brunke, Berlin-Reinickendorf, Germany, assignor to General Electric Company, a corporation of New York
Application November 13, 1939, Serial No. 304,258
In Germany November 24, 1938
4 Claims. (Cl. 175—366)



1. In a dry plate rectifier and the like comprising a carrier electrode, a semi-conductor layer thereon, a counterelectrode in contact with said layer, and a second carrier electrode, a contact plate interposed between said second carrier electrode and said counterelectrode having dome shaped elevations continuous with said plate and of small height relative to the diameter thereof, said elevations providing the only portions of said contact plate engaging the surface of said electrodes, said elevations being adapted to make permanent electrical contact with said counterelectrode and said second carrier electrode when only a relatively low operating pressure is applied to said rectifier, said elevations being directed alternately toward said counterelectrode and said second carrier electrode.

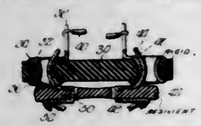
2,316,554
DOUBLE DECK STOCK CAR
Ralph Day Bryan, Topeka, Kans.
Application February 23, 1942, Serial No. 431,957
17 Claims. (Cl. 105—370)



1. In a double deck stock car, the combination of a floor supporting frame with side walls and end walls, said side walls and end walls having channelled metal frame members extending vertically thereof, a movable deck located between the walls of said car and comprising a supporting frame and a floor, means for lifting said deck to any of a plurality of different elevations and a plurality of movable brackets adapted to engage under the frame of said deck to support it in said predetermined positions, said brackets being movably mounted in said channelled side frame members and adapted to be moved into the side

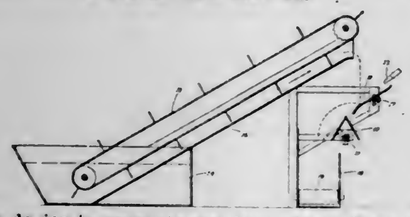
walls of said car to a position where the brackets do not project into the interior of the car, said channelled side frame members being provided with apertures for receiving said brackets, and each of said brackets being movable into a frame carried by said channelled side frame members, said brackets having slots extending diagonally to the supporting surface of the bracket, each bracket slot being mounted on a pin, whereby the bracket tends to move on said pin outward into supporting position or backward into housed position, said brackets and said frame members each supporting a pair of stop surfaces for simultaneous engagement to hold the brackets in deck-supporting position.

2,316,555
TERMINAL CONNECTOR AND POSITIONING MEANS THEREFOR
Kenly C. Bugg, Fort Wayne, Ind.
Application October 31, 1940, Serial No. 363,600
3 Claims. (Cl. 173—328)



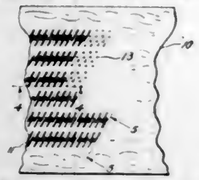
1. In combination, a substantially rigid insulating member forming a terminal board, pairs of spaced terminals fixed thereto, a relatively thin, resilient insulating sheet forming a resilient terminal board, pairs of terminals complementary to said first named terminals carried by said resilient terminal board and adapted to have interlocking engagement with the corresponding of said first named terminals, engagement of the first pair of terminals on said rigid terminal board by the first pair of terminals on said resilient terminal board causing the other terminals to be properly located for respective engagement, and conductors connected to each of said terminals, the terminals of each pair of said second named terminals being normally spaced apart a distance slightly less than the spacing of the terminals of said first named pairs which are engageable by the terminals of said second named pairs of terminals, whereby when said second named terminals engage the corresponding of said first named terminals the second named terminals are resiliently held in engagement with the corresponding first named terminals by the flexible insulating sheet which is under tension between the terminals of each pair carried thereby to thereby cause a tight electrical connection between engaging terminals.

2,316,556
TRASH SEPARATOR AND BEET PIECE SAVER
Jay W. Butcher, Woodland, Calif.
Application September 20, 1940, Serial No. 357,549
1 Claim. (Cl. 209—12)



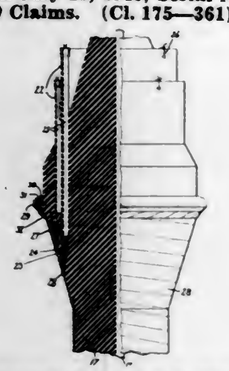
A device to separate wet beet pieces from wet trash comprising an upwardly inclined conveyor, a washing tank in which the beet pieces and trash are intermingled, the lower end of the conveyor extending into the washing tank in pick-up relation to said intermingled beet pieces and trash, the conveyor discharging said intermingled beet pieces and trash from its upper end, a relatively hard surfaced element disposed at a predetermined angle below the upper and discharge end of said conveyor in position to be struck by said intermingled beet pieces and trash falling therefrom, a catch member spaced horizontally from and disposed in a plane below the element, whereby to catch beet pieces rebounded from said element, a nozzle positioned and operative to discharge water in flushing relation over said surface of the element, and a deflector plate mounted to deflect trash flushed from said surface of the element to a point clear of said catch member.

2,316,557
CARD CLOTHING
Ernest L. Cady, Hartford, Conn., assignor to The E. L. Cady Engineering Company, West Hartford, Conn., a corporation of Connecticut
Application June 18, 1941, Serial No. 398,607
3 Claims. (Cl. 19—114)



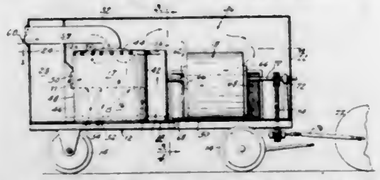
1. Card clothing comprising a strip of flexible material having staples supported therein the opposite ends of which are disposed at oblique angles to the central portion and which extend through said strip to form needles, said staples being individually disposed obliquely relatively to said strip and grouped in transversely overlapped longitudinally extending rows suitably spaced to provide open transversely extending spaces of uniform width.

2,316,558
TRANSFORMER
Guglielmo Camilli, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application July 11, 1940, Serial No. 344,937
9 Claims. (Cl. 175—361)



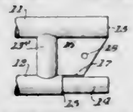
1. A transformer including a winding, a terminal lead connected to said winding, insulation around said winding and lead, a cylinder around said lead and tightly surrounding a portion of said insulation, and insulation similar to said lead insulation around said cylinder and concentric with said portion in order to embed and support said cylinder in insulation so that said cylinder will remain in place during the remaining operations which said transformer receives.

2,316,559
PORTABLE DRIER
Bowen Campbell, Des Moines, Iowa
Application October 2, 1941, Serial No. 413,346
4 Claims. (Cl. 263—19)



1. In a portable drier, air heating and mixing means consisting of an enclosure, a furnace therein, a combustion chamber in the lower portion of said furnace, a mixing chamber in the upper portion of said furnace, an air inlet, opening centrally into the top of said mixing chamber, means controlling the flow of air into said inlet, and a plurality of directive outlet vents distributed around the periphery of said mixing chamber adjacent the top thereof, said vents consisting of pipes extending outwardly from said mixing chamber in various directions.

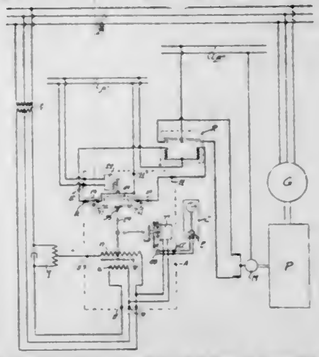
2,316,560
STRUCTURAL ELEMENT
George W. Causey, Pittsburgh, Pa.
Application March 1, 1941, Serial No. 381,359
7 Claims. (Cl. 189—36)



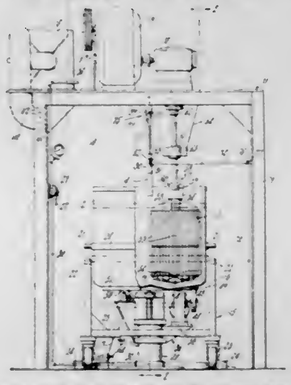
1. A structural element comprising a pair of members in parallel spaced apart relation, the end of one of the members being provided with a tubular socket and the adjacent end of the other member being provided with a pin for insertion in a socket of another structure, and a plate rigidly attached to the end of the structural element and spanning the space between the parallel spaced apart members, the plate extending outwardly adjacent the pin member but spaced apart therefrom, whereby the pin may be inserted in a socket and the plate attached to a like plate on another structure.

2,316,561
AUTOMATIC FREQUENCY REGULATOR
Wilson A. Charbonneaux, Burlington, Iowa
Application September 6, 1941, Serial No. 409,804
14 Claims. (Cl. 171—119)

1. A frequency regulator for an alternator having speed-governing means comprising first means mechanically actuable responsive to current proportional to the deviation of the frequency of the alternator output from an assigned frequency for producing frequency-corrective movement of the speed-governing means, accumulating cam means for intergrating the difference between the frequency of the alternator output and the assigned frequency with respect to time, and means actuable by the integrating means for imposing a time-compensating bias upon the mechanically actuable means and thereby modifying the frequency-corrective movement of the speed-governing means.



2,316,562
MIXING AND WHIPPING APPARATUS
Edward H. Clark, Mishawaka, Ind., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application December 5, 1939, Serial No. 307,595
18 Claims. (Cl. 259—85)

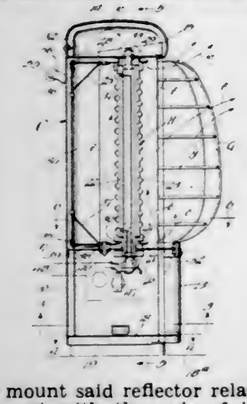


1. In a mixing mechanism for processing latex foam without coagulation thereof, a frame, a rotatable container, a scraper, means to sustain said scraper against the resistance of the mix as the container rotates, means for yieldably retaining the scraper in normal position against the interior wall of the container during rotation thereof, and a removable anchorage secured to said frame for positioning said retaining means, said anchorage and sustaining means having readily detachable connections relative to the scraper and frame respectively to permit quick disassembly of the mechanism before coagulation sets in.

2,316,563
ROOM HEATER
C. Wood Clemons, St. Louis, Mo., assignor to Knapp-Monarch Company, St. Louis, Mo., a corporation of Missouri
Application December 2, 1940, Serial No. 368,239
8 Claims. (Cl. 219—34)

8. In a heater of the character described, a

casing having an open front, a bottom wall within said casing, a post of insulating material, an element on said bottom wall for supporting one end of said post, a second element for supporting the other end of said post, a heating element wound on said post, a semi-cylindrical reflector having hubs surrounding said elements whereby



to pivotally mount said reflector relative to said heating element with the axis of the heating element substantially coincident with the pivotal axis of said reflector, and a motor located below said bottom wall and operatively connected with said reflector for oscillating the same and thereby changing the direction of heat reflection by said reflector.

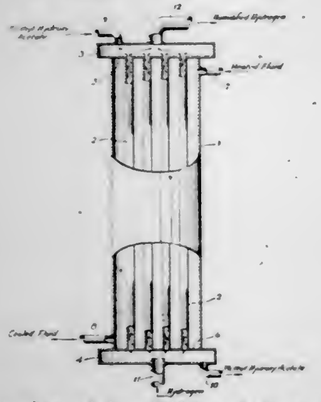
2,316,564

HUMIDIFICATION

Robert Frank Cockerill, Elsmere, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application March 20, 1940, Serial No. 325,080

10 Claims. (Cl. 260—635)



4. A process of humidifying hydrogen with hydroxyacetic acid which comprises flowing the hydroxyacetic acid in a continuous liquid-falling film over a heated surface while in direct contact with a stream of hydrogen.

2,316,565

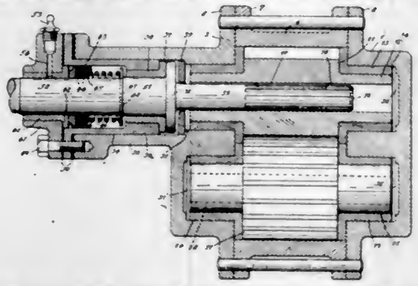
ROTARY PUMP SHAFT BEARING AND SEAL

Winthrop F. Collier, Rockford, Ill., assignor to Geo. D. Roper Corporation, Rockford, Ill., a corporation of Illinois

Application April 15, 1940, Serial No. 329,756

4 Claims. (Cl. 308—36.2)

1. In a device of the character described, a thrust bearing and seal assembly for a rotary shaft having an outer casing, the casing having an open ended bore therein in substantially concentric relation with the shaft, and the shaft having an annular flange rigid therewith within the bore engageable with a thrust bearing surface at the inner end of the bore to limit endwise movement of the shaft inwardly, said thrust bearing and seal assembly comprising an elongated tubular bearing member fitting slidably in the bore and having a combination radial and end thrust bearing on the inner end thereof for bearing support of the shaft and end thrust en-



gagement with the flange thereon to limit endwise movement of the shaft in an outward direction, said bearing member having an outwardly projecting annular flange on the outer end thereof for abutment with the casing at the outer end of the bore, a second bearing for said shaft on a cap having abutment with the flanged end of the aforesaid bearing member and adapted to be secured therewith to the casing, and a rotary seal ring turning with said shaft inside the aforesaid bearing member between the bearings and spring pressed toward engagement with a smooth surface provided therefor on the inner side of the second bearing.

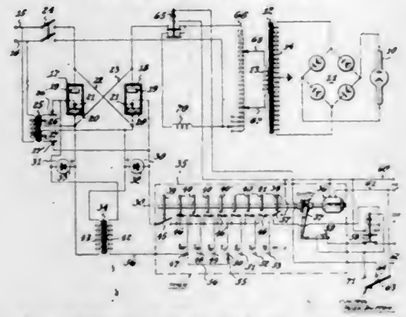
2,316,566

X-RAY TUBE TIMER

James M. Constable, Freeport, and Roger W. Stamm, New York, N. Y., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application April 1, 1941, Serial No. 386,276

13 Claims. (Cl. 250—95)



1. An electric power system comprising in combination, a load circuit and circuit means connecting said load circuit to a source of alternating current comprising a pair of reversely connected arc discharge devices having an anode and a cathode, a starting electrode in the first discharge device, an exterior connection between said starting electrode and the anode of the same

first discharge device, a starting electrode in the second discharge device, a second exterior connection between said last-mentioned starting electrode and the anode of the second discharge device, and means for applying the voltage difference between said arc discharge devices to increase the voltage applied to said starting electrodes, each of said arc discharge devices comprising a mercury pool cathode cooperating with said anode, said starting electrodes comprising high resistance material partially immersed in said mercury pool, and means applying a heating current between the starting electrode and mercury pool not sufficient to ignite the discharge.

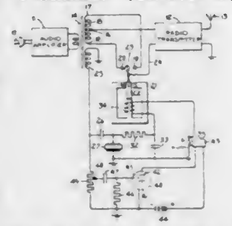
2,316,567

PHASE REVERSING MEANS

David M. Davis, Rexford, N. Y., assignor to General Electric Company, a corporation of New York

Application June 18, 1942, Serial No. 447,503

3 Claims. (Cl. 179—1)



1. In combination, in a system for transmitting an asymmetrical alternating potential through a channel having an asymmetrical linear transmission characteristic, a non-linear resistance, means for impressing said alternating potential across said resistance to develop a continuous potential whose polarity corresponds to the asymmetry of said alternating potential, and means responsive to the polarity of said continuous potential for supplying said alternating potential to said channel in such phase that the asymmetry of said alternating potential corresponds to the asymmetry of the linear transmission characteristic of said channel.

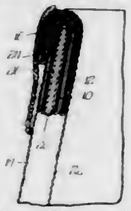
2,316,568

MANUFACTURE OF LAMP SHADES

Herbert Dent, Chicago, Ill.

Application March 28, 1941, Serial No. 385,587

4 Claims. (Cl. 240—108)



1. A method of making a lamp shade of the type having a framework and a cover, which comprises the following steps: attaching one edge of a covering material to a marginal member of the framework, attaching a wire reinforcement to a strip of soft pliant material to rigidify the same, attaching the other edge of the covering material to the rigidified strip at points between the wire reinforcement, and bending the rigidified strip about another marginal member of the framework of the lamp shade into a substantially permanently hooked position.

2,316,569

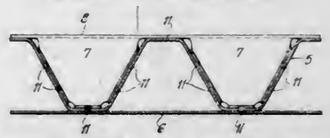
CONSTRUCTION MATERIAL FOR AIRCRAFT

Claude Dornier, Friedrichshafen-on-the-Bodensee, Germany; vested in the Alien Property Custodian

Application April 18, 1939, Serial No. 268,643

In Germany May 2, 1938

6 Claims. (Cl. 189—34)



5. A sheetlike skin construction material for aircraft comprising a corrugated sheet, a plurality of transverse reinforcements individually consisting of a flat strip of material disposed flatly across and flatly abutting and rigidly connected with the crests of the corrugations of said corrugated sheet and having a plurality of full flap like extensions individually extending into the troughs of said corrugated sheet.

2,316,570

WASHING APPARATUS

George W. Dunham, Westport, Conn., assignor to General Electric Company, a corporation of New York

Application July 3, 1942, Serial No. 449,541

6 Claims. (Cl. 141—9)



1. Washing apparatus comprising a vat, a fluid circulating impeller in said vat, a motor comprising a rotor and a stator, said rotor being connected to apply torque to said impeller to cause operation thereof whereby a corresponding reaction torque is exerted on said stator, a conduit for supplying washing fluid to said vat, a valve for controlling the flow of fluid through said conduit, and means responsive to said reaction torque for controlling said valve to shut off the flow of fluid into said vat when said torque attains a predetermined high value.

2,316,571

APPARATUS FOR TREATING ROLLING OILS

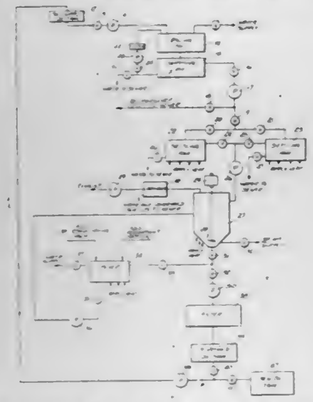
Russell P. Dunmire and James A. Camelford, Cleveland, Ohio, assignors to The Buckeye Laboratories, Inc., a corporation of Ohio

Application June 4, 1942, Serial No. 445,819

5 Claims. (Cl. 80—1)

1. In a rolling mill where a supply of water and a quantity of palm oil from a mill supply tank are caused to flow over and about the mill rolls and the steel strips being rolled and producing a contaminated water and palm oil sludge including soluble metallo-organic contaminants, the combination with collection means for collecting

the water and palm oil sludge and separating the palm oil sludge from the water, of treating apparatus for recovering and purifying the palm oil for recurrent use, said apparatus comprising a sealed retort adapted to receive a quantity of palm oil to be treated, first conduit means controlled by first valve means for transferring palm oil sludge from the collection means to the retort for a pre-condition treatment, a mixing container for receiving an aqueous solution of potassium dichromate, second conduit means controlled by second valve means for transferring the aqueous solution of potassium dichromate to the retort to pre-condition the palm oil sludge in the retort, means for heating the retort, means for evacuating the sealed retort, means to cause operation of the heating means and the evacuating means to continue the pre-conditioning of the palm oil sludge by driving off the water and by separating the metal portion of the metallo-organic contaminant from the palm oil sludge as a precipitate, third conduit means controlled by



third valve means for transferring a portion of the pre-conditioned palm oil sludge to the mixing container, said mixing container constituting a slurry mixer to receive a quantity of solid adsorbent material to make a slurry with the pre-conditioned palm oil sludge in the mixing container, said slurry being transferred to the retort for mixture with the pre-conditioned palm oil sludge remaining in the retort through the said second conduit means, means for mechanically mixing and agitating the pre-conditioned palm oil sludge and the adsorbent material in the retort to adsorb the substantially non-volatile impurities while continuing the operation of the heating means and the evacuating means to drive off the volatile impurities, filter means for separating the adsorbent material and the solid impurities from the palm oil being treated to recover the latter for recurrent use in the mill, and fourth conduit means controlled by fourth valve means for transferring the recovered palm oil to the mill supply tank.

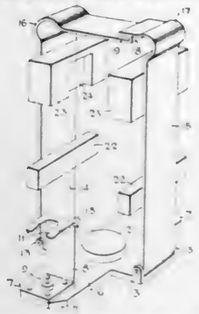
2,316,572
PROCESS OF FINISHING ELECTRIC CONDUCTORS
Irving C. Eaton, Nichols, Conn., assignor to General Electric Company, a corporation of New York
Application April 21, 1939, Serial No. 269,280
5 Claims. (Cl. 117—92)

1. The process of treating the insulating jacket of an electric conductor which comprises applying a hot layer of moisture-resisting compound including bituminous material to said jacket, applying a hot layer of flame-retardng compound immediately over said moisture-resisting com-



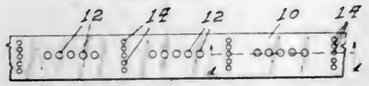
pound, applying a coating of paint having a water soluble solvent over said flame-retarding compound and then immersing said jacket in a water bath to dry said paint and to cool said layers to prevent blending of said compounds.

2,316,573
INSTRUMENT CASE
Willard L. Egy, Troy, N. Y., assignor to W. & L. E. Gurley, Troy, N. Y., a corporation of New York
Application April 1, 1940, Serial No. 327,300
2 Claims. (Cl. 206—1)



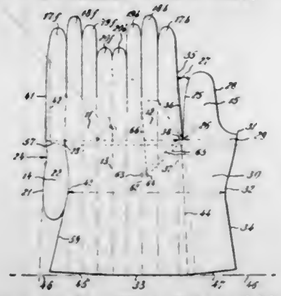
1. Transporting means for an optical instrument of the type including a base, a frame supported by said base, and a telescope mounted in the frame on bearings, said transporting means comprising relatively movable and releasably connected base and side members forming a yoke adapted to be clamped about the instrument; and at least two sets of resilient pads secured to the inner faces of the yoke forming members, one of which sets of pads is positioned on the base of the yoke and cooperates with the base of the instrument to support and laterally confine said base, and the other of which sets of pads comprises a pair which are opposed to each other and recessed on their opposed surfaces, the last named pads being carried by said side members near the upper ends thereof, the recesses serving to receive and confine the bearings against upward and lateral movement.

2,316,574
PERFORATED PIE BAND
William Ehrlich, Fox River, Wis., assignor of forty-five per cent to Albert J. Fihe, Chicago, Ill.
Application August 16, 1941, Serial No. 407,163
1 Claim. (Cl. 206—44)



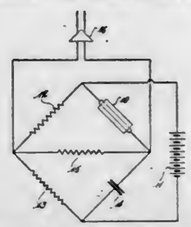
A band for encircling pie plates and retaining cover sheets thereon, said band comprising a strip of material having its ends joined, a series of transverse perforations in the band at spaced intervals therearound and another series of longitudinal perforations formed in the band at spaced intervals and between the transverse perforations, the longitudinal perforations being positioned medially of the band and for the purpose of gripping the sheet in position about the edges of the pie plate when the band is positioned around said plate, certain of said longitudinal perforations breaking into each other and thereby forming gripping elements for the pie plate edge and its associated sheet, the longitudinal perforations being larger than the transverse ones.

2,316,575
GLOVE
Hugo Evangelista, Gloversville, N. Y.
Application June 30, 1941, Serial No. 400,468
8 Claims. (Cl. 2—169)



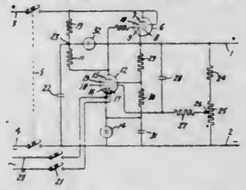
1. A glove made with an integral blank of flexible material comprising a central back panel having a palm panel on one side and a back thumb panel on the other side thereof, said palm panel having a downwardly extending front thumb tab, the upper part of said back thumb panel forming a back thumb portion, the outer edge of said back thumb portion extending downwardly and outwardly to form a substantially pointed gusset, the point of the gusset being sewn to the base of the inner edge of the front thumb tab, the pointed portion of the gusset which is sewn to the base of the inner edge of the front thumb tab being positioned above said base in the glove blank.

2,316,576
WELL SURVEYING METHOD AND APPARATUS
Robert Earl Fearon, Tulsa, Okla., assignor to Well Surveys, Incorporated, Tulsa, Okla., a corporation of Delaware
Application August 14, 1940, Serial No. 352,609
6 Claims. (Cl. 250—83.6)



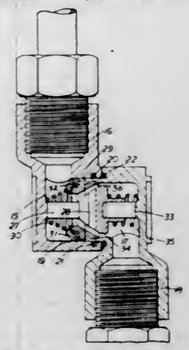
1. In a geophysical prospecting device, the improvements including an electrical circuit that comprises an electrical bridge, an ionization chamber included in one leg of said bridge, a condenser included in an adjacent leg of said bridge, resistances included in each of the other legs of said bridge, a source of electrical potential connected diagonally across said bridge in one direction, a fixed impedance connected diagonally across said bridge in the other direction and a measuring instrument connected across said fixed impedance.

2,316,577
ELECTRONIC REGULATOR
Warren A. Ford and Philip C. Michel, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York
Application July 4, 1942, Serial No. 449,750
9 Claims. (Cl. 171—312)



1. In combination, a direct current supply circuit comprising positive and negative terminals, a direct current output circuit including positive and negative terminals, a variable impedance electronic discharge device connected between the positive terminals of said supply circuit and said output circuit and comprising a grid, an impedance element, a second electronic discharge device connected in circuit with said impedance element for transmitting variable amounts of current therethrough and for controlling the potential of said grid, said second discharge device comprising an anode, a cathode and control means, means responsive to an electrical condition of one of the first mentioned circuits for controlling the potential of said control means, and means connected in circuit between the positive terminal of said output circuit and said anode for maintaining the potential thereof at a fixed increment above the potential of the positive output terminal.

2,316,578
PIPE COUPLING
Louis Thomas Hutchison Greig, Nazeing, England
Original application December 19, 1941, Serial No. 423,673, now Patent No. 2,310,073, dated February 2, 1943. Divided and this application October 15, 1942, Serial No. 462,174. In Great Britain December 5, 1940
3 Claims. (Cl. 284—17)



1. A self-sealing coupling comprising, a first conduit terminating in a cylindrical socket, a second conduit terminating in a cylindrical projection adapted for insertion in said socket, a packing ring countersunk within said socket adjacent its end in a position to lie between the

cylindrical surfaces of the projection and socket when they are engaged, a valve in said socket, means for rigidly supporting said valve in the plane of said packing ring, said valve defining with said ring an annular space, an annular valve seat, resilient means urging said annular valve seat to close said annular space, means defining a rigid annular valve seat on the end of said projection, a second valve coacting with said rigid valve seat, and means resiliently urging said second valve against said rigid valve seat to close off the end of said projection, said valves and said seats being in a position and of a size to mutually abut when the projection is inserted in the socket, whereby upon such insertion the rigid valve seat and valve displace, respectively, the resiliently urged valve seat and valve to open the ends of both conduits for intercommunication, while the packing ring coacts with the annular valve seat when the socket is closed and with the cylindrical surface of the projection when it is open to prevent leakage in both cases.

2,316,579

METHOD FOR REMOVING METAL COATINGS FROM BASES

Earl C. Hall, Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

No Drawing. Application April 10, 1940, Serial No. 328,879
5 Claims. (Cl. 204—146)

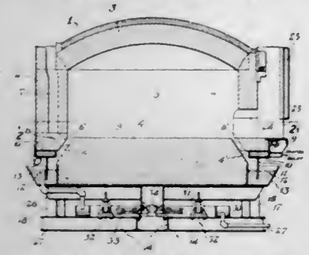
3. In a method of removing a combination of nickel and chromium coatings from a ferrous composition base, the step of anodically electrolyzing the coated base in a solution consisting essentially of 1 to 5 ounces of boric acid and 1 to 4 pounds of chromium trioxide per gallon of water while maintaining the temperature of the solution between 155° F. and 185° F.

2,316,580

INDUSTRIAL FURNACE

Lazenby C. Hamlink, Cleveland Heights, Ohio, assignor to The Gas Machinery Company, Cleveland, Ohio, a corporation of Ohio

Application May 26, 1941, Serial No. 395,123
2 Claims. (Cl. 263—40)



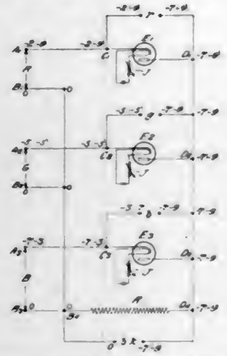
1. An industrial furnace having a wall and dome structure, and a hearth spaced from the wall, said structure and hearth forming an enclosed combustion chamber, the wall being formed with outlet flues communicating with the space between the hearth and wall only through openings near the lower edge of the wall, and the combustion chamber communicating with said flues through the upper portion of said space, whereby all combustion gases are caused to pass into said space and air infiltering into said space is diverted into said flues under the suction effect created in said flues by the passage of the combustion gases from said space into said flues.

2,316,581

METHOD AND APPARATUS FOR MAKING SEPARATION IMAGES FOR FOUR-COLOR REPRODUCTION

Arthur C. Hardy, Wellesley, Mass., Francis L. Wurzburg, Jr., New York, N. Y., and Edward C. Dench, South Orange, N. J., assignors to Interchemical Corporation, New York, N. Y., a corporation of Ohio

Application August 5, 1941, Serial No. 405,486
14 Claims. (Cl. 178—5.2)



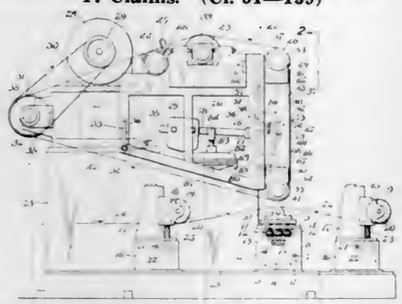
1. An electro-optical circuit comprising three channels respectively bearing signals corresponding to three color components of a colored original, a fourth channel connected to each of the three channels and means responsive to the intensities of the signals for rendering conductive into the fourth channel only the channel carrying the signal whose intensity is the greatest of the three, and fifth, sixth and seventh channels each one of which is connected to the output of one of the first three channels and to the output of the fourth channel and means for establishing in each one of the fifth, sixth and seventh channels a signal equal to the difference between the signals in the two channels to which it is connected.

2,316,582

GRINDING AND POLISHING MACHINE

Lad L. Hercik, Lakewood, Ohio, assignor to The Hill Acme Company, Cleveland, Ohio, a corporation of Ohio

Application May 31, 1940, Serial No. 338,175
17 Claims. (Cl. 51—139)



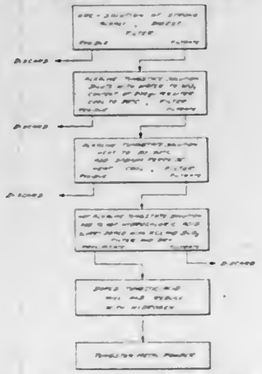
16. In a machine of the character described, in combination, a work support, a relatively stationary housing, an elongated head supported on said housing for movement toward and from the work support, means for moving the head, an endless belt having its front face coated with abrasive, a plurality of rolls for supporting and tensioning the belt, all of said rolls being engaged with the rear face only of the belt, power means for driving one of the rolls, at least two of said rolls being mounted on opposite end portions of the head, and means associated with the head supporting mechanism adapted to swing the opposite end portion of the head about different centers during movement toward and from the work support so as to maintain the tension on the belt constant.

2,316,583

MANUFACTURE OF TUNGSTIC ACID

Harry W. Highriter, Lake Forest, Ill., and William C. Lilliendahl, Mountain Lakes, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application August 6, 1941, Serial No. 405,682
16 Claims. (Cl. 75—84)



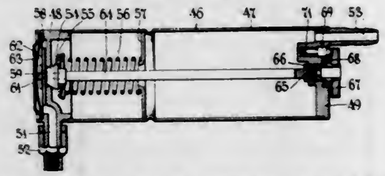
1. The method of manufacturing tungstic acid comprising treating tungsten ore with a hot solution of a strong alkali, filtering, diluting the alkaline tungstate solution comprising the filtrate, cooling, again filtering to avoid the necessity of a purifying crystallization, oxidizing sulfides, and adding the filtrate to hydrochloric acid while both are heated.

2,316,584

DIRECTION INDICATOR

Erwin C. Horton, Hamburg, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.

Application November 19, 1938, Serial No. 241,449
14 Claims. (Cl. 177—329)



1. In a signal, signal means changeable from one to another indicating condition, fluid pressure means for holding the signal means in one of said conditions when the pressure is of predetermined differential from atmospheric pressure and otherwise allowing the signal means to return to the other indicating condition, a chamber in fluid communication with the fluid pressure holding means, said chamber having a fluid passage connectible to a source of fluid pressure and said chamber having an atmospheric vent, a valve for said passage, and means responsive to the fluid pressure in said passage for closing said valve when the pressure is of less than predetermined differential from atmospheric pressure.

2,316,585

PAINT COMPOSITION

Leslie James Howlett, Lindfield, and Wesley Henry Howlett, Gordon, New South Wales, Australia

No Drawing. Application January 29, 1941, Serial No. 376,522. In Australia May 25, 1940
5 Claims. (Cl. 106—95)

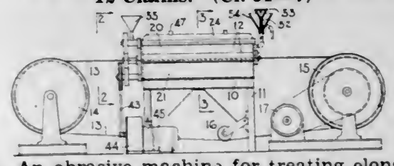
1. A paint composition comprising an intimate mixture of Portland cement, linseed oil, and a suspension medium consisting of magnesium carbonate, said Portland cement and linseed oil being present in the mixture in the ratio of about twenty-four parts cement to about fourteen parts oil, and said cement being maintained in suspension in said mixture by the presence of a relatively small amount of magnesium carbonate intimately dispersed throughout the mixture.

2,316,586

ABRASIVE MACHINE

Louis Illmer and Vernon R. Pallas, Cortland, N. Y.; said Pallas assignor to Leota T. Pallas

Application April 2, 1941, Serial No. 386,462
12 Claims. (Cl. 51—7)



1. An abrasive machine for treating elongated metallic stock, said machine comprising sealed stationary trough means adapted to be confinedly charged with a batch of abrasive grit and which batch is arranged to provide for a localized superficial cutting zone exposed to and brought into active engagement with a portion of said stock, regulatable grit compression means imposing an elevated pressure in the grit batch and thereby augmenting the grit impression toward the engaged portion of said stock, grit agitator means serving to slowly convey a portion of such grit from a remote batch region and transfer a supply of grit into said cutting zone, and power driven means dragging the impressed stock lengthwise through said zone at a substantially uniform velocity materially higher than that corresponding to the rate of conveyed grit transfer.

2,316,587

STABILIZED OIL

Sin-Iti Irigai, Tokyo, Japan, assignor to General Electric Company, a corporation of New York

No Drawing. Application January 4, 1941, Serial No. 373,161. In Japan February 20, 1940
3 Claims. (Cl. 252—63)

3. Petroleum hydrocarbon oil stabilized against oxidation with from 0.01 to 1.0 per cent by weight thereof of diphenyl piperazine.

2,316,588

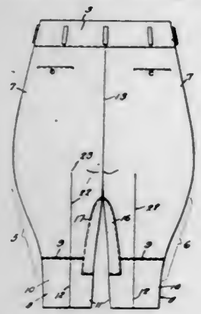
RIDING BREECHES

Harry Z. Isaacs, Baltimore, Md.

Application December 9, 1940, Serial No. 369,344
2 Claims. (Cl. 2—227)

1. Riding breeches including leg portions for

embracing the legs in the zone of the calf and knee, said leg portions each comprising front and back fabric panels united laterally in inner and outer side seams, said back panel comprising upper and lower portions, the lower portion of each back panel comprising two parts in lateral close adjacency stitched to the bottom edge of the upper portion, the upper portion of said back panel having a longitudinal cleft intermediate the inner and outer side seams, extending from the line of juncture of said upper with said



lower portion to a point above the knee zone, and in substantial alignment with the line of separation between the parts of said lower portion, said cleft, including said line of separation being closed by an alteration seam uniting the sides of said cleft and the parts of said lower portion, along a continuous line remote from the edges of said cleft and the adjacent edges of said parts, thereby providing marginal surplus of material on the inside of said seam substantially throughout its length.

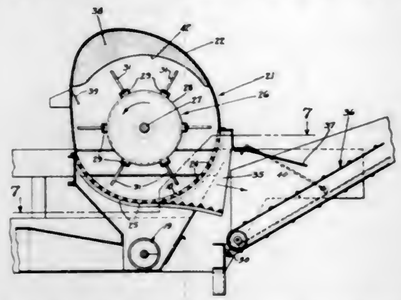
2,316,589
LAMP OR ILLUMINATED ORNAMENT
Stanley Iwanowicz, Detroit, Mich.
Application April 21, 1942, Serial No. 439,815
1 Claim. (Cl. 240—10)



An ornamental light comprising an elongated body of light-transmitting material having a plurality of depressions adjacent one end thereof, a plurality of ornamental light-transmitting elements having extended means entering said depressions to removably support the elements on the body with said elements contacting the body so that light may pass directly thereto, and a light source at the other end of said body adapted to project light into the other end of said body.

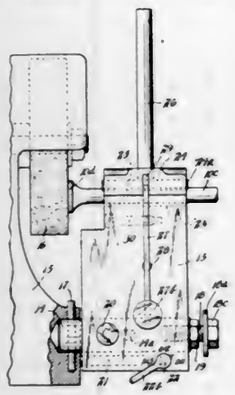
2,316,590
PORTABLE APPARATUS FOR TREATING FLAX STRAW
John A. Johnson, Winona, Minn.
Application October 28, 1940, Serial No. 363,116
9 Claims. (Cl. 19—90)

7. A housing comprising a lower semi-cylindrical grid-like bottom wall and an upper curved wall, a cylinder mounted in said housing, and said upper curved wall extending upwardly from the horizontal plane of the cylinder axis in an outwardly sweeping curve away from the cylinder, and in the direction of movement of the upper portion of the cylinder, to a point beyond the vertical plane of the cylinder axis, and thence downwardly in a direction towards the lower cylindrical wall portion of the housing in substantially a vertical line tangent to the lower hous-



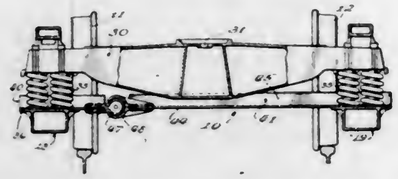
ing wall, whereby a longitudinally extending recess or chamber is formed in the upper portion of the housing into which the material delivered into the housing is repeatedly thrown from the cylinder teeth and turned over with respect to the cylinder.

2,316,591
VALVE STEM GRINDING ATTACHMENT
Lennart L. Johnson, Minneapolis, Minn.
Application February 3, 1941, Serial No. 377,106
5 Claims. (Cl. 51—124)



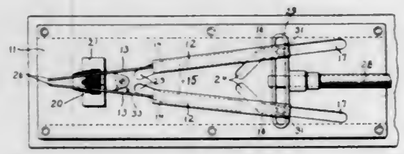
2. In grinding mechanism for adjusting the length of a poppet valve stem, a valve holding carriage associated with a grinding wheel, a mounting for said carriage, means for limiting the outward or retracted movement of said carriage, means for limiting the movement of said carriage towards said grinding wheel, said mounting providing for swinging movement of said carriage during its movement towards said grinding wheel, and a clamp on said carriage for securing a valve thereto disposed perpendicularly to the grinding face of said grinding wheel, said clamp comprising a V-shaped channel on the top of said carriage, a movable jaw disposed above said groove having a pair of cooperating, somewhat compressible cylindrical elements disposed in side by side relationship above said groove, and means for retaining said movable jaw in clamping position.

2,316,592
RAILWAY CAR TRUCK
Charles S. Johnston, Glencoe, Ill., assignor to Transportation Specialties Company, Chicago, Ill., a corporation of Illinois
Application November 19, 1941, Serial No. 419,679
2 Claims. (Cl. 105—208.2)



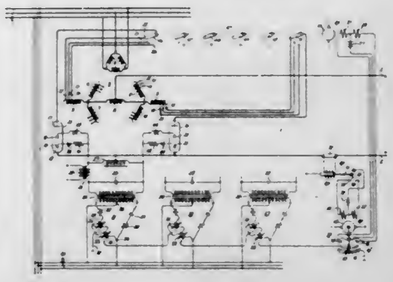
1. A ball-and-socket connection for railway car truck spring planks comprising a ball member and a socket member, said ball member and socket member each being provided with attaching flanges separated by a slot, said slot being of sufficient width to embrace the web of a channeled spring plank, and said socket member being made of two separate parts secured together to form a socket when they have their attaching flanges secured to the web of a spring plank section.

2,316,593
ELECTRIC PLUG ASSEMBLING MACHINE
Carl H. Judisch, New Haven, Conn., assignor to The Whitney Blake Company, New Haven, Conn., a corporation of Connecticut
Application July 11, 1940, Serial No. 344,841
11 Claims. (Cl. 29—84)



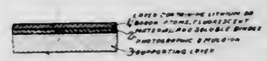
1. A machine for assembling a twin conductor cord having a contact blade secured to each conductor with a connector plug having a pair of converging passageways extending therethrough and forming a single opening at the rear of the plug comprising means for holding the connector plug; a pair of spaced arms; means on said arms for detachably securing blades thereto; means for simultaneously moving said arms forwardly through the passageways to expose said blade securing means at the rear of the plug whereby blades may be mounted to said securing means, said moving means adapted to withdraw said arms from said plug for pulling said contact blades into the diverging openings of the passageways and the end of said cord into said opening; and means carried and controlled by the arms and extending over at least a part of the end of the cord and movable therewith during the withdrawal of said arms, said means being disposed between the cord and adjacent wall portions of the single opening during the entire withdrawal operation and preventing the end of the cord from engaging said adjacent wall portions until the end of the cord and said blades have been drawn into their proper positions within said connector plug.

2,316,594
ELECTRIC VALVE CONTROL CIRCUITS
Frank L. Kaestle, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application December 6, 1941, Serial No. 421,949
3 Claims. (Cl. 175—363)



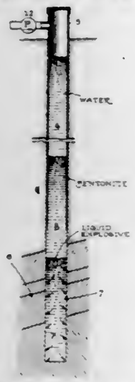
3. In combination, an alternating current circuit, a direct current circuit, electric translating apparatus connected between said circuits and including variable voltage transforming means and electric valve means of the type having an anode, a cathode and a control member, excitation means for impressing on said control member a voltage variable in phase with respect to the voltage of said alternating current circuit and for controlling an electrical condition of one of the first mentioned circuits and comprising a saturable inductive device, control means responsive to said electrical condition for controlling the magnetization of said inductive device and comprising a source of direct current, a variable resistance and a motor for controlling said resistance, means responsive to said electrical condition of said one circuit for controlling the operation of said motor, limit switches associated with said resistance and said motor, and means for controlling said variable voltage transforming means comprising a second motor controlled by said limit switches.

2,316,595
PHOTOGRAPHIC PLATE OR FILM FOR THE INVESTIGATION OF BODIES OR SUBSTANCES BY MEANS OF NEUTRONS
Hartmut Israel Kallmann, formerly known as Hartmut Kallmann, Berlin-Charlottenburg, Ernst Kuhn, Berlin, and John Eggert, Leipzig, Germany; vested in the Alien Property Custodian
Application March 16, 1939, Serial No. 262,306
In Hungary March 23, 1938
1 Claim. (Cl. 95—8)



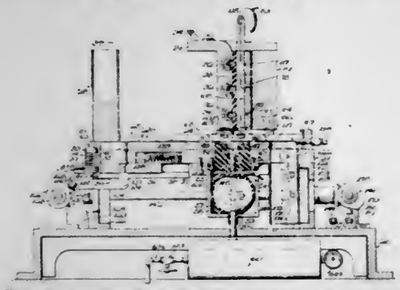
A photographic plate or film for use in the investigation of materials by means of neutrons comprising a supporting laver, a layer of photographic emulsion on said supporting layer and a layer comprising a substance capable of reacting with neutrons to generate charged particles and a binder substance, the binder substance being soluble in a liquid capable of developing the photographic layer.

2,316,596
SHOOTING WELLS
Harvey T. Kennedy, Oakmont, Pa., assignor to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware
Application November 4, 1938, Serial No. 238,891
3 Claims. (Cl. 102—23)



1. A process of increasing the productivity of a well having a producing rock formation of at least some permeability to fluids, comprising the steps of introducing into the well a charge of a mobile liquid explosive capable of shattering rock with production of channels leading to the well and introducing into the well a column of a liquid material of such character as to be incapable of penetrating into fine pored rock and of density less than that of the liquid explosive, applying a pressure to the non-penetrating liquid column and the explosive of magnitude greater than formation pressure, for a time sufficient to force the explosive out of the well and into the permeable rock formation, maintaining pressure on the explosive while in the rock formation and detonating said explosive in the rock formation, whereby explosion takes place well within the pores and channels of the rock itself.

2,316,597
METHOD OF AND APPARATUS FOR WELDING
Henry Kershaw, Belleville, N. J.
Application November 28, 1941, Serial No. 420,876
38 Claims. (Cl. 219—4)



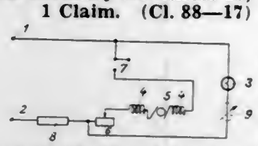
4. In apparatus for attaching a pin to a metal article, an element to oppose the movement of the article in one direction, resilient pneumatic means to move the first named element in one direction, means to move the end of a wire into contact with the face of the article and to cause pressure between the contacting parts of the end and face, means for supplying a welding current to such contacting parts, and means to sever the wire after the welding operation to separate the attached pin from the wire.

34. Apparatus for welding metallic parts, comprising means to move one part into contact with the other part, a pneumatic cell separate from the moving means and serving to support the second named part in opposition to the action of the moving means, the cell serving to instantly follow through during the welding step independently of the inertia of the moving means, and means to supply a welding current to the parts.

2,316,598
METHOD OF POLYMERIZING 2-HALOGENO-BUTADIENE-1,3
Ryukichi Kitani, Naoichi Takashima, and Hideo Kaneko, Kawasaki, Japan, assignors to General Electric Company, a corporation of New York
No Drawing. Application December 18, 1940, Serial No. 370,724. In Japan January 19, 1940
3 Claims. (Cl. 260—92.7)

1. A method of polymerizing 2-chloro-butadiene-1,3 which comprises partially polymerizing the said compound at a temperature not exceeding substantially 12° C. for from 40 to 50 hours in the presence of an inert atmosphere thereby to form a foundation polymer at a relatively low reaction rate, emulsifying the said polymer, causing the emulsified polymer to polymerize further at a substantially higher reaction rate than that employed in the initial polymerization of the starting 2-chloro-butadiene-1,3 to a foundation polymer, and isolating the more highly polymerized 2-chloro-butadiene-1,3 from the other components of the mass.

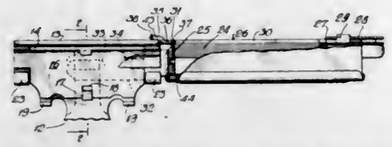
2,316,599
MOTION PICTURE REPRODUCING SYSTEM
Rudolf Kuhnert, Dresden, Germany; vested in the Alien Property Custodian
Application January 24, 1941, Serial No. 375,816
In Germany November 16, 1939
1 Claim. (Cl. 88—17)



In a system of the character described, the comprising a supporting layer, a layer of photo-picture reproducing machine and a manually operable switch for controlling the operation of said motor, of a pilot lamp in a circuit arranged in parallel to said electric motor and said switch, and means in a portion of the circuit which is common to said electric motor and said pilot lamp for producing during the operation of said electric motor a voltage drop of sufficient magnitude to prevent an operation of said pilot lamp, the voltage applied to said pilot lamp when said motor is rendered inoperative being such that the pilot lamp is automatically energized to full luminosity.

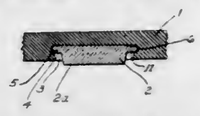
2,316,600
BLADE MAGAZINE
Leopold Kuhnl, Bridgeport, and John R. Reyburn, Fairfield, Conn., assignors to Magazine Repeating Razor Company, New York, N. Y., a corporation of New Jersey
Application September 11, 1941, Serial No. 410,405
8 Claims. (Cl. 30—40)

1. The combination of a razor comprising two blade clamping members, with a blade magazine having a blade ejection orifice and means for injecting blades from the magazine one by one through the blade ejection orifice into the space between the clamping members, means on the magazine for attaching it to the razor, and also



means on the magazine for insuring accurate alignment of the blade ejection orifice with the said space, said means comprising a lug positioned and adapted to engage one of the clamping members when the attaching means is in attaching relation to the razor and to locate the said orifice in alignment with said space.

2,316,601
CORD PLUG
Frederic V. Larkin, Windsor, Vt., assignor to Wingfoot Corporation, Wilmington, Del., a corporation of Delaware
Application July 18, 1941, Serial No. 402,894
3 Claims. (Cl. 36—59)



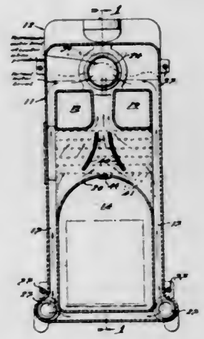
1. A rubber sole having a friction plug located therein, said plug being separated at the upper portion thereof by an inclined well, a flange on said plug at the base portion thereof, said flange extending beyond the outer wall of said well, said plug and flange being integrally connected to said sole.

2,316,602
SAFETY GARMENT FOR INFANTS
Catherine W. Lee, Los Angeles, Calif.
Application February 20, 1942, Serial No. 431,639
1 Claim. (Cl. 2—111)



A safety restraining garment for children comprising a jacket adapted to be fitted about the upper portion of the child's body and a belt fastened to the jacket at the rear thereof and over a relatively large area of said jacket, the fastening means comprising lines of stitching in rectangular form, the lines of stitching connecting the restraining belt directly to the back portion of the garment, auxiliary fastening means on the jacket for securing the same in snug position about the wearer's body, and means for fastening the ends of the restraining strap in adjusted position with respect to a mattress or other support for the child.

2,316,603
PERCOLATOR BOILER
Allen P. Livar, Dayton, Ohio, assignor to Chrysler Corporation, Detroit, Mich., a corporation of Delaware
Application June 3, 1941, Serial No. 396,408
11 Claims. (Cl. 122—225)



5. A cast boiler section having substantially parallel front and rear walls, substantialy parallel side walls forming with said front and rear walls the vertical walls of a water space, an outlet opening located at the top of said water space in at least one of said front and rear walls and midway between said side walls, a fire space crown wall forming the bottom of said water space, an inlet opening located in at least one of said front and rear walls and below said crown wall, and a pair of internal baffles located within said water space and one at each side of the vertical center line of the section, said baffles converging upwardly and terminating at their upper ends beneath said outlet opening and at their lower ends above said crown wall.

2,316,604
OXIDATION OF ORGANIC COMPOUNDS
Donald J. Loder, and Ambrose McAlevy, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 2, 1939, Serial No. 302,536
7 Claims. (Cl. 260—484)

1. A method of oxidizing a normally liquid aliphatic compound selected from the class consisting of allyl acetate, allyl chloride, and ethyl crotonate, which comprises subjecting such compound to oxidation in a liquid phase by means of a gas containing free oxygen, in the presence of an oxidation catalyst, an oxidation initiator selected from the group consisting of peroxides and peroxide-forming bodies, and an organic solvent for the compound, at a temperature within the range of from 75 to 250° C.

2,316,605
PREPARATION OF ORGANIC ESTERS
Donald J. Loder, William F. Gresham, and Donald B. Killian, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 29, 1940, Serial No. 326,662
2 Claims. (Cl. 260—484)

2. 1,1 - di(carbomethoxymethoxy) - 2 - methyl propane, $(CH_3OOCCH_2O)_2CHCH(CH_3)_2$.

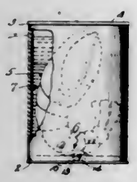
2,316,606
POLYCARBOXYLIC ACIDS
Donald J. Loder and William F. Gresham, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 13, 1940, Serial No. 345,420
1 Claim. (Cl. 260—534)

A process for preparing sodium ethanol amine formal N-tetracetate having the empirical formula

$$CH_2[OCH_2CH_2N(CH_2COONa)_2]_2$$

which consists in admixing with stirring and cooling below 15° C. a solution of 47.2 parts by weight chloracetic acid in 40 parts by weight water and a solution of 20 parts by weight sodium hydroxide in 50 parts by weight water, then incorporating 16.7 parts by weight ethanol amine formal and 31 parts by weight sodium carbonate monohydrate; allowing the reaction mixture to stand at 20 to 35° for four hours, then heating the reaction mixture to 85 to 95° for an additional four hours, cooling and filtering off precipitated sodium bicarbonate, and separating a filtrate containing sodium ethanol amine formal N-tetracetate.

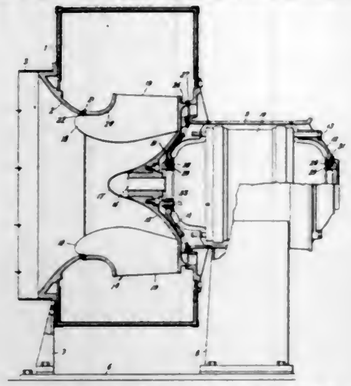
2,316,607
METHOD OF PACKAGING LIVE LOBSTERS
Joseph R. Macdonald, Winchester, Mass.
Application August 31, 1939, Serial No. 292,847
4 Claims. (Cl. 119—2)



1. Method of keeping lobsters alive, comprising the steps of putting a live lobster into a container with sufficient sea water completely to submerge its body, while passing oxygen into the container through the water, closing the container, continuing the introduction of oxygen to produce a concentration of oxygen greater than that of the atmosphere, and finally hermetically sealing the container.

2,316,608
CENTRIFUGAL FAN
Kenton D. McMahan, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application October 26, 1939, Serial No. 301,416
5 Claims. (Cl. 230—117)

1. In combination, a motor, an impeller mounted thereon, a support, a casing for the impeller with which the impeller has a running clearance, inner and outer surfaces on the motor and support spaced apart along and surrounding the motor axis, a resilient mounting for supporting the motor for yielding movement relative to the casing comprising rings of rubber-like material between said surfaces, and means for compressing the rings axially to squeeze the rings radially into engagement with said surfaces, said compressing means being adjustable to vary the compression of the rings around the circumference



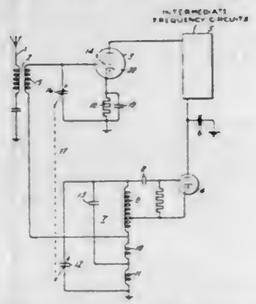
thereof to displace the motor axis radially and thereby align the impeller with its casing.

2,316,609
ARTICLE SUPPORTING RACK
Robert V. Miner, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application April 9, 1940, Serial No. 328,636
1 Claim. (Cl. 204—297)



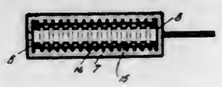
In a rack for supporting round and substantially flat articles in an electrolyte in an anodic oxidation process, a bar of conducting material, means for supplying current to said bar, a pair of spaced and parallel article supporting members of rigid insulating material capable of absorbing said electrolyte depending from the bar and having longitudinal grooves in their opposed faces for receiving a plurality of said articles and positioning the articles with peripheral portions of each article in contact with peripheral portions of adjacent articles, the width of said grooves being greater than the thickness of said articles and the base of each groove being configured in the form of an inverted V to engage the articles as they are inserted in the groove and direct the inserted articles selectively toward either side of the grooves, a formed pressure member of conducting material positioned in the grooves having a beveled portion at one end for engaging the periphery of an end article in the groove and a bent portion at the other end with a surface recess therein, a connector of conducting material having one end portion engaging the pressure member recess and the other end portion engaging the conductor bar, and a helical spring encircling the connector for urging the connector into electrical contact with the conductor bar and the pressure member and forcing the pressure member against the end article to cause the current to travel throughout the series of articles in the grooves.

2,316,610
FREQUENCY CONVERTER
William W. Moe, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York
Application July 24, 1941, Serial No. 403,799
8 Claims. (Cl. 250—20)



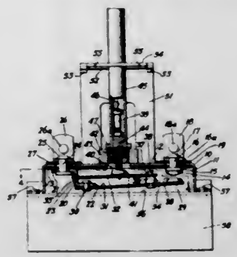
1. The combination, in a frequency converter for high frequency receivers, of a signal input circuit, a tuned local oscillator circuit, said circuits including an inductive impedance in common, a tuning condenser in the local oscillator circuit in series with said impedance, and means for increasing the current in the impedance as the capacity of said tuning condenser increases thereby to increase the voltage supplied from the local oscillator to said signal input circuit as the frequency of the local oscillator is reduced.

2,316,611
EXPANSION THERMOMETER
Wilhelm Neuse, Finkenkrug, Kreis Osthavelland, Germany; vested in the Alien Property Custodian
Application August 2, 1939, Serial No. 287,949
In Germany September 27, 1938
1 Claim. (Cl. 297—3)



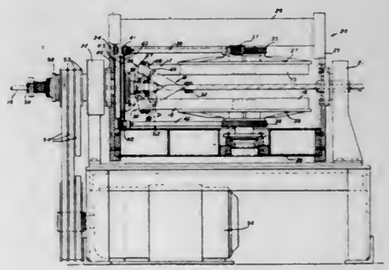
In a thermostatic device, a cylindrical container adapted to be subjected to temperature changes, a capillary tube connected to said container and extending to a pressure responsive device, an expansible and contractible liquid filling said container and tube, a cylindrical capsule disposed inside said container with its axis in coincidence with the axis of the container and with its side and end walls substantially uniformly spaced from the walls of the container, said capsule sealed against the entrance of said liquid and being expandible and contractible lengthwise throughout the whole operative range of pressure changes in the liquid, and a coiled spring surrounding said capsule to oppose contraction thereof.

2,316,612
CONTROL DEVICE
Heber L. Newell, Stratford, Conn., assignor to General Electric Company, a corporation of New York
Application February 8, 1940, Serial No. 317,850
8 Claims. (Cl. 200—138)



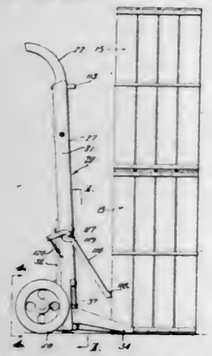
1. A control device for controlling an electrical circuit in accordance with temperature changes comprising a support, switch means mounted on said support, a bracket having a slot therein mounted on said support at a point remote from said switch means, a resilient arm having one end secured to said bracket and its opposite end free to move to actuate said switch means, a stud mounted on said arm near said free end and a bimetallic temperature responsive element having one end loosely supported by said stud and its opposite end extending through said slot in said bracket so as to be loosely supported by said bracket, said bimetallic element being constructed and arranged to cause said arm to move said switch means in accordance with temperature changes.

2,316,613
STRAND HANDLING APPARATUS
Axel C. Nystrom, Rutherford, and Lorentz G. Wade, Westfield, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application January 13, 1942, Serial No. 426,545
10 Claims. (Cl. 57—15)



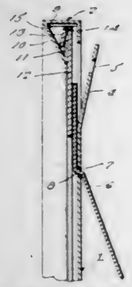
1. In an apparatus for serving tape on a longitudinally advancing core and having a core guide member rotating about and supporting the portion of the core advancing to the winding point where a tape being served meets the core, means to guide and serve the tape comprising a plurality of rolls mounted detachably as a set on the core guide to be interchangeable thereon for another plurality as a set and rotatable therewith about the core to guide the tape to the winding point.

2,316,614
SYSTEM AND TRUCK FOR LOADING BOXED PRODUCE
Harold C. Pierce, Pomona, Calif.
Application February 17, 1941, Serial No. 379,266
18 Claims. (Cl. 214—65.5)



1. A truck for conveying bulged crown boxes arranged side by side on end with the crown of one box adjacent the other box to form a space between the boxes, said truck comprising a frame, box holding means comprising bodily movable clamps engageable with the outer faces of said boxes at the sides of the truck, members adapted to be inserted within said space and bodily movable apart into supporting engagement with the box faces exposed thereto, and means for manually operating said clamps and members.

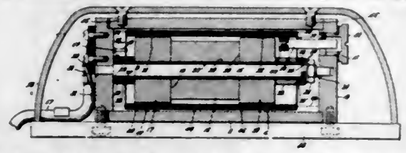
2,316,615
DISPLAY FRAME
Henry S. Piper, Minneapolis, Minn.
Application February 10, 1942, Serial No. 430,266
2 Claims. (Cl. 40—152.1)



1. In a frame of the class described, a back panel having top, bottom and side portions folded upon themselves and each including a forwardly extending flange, an inturned angularly related front facing flange, and a tongue forming flange integral with the facing flange and spaced behind the same, and a mat fitting within the forwardly extending flanges and having an inturned surrounding edge flange overlying the tongue forming flanges between the same and the facing flanges whereby said mat is interlocked with said tongue forming flange.

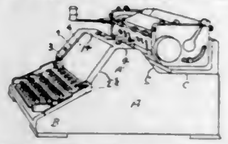
2,316,616
VIBRATION RESPONSIVE DEVICE
Frederic K. Powell, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application February 11, 1942, Serial No. 430,407
5 Claims. (Cl. 171—209)

1. A vibration velocity responsive device comprising a shell of magnetizable material with a substantially cylindrical inner surface, a substantially concentric center rod mounted in the shell, a permanent magnet unit mounted on said center rod with substantially cylindrical pole pieces having cylindrical surfaces spaced from the inner surface of said shell to form a pair of annu-



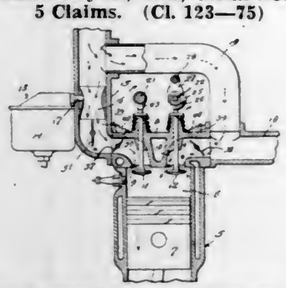
lar air gaps, an electrical winding structure including a pair of current-conducting coils within said air gaps and a resilient mounting for said winding structure providing stiffness with respect to transverse motion and resilience with respect to relative axial motion between the electrical winding structure and the permanent magnet pole pieces.

2,316,617
TYPEWRITER CASING
Giuseppe Prezioso, Yverdon, Switzerland, assignor to E. Paillard et Cie S. A., Yverdon, Switzerland, a corporation of Switzerland
Application February 1, 1941, Serial No. 377,054
In Switzerland February 23, 1940
5 Claims. (Cl. 197—186)



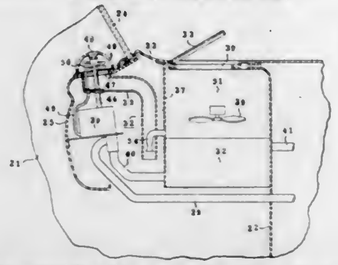
5. In a typewriting machine adapted for visible typing and wherein the type bars and ribbon spools are located between the platen and the keyboard, a casing including opposite side walls each having an inclined front edge respectively leading to a portion flanking the keyboard, and a rearwardly inclined front wall for masking the type bars and providing a notebook support between the platen and the keyboard, said front wall extending transversely between and being supported on the inclined front edges of said side walls, a rearwardly extending flange at the top of the front wall to overlie the ribbon spools, and a forwardly and outwardly extending book supporting flange at the bottom of the front wall.

2,316,618
INTERNAL COMBUSTION ENGINE
Burley A. Pyatt, Fort Crook, Nebr.
Application July 28, 1942, Serial No. 452,650
5 Claims. (Cl. 123—75)



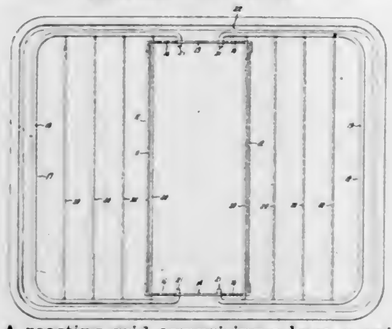
1. In an internal combustion engine, a cylinder having intake and exhaust passages, a piston in said cylinder, intake and exhaust valves for said intake and exhaust passages, a carbureter construction connected to said intake passage for furnishing fuel and air to the cylinder under the control of the intake valve, means for operating said intake valve, and exhaust valve operating means for operating the exhaust valve for exhausting the cylinder of spent gases at a selected speed of the engine and under other selected speeds for operating the exhaust valve to admit air to the cylinder during the admittance of fuel and air to said cylinder by the intake valve and to exhaust spent gases from the cylinder.

2,316,619
CONTROL SYSTEM
Estel C. Raney, Columbus, Ohio, assignor to Ranco Incorporated, Columbus, Ohio, a corporation of Ohio
Application August 21, 1941, Serial No. 407,807
5 Claims. (Cl. 237—2)



2. In combination, a compartment; means for controlling the temperature of the air in the compartment, said means including a thermal responsive element and an adjustable member; manually rotatable means in said compartment for adjusting said member, said rotatable means including a hollow rotatable shell, said shell being extended into the compartment for forming a manually rotatable knob, said shell having one or more air inlet openings therein, the portions of the shell at said opening or openings forming one or more finger grips, said thermal element being disposed within the shell; and means forming an aspirator for drawing air from the compartment, through said opening or openings in the shell and over the thermal element.

2,316,620
ROASTING RACK
Gregory L. Rees, La Grange Park, Ill., assignor to Edison General Electric Appliance Company, Inc., Chicago, Ill., a corporation of New York
Application July 7, 1942, Serial No. 449,986
4 Claims. (Cl. 53—6)

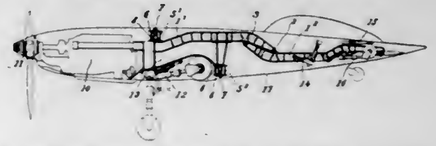


1. A roasting grid comprising a base, a pair of food supporting leaves mounted on said base, said base being provided with similar end sections having a series of seats therein located at various levels with reference to the bottom of the base, said end sections also having elongated slots therein, and said leaves having sections constructed and arranged to be supported in said seats and other sections to slide in said slots and engage their upper edges, the two sections functioning to hold said leaves in said seats in various elevated positions.

2,316,621
PROCESS OF TREATING EDIBLE OILS OR FATS
Herbert Otto Renner, Des Plaines, Ill., assignor, by mesne assignments, to J. R. Short Milling Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application December 13, 1938, Serial No. 245,502. In Great Britain December 14, 1937
12 Claims. (Cl. 99—118)

1. A process of treating edible fats, which process comprises subjecting an edible fat having an undesirable odor or flavor to the action of the freed cell contents of yeast, obtained by disruption of the cell walls, to thereby counteract the organoleptic effect of substances in the fat causing the undesirable odor or flavor.

2,316,622
FUSELAGE OF AIRCRAFTS
Paul Aimé Richard, Clichy, France; vested in the Alien Property Custodian
Application December 21, 1939, Serial No. 310,427
In Luxemburg December 13, 1938
5 Claims. (Cl. 244—119)



1. In an airplane fuselage, a girder construction comprising a pair of elongated girder members, one of said members including an intermediate portion and an end portion bent with respect to the intermediate portion, the other of said members also including an intermediate portion and an end portion bent with respect to the intermediate portion, and means securing the end portions of said members together in overlapping relationship whereby said intermediate portions extend substantially parallel to one another, said means comprising pin fastening means on the overlapped ends of each of said members and cooperating bracket means at the bend of each of said members between said end and intermediate portions for receiving said pin fastening means for rigidly securing the girder members together.

2,316,623
LOOP ANTENNA SYSTEM
Walter van B. Roberts, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application June 29, 1940, Serial No. 343,065
5 Claims. (Cl. 250—33)

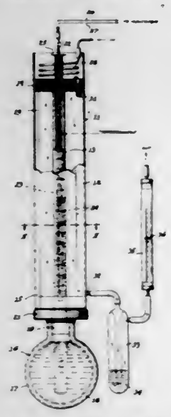
1. In an antenna system, a loop antenna, an ellipsoidal core for said loop antenna composed of comminuted magnetic material, said loop antenna comprising a plurality of windings which are

wound around the core only in the region of maximum radius of curvature thereof and so that



the axis of the loop substantially coincides with the major axis of the core.

2,316,624
APPARATUS FOR DETERMINATION OF MOISTURE IN GASES
Emilio Romanelli, Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 30, 1939, Serial No. 297,221
10 Claims. (Cl. 73—51)

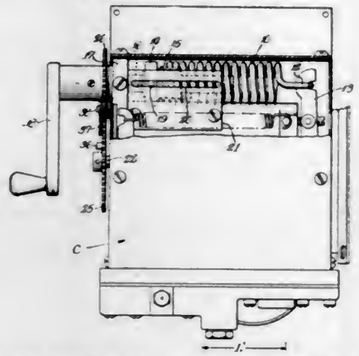


6. Apparatus for determining the amount of moisture in gas, comprising a transparent envelope through which gas may be conducted, a graduated heat-conductive tube disposed in said envelope, a thermocouple provided with a correspondingly graduated stem and movably mounted in said tube, and means for cooling one end of said tube to provide a temperature gradient therealong, the graduations on said thermocouple stem corresponding with those on said tube so that said stem may be moved to an indicated desired position, for measurement of the temperature at a selected point on said tube.

2,316,625
TERPENE HALO-ALKYL-ETHER-AMINE CONDENSATION PRODUCT
Lyle W. Rothenberger, Brunswick, Ga., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 21, 1940, Serial No. 353,529
20 Claims. (Cl. 260—570.5)

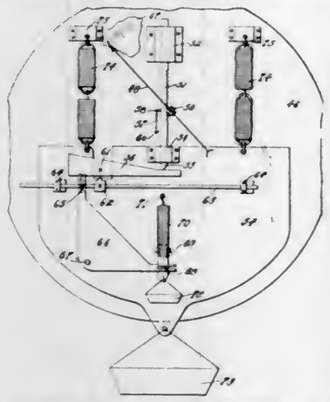
2. A condensation product of an amine with a terpene halo-alkyl ether, said ether being one in which a terpene carbon atom of the terpene radical is directly bonded to the ether oxygen atom and in which the halo-alkyl radical contains at least two carbon atoms and bears a halogen substituent on a carbon atom at least one carbon atom removed from the ether oxygen atom.

2,316,626
CONTROL DEVICE
John J. Rothwell, Elkhart, Ind., assignor to Penn Electric Switch Co., Goshen, Ind., a corporation of Iowa
Application November 4, 1940, Serial No. 364,275
5 Claims. (Cl. 74—10)



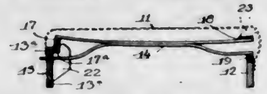
1. In a device of the class described, a crankshaft rotatable through a plurality of revolutions, a series of indicating dials operatively connected with said crankshaft, and stop means for said crankshaft controlled by that one of said indicating dials indicating the highest digit, said stop means comprising an abutment operatively connected with said crankshaft, a stop arm for said abutment, a rock shaft having said stop arm mounted thereon, and means for swinging said rock shaft to stop position of said stop arm relative to said abutment adjacent the zero position of said one of said indicating dials, said one of said indicating dials having a cam notch to receive said rock shaft to effect such movement of said rock shaft and thereby to move said stop arm to stop position relative to said abutment.

2,316,627
COMPUTING DEVICE
Henry J. Sang, Moylan, Pa.
Application July 12, 1939, Serial No. 283,948
2 Claims. (Cl. 265—29)



1. A mechanism for computing the relation between the aggregates of two motions acting perpendicular to each other, consisting of a fixed panel, a weighing plate flexibly suspended from said panel, a draft load pan connected to said plate and acting by gravity to move said plate relative to said panel in the first of said two perpendicular motions, indicating means responsive to movement of said plate, a lever pivoted to said panel and coacting with said indicating means, a fulcrum associated with said lever supported on said plate and movable in the second of said two perpendicular motions, and a unit load operated means for shifting said fulcrum whereby said indicating means is actuated as a function of the radio of the draft load to the unit load.

2,316,628
LAMINATED FLEXWOOD SPRING FOR CHAIR SEATS
Alvin J. Schaffner, Aurora, Ill., assignor to Kroehler Mfg. Co., Naperville, Ill., a corporation of Illinois
Application May 16, 1942, Serial No. 443,249
4 Claims. (Cl. 155—179)



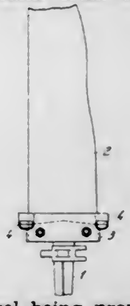
4. A laminated flexwood spring chair seat construction comprising an open chair seat frame having front and back rails, a spring unit comprised of upper and lower members each having a like number of laterally spaced flexwood spring leaves, the leaves of the upper spring member being bent downwardly intermediate their ends, and the leaves of the bottom spring member being bent upwardly intermediate their ends into engagement with associated spring leaves of the upper spring member, a depending rocker bar fixed to the rear end of the upper spring member, a second depending rocker bar fixed to the front end of the bottom spring member, a strip attached to and extending transversely of the ends of the leaves of the upper spring member, the leaves of said bottom spring member extending beyond the rocker bar of the upper member, said back rail being provided with laterally spaced slots through which the rear ends of the leaves of said bottom spring member project, the top edge of said front rail being grooved to seat the rocker bar of said bottom frame, and a cradle fixed to said back rail providing a seat for the rocker bar of said top spring member.

2,316,629
PRINTING INK
Hilger Peter Schmitz, Munich, Germany; vested in the Alien Property Custodian
No Drawing. Application May 13, 1940, Serial 334,892. In Germany June 30, 1939
1 Claim. (Cl. 260—32)

A printing ink consisting essentially of 1000 parts of a 50% aqueous emulsion of polyvinyl acetate, of which about 5% has been saponified to a saponification number between 110 and 140, a small amount of plasticizer, and 300 parts of a basic dyestuff.

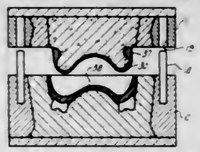
2,316,630
COLLECTING DEVICE
Fritz Schuster, Chemnitz, Germany; vested in the Alien Property Custodian
Application October 30, 1940, Serial No. 363,585
In Germany November 21, 1939
5 Claims. (Cl. 91—18)

1. In a hosiery treating device of the character described, a traveling support, a hosiery form extending upwardly from said support, and a vessel attached rigidly to the lower end of said form for collecting excess treatment liquid which drains from the article on said



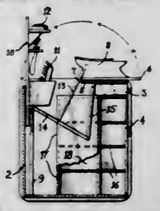
form, said vessel being provided with at least one discharge spout which directs the collected liquid away from said support.

2,316,631
METHOD OF AND APPARATUS FOR MAKING DENTURES
Jacob D. Schwartz, Pittsburgh, Pa.
Application March 28, 1941, Serial No. 385,616
5 Claims. (Cl. 18—33)



5. A flask for molding dentures comprising a plurality of cylindrical flask sections, each section having contiguous annular inner faces and having one end of the section chamfered outwardly to retain the investment material therein, said sections having key slots for receiving investment material to prevent angular displacement of said material in the flask.

2,316,632
CABINET CONSTRUCTION
Irving O. Smart, Portland, Maine
Application March 17, 1941, Serial No. 383,671
3 Claims. (Cl. 312—174)



1. A closed cabinet of the class described, comprising rectangular walls defining a chambered interior including a rear well-like portion having a vertical slideway, a carrier slide reciprocable in said slideway, a top carried by said walls and including a pair of sections divided transversely of said cabinet and on a line parallel to said reciprocable slide to form a fixed top portion and a movable work support portion hinged thereto and closing the top of said rear slide well when folded down and supportable by the top of said fixed portion when reversely folded, and a pair of pivotally interconnected link-arms, one of said link-arms being pivotally supported by the fixed

top member and the other of said arms being pivotally connected to said slide and a third link arm pivotally connected to said other link arm and to said work support portion, whereby said top and slide alternately occupy the top of the well of said cabinet interior when the cabinet top is open and closed.

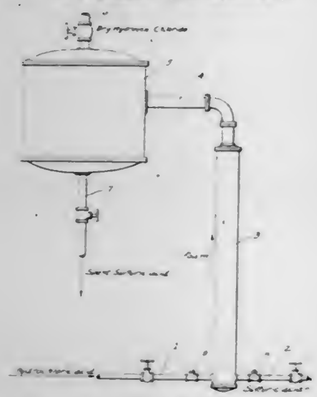
2,316,633

PRODUCTION OF HYDROGEN CHLORIDE

Claude H. Smith, Talmadge, Ohio, assignor to Wingfoot Corporation, Wilmington, Del., a corporation of Delaware

Application April 5, 1941, Serial No. 387,049

2 Claims. (Cl. 202—57)



1. A process for continuously producing dry hydrogen chloride which comprises introducing hydrochloric acid and concentrated sulfuric acid into a vessel, reacting them with abstraction of the water from the hydrochloric acid by the sulfuric acid and with the formation of a foam consisting of the reaction mixture, product and spent sulfuric acid, concurrently passing the mixture composing the foam through a packed chamber into a separatof, separating the dry hydrogen chloride from the diluted sulfuric acid and individually drawing off the dry hydrogen chloride and diluted sulfuric acid.

2,316,634

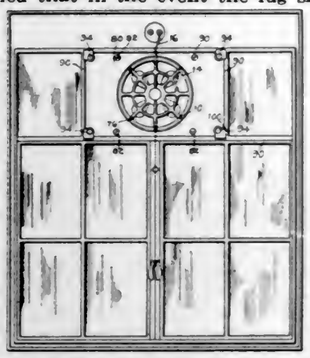
VENTILATING FAN

Walter A. Spear, Cincinnati, Ohio, assignor to Victor Electric Products, Inc., Cincinnati, Ohio, a corporation of Ohio

Application March 26, 1940, Serial No. 326,025

5 Claims. (Cl. 98—94)

1. A ventilating fan assembly for use in mounting in a window having transversely disposed muntin bars dividing the window into spaces some of which are glazed and one or more spaces left unglazed for a ventilating area, the combination including an electric fan, a housing for the electric fan, said housing having an air passage opening therein, a cover for closing the air passage opening when the fan is not in use, means for attaching the electric fan to the housing, a panel selected from a plurality of panels of various types, said panel being selected to fit into the ventilating area, and a plurality of safety means for locking the panel in position, each of said safety means including a pivotal fastening member mounted adjacent the corner of the panel, and a lug rotatably mounted upon said pivotal fastening member, said lug having a projection offset from the pivotal fastening member, said projection overlapping and engaging the adjacent muntin bars, said offset projection being so positioned that in the event the lug should be-



come loosened and hang downwardly it would engage an adjacent muntin bar.

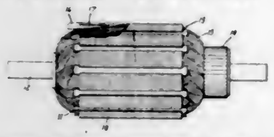
2,316,635

ROTATABLE ELECTRICAL DEVICE

Julius H. Staak, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York

Application May 12, 1942, Serial No. 442,583

8 Claims. (Cl. 171—206)



1. A dynamo-electric machine rotatable member having a laminated core with winding slots therein, a winding in said slots, and means including a balancing weight extending axially beyound the end of said core and having a roughened portion in engagement with a portion of said laminated core in one of said slots for balancing said rotatable member.

2,316,636

POLYCARBOXYLIC ACIDS

Wilber O. Teeters, Roselle, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 13, 1940, Serial No. 345,418

1 Claim. (Cl. 260—534)

The process for preparing the triacetic acid derivative of ethanol amine which consists in admixing a solution containing 39 parts by weight sodium chloracetate in 56 parts by weight water with 21 parts by weight monohydrated sodium carbonate, allowing the mixture to stand for four hours at room temperature, then heating the mixture for five hours at 85 to 95° C., cooling the reaction solution, filtering off liberated sodium bicarbonate, and acidifying the filtrate to liberate a free acid of the formula

$$(HOOCCH_2)_2NCH_2CH_2OCH_2COOH.$$

2,316,637

PHONOGRAPH RECORD SCANNING DEVICE

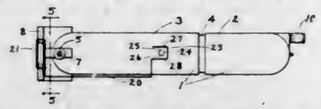
Lincoln Thompson, Cheshire, Conn., assignor to The Soundscriber Corporation, New Haven, Conn., a corporation of Connecticut

Application December 24, 1941, Serial No. 424,334

8 Claims. (Cl. 274—1)

1. In combination with a phonograph unit of

the type including a reproducing arm, means for supporting said arm including bearings having a vertical axis of rotation for the arm and a stylus actuated reproducing device on said arm remote from said vertical axis, said combination including an abutment on said arm remote from said vertical axis, a slender spring having one end thereof in fixed relation with said arm supporting means, the other end of said spring being



movable and positioned adjacent to but spaced from said abutment while the arm is swung within a predetermined neutral sector of the reproducing angle, said neutral sector including an arm position wherein the lateral component of stylus friction in a record groove is zero, the movable end of said spring engaging in contact with said abutment while the arm is within a sector of the reproducing angle outside of and on a predetermined side of said neutral sector.

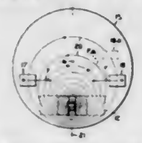
2,316,638

INDUCTION METER

Harold E. Trekell, Wakefield, Mass., assignor to General Electric Company, a corporation of New York

Application January 23, 1942, Serial No. 427,967

5 Claims. (Cl. 171—264)



1. An induction meter comprising a rotary disk of conducting material, an alternating current electromagnet producing alternating fluxes through the disk and a pair of permanent magnet systems for producing uni-directional fluxes through the disk, the pair of permanent magnet systems being located substantially symmetrically with respect to and on opposite sides of a line drawn through the center of the disk and center of the alternating current electromagnet position and on the disk center side of the electromagnet and said permanent magnet systems producing fluxes through the disk in such directions as to cause the forces produced on the disk by interaction between the alternating current eddy currents in the disk and the uni-directional fluxes therethrough to substantially cancel.

2,316,639

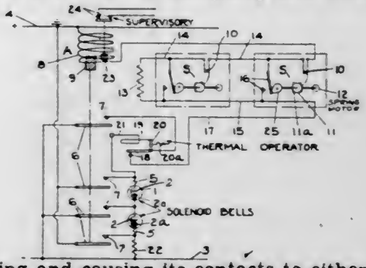
ALARM SIGNAL SYSTEM

John H. Wheelock, Fitzwilliam, N. H., and Hugo F. Cypser, New York, N. Y., assignors to Signal Engineering & Manufacturing Company, New York, N. Y., a corporation of Massachusetts

Application November 7, 1941, Serial No. 418,116

6 Claims. (Cl. 177—360)

1. In an electric signalling system, the combination with transmitting stations each including contacts normally closed in the non-operating condition of the system, and means for repeatedly opening and closing said contacts in accordance with a code sequence, upon the actuation of a station, signals, a device for intermittently transmitting current impulses, a controller having a winding normally in circuit with said station contacts, signals and impulse device, and energizing circuits for said signals and impulse transmitting device, including normally open contacts operable by said controller, of switch means at each station automatically responsive to operation of a station for energizing said controller



winding and causing its contacts to either close said signal circuits in accordance with the opening and closing of the coding contacts of the actuated station, without fully energizing said impulse device, or to maintain a circuit for said impulse device, after a station has run down.

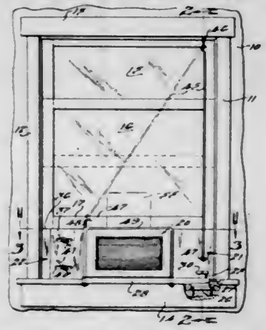
2,316,640

AIR CONDITIONING UNIT MOUNTING

Burdell S. Williams, Dayton, Ohio, assignor to Chrysler Corporation, Detroit, Mich., a corporation of Delaware

Application May 6, 1940, Serial No. 333,515

4 Claims. (Cl. 98—99)



1. The combination with the wall of an enclosure having a window opening therein, of a window ledge air conditioning unit resting, when in use, on the lower edge of said window opening, and means associated with said wall and said unit for pivotally fastening said unit to said wall adjacent one side of said window opening whereby said unit may be swung from its position of use upon the lower edge of said window opening to a position inside of the room for permitting free egress and ingress through said opening comprising a pivot post mounted on the ledge of said window, a bar fastened to said unit and pivotally associated with said pivot post, and a cam rotatably mounted on said pivot post for raising said bar in order to permit swinging of the unit.

2,316,641

AIR CONDITIONING METHOD AND APPARATUS

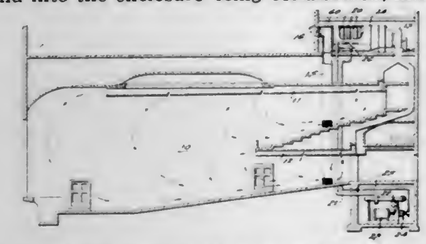
James E. Wilson, Detroit, Mich., assignor to Chrysler Corporation, Detroit, Mich., a corporation of Delaware

Application January 9, 1941, Serial No. 373,823

14 Claims. (Cl. 62—6)

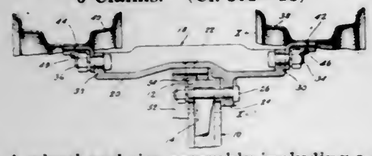
1. An air conditioning system comprising a

compressor-condenser-expander system of refrigeration, said compressor comprising means to vary the rate of compression of refrigerant in response to the total load on said expander, air circulating means for passing a stream of air in heat transferring relation with said expander and into the enclosure being conditioned, means



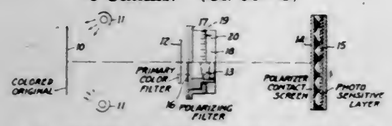
to supply recirculated air from said enclosure to form a variable part of said stream, means to supply fresh air from outside of said enclosure to form the variable remainder of said stream, and means to vary the proportion of fresh to recirculated air in response to changes in the rate of compression of said refrigerant by said compressor.

2,316,642
WHEEL ASSEMBLY
Alva W. Woodward, Kent, Ohio, assignor to Wingfoot Corporation, Wilmington, Del., a corporation of Delaware
Application October 28, 1941, Serial No. 416,840
6 Claims. (Cl. 301—13)



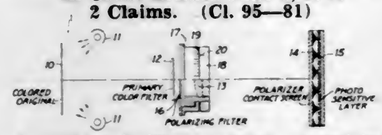
1. A wheel and rim assembly including a wheel felloe, a plurality of brackets, bolt means removably securing the brackets directly to the wheel felloe at circumferentially spaced points, an endless band positioned concentrically of and spaced directly radially of the wheel felloe and secured to the brackets, and a pair of rims removably mounted on and carried by the brackets in spaced relation thereon, said rims being positioned concentrically of and spaced from the endless band.

2,316,643
PHOTOMECHANICAL PROCESS
John A. C. Yule, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application November 18, 1941, Serial No. 419,595
In Great Britain June 6, 1941
5 Claims. (Cl. 95—5)



1. In processes for the photoreproduction of a continuous tone record, the method of controlling contrast which comprises placing in printing relation to the record a photosensitive layer in contact with the surface of which, which surface faces the record, is a contact halftone screen whose elements are graded substantially continuously in light polarizing power from the centers to the corners thereof, polarizing the light from the continuous tone record by a polarizing filter in the path of the light, varying the polarization of the light as incident on the screen until the apparent contrast of the screen is inversely proportional to the contrast of the continuous tone record, exposing the photosensitive layer through the screen with light from the continuous tone record, so polarized and so varied and developing the layer.

2,316,644
PHOTOMECHANICAL SCREEN
John A. C. Yule, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application November 18, 1941, Serial No. 419,596
In Great Britain June 6, 1941
2 Claims. (Cl. 95—81)

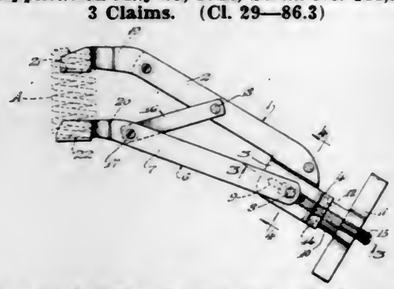


1. A contact halftone screen comprising elements which are graded substantially continuously in light polarizing power from the centers to the corners thereof, and a transparent support for the elements.

2,316,645
DEEP ETCHING LITHOGRAPHIC PLATE
Philip Zeiger, New York, N. Y.
No Drawing. Application February 25, 1942, Serial No. 432,239
1 Claim. (Cl. 41—41.5)

The method of deep etching a plate which consists in coating the same with light-sensitive dichromated gum, photographically exposing a design on said coating, developing and removing the unexposed coating portions, treating with etching solution the uncovered portions of the plate, removing the exposed coating portion by washing, covering sections of the plate with water soluble stop-out medium, applying a film of lacquer to the entire surface of the plate including said stop-out medium, coating said lacquer film with ink and washing off said stop-out medium together with lacquer and adhering ink from the unetched portions of the plate while leaving ink in the etched portions of the plate.

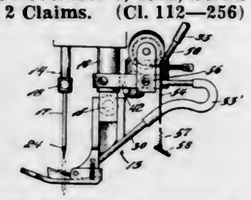
2,316,646
VALVE LIFTER AND SPRING COMPRESSOR
Herbert A. Berkman, Chicago, Ill., assignor to Zim Manufacturing Company, a corporation of Illinois
Application May 25, 1942, Serial No. 444,367
3 Claims. (Cl. 29—86.3)



1. A tool of the character described, compris-

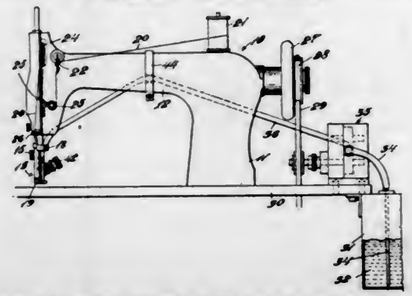
ing two arms having at corresponding ends a pin and slot connection for limited relative swinging and bodily lengthwise movements, jaws at the other ends of said arms, means interposed between said arms to cause the jaws to move from and toward each other as the arms move relatively to each other back and forth in the lengthwise direction, a nut rotatable in and held against lengthwise movement relative to the slotted arm at the end containing the slot, and a screw-threaded stem anchored at one end to said pin and extending at its other end into the nut.

2,316,647
NEEDLE COOLING DEVICE
Antonio John Giglio, Bronx, N. Y., assignor to Premier Thread Company, a corporation of Rhode Island
Application November 7, 1941, Serial No. 418,250
2 Claims. (Cl. 112—256)



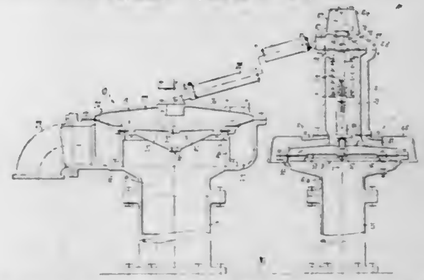
1. In a sewing machine having a treadle for controlling the starting and stopping of the same, a reciprocating needle, a presser foot the lower portion of which foot is provided with a chamber, an absorbent pad therein through which said needle passes, a conduit extending to said chamber for transmitting a coolent to said pad, a reservoir of liquid coolent spaced from said presser foot, a conduit extending from said reservoir to said chamber, a valve controlling said conduit, means for opening and closing said valve including means operatively connected to the said treadle for actuating the said valve upon the stopping and starting of the machine.

2,316,648
NEEDLE COOLING APPARATUS
Antonio John Giglio, Bronx, N. Y., assignor to Premier Thread Company, a corporation of Rhode Island
Application January 13, 1942, Serial No. 426,609
4 Claims. (Cl. 112—218)



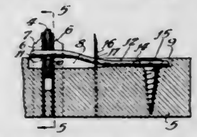
1. In a sewing machine, a reciprocating needle, a belt for actuating the same, a presser foot, a liquid coolant reservoir below the level of the needle, a conduit from said reservoir extending through said presser foot and opening at a location facing said needle and adjacent thereto and a pump driven by said belt for forcing the coolant through said conduit into contact with the needle whereby upon stopping of the movement of the needle the coolant supply stops.

2,316,649
RELIEF VALVE
Albert E. Jurs, Piedmont, Calif.
Application April 16, 1940, Serial No. 329,927
7 Claims. (Cl. 137—53)



2. In a gas relief valve, a body having inflow and outflow openings, a horizontally disposed annular valve seat within the body, a closure pallet disposed upon said seat and movable between open and closed positions with respect to the same, the lower side of the pallet being exposed to gas in said inflow opening, an annular flexible diaphragm connecting the periphery of the pallet to the body, and means forming a closed gas chamber over the pallet and the diaphragm, said chamber being adapted to be vented, said pallet comprising upper and lower downwardly dished walls affording a chamber between the same, each of said walls being provided with a restricted orifice in its lowermost portion.

2,316,650
STEEL RULE SLOT CUTTING MEANS
Jesse D. Klopfenstein, Chicago, Ill., assignor to Colorgraphic Incorporated, a corporation of Illinois
Application September 11, 1942, Serial No. 458,046
8 Claims. (Cl. 164—33)

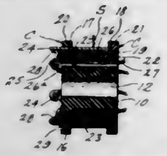


8. In a die for cutting out a part of predetermined shape from a piece of cardboard or other blank and forming therein a narrow slot, comprising a base, a rule device rising from the base and adapted to make in said blank a cut along the line of an edge of said part, slot-forming rules near the aforesaid rule, a stripper bar slidable up and down in the space bounded by the slot-forming rules, the first mentioned rule and the nearest one of the other ruler containing registering openings in the vicinity of the top of the base, and a spring wire secured to said base outside of the first rule and extending through said openings into engagement with said bar yieldingly to hold the latter raised.

2,316,651
COMMUTATOR STRUCTURE
George L. Moeller, St. Louis, Mo., assignor to Knapp-Monarch Company, St. Louis, Mo., a corporation of Missouri
Application March 23, 1942, Serial No. 435,758
10 Claims. (Cl. 171—321)

2. In a commutator structure, a core comprising a pair of core elements telescoped together and a plurality of semi-circular commutator segments, the core having semi-circular seats for

said commutator segments and separating ribs between them, said core elements having portions overhanging said commutator segments to



retain them against outward movement under the action of centrifugal force, and armature winding leads connected with said commutator segments.

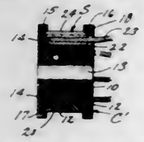
2,316,652

COMMUTATOR STRUCTURE AND METHOD OF FORMING THE SEGMENTS THEREOF

George L. Moeller, St. Louis, Mo., assignor to Knapp-Monarch Company, St. Louis, Mo., a corporation of Missouri

Application March 23, 1942, Serial No. 435,759

14 Claims. (Cl. 171—321)



1. In a commutator structure, a core comprising a pair of core elements of insulating material telescoped together, one of said elements having semi-circular seats for commutator segments with insulating ribs between them, a groove at the bottom of each of said seats, an armature winding lead extending into each of said grooves, both of said core elements having portions overhanging the ends of said seats, openings through said portions of one of said core elements forming extensions of said grooves through which said armature winding leads extend from one end of the commutator structure, and commutator segments formed of metal melted and sprayed into said seats and grooves and bonded in the grooves with said armature winding leads, said commutator segments being machined down to substantially a level with said ribs of insulation and being retained against outward movement by centrifugal force due to their ends projecting under said overhanging portions.

2,316,653

CONDENSATION PRODUCTS OF ACETYLENE WITH DIMETHYLOL UREA

Walter Reppé, Ernst Keyssner, and Otto Hecht, Ludwigshafen-on-the-Rhine, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Original application July 1, 1938, Serial No. 216,962. Divided and this application March 20, 1941, Serial No. 384,346. In Germany July 28, 1937

7 Claims. (Cl. 260—70)

1. A process for the production of condensation products of acetylene with dimethylol urea which comprises treating dimethylol urea with acetylene at temperatures between 20° C. and 120° C. and at pressures between atmospheric pressure and 40 atmospheres in the presence of a catalyst selected from the group consisting of acetylides and salts of heavy metals of the first and second group of the periodic system.

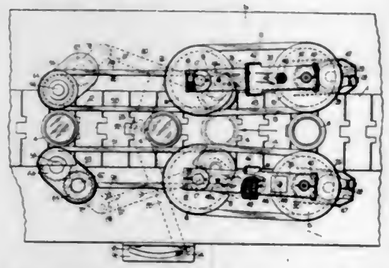
2,316,654

CONVEYER FOR CONTAINER SEALING APPARATUS

Harry E. Stover, Connellsville, Pa., assignor to Anchor Hocking Glass Corporation, Lancaster, Ohio, a corporation of Delaware

Application February 6, 1942, Serial No. 429,781

26 Claims. (Cl. 198—162)



1. In combination, a conveyer for supporting converging relationship so that the belts carried by said conveyer to prevent tipping thereof, said means comprising endless belts disposed at opposite sides of the conveyer for gripping containers therebetween, said belts consisting of a forward pair and a rearward pair disposed at different levels with their adjacent ends overlapping, each of said forward pair of belts being disposed on supporting and driving pulleys carried by a pivoted arm, said arms being disposed in rearwardly converging relationship so that the belts carried thereby are disposed in such converging relationship, each of said rearward pair of belts being disposed on supporting and driving pulleys which are adjustably mounted, means for adjusting said arms which support the forward belts and means for adjusting said pulleys which support the rear belts in accordance with the size of the containers, and means for driving both of said pairs of belts at the same linear speed as the conveyer.

2,316,655

COMBINATION KEY AND KNIFE

Walter Henry Voos, Mount Carmel, Conn., assignor to Swank, Inc., a corporation of Delaware

Application August 8, 1939, Serial No. 288,953

1 Claim. (Cl. 206—38)



A pocket article comprising spaced walls secured together in a manner providing a casing having an open end, one of said walls being slit with the slits extending to the edge thereof which defines said open end thereby providing a resilient wall portion with a free end, a detachable implement carried in said casing and slidable in and out of said casing through said opening, cooperating catch means carried by said wall portion and implement, comprising a rib on one part and a groove in the other to receive said rib, said catch parts being engageable with each other to detachably hold said casing and implement together.

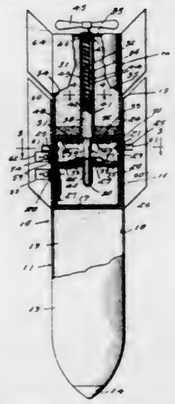
2,316,656

TANDEM AERIAL TORPEDO

Milton A. Walker, San Jose, Calif.

Application March 12, 1942, Serial No. 434,423

8 Claims. (Cl. 102—6)



8. An aerial projectile comprising a front section and a rear section detachably connected in tandem, said front section having a chamber containing a demolition charge, a resilient sack containing air under pressure disposed in the projectile, and means carried by the rear section for rupturing the sack to cause the sections to be driven apart and thereby separated from each other.

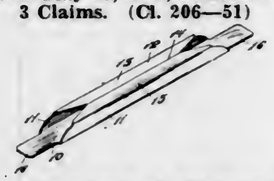
2,316,657

PACKAGE COVER

John T. Wright, West Warren, Mass., assignor to The William E. Wright & Sons Company, a corporation of New Jersey

Application May 13, 1940, Serial No. 334,687

3 Claims. (Cl. 206—51)



2. A cover for a hank of ribbon or like material comprising sheet stock of resilient transparent material, permanently set to provide right angularly disposed enclosing walls and provided with a longitudinally extending split for spreading of the walls for reception of a hank of ribbon or like material therein, said sheet stock being sufficiently stiff and resilient to provide for the self return of the walls to closed position upon the release thereof from spread position, said cover being of a length less than that of said hank providing for a substantial portion of said hank to extend beyond each end of the body portion of said cover, one of the walls having strips extending beyond the opposite ends of the walls to wrap about the end of the hank of ribbon, said strips being of a length to tuck into the diametrically opposite wall of the cover.

2,316,658

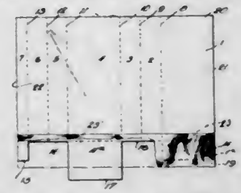
REINFORCED BAG

John F. Ames, Selma, Ala.; Evelyn H. Ames, executrix of said John F. Ames, deceased

Application June 14, 1939, Serial No. 279,209

13 Claims. (Cl. 229—57)

1. In a bag having front, rear and side portions, the combination with a strip of fabric, said strip having a part thereof attached to the lower part of each of said portions and each of said



portions having a lower edge, the lower edges of said side portions being alined and lying above the lower edges of said front and rear portions, all of said portions being composed of paper.

2,316,659

APPARATUS FOR LOADING SHEATH WIRE HEATING UNITS

John Lewis Andrews, Elmwood Park, Ill., assignor to Edison General Electric Appliance Company, Inc., Chicago, Ill., a corporation of New York

Application July 25, 1940, Serial No. 347,446

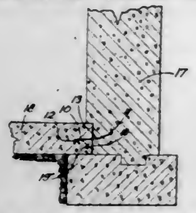
21 Claims. (Cl. 226—23)



1. Apparatus for loading granular insulating material into the sheath of a sheath wire heating unit that is provided with a sheath, and a coiled resistance conductor in said sheath which is embedded in and held in spaced relation with said sheath by said insulating material, comprising means for holding said sheath in an upright position, means for feeding said insulating material into the upper end of said sheath, a guide member slidably mounted in said sheath around said resistance conductor constructed and arranged to hold it from substantial lateral movement in said sheath, reciprocating driving means for said guide member for reciprocating it in said sheath as the sheath is being filled with said insulating material, said driving means being constructed and arranged to cease driving said guide member temporarily when the motion of said guide member is stopped by its engagement with said insulating material, and for automatically redriving it on its stroke to move said guide member away from said material so that said guide member forcibly and periodically engages said insulating material as it fills said sheath and progressively moves in said sheath toward said upper end as the amount of insulating material in said sheath increases, said guide member being pro-

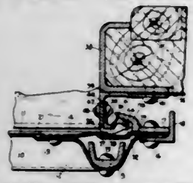
vided at its lower end with a portion adjacent said conductor inclined upwardly and inwardly toward said conductor so that when it forcibly engages said insulating material it elevates the insulating material sufficiently to prevent the turns of said conductor from moving toward the lower end of said sheath due to their own weight and the weight of the insulating material fed in.

2,316,660
FLASHING STRIP
Alonzo W. Bailey, Cleveland, Ohio
Application June 19, 1941, Serial No. 398,782
5 Claims. (Cl. 72—126)



1. In a building structure embodying a foundation wall and basement floor defining a seam at the juncture of the floor with the wall, flashing therefor to preclude the passage of moisture therethrough comprising a continuous strip of metal embedded in the wall and floor and arranged to span the seam and a fold in said strip in which at least one of the legs of the metal forming the fold is disposed in its entirety within the seam to facilitate independent movement of the wall in relation to the floor.

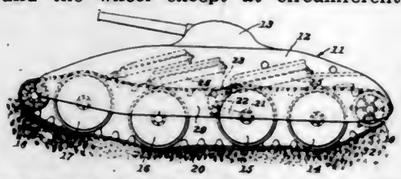
2,316,661
SLIDING CAR DOOR
Wilfred A. Beauchamp, Chicago, Ill., assignor to The Youngstown Steel Door Company, Cleveland, Ohio, a corporation of Ohio
Application August 27, 1940, Serial No. 354,376
8 Claims. (Cl. 20—26)



7. A horizontally sliding metallic door for railway house cars comprising a metallic panel and a vertically extending sealing strip secured to the inside of said door adjacent to the rear edge thereof, a vertically extending flexible metallic weatherstrip separate from said panel disposed upon the inside of said door, said weatherstrip having a rearwardly directed flange extending under said sealing strip and a flange extending inwardly and rearwardly beyond the inner plane of said door and means engaging said weatherstrip forwardly of said inwardly and rearwardly extending flange for securing said weatherstrip to said door.

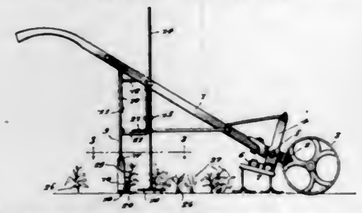
2,316,662
TANK
William J. Bigley, Jr., Weehawken, N. J.
Application December 31, 1941, Serial No. 425,216
16 Claims. (Cl. 305—9)

1. A wheel for the articulated track of a track laying tank or tractor, comprising a rim portion having its periphery inclined inwardly toward the wheel axis and laterally toward the side edge of the rim portion substantially continuously around the wheel except at circumferentially



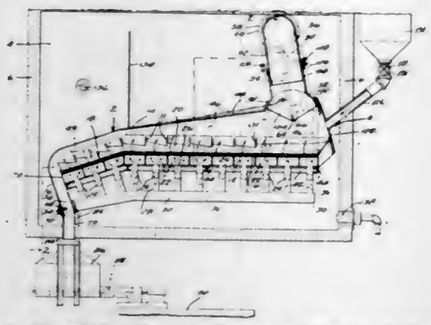
spaced points, and a plurality of circumferentially spaced wings at said points projecting outwardly from said inclined surface and having their outer edges lying substantially on an axial projection of the radially outer edge of the inclined surface.

2,316,663
VEGETABLE THINNER AND BLOCKER
Effie A. Boelter, Sunnyside, Wash.
Application June 16, 1942, Serial No. 447,265
8 Claims. (Cl. 97—59)



1. In an apparatus of the class described, the combination with handles, wheels and means mounting said wheels upon the lower ends of said handles, of a thinning unit secured directly to said handles, guiding means mounted on said thinning unit, and blocking means mounted on said thining unit and having a portion movably mounted within said guiding means.

2,316,664
PROCESS OF AND APPARATUS FOR FACILITATING AND CONTROLLING CHEMICAL REACTIONS AND PHYSICAL TREATMENTS
Herman A. Brassert, Greenwich, and James C. Hartley, Norwalk, Conn., assignors, by direct and mesne assignments, to Minerals and Metals Corporation, New York, N. Y., a corporation of Delaware
Application October 9, 1940, Serial No. 360,418
12 Claims. (Cl. 75—91)



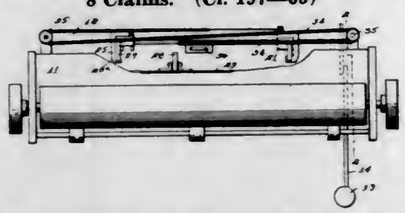
1. Apparatus for facilitating and controlling

the reduction of finely divided ores or other oxides of metals by fluid reagents, said apparatus comprising, in combination, a hearth, lateral walls and an end dam for laterally confining to a predetermined and substantial depth upon said hearth a substantially continuously replenished charge of finely divided ore which is to be caused both to react with a fluid reagent and to travel continuously along said hearth and past said dam, at least one of the surfaces which engage said charge and direct the movement thereof being provided with jet orifices, means for continuously supplying a fluid reagent under a substantially constant pressure and means, comprising a plurality of manifolds each supplying a separate group of orifices, for positively distributing said fluid reagent among successive groups of said jet orifices, said distributing means being so controllable and said fluid agent supplying means providing sufficient fluid pressure so that there is insured a continuous discharge of fluid reagent from each group of jets at the desired constant pressure for said group and with sufficient force to permeate throughout and to render fluent the charge of finely divided ore on said hearth and thus, while reacting therewith, to insure, as an incident to the continuous replenishment of the ore, the movement of the entire charge over the hearth.

2,316,665
PRODUCTION OF IRON AND STEEL
Herman A. Brassert, Rye, N. Y., and Selwyne Perez Kinney, Crafton, Pa., assignors to Minerals and Metals Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application January 6, 1941, Serial No. 373,304
8 Claims. (Cl. 75—32)

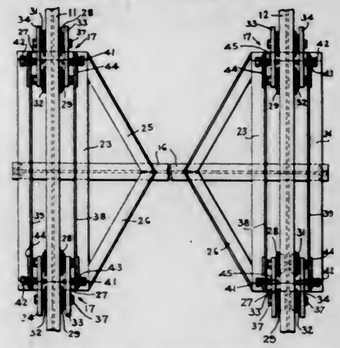
1. The process of making iron or steel, which consists in directly reducing, at temperatures below the fusion temperature of any of its constituents, a finely divided iron ore having a substantial proportion of gangue constituents still intimately associated with the iron oxide, compressing the powdered product of the reducing operation, while still hot from said operation, into a self-sustaining mass, raising the temperature of said mass to the fusion temperature of the gangue constituents and then subjecting said mass to slag-expressing squeezing operations until the slag content thereof has been reduced to the desired degree, the compressing of the powdered product of the reducing operation being carried out while the powdered iron is also still in a reducing or non-oxidizing atmosphere and while it is therefore still substantially free of any surface contamination and, therefore, marked by a chemical activity at the surface greater than the ordinary.

2,316,666
TYPEWRITING MACHINE
Robert L. Bredimus, Des Moines, Iowa
Application November 8, 1941, Serial No. 418,362
8 Claims. (Cl. 197—63)



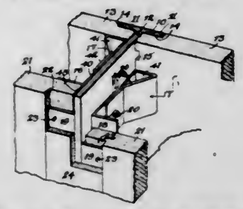
1. In a typewriting machine, the combination of a rack bar, a margin stop device movable on the rack bar, a pawl carried by the margin stop device for locking it to the rack bar, a device carried by the margin stop device for releasing the pawl from locking engagement with the rack bar, yielding means for forcing the pawl into locking engagement with the rack bar, a trip device for actuating said pawl releasing device, means supporting said rack bar and said trip device for longitudinal movement of one relative to the other, whereby during such movement the trip device and the pawl releasing device will engage each other and move said pawl to its released position, and a margin key lever device for moving one of said engageable devices into position to engage the other.

2,316,667
CRANE
Jack Breslav, New Haven, Conn.
Application May 19, 1942, Serial No. 443,594
12 Claims. (Cl. 104—98)



1. In a crane, the combination with two laterally spaced overhead tracks in the form of I beams having upper and lower flanges, of a beam, and trolleys supporting said beam closely adjacent to and under the lower flanges of said tracks, each of said trolleys including oppositely disposed pairs of wheels adapted to roll on the upper face of the lower flange of each track, a plate to which the wheels of each pair are journaled, side members secured to said beam and disposed one on either side of each track, and a trunnion extending from each member through each plate and upon which the respective plate is mounted for pivotal and lateral sliding movement in respect to the track.

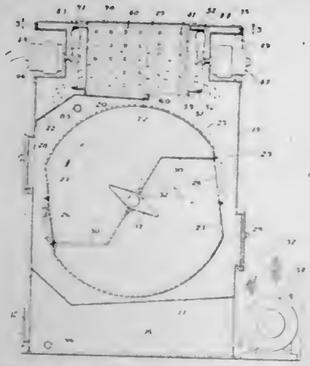
2,316,668
WALL UNIT ASSEMBLY
James E. Bronner, Staten Island, N. Y.
Application July 1, 1940, Serial No. 343,365
6 Claims. (Cl. 72—46)



1. A building wall assembly having in combination outside wall panels, inside wall panels spaced from said outside panels, an upright having a

web and flanges on opposite sides respectively of said web, said web being disposed between adjacent ends of the outside panels and between adjacent ends of the inside panels, said flanges engaging said outside panels respectively, devices arranged on opposite sides of said web between the outside and inside panels, each of said devices having means engaged with said outside and inside panels on its edge of the web to cooperate with said upright to hold said panels in place when the devices are secured to said web, and means securing said devices to said web.

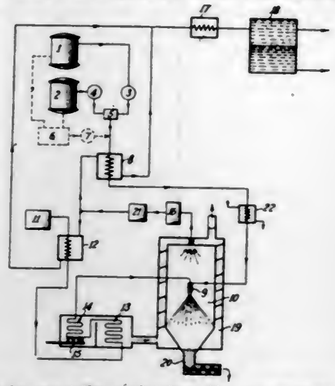
2,316,669
DRY CLEANING SYSTEM AND METHOD OF DRY CLEANING
Mario Busi, New York, N. Y., assignor to The Silver Globe Corporation, New York, N. Y., a corporation of New York
Application September 29, 1939, Serial No. 297,070
1 Claim. (Cl. 68—18)



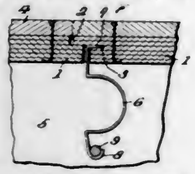
In a dry cleaning machine, an external casing, a rotatable washer mounted for rotation within said casing and adapted to retain therein clothes to be dry cleaned, means for supplying a solvent in contact with said clothes held in said rotatable washer so that said clothes may be cleansed, a plurality of fans for forcing air through said rotatable washer and the garments positioned therein, said fans being mounted at the upper portion of said casing and adapted, respectively, to remove air by suction from the area adjacent said rotatable washer and to deliver air by positive pressure into said area adjacent said rotatable washer, and means for operating one or more of said fans, at will, so that the amount of air circulated can be controlled, thus serving to secure removal of residual solvent from garments positioned in said rotatable washer without removing to an excessive extent the natural moisture present in said garments.

2,316,670
FLASH DISTILLATION OF ORGANIC SULPHONATE SOLUTIONS
Robert Bangs Colgate, Huntington, and Robert Louis Brandt, New York, N. Y., and Harold Dwaine Allen, Glen Rock, N. J., assignors to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware
Application March 28, 1940, Serial No. 326,394
6 Claims. (Cl. 260—504)

1. The process of purifying organic sulphonates which comprises preheating a solution of an organic sulphonate salt containing nonsulphonated organic material to partially vaporize said solution, directly contacting the partially vaporized solution with steam at a higher temperature than that of the solution, and then substantially immediately rapidly reducing the pressure on the solution whereby solvent and non-sulphonated organic material in the solution are volatilized.

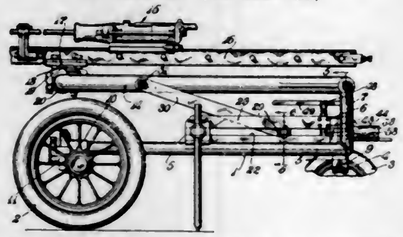


2,316,671
PREFORMED FLOOR UNIT
Kenneth E. Crooks, Williamsport, Pa.
Application June 25, 1941, Serial No. 399,701
6 Claims. (Cl. 20—8)



1. A floor formed of a plurality of pre-formed floor units disposed on joists and secured thereto by fastening members, each unit being formed of a laminated base having a shiplap joint edge forming an interlocking connection with the adjacent unit at its edges; the upper surface of each unit being formed of square edge strips having their upper edges cut away and secured to the base by nails or the like.

2,316,672
ROCK DRILL
John C. Curtis and Elmer G. Gartin, Claremont, N. H., assignors to Sullivan Machinery Company, a corporation of Massachusetts
Application June 19, 1941, Serial No. 398,805
15 Claims. (Cl. 255—51)



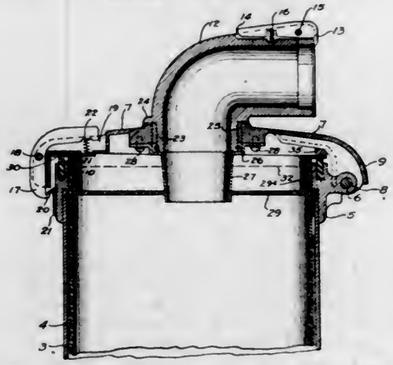
1. A rock drill rig comprising, in combination, a wheel-supported carriage, a boom pivotally mounted on said carriage to swing in a vertical direction relative thereto, said boom adapted to support a drilling tool, and fluid actuated means for swinging said boom about its pivot comprising a fluid actuated jack mounted on said carriage, a member guided on said carriage to move longitudinally relative thereto and operatively connected to said boom, said jack being operatively connected to said guided member for actuating the latter, and a pump mounted on said carriage for supplying fluid under pressure to said jack.

2,316,673
PROCESSING SULPHUR
Dan McDonald, Santa Monica, Calif.
No Drawing. Application September 4, 1940, Serial No. 355,309
9 Claims. (Cl. 23—299)

1. In processing sulphur with which water is present: contacting the sulphur and the water with a solvent for the sulphur at temperature substantially not lower than the melting point of sulphur, while maintaining superatmospheric pressure at which the solvent-water content does not boil.

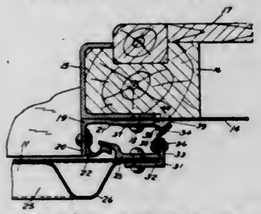
7. In processing sulphur: contacting sulphur and a conditioner of the group consisting of magnesium oxide, magnesium carbonate and magnesium sulphate, with a chlorinated hydrocarbon of the group having a boiling point at atmospheric pressure between approximately 75° C. and 125° C., said contact being at temperature not lower than the melting point of sulphur, while maintaining superatmospheric pressure, whereby a solution of sulphur and the conditioner in the chlorinated hydrocarbon is formed and absorbing heat from the sulphur and the conditioner which are in solution, for simultaneously depositing the sulphur and the conditioner.

2,316,674
VACUUM CLEANER
Dewey M. Dow, Frederick H. Burmeister, and Carl A. Lindberg, Toledo, Ohio, assignors to Air-Way Electric Appliance Corporation, Toledo, Ohio, a corporation of Delaware
Application May 29, 1940, Serial No. 337,836
7 Claims. (Cl. 183—37)



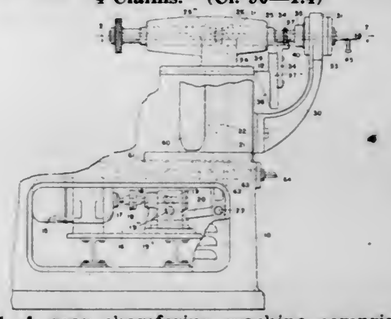
1. In a vacuum cleaner, a casing having an opening and an annular seat at said opening, an air filtering and dust collecting receptacle receivable in said casing through said opening, said receptacle including a flange adapted to engage said seat and including an attached end member having an inlet, and an openable closure for said casing, said cover having an annular portion adapted, when the closure is in closed position, to releasably clamp said flange against said seat in sealing contact therewith and having a nozzle adapted to simultaneously releasably engage said inlet and to make sealing connection therewith, for delivering a dust laden air stream into said receptacle.

2,316,675
SLIDING CAR DOOR
Arthur J. Doyle, Cleveland, Ohio, assignor to The Youngstown Steel Door Company, Cleveland, Ohio, a corporation of Ohio
Application October 11, 1940, Serial No. 360,793
3 Claims. (Cl. 20—26)



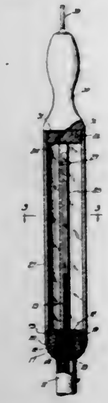
3. In a railway house car having a wall, a member secured to said wall provided with a vertical flange extending at an angle to said wall, a longitudinally sliding door mounted upon said car, said door having a vertical flange extending toward said wall and terminating short of said first mentioned flange, and a flexible sealing strip secured to and along said latter flange, said sealing strip extending beyond said later flange and being engaged flatwise by said first mentioned flange and freely flexed in the final longitudinal closing movement of said door for the purpose set forth.

2,316,676
BURRING MACHINE
Robert S. Drummond, Detroit, Mich., assignor to National Broach & Machine Company, Detroit, Mich., a corporation of Michigan
Original application January 10, 1938, Serial No. 184,283. Divided and this application August 14, 1939, Serial No. 290,003
4 Claims. (Cl. 90—1.4)



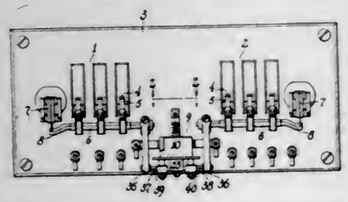
1. A gear chamfering machine comprising a gear supporting spindle, a pair of cutter supporting spindles mounted at opposite sides of the axis of said first spindle, means for locking a gear on said first spindle, means for reciprocating said first spindle, and means effective on reciprocation of said spindle for indexing said spindle by the amount of the tooth spacing on said gear, said indexing means comprising a pair of spaced, fixed rack sections, and a gear carried by said first spindle and reciprocable between said rack sections, said rack sections and said last mentioned gear having cooperating inclined teeth portions for effecting indexing rotation of said first spindle.

2,316,677
THERMOMETER
Le Roy V. Edwards, Rockville Centre, Robert E. Tarring, Malverne, and Albert A. Weiss, Jr., Brooklyn, N. Y.
Application September 30, 1941, Serial No. 412,938
12 Claims. (Cl. 73—374)



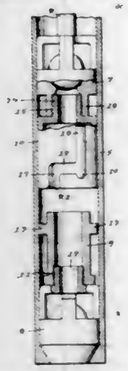
4. In a thermometer, a transparent plastic cylindrical casing internally screw threaded at its top and bottom ends, a plastic bottom end closure threaded to the bottom end of said casing and flush with the outer peripheral edge of the casing, said bottom end closure having a central opening therein, a hollow metal stem having its upper end fitting into said opening, means fixedly securing the upper end of the stem to said bottom end closure, a mercury tube having its lower portion disposed within said stem and its upper portion rising upwardly through the central opening and into said casing axially thereof, a scale plate having its front face graduated, said scale plate being fixedly mounted within said casing with its front graduated side facing said tube, and a plastic handle member having its inner end threadedly connected with the top threaded end of the casing and being flush with the outer periphery thereof at the joint therebetween.

2,316,678
CIRCUIT CONTROLLER
Clarence T. Evans, Wauwatosa, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application December 30, 1940, Serial No. 372,295
4 Claims. (Cl. 200—5)



1. In a control device, in combination, an insulating base, two normally open electromagnetic switches mounted in spaced relation upon said base, and auxiliary control switch mounted upon said insulating base and located between said main switches, said auxiliary switch including a rotatable circuit controlling member, and a mechanism operatively connecting said circuit controlling member to said main switches to provide for movement of said member in opposite directions between given extreme positions upon alternate closure of said main switches, said circuit controlling member providing for establishment of circuit prior to closure of one of said main switches and for interruption of circuit prior to closure of the other of said main switches, and said mechanism permitting opening of either of said main switches without operation of said circuit controlling member and also insuring opening of either of said main switches prior to closure of the other.

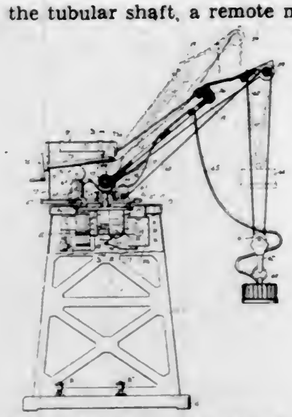
2,316,679
COUPLING DEVICE FOR WELL APPARATUS
Paul M. Evans, Valentine, Tex.
Application December 22, 1941, Serial No. 424,046
1 Claim. (Cl. 103—180)



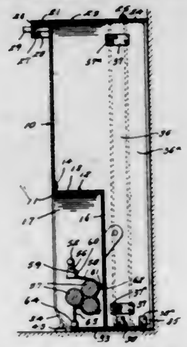
The combination with a well casing having an upper working valve and a lower standing valve, an upwardly extending externally threaded cylindrical stub carried by the standing valve, a reduced cylindrical member internally threaded and screwed on the stub, outwardly extending oppositely disposed lugs carried by the reduced cylindrical member, a downwardly extending internally threaded stub carried by the working valve, a cylindrical member having a reduced upper externally threaded extension screwed into the stub carried by the working valve, and the opposite sides of the cylindrical member having bayonet slots, each slot having a downwardly curved recess for the reception of the oppositely disposed lugs carried by the reduced cylindrical member of the standing valve.

2,316,680
TOY CRANE
Henry J. Ferri, Port Richmond, Staten Island, N. Y., assignor to The Lionel Corporation, New York, N. Y., a corporation of New York
Application April 11, 1941, Serial No. 388,082
10 Claims. (Cl. 212—41)

1. A remote controlled crane having a body provided with a top plate, a motor secured to the under side of the plate, a vertical tubular shaft extending through the plate, a crane cab secured to the top plate for rotation about the tubular shaft and having a concentric gear and a crane arm, a second shaft having a pinion in mesh with the gear, an electric motor for operating the second shaft, an electromagnet suspended from the end of the crane arm and having a current supply connection which extends down through the tubular shaft, a remote motor controlling switch, and a remote magnet controlling switch.



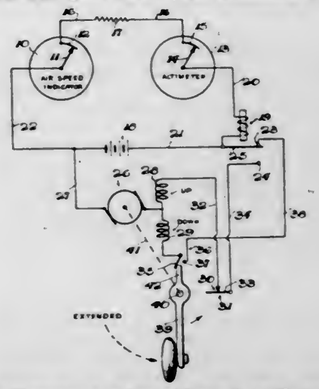
2,316,681
COLLAPSIBLE BED
Peter H. Ferrier, Brookfield, Ill.
Application July 31, 1941, Serial No. 404,938
2 Claims. (Cl. 5—2)



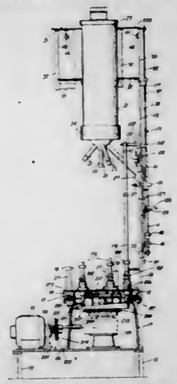
1. A collapsible bed comprising a sheet metal frame including a pair of end walls, a bottom wall and a pair of side walls, inturned upper edge portions carried by said end walls, an angle-shaped bed spring support in said frame spaced apart from said bottom wall, a hinged cover plate carried by one of said walls and extending longitudinally thereof and constituting a means for facilitating entrance into the bed frame beneath said spring support, a pair of reinforcing bars fixed to said end walls on the inner sides thereof, a trunnion fixed to each bar and extending outwardly of a side wall, a pair of upstanding members each including a concave trunnion saddle on which a trunnion rockably engages, an eye fixed to each bar and extending outwardly to an end wall and a spring fixed to said eye and to one end of said trunnion saddle of said supporting member for normally holding the frame in a vertical inoperative position.

2,316,682
LANDING GEAR CONTROL SYSTEM
Martin J. Finnegan, Glen Rock, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application May 31, 1941, Serial No. 396,149
3 Claims. (Cl. 244—102)

1. A mechanism for controlling the operation of landing gear comprising a source of electrical energy, a motor energizable therefrom, a switch for closing the energizing circuit for said motor, and a circuit in parallel to the first mentioned circuit including in series, an altimeter, an air speed indicator, a solenoid and said source of electrical energy, and contact means on said altimeter and said air speed indicator, each extending over a predetermined range of indications for actuating said solenoid to close said switch, thus energizing said motor.



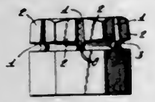
2,316,683
APPARATUS FOR LOADING SHEATHED WIRE HEATING UNITS
Frank E. Finlayson, Ontario, and Edwin C. Chapman, Upland, Calif., assignors to General Electric Company, a corporation of New York
Application September 23, 1940, Serial No. 358,018
10 Claims. (Cl. 226—23)



1. A multiple loading apparatus for a sheathed heater of the type having an outer sheath and a helical resistance conductor in said sheath embedded in a granular insulating material comprising a rotatably mounted platform, a plurality of separate loading mechanisms mounted on said platform, each of said loading mechanisms having a centering member adapted to move in said sheath around said conductor and means for moving said centering member with a reciprocatory motion, means for rotating said platform so that said separate loading mechanisms are progressively passed before a given point, driving means, and means for connecting said driving means to said means for rotating said platform and said means for moving said centering mem-

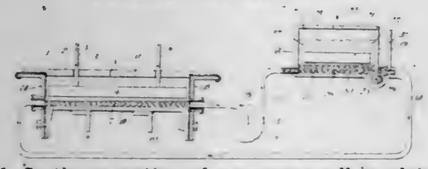
ber with said reciprocatory movement so that said platform is rotated at a relatively slow speed and said centering members are reciprocated at a relatively high speed during loading operations.

2,316,684
SELF-LOCKING NUT
Harald F. Gade, Philadelphia, Pa., assignor to Pennsylvania Manufacturing Company, Jenkintown, Pa., a corporation of Delaware
Original application May 16, 1941, Serial No. 393,824. Divided and this application February 9, 1942, Serial No. 430,141
2 Claims. (Cl. 151—21)



1. A nut having at one end a plurality of longitudinal slots forming at that end of the nut a plurality of segmental sections resiliently displaceable in radial direction, the said segments being displaced inwardly so as to constrict the normal bore of the nut, and the inner faces of said segments having a transverse curvature of greater radius than the radius of said normal bore so that the longitudinal side edges of said segments are further removed from the axis of the bolt than are the mid sections of said segments.

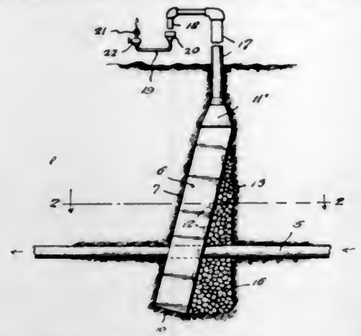
2,316,685
OPERATION OF MERCURY CELLS
William C. Gardiner, Niagara Falls, N. Y., assignor to The Mathieson Alkali Works, Inc., New York, N. Y., a corporation of Virginia
Application October 9, 1939, Serial No. 298,561
2 Claims. (Cl. 204—125)



1. In the operation of a mercury cell involving circulation of mercury in a circuit from a layer thereof underlying an anode in a brine compartment to and from a decomposition chamber into which alkali metal carried as amalgam by the mercury from the brine compartment is released, the improvement which comprises during the circulation maintaining in the circuit wholly above the layer and outside the compartment a column of mercury exceeding in volume the space in the compartment between the level of the layer therein during circulation and the level of the bottom of the anode therein, and upon interruption of the circulation automatically flowing the mercury of said column by gravity into the brine compartment until the level of the layer therein rises into contact with the anode.

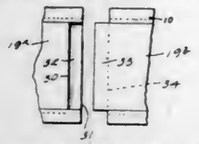
2,316,686
GAS COLLECTOR AND VENT
Archie L. Green, Sioux Falls, S. Dak.
Application April 1, 1941, Serial No. 386,381
2 Claims. (Cl. 48—193)

2. In combination with a horizontal gas supply pipe laid in the ground outside a building, a gas collector and vent including a vertically elongated substantially rectangular hollow barrier through which the gas supply pipe extends, said barrier being inclined upwardly and outwardly from the building and having an imperforate back wall and a perforated front wall, means providing a gas tight joint between the horizontal gas supply pipe and the inclined back wall of said



barrier, and a vent pipe leading vertically from the top of said inclined barrier to a point above the ground outside the building, said front wall having numerous louvered openings with the louvers extending upwardly and inwardly within the barrier, and a screen covering said louvered openings to prevent passage of foreign matter into the barrier.

2,316,687
MOLDED CUSHION
Perley D. Hammond, Danbury, Conn.
Application January 7, 1941, Serial No. 373,505
5 Claims. (Cl. 155—166)

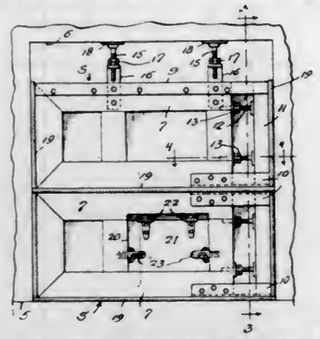


2. A cushion comprising a pair of thin resilient sheet-like members disposed in edge abutting relation, an upwardly offset pocket forming part formed with each member with the pocket of one member communicating with the pocket of the other member, a cushion body in one pocket and projecting beyond one end thereof and engageable in the pocket of the adjacent member, a second cushion body in the pocket of said adjacent member abutting against the extended end of said first body, and a resilient strap adhesively secured to and overlapping the abutting edges of said members.

2,316,688
GRAIN DOOR
Allen P. Haase, Lackawanna, N. Y.
Application April 29, 1941, Serial No. 390,974
1 Claim. (Cl. 20—30)

In a grain door, substantially rectangular-shaped door frames positioned in superimposed relation within a vertically arranged door jamb with the upper edge of the upper frame spaced from the upper horizontal wall of the jamb and each frame having one end spaced from one of the vertical walls of the jamb, panels closing the frames and projecting beyond said ends of the frames, L-shaped strips secured to the frames and panels and coacting with the latter beyond

said ends of the frames to provide upper and lower horizontally arranged guides for each frame, presser bars slidable in said guides, jack screws arranged between said ends of the frames and bars for forcing the frames and bars against opposite vertical walls of the jamb, jack screws

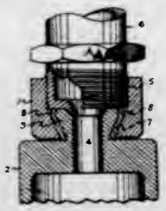


between the upper frame and the jamb to force the frames together and the lower frame against the lower horizontal wall of the jamb, overlapping strips secured to the panels and engaging the jamb, and packing arranged between the frames and between the latter and the jamb and between the presser bars and the jamb.

2,316,689
SOAPMAKING
Robert Franklin Heald and Albert Lyle Schulerud, Nutley, N. J., assignors to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware
No Drawing. Application June 5, 1941, Serial No. 396,718
11 Claims. (Cl. 252—109)

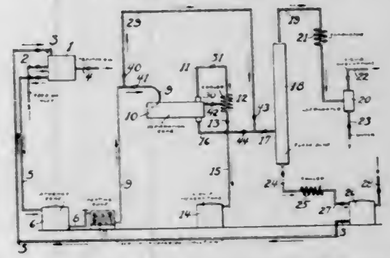
1. The process of making bars and cakes of soap which comprises mixing soap with borax in such proportion that borax is present in an amount at least about 25% of total borax and anhydrous soap in the mixture, milling the mixture, and forming bars and cakes therefrom.

2,316,690
SWIVELLY MOUNTED COUPLING NUT
Patrick J. Healy, Detroit, Mich.
Application January 11, 1943, Serial No. 471,923
5 Claims. (Cl. 285—97.7)



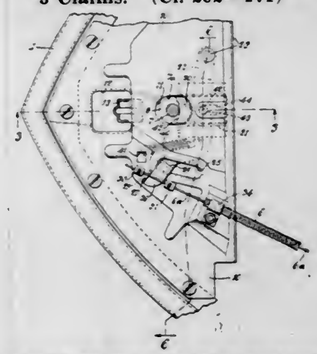
1. In a swivelly mounted nut, the combination with a body having a projecting nipple reduced in external diameter at its inner end, of a nut having a portion surrounding and spaced from said nipple, said portion having an interior face converged toward the axis of the nipple as extended into said body, said nut being freely rotative on the nipple, and a member inserted between said interior face and the nipple and bent toward the nipple axis by said interior face, whereby said member substantially conforms to the reduced portion of the nipple and retains the nut swivelly on the nipple, said member being proportioned to lie, substantially in its entirety between the nipple and said interior face, when inserted.

2,316,691
REGENERATION OF SPENT ALKALI METAL HYDROXIDE SOLUTIONS FROM REFINING OF MINERAL OILS
Amiot P. Hewlett, Cranford, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application March 15, 1941, Serial No. 383,502
5 Claims. (Cl. 23—184)



1. Process for the regeneration of spent alkali metal hydroxide solution secured in the removal of mercaptan compounds from petroleum oils, which comprises heating the spent alkali metal hydroxide solution to a temperature in the range from about 300° F. to about 700° F., and maintaining a pressure on the heated solution substantially equivalent to the vapor pressure of the solution, whereby a liquid mercaptan phase and an alkali metal hydroxide solution phase form, then separating the mercaptan phase.

2,316,692
HOOD LATCH ASSEMBLY WITH SLIDING BOLT
Rowland Hill, Chicago, Ill., assignor to Chicago Forging & Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application March 31, 1941, Serial No. 386,105
3 Claims. (Cl. 292—171)



3. In a latch assembly, a latch supporting plate having an oval, keeper receiving, aperture within the body of and far removed from all the boundaries of the plate, a keeper adapted to penetrate the aperture and move toward and from the plate in a plane perpendicular to the support and parallel with the longitudinal axis of the aperture, a latch bolt on the side of the plate furthest removed from the direction from which the keeper

approaches, means for guiding the bolt along the plate toward and from the keeper aperture, a latch lever pivoted on, and bent outwardly away from the plate to overlie the guide means, a driving connection between the lever and the latch bolt extending through the guide means, an assembly aperture in the latch supporting plate adjacent the free end of the lever, the free end of the lever being upwardly bent to project through the assembly aperture, a flexible conduit terminating adjacent the assembly aperture and rigidly attached to the plate, the flexible shaft slidable in the conduit, a connection between it and the end of the lever located substantially in the plane of the assembly aperture.

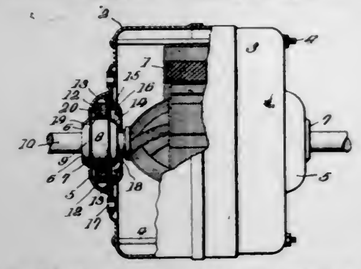
2,316,693

OIL REGULATING SLEEVE FOR BEARINGS

Joseph S. Hoddy, Owosso, Mich., assignor to A. G. Redmond Company, Owosso, Mich., a corporation of Michigan

Application October 5, 1938, Serial No. 233,466

4 Claims. (Cl. 308—132)



1. In a bearing construction for motors, a bearing adapted to rotatably support a shaft and having substantially beveled end portions, a rigid housing element having a perforation formed to receive the outboard end of the bearing, a lubricant absorbing washer encircling the intermediate bearing portion and engaging the inner wall of the housing element, a retaining element engaging the in-board end of the bearing, a second lubricant absorbing washer engaging the retaining element, said washers cooperating to position said retaining element out of contact with said housing, and clamping means for maintaining the retaining element in compressive engagement between said washers.

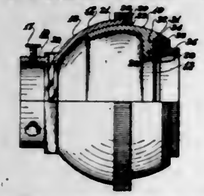
2,316,694

ATTACHMENT FOR CAMERAS

Elmer L. Jarboe, Cleveland, Ohio; Harvey G. Oliver, administrator of said Elmer L. Jarboe, deceased, assignor to Esther V. Jarboe

Application June 8, 1940, Serial No. 339,518

10 Claims. (Cl. 95—36)



1. A multiple exposure device for cameras having a lens barrel wherein a number of individual exposures can be made upon a single film or plate comprising, in combination, attachment means for attachment to and removal from the camera, light excluding means, and hollow supporting means for movably supporting the light excluding means to the attachment means at a substantial distance ahead of the lens barrel, said supporting means comprising a hollow body connected to the attachment means, and a hollow body connected to the light excluding means, said hollow bodies excluding light from the camera lens except that which passes through the light excluding means and having spherical and complementary engaging surfaces one within the other to give movement of the light excluding means with reference to the lens barrel of the camera to direct the exposure upon a localized portion of the film or plate, said hollow bodies having an internal diameter greater than the internal diameter of the lens barrel to provide conduit means which unobstructs the direct passage of light rays passing through the light excluding means to the lens barrel for any and all of the angular positions of the light excluding means.

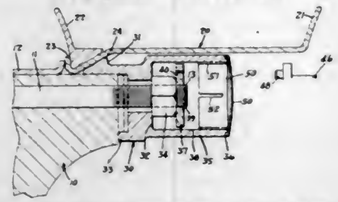
2,316,695

THEFT PREVENTION DEVICE

Harry Jaffa, Minneapolis, Minn.

Application January 29, 1942, Serial No. 428,743

13 Claims. (Cl. 85—32)



1. A device for obstructing theft of automotive tires comprising a lug having an aperture for receiving a holding bolt and a surface for receiving a lug nut to hold the lug in operative condition, said lug being provided with a deep cylindrical housing mounted on the lug in a position so as to form a wall around a lug nut when the latter is on a lug bolt and tightened against the lug, a disk for closing the cylindrical housing, said disk being held in the housing by a threaded connection, the axis of rotation of the disk on the threaded connection being substantially parallel with the axis of said cylindrical housing said disk being provided with a key surface for rotation with a key having a correspondingly keyed instrument for removal from the cylindrical housing.

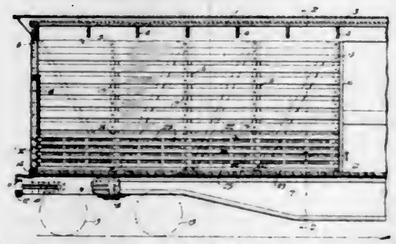
2,316,696

FREIGHT CAR

Charles S. Johnston, Chicago, Ill.

Application June 25, 1941, Serial No. 399,695

4 Claims. (Cl. 105—409)



1. A composite wall for stock cars comprising a plurality of spaced uprights, a plurality of horizontally extending slat members each formed of wood and connected to the inner faces of a plurality of said uprights, the lowermost slat member being spaced from the lower end of said wall, a metal plate member interposed between the lower end of said wall and the said slat member, said metal plate member being provided with a plurality of horizontally extending convolutions, the inner vertical faces of all of said convolutions lying substantially in the vertical plane of the inner faces of said slat members, and means for connecting said convoluted plate member to the adjacent faces of said uprights.

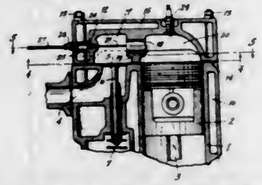
2,316,697

INTERNAL COMBUSTION ENGINE

Everett A. Latta, Clayton, Mo.

Application June 11, 1942, Serial No. 446,572

3 Claims. (Cl. 123—32)



1. In an internal combustion engine having a body provided with a cylinder, an air intake port, an exhaust port, and valves for opening and closing said ports alternately and intermittently; a cylinder head detachably secured to said body and having non-communicating passages opening respectively into said intake and exhaust ports and receiving said valves when said valves are opened and also having a combustion chamber opening into said cylinder and communicating with said said passage to said exhaust port, a Venturi tube opening from said passage to said intake port into said combustion chamber and having a restriction intermediate of its ends, an atomizer nozzle extending coaxially into the influent end of said Venturi tube and terminating at the influent side of said restriction of said tube, and a tube for conducting liquid fuel under pressure to said nozzle.

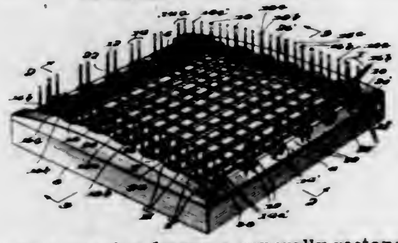
2,316,698

WEAVING FRAME

Thomas P. Littlepage, Jr., Washington, D. C.

Application November 14, 1941, Serial No. 419,201

16 Claims. (Cl. 139—34)



1. In a weaving frame, a generally rectangular support forming two opposed pairs of sides, a plurality of upstanding elements on each of said sides, said elements being spaced from one another whereby yarn may be looped around said elements, the spaces on each of one of said opposed pairs of sides extending below the spaces on each of the other of said opposed pairs of sides.

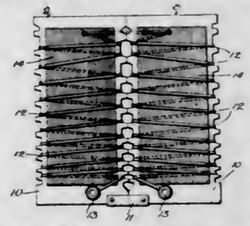
2,316,699

TOASTER-COATED UNIT

Joseph W. Myers, Philadelphia, Pa., assignor to Proctor & Schwartz, Inc., Philadelphia, Pa., a corporation of Pennsylvania

Application May 24, 1940, Serial No. 337,053

3 Claims. (Cl. 219—19)



3. In a bread toaster, a bread well adapted to receive a bread slice to be toasted, an electrical heating unit disposed at one side of said well for toasting one surface of the bread slice, and an electrical heating unit disposed at the opposite side of said well for toasting the other surface of the bread slice, said last-named unit comprising an insulating supporting sheet, a coating of aluminum paint on the face of said sheet adjacent the inserted bread slice, and resistance wire supported on said sheet adjacent the coated face thereof, said coating serving to thermally isolate said well from the opposite side of said sheet without deleteriously affecting the insulating character of the surface of said sheet.

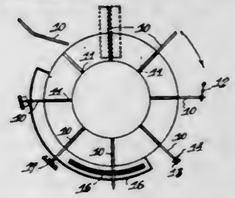
2,316,700

PROCESS FOR MAKING ANGULARLY BENT DRINKING TUBES

Sidney T. Maltby, Washington, D. C., assignor to Stone Straw Corporation, Washington, D. C., a corporation of New Jersey

Application April 11, 1940, Serial No. 329,163

4 Claims. (Cl. 18—56)



1. The process of forming angularly bent drinking tubes which comprises mounting a straight tube on a support to project beyond the same, softening the material of said tube in a restricted region within the projecting portion of said tube while supporting the same internally by fluid pressure to prevent collapse, and permitting the projecting portion of said tube to bend in its softened region while so internally supported.

2,316,701

FOLDING CARTON

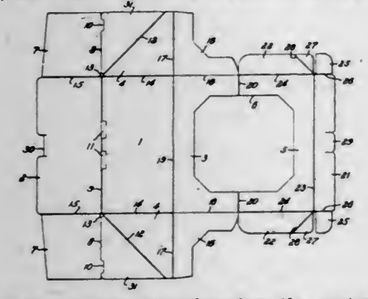
Ray W. Marshall, Rittman, Ohio, assignor to The Ohio Boxboard Company, Rittman, Ohio, a corporation of Ohio

Application July 9, 1940, Serial No. 344,567

4 Claims. (Cl. 229—33)
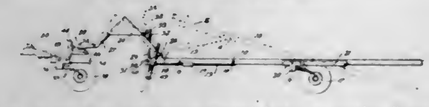
1. In a folding carton, a body including a side wall, an end wall and a bottom interconnected and relatively foldable upon predetermined lines of fold, one of said walls including a flap secured

to it and integral with the other wall, said flap having an edge normally in substantial alignment with the line of fold between its integral wall and the bottom, said one wall being provided with inner and outer triangular portions defined by a diagonal line of fold at 45° to the line of fold between said other wall and the bottom, and said flap being attached to said outer



triangular portion whereby when the carton is in set-up condition the walls will be perpendicular to the bottom, and a foot on said flap offstanding from said edge and hence extending beyond the line of fold between its integral wall and the bottom, said foot being frictionally engageable with the bottom to maintain said walls erect when the carton is set up.

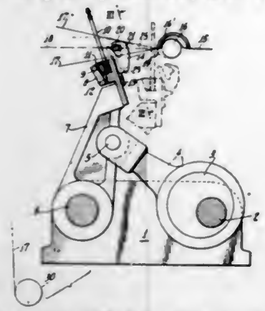
2,316,702
MOTOR TRAILER CHASSIS
Ernest C. McDaniel, Denver, Colo.
Application December 13, 1940, Serial No. 369,926
4 Claims. (Cl. 280—33.1)



1. A motor trailer comprising: a main frame; wheels tiltably supporting said main frame intermediate its extremities; a dolly frame preceding said main frame; a second pair of wheels tiltably supporting the dolly frome; a first tongue extending forwardly from said main frame; a second tongue extending forwardly from said dolly to engage a towing vehicle, said second tongue being longitudinally adjustable with reference to said dolly frame; and a universal connection on said latter tongue for securing said first tongue thereto so that the connection will follow the longitudinal adjustments of said second tongue.

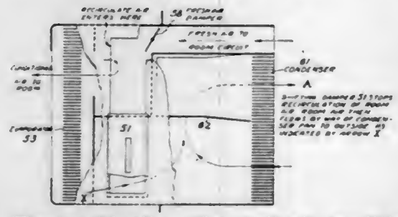
2,316,703
LOOM FOR WEAVING
Albert Moessinger, Winterthur, Switzerland, assignor to Sulzer Frères, Société Anonyme, Winterthur, Switzerland
Application March 14, 1941, Serial No. 383,327
In Switzerland March 21, 1940
4 Claims. (Cl. 139—188)

1. In a loom for weaving, a lay comprising support means disposed underneath the warp threads, reed means connected with and projecting upwardly from said support means, weft insertion means, guide means mounted on said support means forward of said reed with respect to its movement toward the finished fabric and projecting upwardly from said lay and between the lower warp threads, said guide means laterally substantially surrounding said insertion means and having marginal portions adapted to contact said weft insertion means and enclosing the center of gravity thereof, and weft thread



passage means provided on the portion of said guide means facing said reed and opening toward said reed.

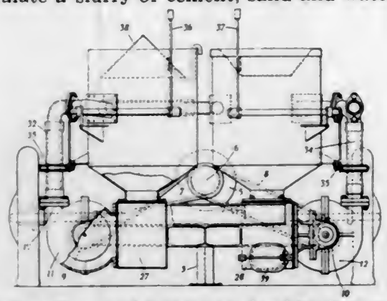
2,316,704
AIR CONDITIONER
Paul B. Moore, York, Pa., assignor to York Ice Machinery Corporation, York, Pa., a corporation of Delaware
Application August 2, 1940, Serial No. 349,828
8 Claims. (Cl. 62—129)



1. The combination of a unit air conditioner having means defining two air circuits, a room air circuit having a main inlet from the room whose air is to be conditioned, a secondary inlet of limited capacity leading from a space external to the room and a discharge into said room, and a condenser air circuit having an inlet and a discharge both connected with space external to said room; a room circuit fan for circulating air in the room air circuit; a damper operable to throttle variably the secondary inlet to the room air circuit; a condenser circuit fan for circulating air in the condenser air circuit; a pump-out connection from the room to the intake of the condenser circuit fan; and damper means controlling the pump-out connection and the main inlet to the room air circuit, so arranged that when either is closed the other is open.

2,316,705
PRODUCTION OF FLUENT CEMENT OR CEMENT GROUT
John Stanley Morgan, Rodridge Hall, near Wingate, John Charles Gammon, London, and Harry Stuart Morgan, Rochester, England
Application November 5, 1940, Serial No. 364,454
In Great Britain November 7, 1939
7 Claims. (Cl. 259—146)

1. An apparatus for making fluent cement grout comprising a hopper, a colloid mill, a connection so arranged as to circulate a cement-water slurry between said hopper and said mill, means to supply cement to said hopper, a second hopper, a connection between said colloid mill and said second hopper, means whereby when said second connection is opened, said first connection is closed and vice versa, means to supply sand to said second hopper, a paddle mixer, means to circulate a slurry of cement, sand and water be-

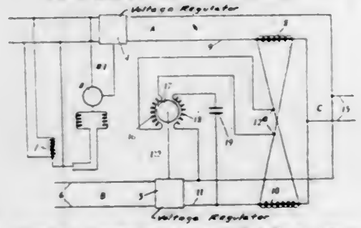


tween said second hopper and said mixer, means to draw off said slurry from said mixer, and means whereby when said circulation means is open, said drawing off means is closed, and vice versa.

2,316,706
PLASTIC COMPOSITIONS CONTAINING POLYISOBUTYLENE
Martin Mueller-Cunradi and Walter Daniel, Ludwigshafen-on-the-Rhine, Germany; assignors to Jasco, Incorporated, a corporation of Louisiana
No Drawing. Application November 4, 1939, Serial No. 302,930. In France November 21, 1938
4 Claims. (Cl. 260—41)

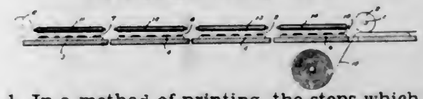
1. Plastic compositions consisting essentially of a solid polyisobutylene which is incapable of being rolled to smooth thin foils at temperatures below about 160° C. containing at least about 10 per cent of its weight of carbon black and at least about 10 per cent of its weight of graphite and at most 300 per cent of its weight of carbon black and graphite together, said plastic compositions being capable of being rolled to smooth thin foils at temperatures of about 80–100° C.

2,316,707
CONTROL OF AUTOMATIC VOLTAGE REGULATORS
Eric Douglas Tobias Norris, Hollinwood, England, assignor to Ferranti Electric Incorporated, New York, N. Y.
Application March 31, 1941, Serial No. 386,062
In Great Britain April 4, 1940
11 Claims. (Cl. 171—119)



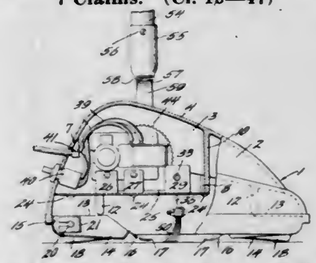
1. A voltage supply system having two voltage regulators operating in parallel lines of the system one being a master regular and the other a follower regulator, and the follower being energised inductively by differences of current between the two parallel lines, having also a capacitor-type split-phase motor to operate the follower regulator, one of the windings of the motor being connected to receive the differential induced current, and the other being connected with one of the parallel lines.

2,316,708
METHOD OF PRINTING
John J. Ormond, Boston, Mass., assignor of two-thirds to Joseph D. Ramsey, Boston, Mass.
Application July 3, 1940, Serial No. 343,823
11 Claims. (Cl. 101—211)



1. In a method of printing, the steps which include applying a plurality of colored inks on printing plate members, preparing on the surface of an offset blanket a film which is receptive to the said inks, then collecting the inks on the said film, and then simultaneously printing.

2,316,709
CARPET SWEEPER
Ira June Owen, Winnetka, Ill., assignor of one-third to Julius H. Kiel and one-third to Robert B. Kiel, both of Wilmette, Ill.
Application May 17, 1941, Serial No. 394,007
7 Claims. (Cl. 15—47)

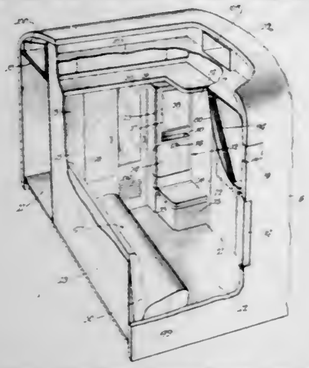


1. In a device of the character described, a unitary open bottom housing of molded composition having inner reinforcing and partitioning flanges with coplanar lower edges defining separate dust receiving and mechanism receiving compartments in the housing, spaced dust pans pivotally mounted at opposite ends of the housing, a unitary motor driven floor sweeping mechanism comprising a plate support, a motor base with spaced marginal supporting lugs mounted on the upper side of said plate support, an electric motor supported on said base, a driven shaft journaled in lugs of the base with extensions at opposite sides of the base, a floor treating unit, means supporting said floor treating unit on the shaft extensions in radially spaced relation to the shaft and below said plate support, driving connections between said motor and said driven shaft for driving the floor sweeping unit in a back and forth sweeping movement, and means for detachably mounting said mechanism within the housing with the plate support overlying the coplanar edges of the flanges to close the separate compartments.

2,316,710
RAILWAY SLEEPING CAR
Peter Parke, Chicago, Ill., assignor to The Pullman Company, Chicago, Ill., a corporation of Illinois
Application June 30, 1939, Serial No. 282,109
2 Claims. (Cl. 105—315)

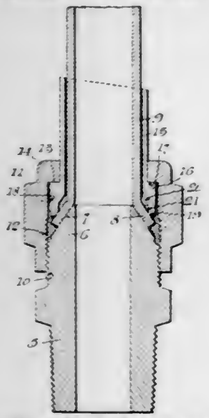
1. In a railway sleeping car, a side wall, an

aisle, an aisle wall, and spaced straight transverse partitions connecting said walls and defining therewith a plurality of rectangular compartments, each compartment having a ceiling, a window in the side wall of the compartment, a bunk mounted on said side wall above the window and foldable against the ceiling, a sofa-bed contiguous to one of the partitions of the compartment and extending from the side wall substantially to the aisle wall and having one end overlapped in vertically spaced relation by an end of the bunk in one corner of the compartment, a



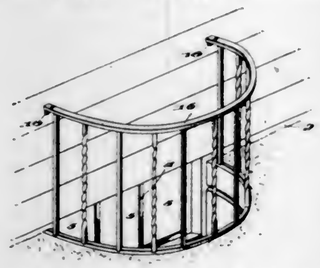
combination member comprising an enclosed toilet, a seat and a washstand in the diagonally opposite corner of the compartment, a shelf contiguous to the aisle wall in the compartment and extending from above the other end of the sofa-bed to above the combination member and spaced below the ceiling, a fresh air duct above the aisle of the car, an inlet connecting said duct with each compartment between said shelf and ceiling, a vitiated air duct above the ceiling along substantially the center of the compartment, and an outlet therefor through the ceiling.

2,316,711
TUBE COUPLING
Arthur L. Parker, Wilton Margrave, and John N. Wolfram, Cleveland, Ohio; said Margrave and said Wolfram assignors to said Parker
Application March 31, 1941, Serial No. 386,202
8 Claims. (Cl. 285—86)



1. In a coupling for tubes having the ends thereof flared, coupling members having threaded engagement with each other, one of said coupling members having a seat associated therewith adapted to engage the inner face of the flared end of the tube and the other coupling member having a clamping shoulder, and a clamping sleeve surrounding said tube and having a solid head provided with a shoulder against which the clamping shoulder of said other coupling member engages for forcing the sleeve head against the flared end of the tube, the face of the sleeve head opposing the flared end of the tube being equipped with longitudinally spaced flared end contacting portions disposed for successively engaging said flared end first at a point remote from the flare base and later at a point nearer said base, the spacing of said flared end contacting portions being such that upon application of excessive clamping pressure, the first-named flared end contacting portion will contact the seat to act as a stop for the clamping effect of the second flared end contacting portion before it pinches through the flared tube.

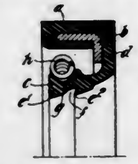
2,316,712
SOIL RETAINING WALL FOR BASEMENT WINDOWS
Richard E. Prince and John T. Edwards, Columbus, Ohio
Application May 17, 1940, Serial No. 335,860
1 Claim. (Cl. 189—1)



An areaway unit for use in conjunction with a building wall comprising an arcuate sheet metal body extending below the ground level adjacent to the building wall, a flange at each end and the upper edge of said body, fastening means extending through the end flanges and into the building wall to secure the body thereto, a grill having an arcuate rail conforming to the arcuate shape of the flanged upper edge of said body, said rail being directly engaged with said flange, fastening means securing said rail to the flange at the edge of said body, a second arcuate rail on said grill, loop-like anchor members adjustably connected with the ends of said second rail, and securing means extending through said loop-like members and into said building wall.

2,316,713
FLUID-SEALING AND DUST-EXCLUDING DEVICE FOR SHAFTS, BEARINGS, AND THE LIKE
Anthony Procter, Newcastle-upon-Tyne, England
Application January 8, 1942, Serial No. 425,990
In Great Britain February 3, 1941
3 Claims. (Cl. 288—3)

1. In an oil seal, a thin neck, an axially directed annular sealing flange on said neck formed with an annular divergent groove in the surface of said sealing flange remote from the bearing surface of said sealing flange, a pair of axially directed sealing lips on the bearing surface of said sealing flange and separated by an annular groove located substantially opposite said divergent groove and so located and of such width as to

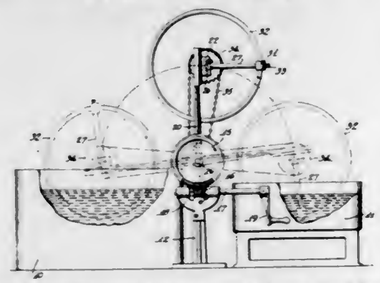


extend closer to said neck than said divergent groove, and a garter spring seated in said divergent groove.

2,316,714
LEATHER TREATING AGENT
Malcolm J. Reider, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application April 9, 1941, Serial No. 387,690
11 Claims. (Cl. 260—49)

1. A process of preparing leather tanning and bleaching agents which comprises reacting in acid media at temperatures not in excess of 100° C. for not more than 5 hours a phenol sulfonic acid having at least one reactive ortho or para position in the nucleus, formaldehyde and a secondary aliphatic amine and stopping the reaction before the product becomes water-insoluble.

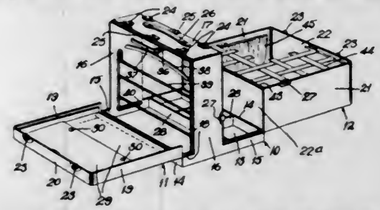
2,316,715
APPARATUS FOR MANUFACTURING TUBING
Paul A. Raiche, Providence, R. I., assignor to Davol Rubber Company, a corporation of Rhode Island
Application February 20, 1939, Serial No. 257,311
4 Claims. (Cl. 18—24)



1. In a machine for manufacturing rubber tubing by dipping, a dipping core comprising a helical form detachably mounted on a horizontal axial support, vertical arms carrying said support, said arms being rotatably mounted on standards, means for rotating said arms in said standards, and additional means for rotating said axial support in said arms whereby said core may be turned to alternately dip into a coating compound tank and a coagulant solution tank, and said form may be rotated during said dipping operation.

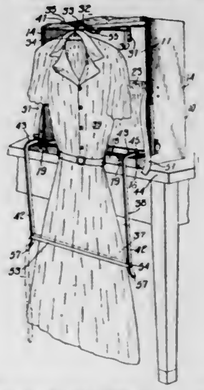
2,316,716
LUGGAGE
Herman J. Ries, New York, N. Y., assignor to Percy W. Valentine, Brooklyn, N. Y.
Application July 26, 1940, Serial No. 347,602
5 Claims. (Cl. 190—41)

1. An article of luggage comprising a basket part, said part comprising a base and an upwardly extending open frame, the frame comprising top end walls only thereby defining a space entirely accessible from either open side of the frame above said base, said end walls rising from the end edges of the base and spaced inwardly of the sides thereof, a box shaped container part movably coupled with one side of the base and closing one side opening of the frame, a member closing the other side opening of the frame, said container part and member having boundary walls conforming generally to



the contour of the top and end walls of said frame in the closed position of the luggage, said base at the side of said frame that is closed by said container part having side and end walls forming a four walled compartment opening upwardly, the coupling of said container part with the base being with one side wall of the compartment, and said container part having a wall that is adapted to overly and completely close said compartment in the closed position of the luggage.

2,316,717
LUGGAGE
Herman J. Ries, New York, N. Y., assignor to Percy W. Valentine, Brooklyn, N. Y.
Application May 12, 1941, Serial No. 393,038
7 Claims. (Cl. 190—41)



1. The combination with a suitcase of the character described, or means for hanging, folding and supporting garments within the case, said means comprising a hanger rod centrally of the top portion of the case, a U-shaped frame pivoted to the lower side portions of the case, the frame having at its free end portion a cross rod, said frame being adapted to swing outwardly through the front open side of the case with said rod spaced with respect to the case, said rod forming means folding part of a garment to be arranged in the case, said hanger rod being adapted to support garment hangers engaging the upper shoulder portions of garments for arrangement in the case, said hanger rod having a foldable outwardly extending arm portion, said

arm portion having an upwardly offset part when arranged in extended position to provide greater spacing between the hanger rod and the cross rod of said frame when the latter is in extended position.

2,316,718
TIRE CHAIN
William R. Royer, Wilkes-Barre, Pa.
Application September 8, 1939, Serial No. 293,907
8 Claims. (Cl. 152—213)

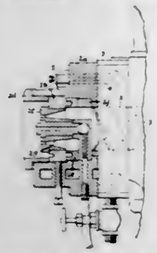


1. A tire chain device, comprising in combination, side chains and cross chains, a resilient coupling member connected to one end of each side chain and connected at a distance from the other ends so as to be under tension when the chain is in operative position on the tire, said coupling members being formed of round live rubber stock with connecting devices firmly secured in their ends and being of sufficient length and resiliency to stretch to pass over the tire with a permissible rolling action but to hold a placed position on the tire by friction.

2,316,719
PURIFICATION OF ORGANIC SUBSTANCES
Kenneth Lyman Russell, Nutley, N. J., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware
No Drawing. Application August 23, 1941, Serial No. 408,108
14 Claims. (Cl. 260—400)

1. The process of separating organic sulphate and sulphonate salts from inorganic salts which comprises mixing an aqueous solution of organic salts selected from the group consisting of organic sulphate and sulphonate salts and inorganic salts with an organic solvent wherein the organic salts are soluble to cause the formation of liquid layers including a layer containing a major portion of the organic solvent, isolating said layer, dehydrating said layer to precipitate inorganic salts dissolved therein, and removing said precipitated inorganic salts from contact with the organic solvent.

2,316,720
SECURING MEANS FOR ELEMENTS OF EXTRUSION MACHINES
Justin H. Ramsey, Allendale, N. J.
Application June 27, 1942, Serial No. 448,727
5 Claims. (Cl. 85—1)



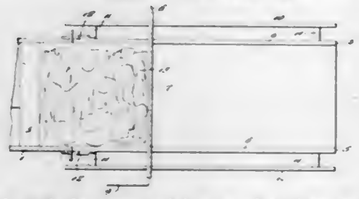
1. Structure comprising elements to be subjected to strain tending to separate them and one including means, anchored thereto and extending past and abutting a surface of the other element which faces away from the first-named element, for securing them together, said structure having said means as the weakest part thereof which is subjected to said strain and said structure also including, anchored to one of said elements against tension strain, means providing a stop opposed to a surface of the first-named means which faces away from the first-named element.

2,316,721
COMBINATION MILK FILTER
Myron E. Schwartz, Two Rivers, Wis.
Application May 29, 1941, Serial No. 395,727
3 Claims. (Cl. 210—203)



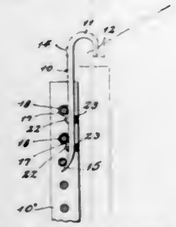
3. In combination with a milk strainer having a straining area comprising perforations through which the milk passes, a milk filtering medium disposed over said perforations and consisting of an upper layer of flannel, an intermediate layer of carded cotton united therewith, and a lower layer of gauze united with said carded cotton and adjacent the perforations of said strainer.

2,316,722
HAY BALER
Clarence H. Smith, Claysville, Pa.
Application December 15, 1941, Serial No. 423,091
1 Claim. (Cl. 100—20)



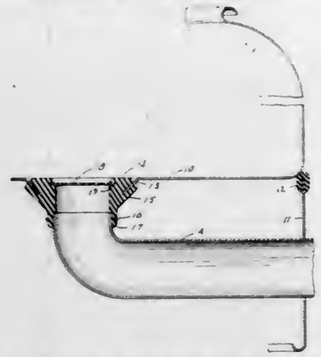
A hay baler comprising a chamber including an extension, said extension comprising opposed side walls having slots extending longitudinally thereinto from one end thereof, brackets mounted on the side walls, rails mounted on said brackets and paralleling the slots, tubular needles, for the reception of baling wires, engageable transversely in the slots and operable on the rails, said needles being open at their rear ends and terminating in closed, pointed forward ends, and resilient latches on the side walls for releasably securing the needles in the closed end portions of the slots.

2,316,723
WRECKING BAR WITH LADDER HOOK
Nels C. Sorenson, Findlay, Ohio
Application March 16, 1942, Serial No. 434,956
1 Claim. (Cl. 228—51)



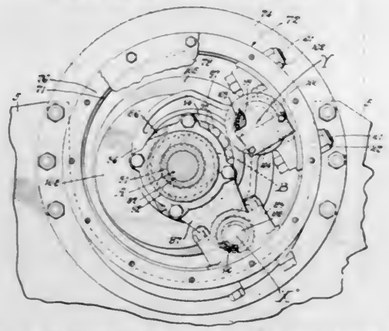
A new article of manufacture consisting of a wrecking bar having a hook end and a shank portion of substantial diameter terminating in a claw portion having a curvature reverse to that of the hooked end, the shank being of a length to extend beyond a plurality of rungs of a ladder and presenting the curved portion of the claw portion against the lowermost rung, said shank having a pair of slots extending longitudinally thereof and spaced inwardly of the claw portion, a clamp member cooperable with each slot, each clamp comprising a flat portion having an aperture aligned with a respective slot and a loop portion adapted to partly encircle a rung of a ladder, a bolt extended through the aligned aperture and slot, and a nut on the bolt for drawing the flat portion and the loop in the direction of the shank and maintaining the claw portion firmly against the said rung of the ladder.

2,316,724
OUTLET CONNECTOR WITH STRAINER FOR TANKS
Pierce Sperry, Middlefield, Ohio
Application March 9, 1942, Serial No. 433,862
4 Claims. (Cl. 285—38)



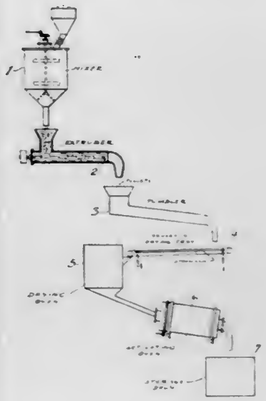
1. In a connector attachment for tank outlets, a soft flexible tubular member adapted to abut the tank outlet flange, a strainer member adapted to cover the tank outlet, and to co-act with the tubular member to lock the tubular member in sealing attachment to the outlet flange.

2,316,725
VIBRATING SCREEN
Loren G. Symons, Hollywood, Calif., assignor to Nordberg Manufacturing Company, Milwaukee, Wis., a corporation of Wisconsin
Application February 17, 1940, Serial No. 319,452
28 Claims. (Cl. 209—329)



28. In a screen and means for vibrating it, a base, a screen deck, and means for vibratably supporting it and for constraining it to vibration along a predetermined and generally rectilinear path, a single, and only a single, weight, and means for constraining said weight to vibrate bodily in a substantially rectilinear direction along a path passing adjacent the center of gravity of the screen deck and intersecting the face of the deck, including pivoted means for supporting the rotor on the deck, said pivoted means being constructed and arranged to constrain the rotor to vibration along a predetermined path, and means for causing said weight to vibrate in response to its rotation along a path in general parallelism with the path of vibration of the deck.

2,316,726
METHOD OF PREPARING CATALYST
William E. Spicer and Kurt G. Schrey, Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware
Application October 21, 1941, Serial No. 415,864
6 Claims. (Cl. 252—259.2)

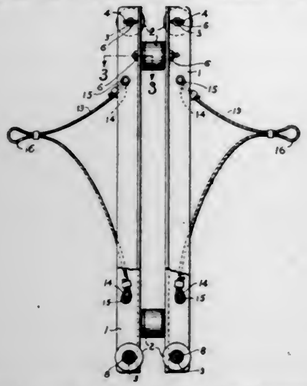


1. The method of preparing a catalyst to be used in a stationary form which comprises making a paste of the ingredients having a consistency suitable for passage through an extrusion means, forcing the paste through an extrusion means, cutting the extruded mass into pieces of short length, passing the pieces through a rotating means in which they are tumbled about for a time sufficient to smooth out rough edges, and then drying and activating the smoothed pieces.

2,316,727
WIRE LINE GUIDE
Lonnie L. Thompson, Iowa Park, Tex.
Application July 29, 1940, Serial No. 348,311
3 Claims. (Cl. 308—6)

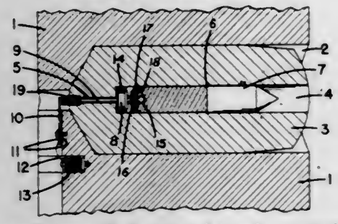
1. A wire line guide comprising a frame constructed of a plurality of elongated angle bars having sides thereof arranged in parallel spaced relation, shafts extending between said sides of the angle bars at longitudinally spaced portions of the guide, rollers journaled on said shafts and adapted to receive and guide a wire line therebetween, said angle bars having transverse slots therein receiving the ends of the shafts for bodily adjustment of the rollers transversely relative to the angle bars, each of said shafts having

spacing means connected therewith holding the angle bars in rigid spaced relation from each



other, and means for adjustably securing each end of each shaft to the adjacent angle bar.

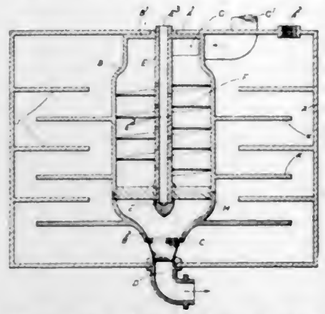
2,316,728
GUN PERFORATOR
Robert R. Thompson and Whitman D. Mounce, Houston, Tex., assignors to Standard Oil Development Company, a corporation of Delaware
Application October 17, 1940, Serial No. 361,514
5 Claims. (Cl. 164—0.5)



1. A well bore hole gun barrel comprising a metal body having an elongated recess therein having a sealed inner end, a projectile fitted into the open end of said recess, a powder charge compressed in situ in the inner end of said recess by said projectile said projectile being of a size to make a snug fit with said barrel and the compression pressure being of the order of that required to compress the powder in finely divided form to half its original volume, and a firing element in said powder charge.

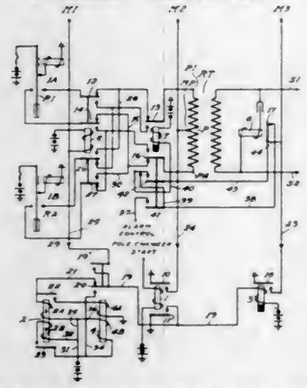
2,316,729
TANK FOR USE IN AIRCRAFT
Henry Christopher Tryon, London, England, assignor to D. Napier & Son Limited, London, England, a company of Great Britain
Application May 12, 1942, Serial No. 442,687
In Great Britain June 30, 1941
6 Claims. (Cl. 137—21)

1. In a tank for liquid for use on aircraft the combination of an outer chamber, an inlet through which liquid can enter the upper part of this chamber, an inner cylindrical chamber which is fixed and extends vertically within the outer chamber, an inlet through which liquid is delivered into the upper end of the inner chamber, a helical baffle in the inner chamber which tends to impart a swirling motion to the liquid and constrains it to follow a helical path downwards as it passes through the chamber, vanes in the lower part of the inner chamber which there tend to straighten the direction of liquid flow to an outlet at the lower end of that cham-



ber, a main outlet and a delivery pipe leading from the tank, and a passage between the lower end of the inner chamber and the said main outlet with which passage the lower part of the outer chamber communicates.

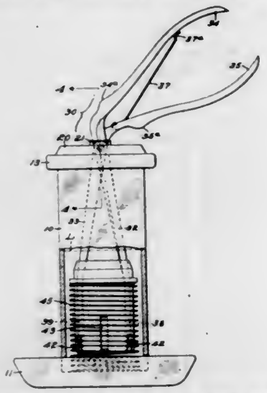
2,316,730
POLE CHANGER CONTROL CIRCUIT
Bert A. Wallace, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a corporation of Illinois
Application October 30, 1940, Serial No. 363,489
9 Claims. (Cl. 179—87)



1. In a ringing-current supply system, a pair of alternative pole changers for controlling the flow of ringing current, switching means for applying either pole changer to the system to the exclusion of the other, means periodically effective for operating said switching means to substitute the other pole changer for either currently applied one, means for testing each newly applied pole changer to determine its condition, and means controlled by said test means responsive to an abnormal condition of the newly applied pole changer for operating said switching means to reverse the substitution.

2,316,731
MEANS FOR ASEPTIC TRANSFER OF STERILE ARTICLES
Carl W. Walter, Newton, Mass.
Application February 12, 1941, Serial No. 378,607
12 Claims. (Cl. 21—90)

1. A combined sterile transfer forceps and holder therefor comprising a germicide container having an open top, a forceps having jaw and handle portions, a removable cover for the container, means to suspend the forceps on the cover with its jaw portion at the inner side and at least its outer handle portion at the outer side, and a cup-like apertured shielding member in the container adapted to receive the lower jaw portion of the forceps, said members yieldably supported for vertical movement with the forceps on insertion and removal of the latter.



4. A sterile transfer instrument and container assembly comprising, in combination, an upright container having an open mouth at its top, a transfer instrument of the forceps type including jaw and handle portions and a pivotal lock, said container and instrument being mutually adapted for reception at least of the instrument jaw portion within the container, and a fenestrated bucket in the container and adapted to receive the instrument jaw portion, said bucket being vertically movable between an upper position wherein its rim projects above the container mouth and a downward position of submergence in the fluid content of the container, stop means limiting said upward movement, and resilient means urging the bucket upwardly.

2,316,732
JOINT FOR DOLL BODIES
Louis A. Weinstein, Brooklyn, N. Y., assignor to Ideal Novelty & Toy Co., Long Island City, N. Y., a corporation of New York
Application June 7, 1941, Serial No. 397,044
2 Claims. (Cl. 46—173)



1. In combination, a limb member, a stiffening member located at the inner end of said limb member, a torso, said torso having an opening which is alined with said stiffening member, a rigid coupling member connected to said stiffening member, said rigid coupling member being fixed against movement relative to said stiffening member in a direction parallel to the axis of said coupling member, said coupling member extending through said opening into said torso, the inner end of said limb member abutting the respective portion of the outer wall of said torso, a cup-shaped coupling washer which has an opening through which said coupling member projects, said coupling washer having resilient tongues at said opening, said tongues engaging said coupling member, a friction member mounted slidably on said coupling member, said cup-shaped washer having a flange in which said friction member is located, a resilient member mounted on said friction member and biasing said friction member towards the inner wall of said skin, said friction member being located inwardly of said inner wall of said skin.

2,316,733
ALIMENTARY PREPARATIONS
Charles Weizmann, London, England
No Drawing. Application January 21, 1941, Serial No. 375,357. In Great Britain November 20, 1939
5 Claims. (Cl. 99—21)

1. A process suitable for the production of alimentary preparations from animal blood and from serum obtained from blood through separation of the red corpuscles from the whole blood, which comprises mixing animal blood to an amount containing about 3.5 parts of nitrogen with about 260 parts of water, heating the mixture at a temperature between 75° C. and 100° C. for from two to four hours, predigesting the heat treated mixture by the addition of about 0.07 part of papain, and maintaining the mixture at a temperature of about 65° C. for a period of six hours; cooling the magma thus produced to about 37° C., adding yeast autolysate obtained by autolysis of about 90 parts of yeast, and further proteolytically degrading the mixture by maintaining it for a period of about 48 hours at a temperature of about 37° C.

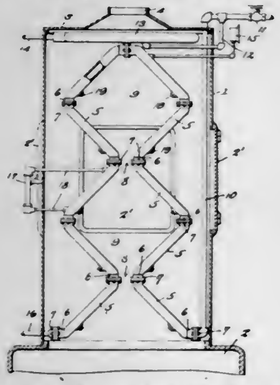
2,316,734
CAN CRUSHER AND BALER
Mansel S. Wells, Shinglehouse, Pa.
Application July 2, 1941, Serial No. 400,831
12 Claims. (Cl. 100—19)



1. A baler comprising a housing formed with an inlet and an outlet, a closure for the inlet movable into and out of closed position, a closure for the outlet movable into and out of closed position, a piston shiftable longitudinally in the housing from retracted position to compressing position, fluid operated means for moving the piston in a power stroke, a valve for controlling the operation of said means, an actuating lever for the valve, a bell crank pivotally carried by said housing, rods connecting the bell crank with the lever and the inlet closure, a latch or bolt,

guides for said latch carried by the housing and mounting the latch for movement into and out of operative position for engagement by the bell crank to prevent movement of the bell crank in a direction for closing the inlet closure and permitting adjustment of the valve to allow movement of the piston in a power stroke, a second bell crank carried by said housing, and rods connecting the second bell crank with the outlet closure and the latch or bolt for causing movement of the latch into and out of operative position when the outlet closure is opened and closed.

2,316,735
BOILER
Lee Barton Williams, Wilkinsburg, Pa.
Application January 25, 1943, Serial No. 473,529
5 Claims. (Cl. 122—39)



1. In a boiler the combination with a casing, of opposed series of flat water-conducting members, the members of each series being coupled together and arranged in zig-zag relation, the upper members of the two series being coupled together, means for supplying water to the lower member of one series, an outlet extending from the lower member of the other series, and all of the members cooperating to provide a passage for products of combustion comprising restrictions or throats and expansion chambers alternately arranged.

2,316,736
PROCESS FOR PRODUCTION OF CARBON TETRACHLORIDE
Joy E. Beanblossom and Walton B. Scott, Niagara Falls, N. Y., assignors to Hooker Electrochemical Company, Niagara Falls, N. Y., a corporation of New York
No Drawing. Application November 20, 1940, Serial No. 366,426
3 Claims. (Cl. 260—664)

1. The process for production of carbon tetrachloride which comprises successively (*a*) reacting one mol of carbon disulphide with substantially two mols of sulphur dichloride until an equilibrium mixture is obtained, said mixture containing substantially all the carbon tetrachloride and elemental sulphur produced by the reaction, together with the reagents remaining unreacted; (*b*) crystallizing out and removing from the mixture resulting from step (*a*), including the carbon tetrachloride, elemental sulphur and residual reagents, elemental sulphur substantially equal to the sulphur content of the carbon disulphide; (*c*) subjecting the mixture resulting from step (*b*), including the carbon tetrachloride and the remainder of the elemental sulphur produced in step (*a*), together with the residual reagents, to the action of a chlorinating agent of the group consisting of elemental chlorine and sulphur dichloride, to chlorinate the carbon of the residual carbon disulphide substantially completely to carbon tetrachloride and the residual elemental sulphur as well as the sulphur of the carbon disulphide substantially completely to sulphur monochloride; (*d*) distilling the carbon tetrachloride away from the sulphur monochloride in the mixture resulting from step (*c*); and (*e*), chlorinating the sulphur monochloride remaining after step (*d*) back to sulphur dichloride, by means of elemental chlorine, for use in a succeeding cycle of the process.

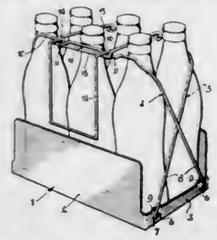
2,316,737
PROCESS FOR PRODUCTION OF CARBON TETRACHLORIDE
Joy E. Beanblossom and Walton B. Scott, Niagara Falls, N. Y., assignors to Hooker Electrochemical Company, Niagara Falls, N. Y., a corporation of New York
No Drawing. Application October 9, 1942, Serial No. 461,450
6 Claims. (Cl. 260—664)

1. The process for production of carbon tetrachloride which comprises successively (*a*) reacting one mol of carbon disulphide with substantially one to four mols of sulphur monochloride until an equilibrium mixture is obtained, said mixture containing substantially all the carbon tetrachloride and elemental sulphur produced by the reaction, together with the reagents remaining unreacted; (*b*) crystallizing out and removing from the mixture resulting from step (*a*), including the carbon tetrachloride, elemental sulphur and residual reagents, elemental sulphur substantially equal to the sulphur content of the carbon disulphide; (*c*) subjecting the mixture resulting from step (*b*), including the carbon tetrachloride and remainder of the elemental sulphur produced in step (*a*), together with the residual reagents, to the action of a chlorinating agent of the group consisting of elemental chlorine and sulphur dichloride, to chlorinate the carbon of the residual carbon disulphide substantially completely to carbon tetrachloride and the residual sulphur as well as the sulphur of the carbon disulphide substantially completely to sulphur monochloride, and (*d*) distilling the carbon tetrachloride away from the sulphur monochloride in the mixture resulting from step (*c*) as far as practicable, leaving the sulphur monochloride available for use in a succeeding cycle of the process.

2,316,738
BOTTLE CARRIER
Henry E. Brunhoff, Wyoming, Ohio, assignor to The Brunhoff Manufacturing Company, Cincinnati, Ohio, a corporation of Ohio
Application June 22, 1940, Serial No. 341,930
4 Claims. (Cl. 224—48)

1. A hand crate for bottles, comprising: a sheet metal base of tray form to sustain a group of bottles in symmetrical arrangement, a pair of U-shaped wire frames having their limbs normally disposed in crosswise relation with the ends thereof hingedly attached relatively to the opposite ends of the base, the frames in an operative position inclined across each other, clasping and binding the bottles disposed therebetween, and a bail respectively for each frame disposed

midway of and pivotally connected thereto, the bail of one frame engageable through the bail of the second to interconnectingly join and clamp the upper ends of the frames about the bottles,



and the second bail when brought outwardly downward to extend toward the base cooperating with the first to lock the same in its frame clamping position.

2,316,739
STABILIZATION OF TETRAETHYL LEAD AND A MOTOR FUEL CONTAINING THE SAME
Elmer W. Cook, New York, N. Y., and William D. Thomas, Jr., Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application February 24, 1941, Serial No. 380,312
13 Claims. (Cl. 44—69)

1. A composition comprising tetraethyl lead and an oil-soluble surface-active organic sulfonate in amounts effective to stabilize said tetraethyl lead against cloud formation.

2,316,740
LEATHER MANUFACTURE
William Orville Dawson, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application July 25, 1942, Serial No. 452,322
12 Claims. (Cl. 149—5)

1. A process of preparing leather which comprises impregnating untanned skins with an aqueous dispersion of a methylol melamine and with another tanning agent.

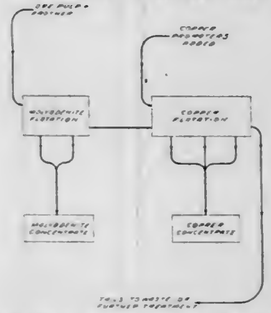
2,316,741
LEATHER MANUFACTURE
William Orville Dawson, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application July 25, 1942, Serial No. 452,323
5 Claims. (Cl. 149—5)

1. The process of preparing leather which comprises impregnating untanned skins with an aqueous dispersion of a methylol melamine.

2,316,742
CERAMIC COATING COMPOSITION
Alden J. Deyrup, Elizabeth, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 5, 1941, Serial No. 396,697
19 Claims. (Cl. 106—49)

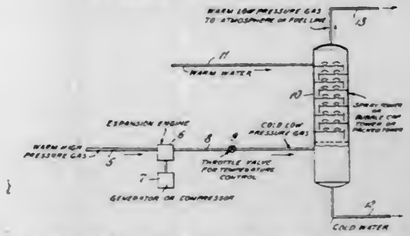
1. A low-melting glaze composition, suitable for use as an overglaze, which comprises lead oxide present in amounts ranging from 40 to 50%; silica present in amounts ranging from 15 to 36%; boric oxide present in amounts ranging from 7 to 28%; and alumina present in amounts ranging from 5 to 15%; all said percentages being by weight based on the total weight of said glaze composition.

2,316,743
FLOTATION OF MOLYBDENITE
Corbin Marsh, Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
Application November 9, 1939, Serial No. 303,589
5 Claims. (Cl. 209—166)



1. A process for the recovery of molybdenite by froth flotation which comprises subjecting an aqueous pulp containing molybdenite to a froth flotation operation in the presence of an effective amount of a collector for the molybdenite, said collector comprising a composition containing at least one higher aliphatic alcohol having six to ten carbon atoms, a hydrocarbon of the paraffin series and a hydrocarbon of the terpene series, the alcohol content of the composition being substantially 40%.

2,316,744
METHOD OF GAS UTILIZATION
Dana S. Mellett, Dearborn, Mich., and Geoffrey W. Robbins, Ardmore, Pa., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application September 4, 1941, Serial No. 409,554
4 Claims. (Cl. 62—175.5)



1. A method for the utilization of high pressure refinery gases to produce cooled fluids for heat extraction uses in refinery processing comprising partially expanding said gases to reduce the temperature thereof, and passing the cooled gases in direct physical contact with cooling fluid of higher temperature than said cooled gases, and subsequently expanding said gases to near atmospheric pressure, and again passing said gases in direct physical contact with cooling fluid of higher temperature than said gases as passed in contact therewith.

2,316,745
CERAMIC DECORATING COMPOSITION
Campbell Robertson and Alden J. Deyrup, Westfield, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 12, 1941, Serial No. 397,818
9 Claims. (Cl. 106—48)

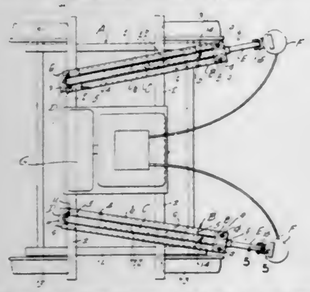
1. A ceramic paint composition comprising a vitrifiable enamel composition suspended in a vehicle containing methyl cellulose.

2,316,746
FLOOR AND WALL COVERING
James William Stallings, Haddon Heights, N. J., assignor to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware
Application July 24, 1941, Serial No. 403,833
6 Claims. (Cl. 154—25)



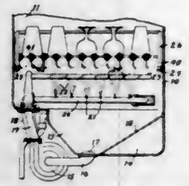
1. The process of preparing a non-buckling, distortion-free linoleum having a woven cotton back which comprises impregnating cotton cloth with a solution of a water-soluble carbamide-formaldehyde condensate to impart about 10% to about 20% of condensate to the cloth, drying the cloth, applying a linoleum coating composition to one face of the cloth, and heating the coated cloth.

2,316,747
TRAVELING TOOL CARRIER
Robert S. Stephens, Decatur, Ill.
Application March 14, 1942, Serial No. 434,770
2 Claims. (Cl. 104—2)



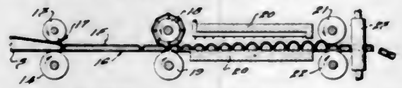
1. A tool carrier comprising a movable support, an elongated base extending fore and aft on said support and adjustable angularly and laterally upon the support, a post rigidly fixed and upstanding from the base adjacent to an end thereof, a standard comprising a pair of spaced uprights rigidly fixed to and upstanding from said base adjacent its oppoiste end, a plate fixed across and joining said uprights at their upper ends, bolts having connection with and depending from said plate in spaced relation intermediate said uprights, coil-springs connected at an end with and depending from said bolts, a saddle carried by said springs and disposed transversely intermediate said uprights, an arm pivotly connected at one end with the post at a point elevated above the base and having a portion thereof extending between said uprights and resting upon said saddle for yielding and swinging movement, and means at the yieldable swingable end of said arm for mounting a tool.

2,316,748
DISHWASHING MACHINE
Tord Erik Daniel Bilde, Ulvsunda, Sweden, assignor to Bolinder's Fabriks Aktiebolag, Stockholm, Sweden, a corporation of Sweden
Application October 9, 1939, Serial No. 298,681
In Germany September 26, 1938
3 Claims. (Cl. 141—9)



1. In a washing machine of the class described having a spraying chamber, means for supporting articles in said chamber, a spraying device below the supporting means and arranged to throw liquid jets against said articles, resistance members above the spraying device for controlling the pressure of the liquid jets against said articles, and means movably connecting the resistance members to the machine, said members having depending curved portions in the path of the liquid jets and movable to different positions by the pressure of said jets to control the pressure of the liquid against the articles in said chamber.

2,316,749
CELLULAR GLASS AND PROCESS FOR ITS MANUFACTURE
Milton A. Powers, Detroit, Mich.
Application November 10, 1938, Serial No. 239,859
6 Claims. (Cl. 49—84)

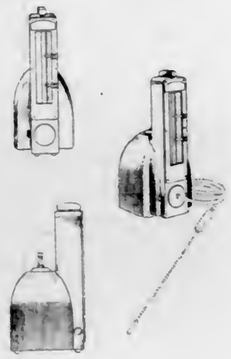


1. The process of transforming glass tubing while plastic comprising pinching the tubing at intervals to produce a series of sealed spaces, expanding said spaces by application of heat, flattening the walls of said spaces to produce spaces of even thickness and dividing the product into sections.

DESIGNS

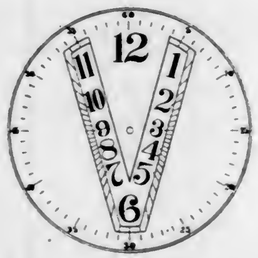
APRIL 13, 1943

135,455
DESIGN FOR A GAUGE FOR SIZE MEASUREMENT OR COMPARISON
Willis Fay Aller, Dayton, Ohio, assignor to The Sheffield Corporation, Dayton, Ohio, a corporation of Ohio
Application August 15, 1942, Serial No. 107,939
Term of patent 7 years



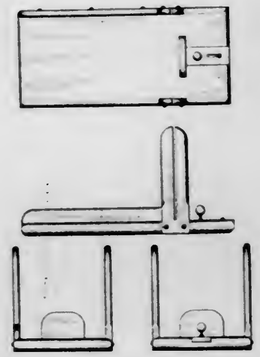
The ornamental design for a gauge for size measurement or comparison, substantially as shown and described.

135,456
DESIGN FOR A TIMEPIECE DIAL
Leo Y. Booharin, San Francisco, Calif.
Application December 7, 1942, Serial No. 108,961
Term of patent 14 years



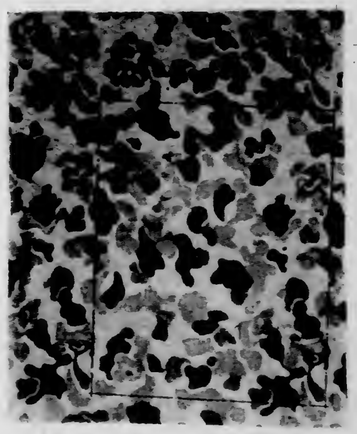
The ornamental design for a timepiece dial, as shown.

135,457
DESIGN FOR A SLICING BOARD
John T. Generale, Pelham Manor, N. Y.
Application February 3, 1943, Serial No. 109,438
Term of patent 7 years



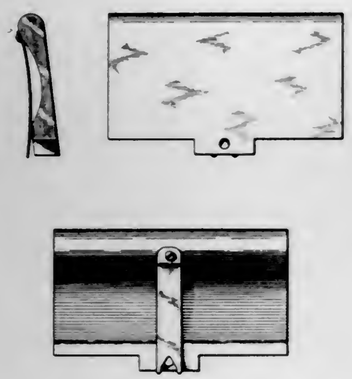
The ornamental design for a slicing board, substantially as shown.

135,458
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Ralph M. Gutekunst, Bala-Cynwyd, Pa., assignor to The Hellwig Silk Dyeing Co., Philadelphia, Pa., a corporation of Pennsylvania
Application November 3, 1942, Serial No. 108,687
Term of patent 3½ years



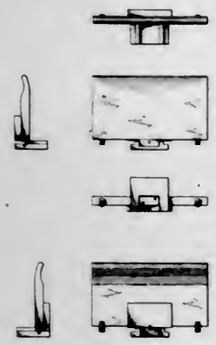
The ornamental design for a textile fabric or similar article, as shown and described.

135,459
DESIGN FOR A CARD FOLLOWER
Thomas A. Hearn, Ludlow, Ky., assignor to The Globe-Wernicke Company, Norwood, Ohio, a corporation of Ohio
Application September 11, 1942, Serial No. 108,180
Term of patent 14 years



The ornamental design for a card follower, as shown.

135,460
DESIGN FOR A CARD FOLLOWER
Thomas A. Hearn, Ludlow, Ky., assignor to The Globe-Wernicke Company, Norwood, Ohio, a corporation of Ohio
Application September 11, 1942, Serial No. 108,181
Term of patent 14 years



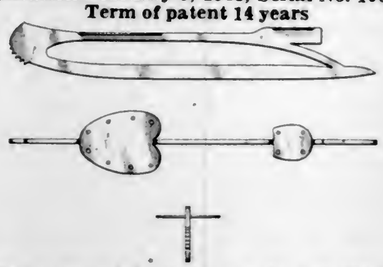
The ornamental design for a card follower, as shown.

135,461
DESIGN FOR A SPOON OR SIMILAR ARTICLE
Frederick W. Koonz, Bernardston, Mass., assignor to Rogers, Lunt & Bowlen Company, Greenfield, Mass., a corporation of Massachusetts
Application August 5, 1942, Serial No. 107,819
Term of patent 14 years



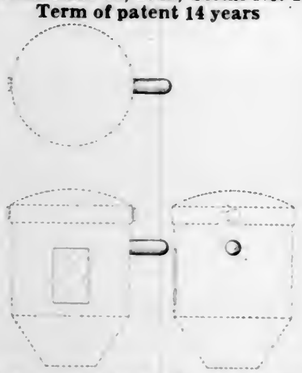
The ornamental design for a spoon or similar article, substantially as shown and described.

135,462
DESIGN FOR AN ICE SKATE
Samuel G. McCullough, Narragansett, R. I.
Application February 9, 1943, Serial No. 109,509
Term of patent 14 years



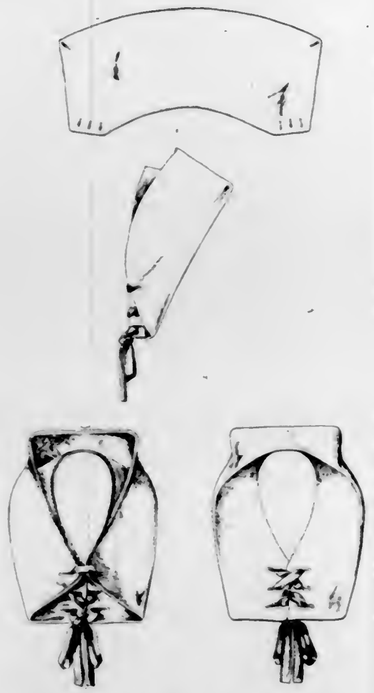
The ornamental design for an ice skate, as shown.

135,463
DESIGN FOR A SOAP DISPENSER OR THE LIKE
George H. Packwood, Jr., Glencoe, Mo.
Application June 26, 1942, Serial No. 107,352
Term of patent 14 years



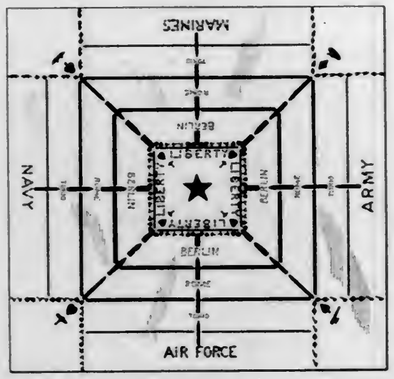
The ornamental design for a soap dispenser or the like, substantially as shown and described.

135,464
DESIGN FOR A NURSE'S CAP
Sylvia Seigenfeld, New York, N. Y., and Emily Alexander, Stamford, Conn.
Application February 3, 1943, Serial No. 109,444
Term of patent 3½ years



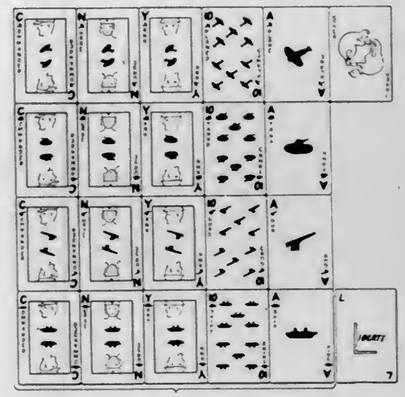
The ornamental design for a nurse's cap, as shown.

135,465
DESIGN FOR A GAME BOARD
Alfred M. Voit, Louisville, Ky.
Application July 18, 1942, Serial No. 107,600
Term of patent 7 years



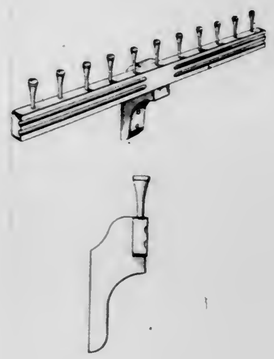
The ornamental design for a game board, substantially as shown, and described.

135,466
DESIGN FOR A DECK OF PLAYING CARDS
Alfred M. Voit, Louisville, Ky.
Application July 18, 1942, Serial No. 107,601
Term of patent 7 years



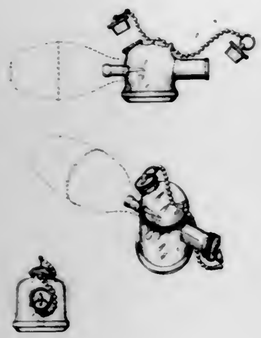
The ornamental design for a deck of playing cards, substantially as shown, and described.

135,467
DESIGN FOR A TIE RACK
Arthur Waterman, Philadelphia, Pa.
Application February 10, 1943, Serial No. 109,517
Term of patent 3½ years



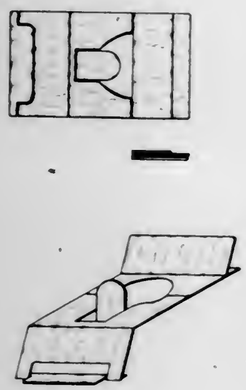
The ornamental design for a tie rack, as shown.

135,468
DESIGN FOR A NEBULIZER
Ralph G. Cheney and Benjamin S. Paschall, Seattle, Wash; said Cheney assignor to said Paschall
Application July 3, 1942, Serial No. 107,404
Term of patent 14 years



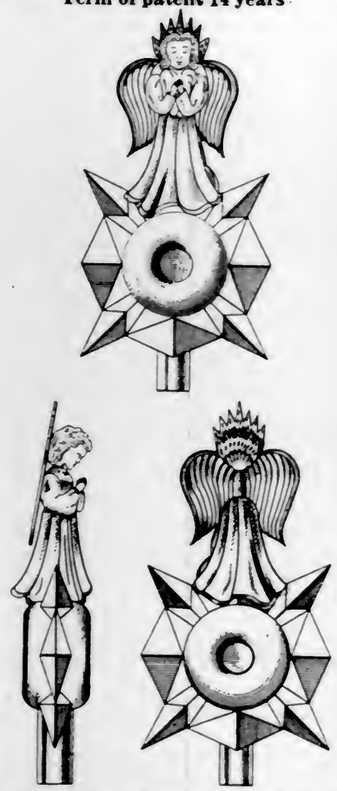
The ornamental design for a nebulizer, as shown and described.

135,469
DESIGN FOR A CHILD'S FOLDING TOILET SEAT
Pearl E. Dunn, Oakland, Calif.
Application July 12, 1941, Serial No. 102,109
Term of patent 3½ years



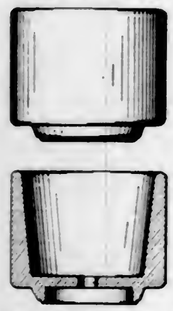
The ornamental design for a child's folding toilet seat, as shown.

135,470
DESIGN FOR A CHRISTMAS TREE ORNAMENT OR THE LIKE
Hugo Hoffmann, New York, N. Y., assignor to Elite Hand Painting Corporation, New York, N. Y.
Application February 12, 1943, Serial No. 109,532
Term of patent 14 years



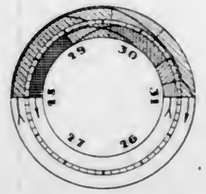
The ornamental design for a Christmas tree ornament or the like, as shown.

135,471
DESIGN FOR A RAZOR BLADE SHARPENER
John A. Royall, East Boothbay, Maine
Application November 4, 1942, Serial No. 108,691
Term of patent 3½ years



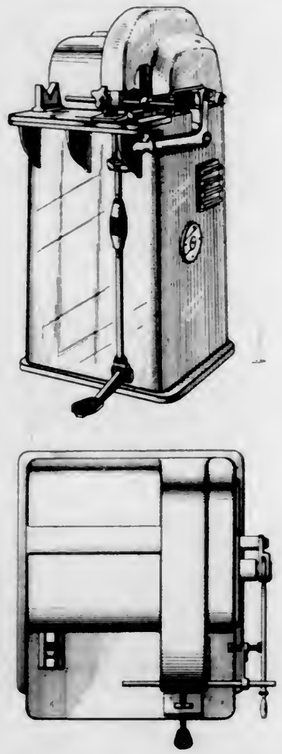
The ornamental design for a razor blade sharpener, as shown.

135,472
DESIGN FOR A DIAL FOR BAROMETERS OR THE LIKE
Frank J. Scott, Minneapolis, Minn.
Application January 16, 1942, Serial No. 105,235
Term of patent 14 years



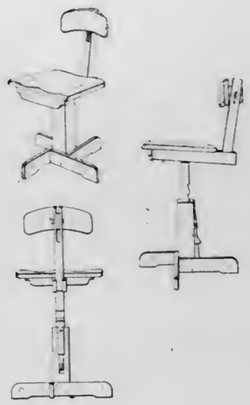
The ornamental design for a dial for barometers or the like, substantially as shown and described.

135,473
DESIGN FOR A METAL CUTTING MACHINE OR SIMILAR ARTICLE
Ewald Schutz, Lancaster, Pa., assignor to De Walt Products Corporation, Lancaster, Pa., a corporation of Pennsylvania
Application February 6, 1942, Serial No. 105,663
Term of patent 14 years



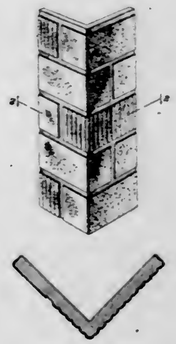
The ornamental design for a metal cutting machine or similar article, substantially as shown.

135,474
DESIGN FOR A CHAIR OR SIMILAR ARTICLE
Robert E. Wagner, Avon Lake, Ohio
Application February 18, 1943, Serial No. 109,578
Term of patent 14 years



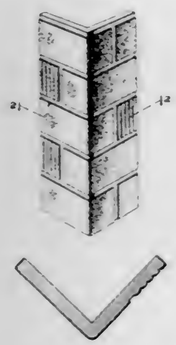
The ornamental design for a chair or similar article, substantially as shown and described.

135,475
DESIGN FOR AN INSULATING SIDING CORNER UNIT
William R. Wright, Dedham, Mass., assignor to Bird & Son, inc., East Walpole, Mass., a corporation of Massachusetts
Application August 5, 1942, Serial No. 107,826
Term of patent 14 years



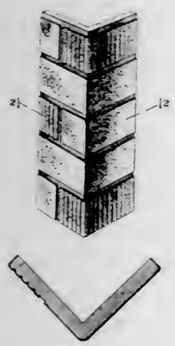
The ornamental design for an insulating siding corner unit, as shown.

135,476
DESIGN FOR AN INSULATING SIDING CORNER UNIT
William R. Wright, Dedham, Mass., assignor to Bird & Son, inc., East Walpole, Mass., a corporation of Massachusetts
Application August 6, 1942, Serial No. 107,835
Term of patent 14 years



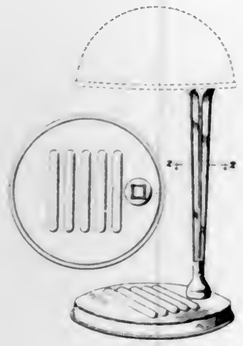
The ornamental design for an insulating siding corner unit, as shown.

135,477
DESIGN FOR AN INSULATING SIDING CORNER UNIT
William R. Wright, Dedham, Mass., assignor to Bird & Son, inc., East Walpole, Mass., a corporation of Massachusetts
Application August 8, 1942, Serial No. 107,854
Term of patent 14 years



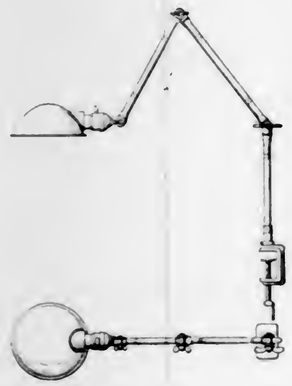
The ornamental design for an insulating siding corner unit, as shown.

135,478
DESIGN FOR A DESK LAMP
Clarence L. Dewey, Elkhart, Ind.
Application July 6, 1942, Serial No. 107,436
Term of patent 14 years



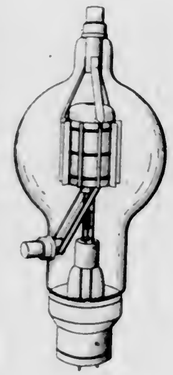
The ornamental design for a desk lamp, substantially as shown and described.

135,479
DESIGN FOR A LAMP
Horace Everett Hopkins, Jeffersonville, Ind.
Application August 10, 1942, Serial No. 107,870
Term of patent 7 years



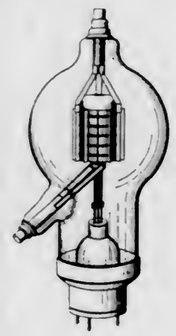
The ornamental design for a lamp, as shown.

135,480
DESIGN FOR AN ELECTRON DISCHARGE TRANSMITTING TUBE
Winfield G. Wagener, Palo Alto, and Clark H. Sphar, San Francisco, Calif., assignors to Heintz & Kaufman, Ltd., South San Francisco, Calif., a corporation of Nevada
Application December 23, 1941, Serial No. 104,792
Term of patent 14 years



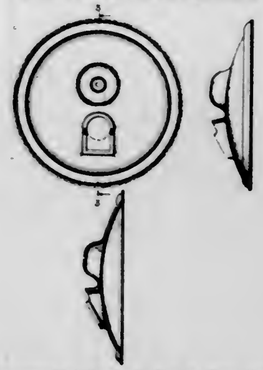
The ornamental design for an electron discharge transmitting tube, substantially as shown.

135,481
DESIGN FOR AN ELECTRON DISCHARGE TRANSMITTING TUBE
Winfield G. Wagener, Palo Alto, and Clark H. Sphar, San Francisco, Calif., assignors to Heintz & Kaufman, Ltd., South San Francisco, Calif., a corporation of Nevada
Application December 23, 1941, Serial No. 104,793
Term of patent 14 years



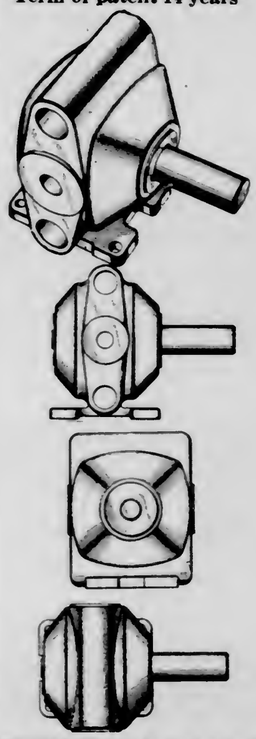
The ornamental design for an electron discharge transmitting tube, substantially as shown.

135,482
DESIGN FOR A DIM-OUT SHIELD FOR AUTOMOBILE HEADLIGHTS
Nathan Cooper, New Haven, Conn.
Application June 3, 1942, Serial No. 107,084
Term of patent 3½ years



The ornamental design for a dim-out shield for automobile headlights, as shown.

135,483
DESIGN FOR A VANE PUMP
Warren R. Tucker, Dayton, Ohio, assignor to The Hydraulic Development Corporation, Inc., Mount Gilead, Ohio, a corporation of Delaware
Application August 10, 1942, Serial No. 107,869
Term of patent 14 years



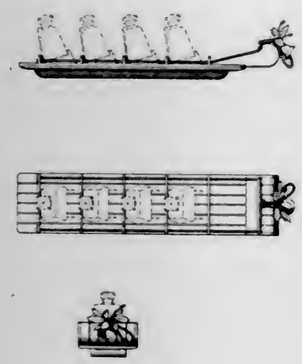
The ornamental design for a vane pump, substantially as shown.

135,484
DESIGN FOR A COMBINED STAND AND PERFUME BOTTLES
Arthur R. Botham, New York, N. Y., assignor to Coty, Inc., a corporation of Delaware
Application February 6, 1943, Serial No. 109,492
Term of patent 7 years



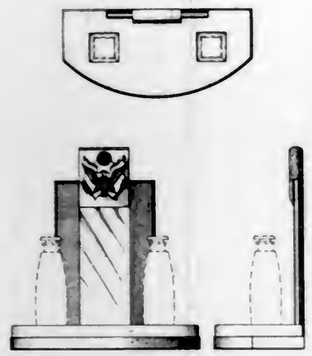
The ornamental design for a combined stand and perfume bottles, substantially as shown and described.

135,485
DESIGN FOR A COMBINED STAND AND PERFUME BOTTLES
Arthur R. Botham, New York, N. Y., assignor to Coty, Inc., a corporation of Delaware
Application February 6, 1943, Serial No. 109,493
Term of patent 7 years



The ornamental design for a combined stand and perfume bottles, substantially as shown and described.

135,486
DESIGN FOR A COMBINED STAND AND PERFUME BOTTLES
Arthur R. Botham, New York, N. Y., assignor to Coty, Inc., a corporation of Delaware
Application February 6, 1943, Serial No. 109,494
Term of patent 7 years



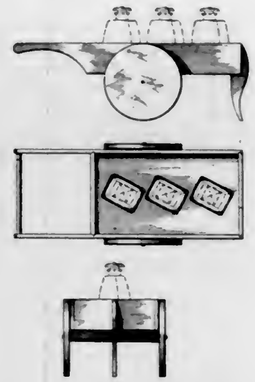
The ornamental design for a combined stand and perfume bottles, substantially as shown and described.

135,487
DESIGN FOR A COMBINED STAND AND PERFUME BOTTLE
Arthur R. Botham, New York, N. Y., assignor to Coty, Inc., a corporation of Delaware
Application February 6, 1943, Serial No. 109,495
Term of patent 7 years



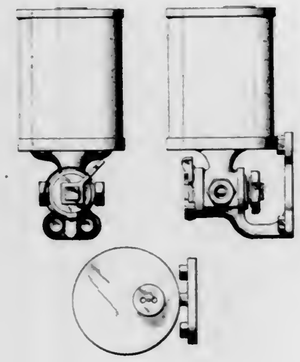
The ornamental design for a combined stand and perfume bottle, substantially as shown and described.

135,488
DESIGN FOR A COMBINED STAND AND PERFUME BOTTLES
Arthur R. Botham, New York, N. Y., assignor to Coty, Inc., a corporation of Delaware
Application February 6, 1943, Serial No. 109,497
Term of patent 7 years



The ornamental design for a combined stand and perfume bottles, substantially as shown and described.

135,489
DESIGN FOR A DILUTER FOR LUBRICANTS
Thomas Gallo, Arlington, Va.
Application August 26, 1942, Serial No. 108,039
Term of patent 3½ years



The ornamental design for a diluter for lubricants, as shown.

135,490
DESIGN FOR A STUFFED TOY OR SIMILAR ARTICLE
Jacob Swedlin, Brooklyn, N. Y.
Application February 15, 1943, Serial No. 109,551
Term of patent 7 years



The ornamental design for a stuffed toy or similar article, substantially as shown.

135,491
DESIGN FOR A STUFFED TOY OR SIMILAR ARTICLE
Jacob Swedlin, Brooklyn, N. Y.
Application February 15, 1943, Serial No. 109,552
Term of patent 7 years



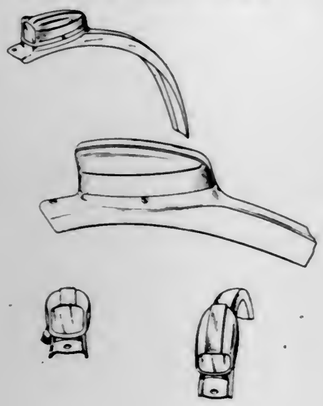
The ornamental design for a stuffed toy or similar article, substantially as shown.

135,492
DESIGN FOR A MASK FOR STUFFED TOYS OR SIMILAR ARTICLE
Jacob Swedlin, Brooklyn, N. Y.
Application February 15, 1943, Serial No. 109,553
Term of patent 7 years



The ornamental design for a mask for stuffed toys or similar article, substantially as shown.

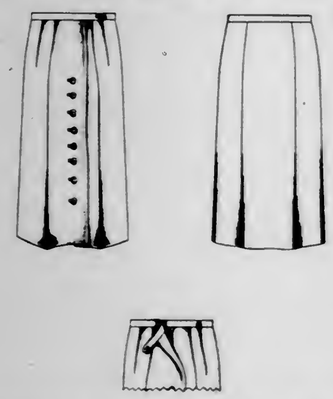
135,493
DESIGN FOR A COMBINED BICYCLE GUARD AND LAMP
Tord Erik Daniel Bilde, Stockholm, Sweden
Application December 17, 1941, Serial No. 104,685
Term of patent 14 years





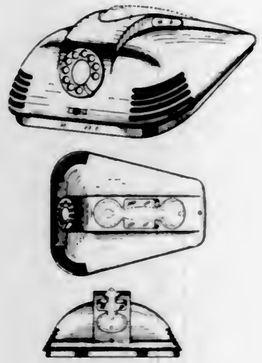
The ornamental design for a combined bicycle guard and lamp, as shown and described.

135,494
DESIGN FOR A SKIRT
Harry Zuckerman, New York, N. Y.
Application November 17, 1942, Serial No. 108,805
Term of patent 3½ years



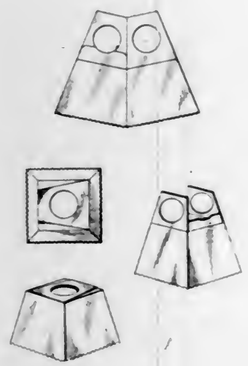
The ornamental design for a skirt, substantially as shown.

135,495
DESIGN FOR A LOUD-SPEAKING TELEPHONE SET
Gabriel M. Giannini, North Hollywood, Calif., assignor, by mesne assignments, to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application January 21, 1942, Serial No. 105,342
Term of patent 14 years



The ornamental design for a loud-speaking telephone set as shown.

135,496
DESIGN FOR A FOLDING LAMP SHADE
Arthur K. Lueders, St. Paul, Minn.
Application April 10, 1942, Serial No. 106,520
Term of patent 3½ years



The ornamental design for a folding lamp shade, as shown.

135,497
DESIGN FOR A HAT
Adolph Reinsberg, Chicago, Ill.
Application December 14, 1942, Serial No. 109,031
Term of patent 3½ years



The ornamental design for a hat, substantially as shown.

135,498
DESIGN FOR A FOUNTAIN PEN
Norman E. Weigel, Short Hills, N. J.
Application January 16, 1943, Serial No. 109,278
Term of patent 3½ years

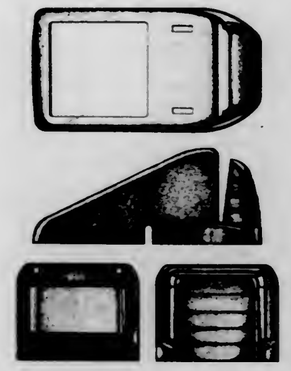
The ornamental design for a fountain pen, as shown.

135,499
DESIGN FOR A DECALCOMANIA TRANSFER SHEET OR THE LIKE
Ladislas Medgyes, New York, N. Y., assignor to Helena Rubinstein, Inc., New York, N. Y., a corporation of New York
Application January 22, 1943, Serial No. 109,328
Term of patent 7 years



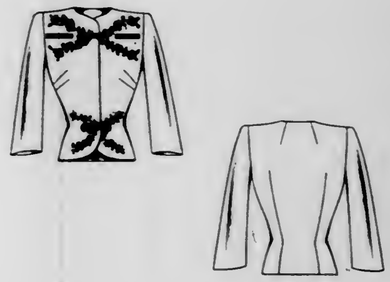
The ornamental design for a decalcomania transfer sheet, or the like, as shown.

135,500
DESIGN FOR A CHECK WRITING MACHINE CASING
Willis A. Kropp, River Forest, Ill., assignor to Victor Adding Machine Co., Chicago, Ill., a corporation of Illinois
Application February 15, 1943, Serial No. 109,544
Term of patent 7 years



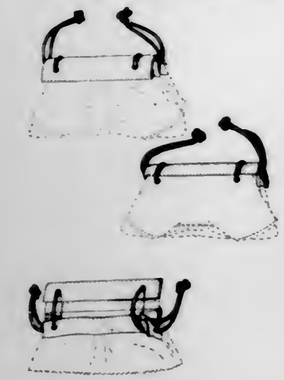
The ornamental design for a check writing machine casing, as shown.

135,501
DESIGN FOR A JACKET
Barbara Moye, New York, N. Y.
Application March 22, 1943, Serial No. 109,803
Term of patent 3½ years



The ornamental design for a jacket, substantially as shown.

135,502
DESIGN FOR A HANDBAG
Irving Pichel, New York, N. Y.
Application January 1, 1943, Serial No. 109,191
Term of patent 3½ years



The ornamental design for a handbag, substantially as shown and described.

135,503
DESIGN FOR A DRESS
Joset L. Walker, New York, N. Y.
Application March 22, 1943, Serial No. 109,800
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

135,504
DESIGN FOR A DRESS
Joset L. Walker, New York, N. Y.
Application March 22, 1943, Serial No. 109,801
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

135,505
DESIGN FOR A DRESS
Samuel Zahn, New York, N. Y.
Application March 22, 1943, Serial No. 109,802
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

Patents Nos. 2,316,750 to 2,317,339

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CONTENTS

	Page
ISSUE OF APRIL 20, 1943	379
NOTICES	379
INTERFERENCE NOTICE	379
NOTICE OF CANCELLATION	379
ADVERSE DECISIONS IN INTERFERENCE	379
DISCLAIMERS	379
APPLICATIONS UNDER EXAMINATION	380
DECISIONS OF THE U. S. COURTS—	
In re Korf et al	381
Benner et al. v. Oglesby	382
ADJUDICATED PATENTS	386
TRADE-MARKS PUBLISHED (96 APPLICATIONS)	387
TRADE-MARK REGISTRATIONS GRANTED	398
TRADE-MARK REGISTRATIONS RENEWED	403
REISSUES	407
PLANT PATENTS	408
PATENTS GRANTED	409
DESIGNS	549
A. P. C. APPLICATIONS	XXXI

April 20, 1943

Trade-Marks	97	No.	401,013 to No.	401,109, inclusive.
T. M. Renewals	74			
Reissues	4	No.	22,302 to No.	22,305, inclusive.
Plant Patents	1	No.	576	
Patents	590	No.	2,316,750 to No.	2,317,339, inclusive.
Designs	48	No.	135,506 to No.	135,553, inclusive.
Total	814			

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See page xxxi for list of applications published by the Alien Property Custodian.

Notice

The machine now used in the Application Division to prepare papers for insertion in application file wrappers, punches holes three-eighths of an inch in diameter, about seven-eighths of an inch from the top of the page. It is therefore necessary that a margin of at least one and one-fourth inches be reserved at the top of all such papers, in order to avoid possible mutilation of the text. Failure to comply with this requirement may result in the return of unacceptable papers.

LESLIE FRAZER,
First Assistant Commissioner.

Interference Notice

U. S. PATENT OFFICE, *Richmond, Va., Mar. 24, 1943.*

The heirs, assigns or legal representatives of Vess Jones, deceased, take notice:

An interference has been declared by this Office between the application of Pig'n Whistle Corporation, 621 Market St., San Francisco, Calif., for registration of a trade-mark, and trade-mark registered May 11, 1926, No. 212,681, to Vess Jones, 465 Washington St., New York, N. Y. Counsel for said Jones having stated that they are advised that **said Jones is deceased, on January 8, 1943 proceedings were suspended until March 9, 1943 in order that the heirs or legal representatives of said Jones might intervene.** The time referred to has expired, but no response has been made on behalf of the heirs, assigns or legal representatives of said Jones. Notice is hereby given that unless the heirs, assigns or legal representatives of Vess Jones shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Notice of Cancellation

U. S. PATENT OFFICE, *Richmond, Va., March 30, 1943.*

Chas. H. Jandt Packing Co., its assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by R. C. Williams & Company, Inc., 265 Tenth Ave., New York, N. Y., to effect the cancellation of trade-mark registration of Chas. H. Jandt Packing Co., 251 Wholesale Terminal Bldg., Los Angeles, Calif., No. 229,434, dated June 28, 1927, and the notice of such proceeding sent by registered mail to the said Chas. H. Jandt Packing Co. at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Chas. H. Jandt Packing Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed.

Pat. 2,116,090, S. T. Williams, Tire valve, decided January 25, 1943, claim 1.

Pat. 2,285,032, J. R. Ingram, Age resisting rubber composition, decided March 25, 1943, claims 1, 2, 3, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 16, 17, and 18.

Disclaimers

2,133,076.—*Bernard M. Bodde*, Hollywood, Calif. TRANSLUCENT PROJECTION SCREEN. Patent dated October 11, 1938. Disclaimer filed March 19, 1943, by the assignee, *Flat Light Screen Co.*

Hereby enters this disclaimer to claims 4, 5, and 6, in said specification.

2,215,380.—*Robert C. Swain*, Riverside, and *Donald W. Light*, Old Greenwich, Conn. BONDED ABRASIVE. Patent dated September 17, 1940. Disclaimer filed March 27, 1943, by the assignee, *American Cyanamid Company.*

Hereby enters this disclaimer to claims 1, 2, 3, and 4, in said specification.

Conditions of Applications Under Examination at Close of Business April 3, 1943

(Total number of applications awaiting action, excluding Trade-Mark Division, 39,758; Trade-Mark Division, 918. Oldest new case, May 25, 1942; oldest amended, May 15, 1942.)
(The dates given are 1942 except where † indicates 1943)

Divisions, Examiners, and Subjects of Inventions	Oldest new application awaiting office action	Oldest amended application awaiting office action	No. of applications awaiting action
1. TUCKER, M. W., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Domestic Cooking Vessels; Sewerage.	Sept. 18	Nov. 23	338
2. HERRMANN, D., Fishing and Trapping; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textiles Wringers; Butchering.	Dec. 23	Nov. 23	225
3. WOLFFE, S., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	June 1	June 20	956
4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting.	Oct. 24	Oct. 8	392
5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps.	Aug. 3	Aug. 3	552
6. GENIESSE, E. W., Carbon Chemistry (part)	July 23	July 11	1,000
7. JARBOE, C. G., Optics, Photography	Aug. 13	Aug. 17	940
8. ADAMS, F. L., Furniture; Kitchen and Table Articles; Racks and Cabinets	Sept. 23	Sept. 17	613
9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	Sept. 2	Sept. 5	747
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Oct. 21	Oct. 23	372
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Stop Mechanisms	Oct. 12	Nov. 6	337
13. DONNELLY, A. E., Metal Working (part); Gear Cutting, Milling and Planing; Needle and Pin Making	Sept. 18	Sept. 7	647
14. HANLIN, GEORGE, Metal Working (part); Farriery; Wire Fabrics	Dec. 11	Nov. 28	416
15. HENKIN, BENJ., Glass, Plastic Block and Earthenware Apparatus; Plastics	Sept. 22	Sept. 29	666
16. SPENCER, C. J., Telegraphy; Telephony	Aug. 12	Aug. 14	651
17. HABECKER, LEON B., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	June 19	June 23	694
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	Aug. 13	Aug. 19	529
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	July 1	July 2	663
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part).	Oct. 14	Sept. 3	436
21. THOMPSON, T. J., Textiles	Nov. 10	Oct. 19	291
22. RINGLE, D., Aeronautics; Firearms; Ordnance and Explosive Devices	June 26	June 30	1,660
23. BARROWS, B., Cash Registers; Calculators (part)	Nov. 5	Nov. 5	127
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	Nov. 3	Nov. 4	584
25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Aug. 10	Sept. 9	602
26. YOUNG, R. R., Electricity—Generation and Motive Power	Sept. 3	Sept. 21	535
27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus.	Sept. 4	Sept. 18	622
28. SOLYOM, H. L., Internal-Combustion Engines (part); Cylinders and Pistons	Aug. 3	June 4	575
29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Package and Article Carriers; Woodworking; Tools; Metal Working, Assembling.	Dec. 3	Dec. 3	327
30. McCANN, LEO P., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Dec. 4	Dec. 2	317
31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils	Oct. 10	Oct. 9	1,314
32. LESH, K., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	Sept. 21	Sept. 12	669
33. HULL, J. S., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements	Nov. 19	Nov. 23	582
34. SAPERSTEIN, S., Electricity—Meters and Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators.	Sept. 23	Oct. 9	397
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles	Oct. 17	Oct. 12	620
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	Nov. 5	Sept. 30	384
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Nov. 27	Nov. 3	467
38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part)	Sept. 23	Sept. 9	629
39. WHITNEY, F. L., Fluid-Pressure Regulators; Valves; Water Distribution	Dec. 21	Dec. 21	350
40. DRUMMOND, E. J., Receptacles	Dec. 2	Dec. 5	377
41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles; Counters and Calculators (part); Typewriting Machines; Check-Controlled Apparatus.	Oct. 3	Sept. 26	412
42. MARANS, H., Electric Signaling	Nov. 18	Nov. 12	343
43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Azo Compounds.	June 1	June 6	906
44. HARVEY, L. P., Refrigeration	Sept. 14	July 29	345
45. HILL, H. D., Shafting and Flexible Shaft Couplings; Wheels and Axles; Resilient Tires and Wheels; Lubrication; Bearings and Guides; Motors; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part).	Sept. 21	Oct. 14	753
46. BLEECKER, V. E., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Heating Systems; Coating Apparatus.	Aug. 20	Aug. 20	488
47. KANOF, WM. J., Clutches and Power Stops; Brakes; Boring and Drilling; Land Vehicles (part)	Sept. 10	Sept. 17	978
48. ROEPKE, O. B., Electricity, General Applications; Igniters	May 25	May 15	735
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	Oct. 5	Oct. 2	600
50. LEVIN, SAMUEL, Resins; Rubber; Carbohydrates and Derivatives	Sept. 9	Sept. 9	1,190
51. BACKUS, C. D., Radiant Energy	Sept. 26	Sept. 25	954
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits.	Sept. 10	Oct. 7	627
53. PECK, M. K., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Curtains, Shades and Screens; Cutlery.	†Jan. 27	Nov. 26	192
54. STRACHAN, O. W., Electric Lamp and Discharge Devices (part)	Sept. 2	Sept. 2	442
55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery	July 3	July 15	758
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Laminated Fabrics (part); Paper Making	Sept. 7	Sept. 18	832
57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Sept. 15	Sept. 22	400
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working	Nov. 5	Nov. 7	525
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds; Compositions (part).	June 2	June 2	1,249
60. GLASS, R. L., Electricity, Heating and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Marine Propulsion; Consumable Electrode Lamp and Discharge Devices.	Aug. 3	Aug. 5	411
61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Laminated Electrical Insulation, Belt, Hose, Tire and Ball Making; Boats and Buoys.	Aug. 15	Sept. 11	561
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	Nov. 30	Nov. 12	450
63. WINKELSTEIN, A. H., Preserving; Poisons; Fermentation; Foods and Beverages; Proteins; Oils and Fats.	Aug. 1	Aug. 1	977
64. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Distillation; Fuel	Oct. 21	Oct. 22	1,097
65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays.	Sept. 5	Sept. 5	653
Trade Marks: RICHMOND, F. A.	†Mar. 1	†Mar. 15	918
Designs: KALUPY, H. H.	†Mar. 8	†Mar. 19	271

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Ace Products Co. (See Berndt, Alice.)
Aeroquip Corporation, The, Jackson, Mich. Metallic fittings for fluid condits. Serial No. 439,742; Apr. 20. Class 13.
Allen, Frank, New York, N. Y. Dental apparatus. Serial No. 458,029; Apr. 20. Class 44.
American Crayon Company, The, Sandusky, Ohio. Marking crayons. Serial No. 458,351; Apr. 20. Class 37.
American Sterilizer Company, Erie, Pa. Ultra-violet space sterilizing apparatus. Serial No. 458,216; Apr. 20. Class 44.
Anchor Post Fence Company, Baltimore, Md. Aircraft heaters of the combustion type. Serial No. 458,142; Apr. 20. Class 34.
Anderson, L. D., doing business as Arizona Vegetable Distributors, Phoenix, Ariz. Fresh vegetables. Serial No. 458,670; Apr. 20. Class 46.
Anderson, V. D., Company, The, Cleveland, Ohio. Steam traps. Serial No. 458,621; Apr. 20. Class 13.
Arizona Vegetable Distributors. (See Anderson, L. D.)
B. B. Chemical Co., Boston, Mass. Leather finishes. Serial No. 438,191; Apr. 20. Class 4.
Bacmo Postman Corporation, New York, N. Y. Gloves. Serial No. 457,889; Apr. 20. Class 39.
Bailey, George S., Hat Company, Inc., Los Angeles, Calif. Men's hats. Serial No. 450,300; Apr. 20. Class 39.
Bates, C. J., & Son, Chester, Conn. Manicure sets, nail files, nail buffers, etc. Serial No. 457,670; Apr. 20. Class 44.
Bausch & Lomb Optical Company, Rochester, N. Y. Ophthalmic mountings and goggles. Serial No. 458,581; Apr. 20. Class 26.
Berndt, Alice, doing business as Ace Products Co., Detroit, Mich. Cleaning compound. Serial No. 443,388; Apr. 20. Class 4.
Bilbara Publishing Company, Inc., New York, N. Y. Periodical. Serial No. 454,934; Apr. 20. Class 38.
Breuer Electric Mfg. Co., Chicago, Ill. Wooden mallets. Serial No. 456,010; Apr. 20. Class 23.
Browns, Dr., Laboratories. (See Nostane Products Corporation.)
Burgess Battery Company, Freeport, Ill. Flashlights and flashlight cases. Serial No. 458,678; Apr. 20. Class 21.
California Mexico Distributing Co., Nogales, Ariz. Fresh vegetables. Serial No. 458,874; Apr. 20. Class 46.
Campbell, Harry T., Son's Corp., Towson, Md. Calcite grit for poultry feed. Serial No. 458,387; Apr. 20. Class 1.
Carreras, Francisco I., doing business as Ebrey Chemical Works, Miami, Fla. Diuretic preparation. Serial No. 458,525; Apr. 20. Class 6.
Celanese Corporation of America, New York, N. Y. Staple fibers. Serial Nos. 458,324–5; Apr. 20. Class 1.
Celanese Corporation of America, New York, N. Y. Staple fibers. Serial No. 458,626, Apr. 20. Class 1.
Cheramy, Inc., New York, N. Y. Talcum powder and after shaving lotion. Serial No. 458,507; Apr. 20. Class 6.
Cohn-Hall-Marx Co., New York, N. Y. Piece goods. Serial No. 458,509; Apr. 20. Class 42.
Conservator Products Co., Philadelphia, Pa. Solid fuel cooking and heating stoves and ranges. Serial No. 457,894; Apr. 20. Class 34.
Cook Electric Company, Chicago, Ill. Apparatus in telephone systems. Serial No. 458,528; Apr. 20. Class 21.
Copeland, George H., doing business as Copeland Features, Kew Gardens, Long Island, N. Y. Comic strips. Serial No. 458,062; Apr. 20. Class 38.
Crystaloy Laboratories, Chicago, Ill. Gauge points and shoes for measuring devices. Serial No. 458,726; Apr. 20. Class 26.
Delite Fabrics, Inc., Westerly, R. I. Woven fabric in the piece. Serial No. 457,790; Apr. 20. Class 42.
Disney, Walt, Productions, Burbank, Calif. Comic strips. Serial No. 458,066; Apr. 20. Class 38.
Eastern Coal Sales Company, Bluefield, W. Va. Bituminous coal. Serial Nos. 458,112–14; Apr. 20. Class 1.
Ebrey Chemical Works. (See Carreras, Francisco I.)
Emporium World Millinery Co., Chicago, Ill. Women's hats. Serial No. 458,650; Apr. 20. Class 39.
Evans, John R., & Company, Camden, N. J. Leather. Serial No. 458,425; Apr. 20. Class 1.
Excelsior Leather Washer Manufacturing Co., Rockford, Ill. Leather gaskets, packings, and washers. Serial No. 458,532; Apr. 20. Class 35.
Findley, F. G., Co., The, Milwaukee, Wis. Waterproof pastes, glues, and adhesive gums. Serial No. 457,035; Apr. 20. Class 5.
General Mills, Inc., Minneapolis, Minn. Feeds for carnivorous, herbivorous, and omnivorous animals. Serial No. 454,927; Apr. 20. Class 46.
General Textile Mills, Inc., New York, N. Y. Parachutes. Serial No. 458,189; Apr. 20. Class 19.
Greenberg, Ben & Brother, Chicago, Ill. Carpets and rugs. Serial No. 455,071; Apr. 20. Class 42.
Grove Laboratories, Inc., The, Wilmington, Del., and St. Louis, Mo. Vitamin capsules. Serial No. 458,840; Apr. 20. Class 6.
Hill and Moore, Downers Grove, Ill. Prepared dog food. Serial No. 458,240; Apr. 20. Class 46.
Hartley, Pat, Inc., New York, N. Y. Women's dresses. Serial No. 458,610; Apr. 20. Class 39.
Horwitz & Duberman, New York, N. Y. Women's and girls' dresses, jackets, and coats. Serial No. 457,792; Apr. 20. Class 39.
Industrial Rayon Corporation, Cleveland, Ohio. Rayon yarn. Serial No. 458,224; Apr. 20. Class 43.
Inerto Company. (See Plaut, Carl S.)
International Shoe Co., St. Louis, Mo. Boots and shoes. Serial Nos. 458,593–4; Apr. 20. Class 39.
Ken-Nite Company, Detroit, Mich. Cleaner, wax and polish. Serial No. 453,551; Apr. 20. Class 16.
Kramer, Benjamin, New York, N. Y. Ladies' and misses' handbags. Serial No. 458,632; Apr. 20. Class 3.
Lowenstein, M., & Sons, Inc., New York, N. Y. Cotton and/or rayon piece goods. Serial No. 458,041; Apr. 20. Class 42.
Macy, R. H., & Co., Inc., New York, N. Y. Pin cushions. Serial No. 458,180; Apr. 20. Class 40.
Madelaine, Inc., New York, N. Y. Powder puffs filled with powdered body deodorant. Serial No. 458,368; Apr. 20. Class 6.
Mandee Fabrics, Inc., New York, N. Y. Fabrics in the piece. Serial No. 458,243; Apr. 20. Class 42.
Michaels, Stern & Company, Inc., Rochester, N. Y. Men's suits, topcoats, and overcoats. Serial No. 458,844; Apr. 20. Class 39.
Midwest Manufacturing & Engineering Corp., Boston, Mass. Cigarette cases. Serial No. 458,430; Apr. 20. Class 8.
Mixermobile Manufacturers, Portland, Oreg. Motor driven concrete batch hauling and placing vehicles. Serial No. 454,809; Apr. 20. Class 23.
National Cash Register Company, The, Dayton, Ohio. Registering machines. Serial Nos. 455,022–3; Apr. 20. Class 26.
National Horseman, The, Louisville, Ky. Magazine. Serial No. 458,018; Apr. 20. Class 38.
NEA Service, Inc., Cleveland, Ohio. Comic drawings. Serial No. 458,104; Apr. 20. Class 38.
Nostane Products Corporation, doing business as Dr. Browns Laboratories, Brooklyn, N. Y. Vitamin preparation. Serial No. 458,279; Apr. 20. Class 6.
Nyal Company, Detroit, Mich. Vitamin preparation. Serial No. 458,690; Apr. 20. Class 6.
Nyal Company, Detroit, Mich. Antacid. Serial No. 458,691; Apr. 20. Class 6.
Oil Base Drilling Fluids Co., Los Angeles, Calif., Powdered composition. Serial No. 458,402; Apr. 20 Class 1.
Omni Products Corporation, New York, N. Y. Hammers, axes, hatchets, etc. Serial No. 453,827; Apr. 20. Class 23.
Pennsylvania Saw Corporation, York, Pa. Saws. Serial No. 458,497; Apr. 20. Class 23.
Philco Corporation, Philadelphia, Pa. Refrigerators, refrigerator cabinets, refrigerator doors, etc. Serial No. 458,818; Apr. 20. Class 31.
Philips Petroleum Company, Bartlesville, Okla. Carbon black. Serial Nos. 457,746–8; Apr. 20. Class 1.
Plaut, Carl S., doing business as Inerto Company, San Francisco, Calif. Pipe couplings and feed valves. Serial No. 458,660 Apr. 20. Class 13.
Plough, Inc., Memphis, Tenn. Medicinal preparation. Serial No. 458,106; Apr. 20. Class 6.
Plunkett, W. C., & Sons Company, Inc., New York, N. Y. Cotton yarn. Serial No. 458,790; Apr. 20. Class 43.
Porter, Lenore, San Francisco, Calif. Toy dolls. Serial No. 458,549; Apr. 20. Class 22.
Rand McNally & Company, Chicago, Ill. Maps, atlases, miscellaneous books, etc. Serial No. 456,778; Apr. 20. Class 38.
Rood, Ashton B., Los Angeles, Calif. Chemical preparation. Serial No. 458,409; Apr. 20. Class 6.
Rubin, Samuel, New York, N. Y. Perfume. Serial No. 458,693; Apr. 20. Class 6.
Saks & Company, New York, N. Y. Misses' and women's shoes. Serial Nos. 457,641–2; Apr. 20. Class 39.
Sarasota Celery Company, Sarasota, Fla. Celery. Serial No. 458,288; Apr. 20. Class 46.
Sloan, Dr., Earl S., Inc., New York, N. Y. Medicinal preparations. Serial No. 458,663; Apr. 20. Class 6.

Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Water-soluble fluid composition of soapless lathering material. Serial No. 457,645; Apr. 20. Class 4.
Solo Products Corporation, New York, N. Y. Hair nets. Serial No. 451,473; Apr. 20. Class 39.
Stanley Home Products, Inc., Westfield, Mass. Chemical preparation for use on silver, gold, etc. Serial No. 453,475; Apr. 20. Class 4.
Stock, Roslyn, doing business as Tweets Novelty Company, New York, N. Y. Dolls. Serial No. 458,346; Apr. 20. Class 22.
Sunlite Mfg. Company, The, Milwaukee, Wis. Ironing board pads. Serial No. 458,487; Apr. 20. Class 24.
Thomas, M. & W., Corp., New York, N. Y. Neckties. Serial No. 458,798; Apr. 20. Class 39.
Thymo Borine Laboratory, Milwaukee, Wis. Antiseptic mouth wash. Serial No. 458,767; Apr. 20. Class 6.
Tweets Novelty Company. (See Stock, Roslyn.)
Universal Paper Products Company, Chicago, Ill. Glass Soda cup holders. Serial No. 457,665; Apr. 20. Class 33.
Vanderbilt, R. T., Company, Inc., New York, N. Y. Resin. Serial No. 458,055; Apr. 20. Class 1.
Victor Insulators, Inc., Victor, N. Y. Micaceous mineral material. Serial No. 458,502; Apr. 20. Class 1.
Westall, Evelyn, Co. (See Westall, Evelyn.)
Westall, Evelyn, doing business as Evelyn Westall Co., New York, N. Y. Perfume, toilet water, and cologne. Serial Nos. 458,870–1; Apr. 20. Class 6.
Western Leather Clothing Company, St. Louis, Mo. Sportswear. Serial No. 443,868; Apr. 20. Class 39.
Western Paint & Varnish Company, New Duluth, Minn. Liquid and paste cold water paint. Serial No. 456,783; Apr. 20. Class 16.
Young Radiator Company, Racine, Wis. Jacket liquid and oil coolers for internal combustion engines. Serial No. 451,279; Apr. 20. Class 34.

LIST OF REGISTRANTS OF TRADE-MARKS

Aircraft Tools, Inc., Los Angeles, Calif. Strap duplicators, stop countersinks, back countersinks etc. 401,108; Apr. 20. Class 23.
American Beauty Macaroni Co. (See Kansas City Macaroni & Importing Co.)
American Lady Corset Co. (See Schilling Corset Co., assignor.)
American Lady Corset Co., Detroit, Mich. Corsets, corset waists, brassières, etc. 166,028; renewed Mar. 27, 1943.
American-National Bag & Burlap Co., Inc., Brooklyn, N. Y. Burlap and cotton bags. 401,048; Apr. 20; Serial No. 456,524; published Dec. 22, 1942. Class 2.
American Tissue Mills, Holyoke, Mass. Paper napkins and tablecovers, crepe paper etc. 401,085; Apr. 20. Class 37.
American Writing Paper Company, assignor to American Writing Paper Corporation, Holyoke, Mass. Writing and printing paper. 165,836; renewed Mar. 20, 1943.
Arcady Farms Milling Company, Chicago, Ill. Prepared feed for animals. 171,029; renewed July 31, 1943.
Arvey Corporation, Chicago, Ill. Cardboard structural toys. 401,030; Apr. 20; Serial No. 454,128; published Aug. 25, 1942. Class 22.
Baker Paint & Varnish Co., Jersey City, N. J. Varnish stain. 169,484; renewed June 19, 1943.
Baker Paint & Varnish Co., Jersey City, N. J. Paints and painters' materials. 169,872; renewed July 3, 1943.
Baker Paint & Varnish Co., Jersey City, N. J. Paint enamels. 169,873; renewed July 3, 1943.
Ballard & Ballard Co., Louisville, Ky. Wheat flour. 170,705; renewed July 24, 1943.
Ballard & Ballard Company, Louisville, Ky. Wheat flour. 170,883; renewed July 24, 1943.
Ballard & Ballard Co., Incorporated, Louisville, Ky. Wheat flour. 172,473; renewed Aug. 28, 1943.
Bangor Publishing Company, Bangor, Maine. Newspaper. 165,252; renewed Mar. 6, 1943.
Barbour Welting Company, assignor to Barbour Welting Company, Brockton, Mass. Cut soles of leather for boots and shoes. 172,125; renewed Aug. 21, 1943.
Bay Shore Canning Company, Alviso, Calif. Canned vegetables and fruits. 401,077; Apr. 20; Serial No. 457,234; published Feb. 9, 1943. Class 46.
Bio-Dynamic Farming and Gardening Association, Inc., Phoenixville, Pa. Magazine. 401,093; Apr. 20. Class 38.
Bisceglia Brothers Wine Co., Fresno and Reedley, Calif. Wines. 401,027; Apr. 20; Serial No. 453,317; published Feb. 2, 1943. Class 47.
Black, Walter J., Inc., New York, N. Y. Individual books and series of books. 401,094; Apr. 20. Class 38.
Blake, Moffitt & Towne. (See Crown Williamette Paper Company, assignor.)
Borg-Warner Corporation, Chicago, Ill. Furnaces. 401,013-14; Apr. 20; Serial Nos. 445,680–1; published Feb. 9, 1943. Class 34.
Bows, Sherman. (See Sherman, Sol.)
Boyden-Hansen, F. E., Co., Ltd., Alameda, Calif. Honey. 401,107; Apr. 20. Class 46.
Bristol-Myers Company, assignor, by mesne assignments, to Bristol-Myers Company, New York, N. Y. Remedy for the relief of coughs, colds, hoarseness, etc. 167,744; renewed May 8, 1943.
Bristol-Myers Company, assignor, by mesne assignments, to Bristol-Myers Company, New York, N. Y. Medicinal preparation. 167,912; renewed May 8, 1943.
Brundage, J. R., Inc., New York, N. Y. Writing paper and envelopes. 401,035; Apr. 20; Serial No. 455,045; published Feb. 9, 1943. Class 37.
Bunn, John T., doing business as Crown Packing Company, Los Angeles, Calif. Fresh vegetables. 401,056; Apr. 20; Serial No. 456,710; published Feb. 9 1943. Class 46.
Burndy Engineering Company, Inc., New York, N. Y. Electrical connectors. 401,075; Apr. 20; Serial No. 457,197; published Feb. 9, 1943. Class 21.
Burnett's Incorporated, Newark, N. J. Tonic food in biscuit form for birds. 401,022; Apr. 20; Serial No. 449,891; published Feb. 9, 1943. Class 46.
Burson Knitting Company, Rockford, Ill. Hosiery. 164,857; renewed Feb. 27, 1943.
Butler Paper Corporation, Chicago, Ill. Wrapping paper, manila paper, envelopes, etc. 401,034; Apr. 20; Serial No. 454,822; published Feb. 9, 1943. Class 37.
California Fruit Processors, Inc., San Francisco, Calif. Canned citrus fruit juices. 401,082; Apr. 20; Serial No. 457,540; published Feb. 9, 1943. Class 46.
California Growers Wineries, Cutter, Calif. Wines. 401,096; Apr. 20. Class 47.
California Valley Wine Co., New York, N. Y. Wines. 401,101; Apr. 20. Class 47.
Canada Packers, Inc., New York, N. Y. Cheese and canned apple juice. 401,100; Apr. 20. Class 46.
Capson Hat Company, Inc., Fall River, Mass. Hats and caps. 401,015; Apr. 20; Serial No. 446,732; published Jan. 13, 1942. Class 39.
Chicago Flexible Shaft Company, Chicago, Ill. Lawn sprinklers, hose nozzles, hose couplings, etc. 401,051; Apr. 20; Serial No. 456,586; published Feb. 9, 1943. Class 13.
Chicago Tribune-New York News Syndicate, Inc., New York, N. Y. Series of cartoons. 401,073; Apr. 20; Serial No. 457,167; published Feb. 9, 1943. Class 38.
Christian Digest Publishing Company, The, Grand Rapids, Mich. Publication. 401,095; Apr. 20. Class 38.
Cohn-Hall-Marx Co., New York, N. Y. Cotton piece goods. 170,788; renewed July 24, 1943.
Collins Oil & Manufacturing Co., Inc., New York, N. Y. Asphaltic paint. 401,102; Apr. 20. Class 16.
Columbia Mills, Inc., The, New York, N. Y. Window shades. 401,105; Apr. 20. Class 32.
Columbian Rope Company, Auburn, N. Y. Rope. 170,136; renewed July 10, 1943.
Concrete Chemical Company. (See Kansas Building Materials Company, assignor.)
Connell, Robert, and S. I. Wilson, Portland, Oreg. Waterproofing composition for mixing with cement. 401,063; Apr. 20; Serial No. 456,972; published Feb. 9, 1943. Class 12.
Contact Lens Service. (See Salvatori, Gertrud.)
Corning Glass Works, Corning, N. Y. Rotating seal rings for centrifugal pumps and similar rotating equipment. 401,029; Apr. 20; Serial No. 453,713; published Feb. 9, 1943. Class 35.
Crown Packing Company. (See Bunn, John T.)
Crown Williamette Paper Company, assignor to Blake, Moffitt & Towne, San Francisco, Calif. Paper bags. 166,205; renewed Mar. 27, 1943.
Daniels, Ray. (See Shaferman, L., Inc., assignor.)
Dell Publishing Company, Inc., New York, N. Y. Publication. 401,052; Apr. 20; Serial No. 456,591; published Feb. 2, 1943. Class 38.
De Long Hook and Eye Company, The, Philadelphia, Pa. Hooks and eyes, snap fasteners, safety pins, etc. 172,244; renewed Aug. 28, 1943.
De Long Hook and Eye Company, The, Philadelphia, Pa. Hooks and eyes, snap fasteners, and safety pins. 172,248; renewed Aug. 28, 1943.
Diebold Safe & Lock Company, Canton, Ohio. Safes. 171,871; renewed Aug. 14, 1943.
Disney Hats, New York, N. Y., assignor, by mesne assignments, to The Frank H. Lee Company, Danbury, Conn. Hats and caps. 170,392; renewed July 17, 1943.
Dritz-Traum Company, Inc., assignor to Heirloom Needlework Guild, Inc., New York, N. Y. Combination consisting of a laundry bag and a container equipped with pockets. 401,061; Apr. 20; Serial No. 456,920; published Feb. 9, 1943. Class 2.
Duotone Company, New York, N. Y. Phonograph needles. 401,025; Apr. 20; Serial No. 452,687; published Feb. 9, 1943. Class 36.
Duotone Company, Inc., New York, N. Y. Phonograph needles. 401,021; Apr. 20; Serial No. 449,447; published Feb. 9, 1943. Class 36.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Ready-mixed paint, paste paint, paint enamel and varnish. 165,976; renewed Mar. 27, 1943.
Edelman, George, doing business as George Edelman Co., New York, N. Y. Capes, shampoo capes, beauty parlor and boudoir capes, etc. 401,057; Apr. 20; Serial No. 456,729; published Feb. 2, 1943. Class 39.
Eha, Clifford F. (See Wesley, Edward, & Company, assignor.)
Electro Metallurgical Company, New York, N. Y. Ferrous metal alloys. 401,045; Apr. 20; Serial No. 456,505; published Feb. 9, 1943. Class 14.
Elkton Lithia Bottling Company. (See Flory, I. L.)
Eversharp, Inc. (See Wahl Company, The.)
Fairbanks Company, The, New York, N. Y. Plumbing and steamfitting valves. 401,038; Apr. 20; Serial No. 456,073; published Feb. 9, 1943. Class 13.
Finkl, A., & Sons, Company, Chicago, Ill. Forgings of steel alloy. 166,414; renewed Apr. 3, 1943.
Flintkote Company, The, New York, N. Y. Bituminous roof insulation cement. 401,019; Apr. 20; Serial No. 449,256; published Feb. 9, 1943. Class 12.
Flory, I. L., doing business as Elkton Lithia Bottling Company, Elkton, Va. Ginger ale. 172,231; renewed Aug. 28, 1943.
Food Machinery Corporation, San Jose, Calif. Potatoes. 401,076; Apr. 20; Serial No. 457,201; published Feb. 9, 1943. Class 46.
Frost Cooked Foods, Inc., Boston, Mass. Cooked food products. 401,086; Apr. 20. Class 46.
Gardener, Henry A., Washington, D. C. Waterproofing plastic composition. 167,648–9; renewed May 8, 1943.
Garrett and Co. Inc., asignor to Virginia Dare Extract Company, Inc., Brooklyn, N. Y. Soft drinks. 171,098; renewed July 31, 1943.
Garvin, W. H., doing business as United Marketing Exchange, Delta, Colo. Fresh deciduous fruits. 401,020; Apr. 20; Serial No. 449,401; published Mar. 24, 1942. Class 46.
Geeting & Fromm, Inc., Chicago, Ill. Whiskey. 401,104; Apr. 20. Class 49.
General Electric Company, Schenectady, N. Y. Nonmetallic gear wheels and gear wheel blanks. 166,783; renewed Apr. 17, 1943.
General Electric Company, Schenectady, N. Y. Nonmetallic sheet material. 169,244; renewed June 12, 1943.
Georgia Kaolin Company, Elizabeth, N. J. Clays used as extenders in protective paint coatings. 401,042; Apr. 20; Serial No. 456,365; published Feb. 9, 1943. Class 16.
Glasco Products Company, Chicago, Ill. Glass rods, glass tubes, and glass containers. 401,023; Apr. 20; Serial No. 452,233; published Feb. 9, 1943. Class 33.
Glick, Emil. (See Simons, Ernest, Mfg. Co.)
Harris, Almeida, New York, N. Y. Collapsible bags. 401,049; Apr. 20; Serial No. 456,532; published Feb. 9, 1943. Class 3.
Haslams Limited, Manchester, England. Handkerchiefs. 401,103; Apr. 20. Class 39.
Hedberg, Anshelm F., doing business as A. F. Hedberg & Co., Long Island City, to Anshelm F. Hedberg, Woodside, N. Y. Liquid cleaning preparation. 168,618; renewed May 29, 1943.
Heirloom Needlework Guild, Inc. (See Dritz-Traum Company, Inc.)
Hills Bros. Coffee Inc., San Francisco, Calif. Coffee. 401,087; Apr. 20. Class 46.
Hirsch Shirt Corporation. (See Kingly Shirt Co.)
Hodder, George J., Oakland, Calif. Note paper in the nature of folders. 401,016; Apr. 20; Serial No. 446,837; published Feb. 9, 1943. Class 37.
Holland-Racine Shoes, Inc. (See Meier, John, Shoe Company, assignor.)
Hudnut, Richard, assignor to Richard Hudnut, New York, N. Y. Toilet preparations. 23,368; re-renewed July 18, 1943.
Hunter, H. B., Co., Inc., Norfolk, Va. Specially-prepared food preparations of chocolate, sugar and water. 168,569; renewed May 29, 1943.
Hunziker, Max H., New York, N. Y. Ladies' handbags, purses, bill folds, etc. 401,060; Apr. 20; Serial No. 456,888; published Feb. 9, 1943. Class 3.
Hydraulic Development Corporation, Medford and West Medford, Mass. Pipe-joint packing material. 401,036; Apr. 20; Serial No. 455,233; published Oct. 20, 1942 Class 35.
Hygienic Products Company. (See Mello Company, The, assignor.)
Ideal Cocoa & Chocolate Co., Lititz, Pa., and New York, N. Y., assignor, by mesne assignments, to Wilbur-Suchard Chocolate Company, Inc., Lititz, Pa. Chocolate coating. 172,419; renewed Aug. 28, 1943.
Ideal Cocoa & Chocolate Co., Lititz, Pa., and New York, N. Y., assignor, by mesne assignments, to Wilbur-Suchard Chocolate Company, Inc., Lititz, Pa. Chocolate coating. 172,408–9; renewed Aug. 28, 1943.
International Salt Co. of New York, New York, N. Y., to International Salt Company, Scranton, Pa., successor. Salt. 153,763; renewed Mar. 28, 1943.
International Salt Co. of New York, New York, N. Y., to International Salt Company, Scranton, Pa., successor. Salt. 161,507; renewed Nov. 14, 1942.
Italian Swiss Colony, San Francisco, Calif. Wines. 401,028; Apr. 20; Serial No. 453,546; published Feb. 9, 1943. Class 47.
Jacoel, I., Cable Splicing Equipment Co. (See Jacoel, Isidore.)
Jacoel, Isidore, doing business as I. Jacoel Cable Splicing Equipment Co., Buffalo, N. Y. Tools and apparatus for splicing cables, tow lines, hoisting slings, etc. 401,109; Apr. 20. Class 23.
Kansas Building Materials Company, Topeka, Kans., assignor to Concrete Chemical Company, North Kansas City, Mo. Concrete curing compound. 401,040; Apr. 20; Serial No. 456,270; published Feb. 9, 1943. Class 12.
Kansas City Macaroni & Importing Co., doing business as The American Beauty Macaroni Co., Kansas City, Mo. Egg noodles. 401,106; Apr. 20. Class 46.
Kellogg Company, Battle Creek, Mich. Food for dogs and other carnivorous animals. 401,078; Apr. 20; Serial No. 457,246; published Feb. 9, 1943. Class 46.
Kingly Shirt Co., to Hirsch Shirt Corporation, Chicago, Ill., successor. Men's and boys' dress, negligee, and work shirts. 171,262; renewed July 31, 1943.
Knoxville Glove Company, Knoxville, Tenn. Gloves. 401,066; Apr. 20; Serial No. 457,125; published Feb. 2, 1943. Class 39.
Knoxville Glove Company, Knoxville, Tenn. Gloves. 401,067–8; Apr. 20; Serial Nos. 457,127–8; published Feb. 2, 1943. Class 39.
Knoxville Glove Company, Knoxville, Tenn. Gloves. 401,069; Apr. 20; Serial No. 457,131; published Feb. 2, 1943. Class 39.
Knoxville Glove Company, Knoxville, Tenn. Gloves. 401,070–1; Apr. 20; Serial Nos. 457,136–7; published Feb. 2, 1943. Class 39.
Lee, Frank H., Company, The. (See Disney Hats, assignor.)
Leggett, Francis H., & Company, New York, N. Y. Canned apricots, grapes, plums, etc. 171,247; renewed July 31, 1943.
Locke Insulator Corporation, Baltimore, Md. Insulators for high-tension insulation. 167,606; renewed May 1, 1943.
Lockport Cotton Batting Co., Lockport, N. Y. Fireproofed cotton sheet insulation material. 401,062; Apr. 20; Serial No. 456,945; published Feb. 9, 1943. Class 12.
Magyari, Micheal D., doing business as Ryan Gage Co., Detroit, Mich. Gages. 401,097; Apr. 20. Class 26.
Marmola Company, assignor to Raladam Company, Detroit, Mich. Laxatives. 169,585; renewed June 26, 1943.
Marshall, John T., doing business as The Tally Tax Company, New York, N. Y. Pocket booklets. 401,091; Apr. 20. Class 37.
Maus, Geo. H., Inc., Amsterdam, N. Y. Bamboo rug poles. 401,043; Apr. 20; Serial No. 456,401; published Feb. 9, 1943. Class 50.
McDonnell, Everett N., doing business as McDonnell & Miller, Chicago, Ill. Boiler controls and regulators. 401,024; Apr. 20; Serial No. 452,309; published Feb. 9, 1943. Class 13.
McDonnell & Miller. (See McDonnell, Everett N.)
McKee Glass Company, Jeannette, Pa. Glass dish. 401,039; Apr. 20; Serial No. 456,218; published Feb. 9, 1943. Class 33.
McKelvy, Alfred D., Company, New York, N. Y. Toilet kit containing soap. 401,053; Apr. 20; Serial No. 456,639; published Feb. 9, 1943. Class 4.
McKesson & Robbins, Incorporated, New York, N. Y. Whiskey, brandy, gin, etc. 401,099; Apr. 20. Class 49.
Meier, John, Shoe Company, St. Louis, Mo., assignor, by mesne assignments, to Holland-Racine Shoes, Inc., Holland, Mich. Leather shoes. 170,875; renewed July 24, 1943.
Mello Company, The, La Porte, Ind., assignor, by mesne assignments, to Hygienic Products Company, Canton, Ohio. Washing compound. 171,769; renewed Aug. 14, 1943.
Montgomery, Wm., Company, Philadelphia, Pa. Canned dog food. 401,080; Apr. 20; Serial No. 457,278; published Feb. 9, 1943. Class 46.
Montres Rolex S. A. (Rolex Uhren A. G.) (Rolex Watch Co. Ltd.), Geneva, Switzerland. Watches. 401,084; Apr. 20. Class 27.
Multiple V-Belt Drive Association, Chicago, Ill. Driving belts for machinery. 401,090; Apr. 20. Class 35.
National Almond Products Co. Inc., to National Almond Products Co., Inc., Brooklyn, N. Y. Almond paste, almonds salted and in their natural state, kernel paste, etc. 172,254; renewed Aug. 28, 1943.
National Kellastone Co., Chicago, Ill., assignor, by mesne assignments, to Westvaco Chlorine Products Corporation, New York, N. Y. Building cement and stucco. 170,126; renewed July 10, 1943.
National Lead Company. (See Titanium Pigment Company, Inc., assignor.)
Nutting, Walter M., doing business as Nutting Truck Company, assignor to Nutting Truck and Caster Company, Faribault, Minn. Floor trucks. 170,547; renewed July 17, 1943.
Orchard Paper Company, St. Louis, Mo. Twine. 172,340; renewed Aug. 28, 1943.

Parker Brothers Inc., Portland, Maine, and Salem, Mass. Game played with a spinning bobbin. 401,031; Apr. 20; Serial No. 454,219; published Feb. 9, 1943. Class 22.

Pennsylvania Coal Products Company, Petrolia, Pa. Synthetic resins, organic resinous condensation products, polyhydroxybenzene resin condensation products, etc. 401,050; Apr. 20; Serial No. 456,542; published Feb. 9, 1943. Class 1.

Perkins, Charles B., Co., Boston, Mass. Smoking tobacco. 170,367; renewed July 17, 1943.

Philco Corporation, Philadelphia, Pa. Sandpaper and rubbing compound. 401,018; Apr. 20; Serial No. 449,151; published Feb. 9, 1943. Class 4.

Philco Corporation, Philadelphia, Pa. Glass trays and glass shelving. 401,032; Apr. 20; Serial No. 454,378; published Feb. 9, 1943. Class 33.

Philco Corporation, Philadelphia, Pa. Lacquers, stains, paint thinners, etc. 401,033; Apr. 20; Serial No. 454,608; published Feb. 9, 1943. Class 16.

Pittman Chemical Company, Birmingham, Ala. Fluid preparation for killing house flies, mosquitoes, and other insects. 164,106; renewed Feb. 13, 1943.

Polak's Frutal Works, Amersfoort, Netherlands, assignor to Polak's Frutal Works, Inc., Long Island City, N. Y. Natural and synthetic essential oils and materials suitable for the production of perfumes. 170,450; renewed July 17, 1943.

Raladam Company. (See Marmola Company, assignor.)

Refiners Lubricating Co., Inc., assignor to Refiners Lubricating Company, New York, N. Y. Chemical compound. 401,098; Apr. 20. Class 6.

Remington Rand Inc., Buffalo, N. Y. Drawing fixture for supporting duplicator stencils. 401,081; Apr. 20; Serial No. 457,284; published Feb. 9, 1943. Class 26.

Rollins Hosiery Mills, Inc., Des Moines, Iowa. Hosiery. 401,089; Apr. 20. Class 39.

Ruberoid Co., The, Boundbrook, N. J., and New York, N. Y. Thermal insulation material. 401,046; Apr. 20; Serial No. 456,512; published Feb. 9, 1943. Class 12.

Ryan Gage Co. (See Magyari, Micheal D.)

Salvatori, Gertrud, doing business as Contact Lens Service, New York, N. Y. Contact lenses. 401,017; Apr. 20; Serial No. 447,672; published Feb. 9, 1943. Class 26.

Schilling Corset Co., assignor to American Lady Corset Co., Detroit, Mich. Corsets. 23,242; re-renewed June 27, 1943.

Shafarman, L., Inc., assignor, by mesne assignments, to Ray Daniels, New York, N. Y. Headwear. 172,093; renewed Aug. 21, 1943.

Sherman, Sol, doing business as Sherman Bows, New York, N. Y. Swimming suits for men, women, and children; swimming trunks, beach robes, etc. 401,059; Apr. 20; Serial No. 456,835; published Feb. 2, 1943. Class 39.

Simons, Ernest, Mfg. Co., Port Chester, N. Y., to Emil Glick, doing business as Glick Sportwear Co., Cleveland, Ohio, successor. Boys' shirts and boys' blouses. 161,627; renewed Nov. 14, 1942.

Socony-Vacuum Oil Company. (See Standard Oil Company of New York.)

Southern Cotton Oil Company, The, Jersey City, N. J., New York, N. Y., New Orleans, La., Savannah, Ga., and Chicago, Ill., to The Southern Cotton Oil Company, New Orleans, La. Shortening or fat. 167,017; renewed Apr. 24, 1943.

Southern Cotton Oil Company, The, Jersey City and Bayonne, N. J., New York, N. Y., Gretna, La., Savannah, Ga., and Chicago, Ill., to The Southern Cotton Oil Company, New Orleans, La. Prepared fatty oleaginous or unctuous food substances. 168,645; renewed May 29, 1943.

Southern Cotton Oil Company, The, Jersey City and Bayonne, N. J., New York, N. Y., Gretna, La., Savannah, Ga., and Chicago, Ill., assignor to The Southern Cotton Oil Company, New Orleans, La. Lard substitute and shortening. 169,222; renewed June 12, 1943.

Standard Cotton Products Co., Inc., Flint, Mich. Insulation batts. 401,047; Apr. 20; Serial No. 456,516; published Feb. 9, 1943. Class 12.

Standard Development Company. (See Standard Oil Company, assignor.)

Standard Laboratories, Inc., Los Angeles, Calif., to Standard Laboratories, Inc., New York, N. Y. Pomades for the hair. 169,867; renewed July 3, 1943.

Standard Oil Company (Incorporated in New Jersey), Bayonne, N. J., assignor to Standard Oil Company of New Jersey, Wilmington, Del. Lubricating oils. 166,677; renewed Apr. 10, 1943.

Standard Oil Company (Incorporated in New Jersey), assignor to Standard Development Company, Bayonne, N. J., assignor, by mesne assignments, to Standard Oil Company of New Jersey, Wilmington, Del. Permanent foam for protection and preventing evaporation of volatile liquids. 167,852; renewed May 8, 1943.

Standard Oil Company of New York, New York, N. Y., by change of name to Socony-Vacuum Oil Company, Incorporated. Petroleum and products of petroleum. 170,325; renewed July 10, 1943.

Stauffer Chemical Company. (See Walnut Growers Spray Manufacturing Company, assignor.)

Steinert, M., & Sons Co., assignor, by mesne assignments, to M. Steinert & Sons Company, Inc., Boston, Mass. Player pianos, piano players, pianos, organs. 165,330; renewed Mar. 6, 1943.

Stubbs, Peter, Limited, to Peter Stubbs Limited, Warrington and Rotherham, England. Steel, steel wire, tools, etc. 22,752–3; re-renewed Apr. 4, 1943.

Sugar Beet Products Company, Saginaw, Mich. Powdered hand soap. 401,044; Apr. 20; Serial No. 456,439; published Feb. 9, 1943. Class 4.

Superb Glove Company, The, Johnstown, N. Y. Men's gloves. 401,072; Apr. 20; Serial No. 457,147; published Feb. 2, 1943. Class 39.

Superior Separator Company, Minneapolis, Minn. Grain cleaning, scalping, and separating machinery. 401,088; Apr. 20. Class 23.

Tally Tax Company. (See J. T. Marshall.)

Tioga Mill & Elevator Co., by change of name to Tioga Mills Inc., Waverly, New York, N. Y. Poultry feed. 172,434; renewed Aug. 28, 1943.

Titanium Pigment Company, Inc., Niagara Falls, assignor to National Lead Company, New York, N. Y. Soap, glass polish, metal polish, etc. 171,778; renewed Aug. 14, 1943.

Toledo Scale Company, Toledo, Ohio. Weighing scales. 401,074; Apr. 20; Serial No. 457,177; published Feb. 9, 1943. Class 26.

Tomlinson, George E., Winchester, Ky. Take-down tables. 172,362; renewed Aug. 28, 1943.

Tremco Manufacturing Company, The, Cleveland, Ohio. Paint. 401,058; Apr. 20; Serial No. 456,758; published Feb. 9, 1943. Class 16.

Troy, Seymour, New York, N. Y. Shoes. 401,065; Apr. 20; Serial No. 457,020; published Feb. 2, 1943. Class 39.

United-Carr Fastener Corporation, Cambridge, Mass. Separable fasteners particularly of the rotary operative type variously applied to articles of manufacture in the industrial arts. 401,037; Apr. 20; Serial No. 455,990; published Feb. 9, 1943. Class 13.

United Marketing Exchange. (See Garvin, W. H.)

United States Pumice Supply Co., Los Angeles, Calif. Blocks of natural pumice stone. 401,054–5; Apr. 20; Serial Nos. 456,641–2; published Feb. 9, 1943. Class 4.

Vapo-Cresolene Company, The, Stanley, N. J., and New York, to The Vapo-Cresolene Company, New York, N. Y. Medical and disinfecting compound and apparatus. 23,441; re-renewed Aug. 1, 1943.

Virginia Dare Extract Company. (See Garrett and Co. Inc., assignor.)

Wabasha Roller Mill Company, Wabasha, Minn. Wheat flour. 172,476; renewed Aug. 22, 1943.

Wahl Company, The, Chicago, Ill., by change of name and merger to Eversharp, Inc. Leads for mechanical pencils. 165,419; renewed Mar. 6, 1943.

Walnut Growers Spray Manufacturing Company, Los Angeles, assignor, by mesne assignments, to Stauffer Chemical Company, San Francisco, Calif. Insecticide. 165,511; renewed Mar. 13, 1943.

Washington Dehydrated Food Co., Yakima, Wash. Dehydrated apples. 170,508; renewed July 17, 1943.

Wattles, Georges M., Marinette, Wis. Coal and coating compounds. 401,083; Apr. 20. Class 1.

Weiner Blouse Corporation, New York, N. Y. Women's blouses and shirts. 401,092; Apr. 20. Class 39.

Wesley, Edward, & Company, assignor to Clifford F. Ehn, of Cincinnati, Ohio, Cincinnati, Ohio, assignor, by mesne assignments, to Wueth Chemical Company, Jersey City, N. J. Hair-combing cream. 169,617; renewed June 26, 1943.

Westvaco Chlorine Products Corporation. (See National Kellastone Co., assignor.)

White, H. N., Company, The, Cleveland, Ohio. Musical instruments. 165,363; renewed Mar. 6, 1943.

Wilbur-Suchard Chocolate Company, Inc. (See Ideal Cocoa & Chocolate Co., assignor.)

Wilson Manufacturing Co., Boston, Mass. Pocketbooks, billfolds and combined pass case, and billfolds. 401,079; Apr. 20; Serial No. 457,262; published Feb. 9, 1943. Class 3.

Wilson, S. I. (See Connell, R., and Wilson.)

Wood, Gar, Industries, Inc. (See Wood Hydraulic Hoist & Body Company.)

Wood Hydraulic Hoist & Body Company, Detroit, Mich., by change of name to Gar Wood Industries, Inc. Hydraulic hoists and their parts. 170,066; renewed July 10, 1943.

Wueth Chemical Company. (See Wesley, Edward, & Company, assignor.)

Zallea Brothers & Johnson, Wilmington, Del. Pipe expansion joints, metal piping, and valves. 401,041; Apr. 20; Serial No. 456,299; published Feb. 9, 1943. Class 13.

Ziff-Davis Publishing Company, Chicago, Ill. Periodical. 401,064; Apr. 20; Serial No. 457,024; published Feb. 2, 1943. Class 38.

Zurn, J. A., Manufacturing Company, Erie, Pa. Grease traps. 401,026; Apr. 20; Serial No. 453,024; published Feb. 9, 1943. Class 13.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal and coating compounds. G. M. Wattles. 401,083; Apr. 20.

Resins, organic resinous condensation products, polyhydroxy-benzene resin condensation products, etc., Synthetic. Pennsylvania Coal Products Company. 401,050; Apr. 20; Serial No. 456,542; published Feb. 9, 1943.

CLASS 2

Bags, Burlap and cotton. American-National Bag & Burlap Co. 401,048; Apr. 20; Serial No. 456,524; published Dec. 22, 1942.

Bags, Paper. Crown Williamette Paper Company. 166,205; renewed Mar. 27, 1943.

Combination consisting of a laundry bag and a container equipped with pockets. Dritz-Traum Company. 401,061; Apr. 20; Serial No. 456,920; published Feb. 9, 1943.

CLASS 3

Bags, Collapsible. A. Harris. 401,049; Apr. 20; Serial No. 456,532; published Feb. 9, 1943.

Handbags, purses, bill folds, etc., Ladies'. M. H. Hunziker. 401,060; Apr. 20; Serial No. 456,888; published Feb. 9, 1943.

Pocketbooks, billfolds and combined pass case, and billfolds. Wilson Manufacturing Co. 401,079; Apr. 20; Serial No. 457,262; published Feb. 9, 1943.

CLASS 4

Blocks of natural pumice stone. United States Pumice Supply Co. 401,054–5; Apr. 20; Serial Nos. 456,641–2; published Feb. 9, 1943.

Cleaning preparation, Liquid. A. F. Hedberg. 168,618; renewed May 29, 1943.

Sandpaper and rubbing compound. Philco Corporation. 401,018; Apr. 20; Serial No. 449,151; published Feb. 9, 1943.

Soap, Powdered hand. Sugar Beet Products Company. 401,044; Apr. 20; Serial No. 456,439; published Feb. 9, 1943.

Soap, glass polish, metal polish, etc. Titanium Pigment Company. 171,778; renewed Aug. 14, 1943.

Toilet kit containing soap. Alfred D. McKelvy Company. 401,053; Apr. 20; Serial No. 456,639; published Feb. 9, 1943.

Washing compound. Mello Company. 171,769; renewed Aug. 14, 1943.

CLASSES 4 AND 6

Toilet preparations. R. Hudnut. 23,368; re-renewed July 18, 1943.

CLASS 6

Chemical compound. Refiners Lubricating Co. 401,098; Apr. 20.

Cream, Hair-combing. Edward Wesley & Company. 169,617; renewed June 26, 1943.

Insecticide. Walnut Growers Spray Manufacturing Company. 165,511; renewed Mar. 13, 1943.

Laxatives. Marmola Company. 169,585; renewed June 26, 1943.

Medicinal preparation. Bristol-Myers Company. 167,912; renewed May 8, 1943.

Oils and materials suitable for the production of perfumes, Natural and synthetic essential. Polak's Frutal Works. 170,450; renewed July 17, 1943.

Pomades for the hair. Standard Laboratories, Inc. 169,867; renewed July 3, 1943.

Preparation for killing house flies, mosquitoes, and other insects, Fluid. Pittman Chemical Company. 164,106; renewed Feb. 13, 1943.

Remedy for the relief of coughs, cold, hoarseness, etc. Bristol-Myers Company. 167,744; renewed May 8, 1943.

CLASSES 6 AND 44

Medical and disinfecting compound and apparatus. Vapo-Cresolene Company. 23,441; re-renewed Aug. 1, 1943.

CLASS 7

Rope. Columbian Rope Company. 170,136; renewed July 10, 1943.

Twine. Orchard Paper Company. 172,340; renewed Aug. 28, 1943.

CLASS 12

Bituminous roof insulation cement. Flintkote Company. 401,019; Apr. 20; Serial No. 449,256; published Feb. 9, 1943.

Cement and stucco, Building. National Kellastone Co. 170,126; renewed July 10, 1943.

Concrete curing compound. Kansas Building Materials Company. 401,040; Apr. 20; Serial No. 456,270; published Feb. 9, 1943.

Insulation batts. Standard Cotton Products Co. 401,047; Apr. 20; Serial No. 456,516; published Feb. 9, 1943.

Insulation material, Fireproofed cotton sheet. Lockport Cotton Batting Co. 401,062; Apr. 20; Serial No. 456,945; published Feb. 9, 1943.

Insulation material, Thermal. Ruberoid Co. 401,046; Apr. 20; Serial No. 456,512; published Feb. 9, 1943.

Plastic composition, Waterproofing. H. A. Gardner. 167,648–9; renewed May 8, 1943.

Waterproofing composition for mixing with cement. R. Connell and S. I. Wilson. 401,063; Apr. 20; Serial No. 456,972; published Feb. 9, 1943.

CLASS 13

Boiler controls and regulators. E. N. McDonnell. 401,024; Apr. 20; Serial No. 452,309; published Feb. 9, 1943.

Fasteners particularly of the rotary operative type variously applied to articles of manufacture in the industrial arts, Separable. United-Carr Fastener Corporation. 401,037; Apr. 20; Serial No. 455,990; published Feb. 9, 1943.

Pipe expansion joints, metal piping, and valves. Zallea Brothers & Johnson. 401,041; Apr. 20; Serial No. 456,299; published Feb. 9, 1943.

Plumbing and steamfitting valves. Fairbanks Company. 401,038; Apr. 20; Serial No. 456,073; published Feb. 9, 1943.

Sprinklers, hose nozzles, hose couplings, etc., Lawn. Chicago Flexible Shaft Company. 401,051; Apr. 20; Serial No. 456,586; published Feb. 9, 1943.

Traps, Grease. J. A. Zurn Manufacturing Company. 401,026; Apr. 20; Serial No. 453,024; published Feb. 9, 1943.

CLASS 14

Alloy, Forgings of steel. A. Finkl & Sons Company. 166,414; renewed Apr. 3, 1943.

Alloys, Ferrous metal. Electro Metallurgical Company. 401,045; Apr. 20; Serial No. 456,505; published Feb. 9, 1943.

CLASSES 14 AND 23

Steel, steel wire, tools, etc. Peter Stubbs, Limited. 22,752–3; re-renewed Apr. 4, 1943.

CLASS 15

Oils, Lubricating. Standard Oil Company. 166,677; renewed Apr. 10, 1943.

Petroleum and products of petroleum. Standard Oil Company of New York. 170,325; renewed July 10, 1943.

CLASS 16

Clays used as extenders in protective paint coatings. Georgia Kaolin Company. 401,042; Apr. 20; Serial No. 456,365; published Feb. 9, 1943.

Enamels, Paint. Baker Paint & Varnish Co. 169,873; renewed July 3, 1943.

Lacquers, stains, paint thinners, etc. Philco Corporation. 401,033; Apr. 20; Serial No. 454,608; published Feb. 9, 1943.

Paint. Tremco Manufacturing Company. 401,058; Apr. 20; Serial No. 456,758; published Feb. 9, 1943.

Paint, Asphaltic. Collins Oil & Manufacturing Co. 401,102; Apr. 20.

Paint, paste paint, paint enamel, and varnish, Ready-mixed. E. I. du Pont de Nemours and Company. 165,976; renewed Mar. 27, 1943.

Paints and painters' materials. Baker Paint & Varnish Co. 169,872; renewed July 3, 1943.

Stain, Varnish. Baker Paint & Varnish Co. 169,484; renewed June 19, 1943.

CLASS 17

Tobacco, Smoking. Charles B. Perkins Co. 170,367; renewed July 17, 1943.

CLASS 19

Trucks, Floor. W. M. Nutting. 170,547; renewed July 17, 1943.

CLASS 21

Electrical connectors. Burndy Engineering Company. 401,075; Apr. 20; Serial No. 457,197; published Feb. 9, 1943.

Insulators for high-tension insulation. Locke Insulator Corporation. 167,606; renewed May 1, 1943.

CLASS 22

Game played with a spinning bobbin. Parker Brothers Inc. 401,031; Apr. 20; Serial No. 454,219; published Feb. 9, 1943.

Toys, Cardboard structural. Arvey Corporation. 401,030; Apr. 20; Serial No. 454,128; published Aug. 25, 1942.

CLASS 23

Cleaning, scalping, and separating machinery, Grain. Superior Separator Company. 401,088; Apr. 20.
Gear wheels and gear wheel blanks, Nonmetallic. General Electric Company. 166,783; renewed Apr. 17, 1943.
Hoists and their parts, Hydraulic. Wood Hydraulic Hoist & Body Company. 170,066; renewed July 10, 1943.
Strap duplicators, stop countersinks, back countersinks, etc. Aircraft Tools, Inc. 401,108; Apr. 20.
Tools and apparatus for splicing cables, tow lines, hoisting slings, etc. I. Jacoel. 401,109; Apr. 20.

CLASS 25

Safes. Diebold Safe & Lock Company. 171,871; renewed Aug. 14, 1943.

CLASS 26

Drawing fixture for supporting duplicator stencils. Remington Rand Inc. 401,081; Apr. 20; Serial No. 457,284; published Feb. 9, 1943.
Gages. M. D. Magyari. 401,097; Apr. 20.
Lenses, Contact. G. Salvatori. 401,017; Apr. 20; Serial No. 447,672; published Feb. 9, 1943.
Scales, Weighing. Toledo Scale Company. 401,074; Apr. 20; Serial No. 457,177; published Feb. 9, 1943.

CLASS 27

Watches. Montres Rolex S. A. (Rolex Uhren A. G.) (Rolex Watch Co. Ltd.) 401,084; Apr. 20.

CLASS 32

Shades, Window. Columbia Mills, Inc. 401,105; Apr. 20.
Tables, Take-down. G. E. Tomlinson. 172,362; renewed Aug. 28, 1943.

CLASS 33

Glass dish. McKee Glass Company. 401,039; Apr. 20; Serial No. 456,218; published Feb. 9, 1943.
Glass rods, glass tubes, and glass containers. Glasco Products Company. 401,023; Apr. 20; Serial No. 452,233; published Feb. 9, 1943.
Glass trays and glass shelving. Philco Corporation. 401,032; Apr. 20; Serial No. 454,378; published Feb. 9, 1943.

CLASS 34

Furnaces. Borg-Warner Corporation. 401,013–14; Apr. 20; Serial Nos. 445,680–1; published Feb. 9, 1943.

CLASS 35

Belts for machinery, Driving. Multiple V-Belt Drive Association. 401,090; Apr. 20.
Pipe-joint packing material. Hydraulic Development Corporation. 401,036; Apr. 20; Serial No. 455,233; published Oct. 20, 1942.
Seal rings for centrifugal pumps and similar rotating equipment, Rotating. Corning Glass Works. 401,029; Apr. 20; Serial No. 453,713; published Feb. 9, 1943.

CLASS 36

Musical instruments. H. N. White Company. 165,363; renewed Mar. 6, 1943.
Needles, Phonograph. Duotone Company. 401,024; Apr. 20; Serial No. 449,447; published Feb. 9, 1943.
Phonograph needles. Duotone Company. 401,025; Apr. 20; Serial No. 452,687; published Feb. 9, 1943.
Pianos, piano players, pianos, organs, Player. M. Steinert & Sons Co. 165,330; renewed Mar. 6, 1943.

CLASS 37

Booklets, Pocket. J. T. Marshall. 401,091; Apr. 20.
Leads for mechanical pencils. Wahl Company. 165,419; renewed Mar. 6, 1943.
Paper and envelopes, Writing. J. R. Brundage, Inc. 401,035; Apr. 20; Serial No. 455,045; published Feb. 9, 1943.
Paper in the nature of folders, Note. G. J. Hodder. 401,016; Apr. 20; Serial No. 446,837; published Feb. 9, 1943.
Paper, manila paper, envelopes, etc., Wrapping. Butler Paper Corporation. 401,034; Apr. 20; Serial No. 454,822; published Feb. 9, 1943.
Paper napkins, and tablecovers, crepe paper, etc. American Tissue Mills. 401,085; Apr. 20.
Paper, Writing and printing. American Writing Paper Company. 165,836; renewed Mar. 20, 1943.

CLASS 38

Books and series of books, Individual. W. J. Black. 401,094; Apr. 20.
Cartoons, Series of. Chicago Tribune-New York News Syndicate, Inc. 401,073; Apr. 20; Serial No. 457,167; published Feb. 9, 1943.
Magazine. Bio-Dynamic Farming and Gardening Association, Inc. 401,093; Apr. 20.
Newspaper. Bangor Publishing Company. 165,252; renewed Mar. 6, 1943.
Periodical. Ziff-Davis Publishing Company. 401,064; Apr. 20; Serial No. 457,024; published Feb. 2, 1943.
Publication. Christian Digest Publishing Company. 401,095; Apr. 20.
Publication. Dell Publishing Company. 401,052; Apr. 20; Serial No. 456,591; published Feb. 2, 1943.

CLASS 39

Blouses and shirts, Women's. Weiner Blouse Corporation. 401,092; Apr. 20.
Capes, shampoo capes, beauty parlor and boudoir capes, etc. G. Edelman. 401,057; Apr. 20; Serial No. 456,729; published Feb. 2, 1943.
Corsets. Schilling Corset Co. 23,242; re-renewed June 27, 1943.
Corsets, corset waists, brassières, etc. American Lady Corset Co. 166,028; renewed Mar. 27, 1943.
Gloves. Knoxville Glove Company. 401,066; Apr. 20; Serial No. 457,125; published Feb. 2, 1943.
Gloves. Knoxville Glove Company. 401,067–8; Apr. 20; Serial Nos. 457,127–8; published Feb. 2, 1943.
Gloves. Knoxville Glove Company. 401,069; Apr. 20; Serial No. 457,131; published Feb. 2, 1943.
Gloves. Knoxville Glove Company. 401,070–1; Apr. 20; Serial Nos. 457,136–7; published Feb. 2, 1943.
Gloves, Men's. Superb Glove Company. 401,072; Apr. 20; Serial No. 457,147; published Feb. 2, 1943.
Handkerchiefs. Haslams Limited. 401,103; Apr. 20.
Hats and caps. Capson Hat Company. 401,015; Apr. 20; Serial No. 446,732; published Jan. 13, 1942.
Hats and caps. Disney Hats. 170,392; renewed July 17, 1943.
Headwear. L. Shafarman, Inc. 172,093; renewed Aug. 21, 1943.
Hosiery. Burson Knitting Company. 164,857; renewed Feb. 27, 1943.
Hosiery. Rollins Hosiery Mills, Inc. 401,089; Apr. 20.
Shirts and boys' blouses, Boys'. Ernest Simons Mfg. Co. 161,627; renewed Nov. 14, 1942.
Shirts, Men's and boys' dress, negligee, and work. Kingly Shirt Co. 171,262; renewed July 31, 1943.
Shoes. S. Troy. 401,065; Apr. 20; Serial No. 457,020; published Feb. 2, 1943.
Shoes, Leather. John Meier Shoe Company. 170,875; renewed July 24, 1943.
Soles of leather for boots and shoes, Cut. Barbour-Welting Company. 172,125; renewed Aug. 21, 1943.
Suits for men, women and children; swimming trunks, beach robes, etc., Swimming. S. Sherman. 401,059; Apr. 20; Serial No. 456,835; published Feb. 2, 1943

CLASS 40

Hooks and eyes, snap fasteners, safety pins, etc. De Long Hook and Eye Company. 172,244; renewed Aug. 28, 1943.
Hooks and eyes, snap fasteners, and safety pins. De Long Hook and Eye Company. 172,248; renewed Aug. 28, 1943.

CLASS 42

Piece goods, Cotton. Cohn-Hall-Marx Co. 170,788; renewed July 24, 1943.

CLASS 45

Ginger ale. I. L. Flory. 172,231; renewed Aug. 28, 1943.
Soft drinks. Garrett and Co. Inc. 171,098; renewed July 31, 1943.

CLASS 46

Almond paste, almonds salted and in their natural state, kernel paste, etc. National Almond Products Co. Inc. 172,254; renewed Aug. 28, 1943.
Apples, Dehydrated. Washington Dehydrated Food Co. 170,508; renewed July 17, 1943.
Canned apricots, grapes, plums, etc. F. H. Leggett & Company. 171,247; renewed July 31, 1943.
Canned citrus fruit juices. California Fruit Processors, Inc. 401,082; Apr. 20; Serial No. 457,540; published Feb. 9, 1943.
Canned dog food. Wm. Montgomery Company. 401,080; Apr. 20; Serial No. 457,278; published Feb. 9, 1943.
Canned vegetables and fruits. Bay Shore Canning Company. 401,077; Apr. 20; Serial No. 457,234; published Feb. 9, 1943.
Cheese and canned apple juice. Canada Packers, Inc. 401,100; Apr. 20.
Chocolate coating. Ideal Cocoa & Chocolate Co. 172,408–9; renewed Aug. 28, 1943.
Chocolate coating. Ideal Cocoa & Chocolate Co. 172,419; renewed Aug. 28, 1943.
Coffee. Hills Bros. Coffee Inc. 401,087; Apr. 20.
Feed for animals, Prepared. Arcady Farms Milling Company. 171,029; renewed July 31, 1943.
Feed, Poultry. Tioga Mill & Elevator Co. 172,434; renewed Aug. 28, 1943.
Flour, Wheat. Ballard & Ballard Co. 170,705; renewed July 24, 1943.
Flour, Wheat. Ballard & Ballard Company. 170,883; renewed July 24, 1943.
Flour, Wheat. Ballard & Ballard Co. 172,473; renewed Aug. 28, 1943.
Flour, Wheat. Wabasha Roller Mill Company. 172,476; renewed Aug. 28, 1943.
Food for dogs and other carnivorous animals. Kellogg Company. 401,078; Apr. 20; Serial No. 457,246; published Feb. 9, 1943.

Food preparations of chocolate, sugar and water, Specially prepared. H. B. Hunter Co. 168,569; renewed May 29, 1943.
Food products, Cooked. Frost Cooked Foods, Inc. 401,086; Apr. 20.
Food substances, Prepared fatty oleaginous or unctuous. Southern Cotton Oil Company. 168,645; renewed May 29, 1943.
Fruits, Fresh deciduous. W. H. Garvin. 401,020; Apr. 20; Serial No. 449,401; published Mar. 24, 1942.
Honey. F. E. Boyden-Hansen Co., Ltd. 401,107; Apr. 20
Lard substitute and shortening. Southern Cotton Oil Company. 169,222; renewed June 12, 1943.
Noodles, Egg. Kansas City Macaroni & Importing Co. 401,106; Apr. 20.
Potatoes. Food Machinery Corporation. 401,076; Apr 20; Serial No. 457,201; published Feb. 9, 1943.
Salt. International Salt Co. of New York. 153,763; renewed Mar. 28, 1943.
Salt. International Salt Co. of New York. 161,507; renewed Nov. 14, 1942.
Shortening or fat. Southern Cotton Oil Company. 167,017; renewed Apr. 24, 1943.
Tonic food in biscuit form for birds. Burnett's Incorported. 401,022; Apr. 20; Serial No. 449,891; published Feb. 9, 1943.
Vegetables, Fresh. J. T. Bunn. 401,056; Apr. 20; Serial No. 456,710; published Feb. 9, 1943.

CLASS 47

Wines. Bisceglia Brothers Wine Co. 401,027; Apr. 20; Serial No. 453,317; published Feb. 2, 1943.
Wines. California Growers Wineries. 401,096; Apr. 20.
Wines. California Valley Wine Co. 401,101; Apr. 20.
Wines. Italian Swiss Colony. 401,028; Apr. 20; Serial No. 453,546; published Feb. 9, 1943.

CLASS 49

Whiskey. Geeting & Fromm, Inc. 401,104; Apr. 20.
Whiskey, brandy, gin, etc. McKesson & Robbins, Incorporated. 401,099; Apr. 20.

CLASS 50

Bamboo rug poles. Geo. H. Maus, Inc. 401,043; Apr. 20; Serial No. 456,401; published Feb. 9, 1943.
Foam for protection and preventing evaporation of volatile liquids. Permanent. Standard Oil Company. 167,852; renewed May 8, 1943.
Material, Nonmetallic sheet. General Electric Company 169,244; renewed June 12, 1943.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 20TH DAY OF APRIL, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Chrysler Corporation. (See Jewell, Bernard W., assignor.)
Case, Nelson P., Great Neck, N. Y., assignor to Hazeltine Corporation. Signal-translating system. Re. 22,302; Apr. 20.
Container Corporation of America. (See Van Saun, Raymond H., assignor.)
Hazeltine Corporation. (See Case, Nelson P., assignor.)
Jewell, Bernard W., Dayton, Ohio, assignor to Chrysler Corporation, Detroit, Mich. Air conditioning unit. Re. 22,303; Apr. 20.
Lee, George W., Willow Springs, N. C. Plow. Re. 22,304; Apr. 20.
Van Saun, Raymond H., assignor to Container Corporation of America, Chicago, Ill. Interior packing device. Re. 22,305; Apr. 20.

LIST OF PLANT PATENTEES

Armstrong Nurseries, Inc. (See Reinecke, John M., assignor.)
Reinecke, John M., San Diego, assignor to Armstrong Nurseries, Inc., Ontario, Calif. Avocado tree. 576; Apr. 20.

LIST OF DESIGN PATENTEES

Barbieri, Nicholas, Providence, R. I. Brooch or similar article. 135,513; Apr. 20.
Barbieri, Nicholas, Providence, R. I. Brooch or similar article. 135,514; Apr. 20.
Barbieri, Nicholas, Providence, R. I. Brooch or similar article. 135,515; Apr. 20.
Barbieri, Nicholas, Providence, R. I. Brooch or similar article. 135,516; Apr. 20.
Braddon, Frederick D., Babylon, assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Repeater compass indicator. 135,533; Apr. 20.
Brown, Robert H., Indianapolis, Ind. Aeroplane. 135,534; Apr. 20.
Cadwallader, Robert, Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Automobile bumper. 135,535; Apr. 20.
Cashin, Bonnie, New York, N. Y. Dress. 135,543; Apr. 20.
Cashin, Bonnie, New York, N. Y. Dress. 135,544; Apr. 20.
Cashin, Bonnie, New York, N. Y. Dress. 135,545; Apr. 20.
Cashin, Bonnie, New York, N. Y. Dress. 135,546; Apr. 20.
Chrysler Corporation. (See Cadwallader, Robert, assignor.)
Cleaver-Brooks Company. (See Stevens, Clifford B., assignor.)
De Lanty, Loren J., Baldwin, assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Repeater compass course setting indicator. 135,536; Apr. 20.
Downs, Millson W., Los Angeles, Calif. Portable building. 135,537; Apr. 20.
Duffy, Joseph F., New York, N. Y. Pin or similar article. 135,517; Apr. 20.
Dworzynski, Theodore J., Washington, Ind. Badge. 135,518; Apr. 20.
Exhibit Supply Company, The. (See Meyer, John F., assignor.)
Galvin Manufacturing Corporation. (See Mitchell, Donald H., assignor.)
Gross, Henry R., Chicago, Ill. Automobile light. 135,547; Apr. 20.
Gross, Henry R., Chicago, Ill. Automobile lamp. 135,548; Apr. 20.
Handler, Elliot, Los Angeles, Calif. Ceramic brooch pin. 135,519; Apr. 20.
Handler, Elliot, Los Angeles, Calif. Ceramic brooch pin. 135,520; Apr. 20.
Handler, Elliot, Los Angeles, Calif. Ceramic brooch pin. 135,521; Apr. 20.
Handler, Elliot, Los Angeles, Calif. Ceramic brooch pin. 135,522; Apr. 20.
Handler, Elliot, Los Angeles, Calif. Ceramic brooch pin. 135,523; Apr. 20.
Harpignies, Zinaida, Kew Gardens, N. Y. Hat. 135,549. Apr. 20.
Harrison, Monroe, Chicago, Ill. Beverage dispenser. 135,506; Apr. 20.
Hillenbrand, William A., assignor to Hill-Rom Company, Inc., Batesville, Ind. Over-bed table. 135,507; Apr. 20.
Hill-Rom Company. (See Hillenbrand, William A., assignor.)
Johnstone, Fleurette C., Pasadena, Calif. Infant's weaning tray. 135,524; Apr. 20.
Jones, Edward L., Richmond, Va. Combination lamp, perpetual calendar, and container. 135,550; Apr. 20.
Jurkops, Helen L., Washington, D. C., assignor to United States of America, as represented by the United States Director of Civilian Defense. Applique emblem or similar article. 135,525; Apr. 20.
Kaplan, Sholom E., Hartford, Conn. Clothespin bag. 135,538; Apr. 20.
Kaplan, Sholom E., Hartford, Conn. Clothespin bag. 135,539; Apr. 20.
Krol, Edward T., Sacramento, Calif. Locket or similar article. 135,526; Apr. 20.
Loy, John G., assignor to Porcelain Products, Inc., Findlay, Ohio. Wall box. 135,527; Apr. 20.
Meyer, John F., assignor to The Exhibit Supply Company, Chicago, Ill. Switch enclosure. 135,528; Apr. 20.
Mildwoff, George H., New York, N. Y. Table. 135,508; Apr. 20.
Mitchell, Donald H., assignor to Galvin Manufacturing Corporation, Chicago, Ill. Portable radio device. 135,540; Apr. 20.
Moore, George H., Brooklyn, N. Y. Badge or similar article. 135,529; Apr. 20.
Porcelain Products, Inc. (See Loy, John G., assignor.)
Roth, Morris B., Chicago, Ill. Spectacle guard. 135,509; Apr. 20.
Rubin, Daniel, New York, N. Y. Handbag. 135,530; Apr. 20.
Sanders, Altina, New York, N. Y. Spectacle frame. 135,510; Apr. 20.
Scott, Jack V., Philadelphia, Pa. Combined bookmark and greeting card. 135,551; Apr. 20.
Smith, Harry D., West Henrietta, N. Y. Coin holder. 135,541; Apr. 20.
Specialties Manufacturing Company. (See Werry, John A., assignor.)
Sperry Gyroscope Company. (See Braddon, Frederick D., assignor.)
Sperry Gyroscope Company. (See De Lanty, Loren J., assignor.)
Stevens, Clifford B., assignor to Cleaver-Brooks Company, Milwaukee, Wis. Portable sterilizer or the like. 135,542; Apr. 20.
Straus, Mitteldorfer. (See Waymack, Martin, assignor.)
United States of America, as represented by the United States Director of Civilian Defense. (See Jurkops, Helen L., assignor.)
Valliant, Nathaniel B., Chicago, Ill. Pin or similar article. 135,531; Apr. 20.
Waymack, Marlin, Richmond, Va., assignor to Mitteldorfer Straus, New York, N. Y. Wall bracket. 135,511; Apr. 20.
Weissman, Carl, Bronx, N. Y. Combined jewelry display tray and wrapping paper unit. 135,512; Apr. 20.
Werry, John A., Cedar Grove, assignor to Specialties Manufacturing Company, Inc., Bloomfield, N. J. Device for making carbon dioxide snow. 135,532; Apr. 20.
Winner, Alton T., Oaklyn, N. J. Receptacle for toothbrushes and the like. 135,552; Apr. 20.
Zahn, Philip, New York, N. Y. Dress. 135,553; Apr. 20

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Abrams, Victor R., Maplewood, N. J. Pumping device. 2,317,166; Apr. 20.

Ackerman, William A., Lansdowne, and W. S. Bonnell, Oakmont, assignors to Gulf Research & Development Company, Pittsburgh, Pa. Production of isobutane. 2,317,241; Apr. 20.

Acme Gear & Machine Company. (See Kahl, John O., assignor.)

Adams, Harold E., assignor to Nash Engineering Company, South Norwalk, Conn. Pump controlling mechanism. 2,317,091; Apr. 20.

Adams, Marshall B., Warren, assignor to Mullins Manufacturing Corporation, Salem, Ohio. Demonstration set. 2,317,124; Apr. 20.

Adams, Richard C., East Cleveland, and H. H. Woodworth, South Euclid, assignors to The Sherwin-Williams Company, Cleveland, Ohio. Display apparatus. 2,317,336; Apr. 20.

Adams, Richard C., East Cleveland, and H. H. Woodworth, South Euclid, assignors to The Sherwin-Williams Company, Cleveland, Ohio. Display cabinet. 2,317,337; Apr. 20.

Adler, Charles, Jr., Baltimore, Md. Landing indicator. 2,316,751; Apr. 20.

Aghnides, Elie P., New York, N. Y. Ash tray. 2,316,831; Apr. 20.

Aghnides, Elie, New York, N. Y. Fluid mixing device. 2,316,832; Apr. 20.

Air Reduction Company. (See Yoch, August H., assignor.)

Alban, Clarence F., Pontiac, and S. R. Hood, assignors to W. M. Chace Company, Detroit, Mich. Electrical resistor of thermostatic laminated metal. 2,317,018; Apr. 20.

Algoma Net Company. (See Anderegg, Joseph C., assignor.)

Alien Property Custodian. (See Gazda, Antoine.)

Alien Property Custodian. (See Guinot, Henri M.)

Alien Property Custodian. (See Petitcola, P., and Frenkiel.)

Alien Property Custodian. (See Pittet, Henri.)

Alien Property Custodian. (See Wilen, C. H., and Kramarenko.)

Allen, Francis E., Alamedo, Calif. Fastening means for metal panels. 2,317,015; Apr. 20.

Allen, Herschel H., Towsen, Md. Bridge foundation and making same. 2,317,016; Apr. 20.

Allen, Herschel H., Baltimore, Md. Pier and constructing the same. 2,317,017; Apr. 20.

Allen, Robert C., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Welded spindle construction. 2,317,092; Apr. 20.

Allen, William S., Pittsburgh, R. A. Dimon, Dormont, and E. S. Taylerson, Pittsburgh, Pa., assignors to Carnegie-Illinois Steel Corporation. Plating tank for electrodeposition of metals on metallic strip. 2,317,242; Apr. 20.

Allis-Chalmers Manufacturing Company. (See Allen, Robert C., assignor.)

Altemus, James D., Roslyn, N. Y. De-icing device for airplane propellers, wings, and the like. 2,317,019; Apr. 20.

Ambrose, Paul M., College Park, Md., assignor to Chicago Development Company, Chicago, Ill. Purification of manganese electrolyte solutions. 2,316,750; Apr. 20.

American Chemical Paint Company. (See Romig, Gerald C., assignor.)

American Cyanamid Company. (See McLachlan, Dan, Jr., assignor.)

American Locomotive Company. (See Vaughan, Paul S., assignor.)

American Optical Company. (See Splaine, Edward M., assignor.)

American Rolling Mill Company, The. (See Claybaugh, Howard S., assignor.)

American Seating Company. (See Morgan, Erving B., assignor.)

American Steel and Wire Company of New Jersey, The. (See Bletso, B. H., and Perkins, assignors.)

American Steel and Wire Company of New Jersey, The. (See Brickman, Alan E., assignor.)

American Steel and Wire Company of New Jersey, The. (See Farr, Harold T., assignor.)

American Steel and Wire Company of New Jersey, The. (See Guenzel, Ernest G., assignor.)

American Tool Works Company, The. (See Hoelscher, William G., assignor.)

Anderegg, Joseph C., assignor to Algoma Net Company, Algoma, Wis. Baby swing. 2,317,243; Apr. 20.

Andersen Corporation. (See Swanson, E. C., Frederickssen, and Gaskell, assignors.)

Andersen, Tengel. (See Andersen, Thomas K., and Tengel.)

Andersen, Thomas K., West New Brighton, and T. Andersen, Port Richmond, assignors to Overhead Loader Corporation, Staten Island, N. Y. Material collecting and loading apparatus. 2,316,760; Apr. 20.

Anthony Company, The. (See Morse, A. W., and Singer, assignors.)

Anthony Company. (See Wachter, Lester W., assignor.)

Armfield, Frederic A., Berkeley, assignor to Shell Development Company, San Francisco, Calif. Lubricating oil. 2,316,852; Apr. 20.

Armour and Company. (See Ralston, A. W., and Vander Wal, assignors.)

Armstrong Cork Company. (See Ehle, George E., assignor.)

Armstrong Cork Company. (See Kinney, Paul W., assignor.)

Armstrong Cork Company. (See Lockwood, Louis H., assignor.)

Armstrong Cork Company. (See McCombs, Arnold R., assignor.)

Armstrong Cork Company. (See Mearig, Henry K., assignor.)

Arrow-Hart & Hegeman Electric Company, The. (See Galt, Paul T., Jr., assignor.)

Ashworth, Fred, Wenham, and C. F. Whitaker, Beverly, Mass., assignors to United Shoe Machinery Corporation, Borough of Flemington, N. J. Shoe sewing machine. 2,316,761; Apr. 20.

Atkinson, Clarence L., San Bruno, and G. R. Maher, Burlingame, Calif., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Coated wooden forms for concrete. 2,316,752; Apr. 20.

Ayers, George W., Jr., Chicago, and L. M. Henderson, Winnetka, assignors to The Pure Oil Company, Chicago, Ill. Method for removing weakly acidic substances from substantially neutral organic water-immiscible liquid. 2,316,753; Apr. 20.

Ayers, George W., Jr. (See Henderson, L. M., and Ayers.)

Ayers, George W., Jr. (See Henderson, L. M., Ayers, and Bond.)

Babcock & Wilcox Company, The. (See Bailey, Ervin G., assignor.)

Babcock & Wilcox Company, The. (See Hardgrove, Ralph M., assignor.)

Babcock & Wilcox Company, The. (See Kerr, Howard J., assignor.)

Backoff, William J., and N. D. Williams, assignors to The Pure Oil Company, Chicago, Ill. Gum and carbon deposit solvents and using the same. 2,316,754; Apr. 20.

Baer, Bernard M., Grand Rapids, Mich. Internal combustion engine. 2,317,167; Apr. 20.

Bailey, Ervin G., Easton, Pa., assignor to The Babcock & Wilcox Company, Newark, N. J. Boiler circulation. 2,316,762; Apr. 20.

Bailey, Thomas S., Jr. (See Daman, A. C., Logue, and Bailey, Jr.)

Bailey, William H., Pueblo, assignor to The Colorado Fuel & Iron Corporation, Denver, Colo. Method and machine for profiling masses of material. 2,317,244; Apr. 20.

Baillie, Wallace E., assignor to Standard Railway Devices Company, Chicago, Ill. Refrigerator car. 2,316,755; Apr. 20.

Baldwin Locomotive Works. (See Blanks, Robert F., assignor.)

Ball, Arthur T., Jr., Tariffville, Conn. Thermocouple. 2,317,168; Apr. 20.

Balster, Albert, assignor to I. Balster, Chicago, Ill. Typewriter desk. 2,316,756; Apr. 20.

Balster, Irene. (See Balster, Albert, assignor.)

Banister, James G., Chicago, Ill. Walking block. 2,317,020; Apr. 20.

Bardco Manufactiuring & Sales Company. (See Jervis, Fred, assignor.)

Barnard, Ruth F., et al. (See Fox, Ellis W., assignor.)

Barnes, Carl E. (See Coe, S. L., Jr., and Barnes.)

Barnett, George F., San Francisco, Calif. Post cap. 2,317,125; Apr. 20.

Baron, Walter C., Chicago, Ill. Tackle box. 2,316,833; Apr. 20.

Bartell, Harry R., University City, Mo., assignor to General Steel Castings Corporation, Granite City, Ill. Railway truck. 2,317,169; Apr. 20.

Bassinger, Ross, Houston, Tex. By-pass and releasing means. 2,317,021; Apr. 20.

Bastow, Ralph J., Geneva, and J. R. Coburn, Syracuse, assignors to L. C. Smith & Corona Typewriters, Inc., New York, N. Y. Typewriting machine. 2,317,170; Apr. 20.

Baumann, Walter. (See Martin, H., Baumann, and Gysin.)

Beam, Vilynn O. (See Higley, F. R. and Beam.)

Beaumont Birch Company. (See Weiniger, Joseph K., assignor.)

Beckwith, Edwin L., Brookline, and C. P. MacIver, Newton, Mass., assignors to Beckwith Manufacturing Company, Dover, N. H. Scabbard or sheath. 2,316,766; Apr. 20.

Beckwith Manufacturing Company. (See Beckwith, E. L., and MacIver, assignors.)

Bell, Rupert B., assignor to King Seeley Corporation, Ann Arbor, Mich. Windshield wiper mechanism. 2,317,245; Apr. 20.

Bell Telephone Laboratories, Inc. (See Holbrook, Bernard D., assignor.)

Bell Telephone Laboratories, Incorporated. (See Nesbitt, Ethan A., assignor.)

Bell Telephone Laboratories, Incorporated. (See Ronci, Victor L., assignor.)

Bendix Aviation Corporation. (See Chappell, R. R., and Colt, assignors.)

Bendix Aviation Corporation. (See Janes, Clinton S., assignor.)

Bendix Home Appliances, Inc. (See Oliver, Wallace F., assignor.)

Bendix-Westinghouse Automotive Air Brake Company. (See Humphrey, Homer D., assignor.)

Benjamin, Walter E., assignor to Pierce Governor Company, Anderson, Ind. Wide range centrifugal governor. 2,317,022; Apr. 20.

Berby, Ola L., assignor to Clyde Iron Works, Duluth, Minn. Clutch. 2,317,171; Apr. 20.

Berger, Henry G. (See Goodloe, P. M., and Berger.)

Bergmann, Adolph G., Ansonia, Conn. Muffler. 2,317,246; Apr. 20.

Bergmann, Ernest R., Evergreen Park, assignor to Goodman Manufacturing Company, Chicago, Ill. Feeding mechanism for shaker conveyers. 2,317,172; Apr. 20.

Berkowitz Envelope Company. (See Berkowitz, Eugene B., assignor.)

Berkowitz, Eugene B., assignor to Berkowitz Envelope Company, Kansas City, Mo. Mailing piece. 2,316,757; Apr. 20.

Besler, Eduard, Frankfort-on-the-Main, Germany, assignor to General Aniline & Film Corporation, New York, N. Y. Leuco sulphuric acid esters of the anthraquinone series. 2,316,758; Apr. 20.

Bethlehem Steel Company. (See Taylor, John A., assignor.)

Betke, Herman F., Borger, Texas. Resilient tire. 2,317,323; Apr. 20.

Bicknese, William. (See Schreyer, Frederick, assignor.)

Biderman, Carl, New York, N. Y. Game. 2,317,126; Apr. 20.

Bierenfeld, Josef, Shorewood, Wis., assignor to Square D Company, Detroit, Mich. Push button. 2,316,834; Apr. 20.

Bird, Stanley P., Verona, assignor to Breeze Corporations, Inc., Newark, N. J. Spring contact for electric connections. 2,317,023; Apr. 20.

Blanchard, Loring W., Jr. (See Hiatt, G. D., and Blanchard, Jr.)

Blanks, Robert F., Denver, Colo., assignor, by mesne assignments, to Baldwin Locomotive Works. Materials testing equipment. 2,317,093; Apr. 20.

Bleakley Corporation, The. (See Bleakley, Purling A., assignor.)

Bleakley, Purling A., assignor to The Bleakley Corporation, Toledo, Ohio. Apparatus for melting powdered materials. 2,317,173; Apr. 20.

Bletso, Bruce N., East Cleveland, and G. H. Perkins, Cleveland, Ohio, assignors to The American Steel and Wire Company of New Jersey. Cut nail machine. 2,317,247; Apr. 20.

Bliss, Jerome J., assignor to Ray-O-Matic Fire Guard Company, Minneapolis, Minn. Fire alarm apparatus. 2,317,024; Apr. 20.

Blood, Robert A., assignor to Crouse-Hinds Company, Syracuse, N. Y. Explosion proof enclosure for electrical devices. 2,316,835; Apr. 20.

Bogg, William A. (See Heiser, M. G., von Bergen and Bogg.)

Bond, Donald C., Northbrook, assignor to The Pure Oil Company, Chicago, Ill. Removing weakly acidic sulphur compounds from hydrocarbon liquids. 2,316,759; Apr. 20.

Bond, Donald C. (See Henderson, L. M., and Bond.)

Bond, Donald C. (See Henderson, L. M., Ayers, Jr., and Bond.)

Bond, Donald S., Philadelphia, Pa., assignor to Radio Corporation of America. Volume control circuit. 2,317,025; Apr. 20.

Bone, Herbert L., Forest Hills, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway switch operating apparatus. 2,316,930; Apr. 20.

Bonnell, William S. (See Ackerman, W. A., and Bonnell.)

Borst, Douglas R. (See Cook, E. S., and Borst.)

Borst, Douglas R. (See Hines, C. M., and Borst.)

Bowling, Warren E., Gardner, Kans. Pickup attachment for harvester-threshers. 2,317,127; Apr. 20.

Boye Needle Company, The. (See Davis, Edward D., assignor.)

Bradley, Frank L., Ridgewood, and E. Stumpp, Clifton, N. J., and W. Jawurek, Bridgeport, Conn., assignors to E. V. Hadley, New York, N. Y. Machine for applying strips of material to curved surfaces. 2,316,767; Apr. 20.

Brandt, David G., Westfield, N. J., assignor to Cities Service Oil Company, New York, N. Y. Continuous process for cracking and polymerizing petroleum oils. 2,316,931; Apr. 20.

Brann, Fred, Milwaukee, Wis. Buckle. 2,317,128; Apr. 20.

Breeze Corporations, Inc. (See Bird, Stanley P., assignor.)

Brennan, Joseph B., and L. Marsh, Euclid, Ohio, said Marsh assignor to said Brennan. Making screen stencils. 2,316,768; Apr. 20.

Breuer, Adam A., assignor to Breuer Electric Mfg. Co., Chicago, Ill. Portable suction cleaner. 2,316,836; Apr. 20.

Breuer Electric Mfg. Co. (See Breuer, Adam A., assignor.)

Brickman, Alan E., Monongahela, Pa., assignor to The American Steel and Wire Company of New Jersey. Combination cable and plate highway guard. 2,317,248; Apr. 20.

Brickman, Alan E., Monongahela, Pa., assignor to The American Steel and Wire Company of New Jersey. Highway guard. 2,317,249; Apr. 20.

Bridges, Walter, Chelsea, London, England. Means for wrapping filaments around tubes or cylinders. 2,317,250; Apr. 20.

Brockel, William G., Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Apparatus for coating wire. 2,316,984; Apr. 20.

Brolus, Henry W., Detroit, assignor of 40% to R. G. Kitchen, Grosse Pointe Park, Mich. Ship control. 2,317,251; Apr. 20.

Brouse, William H. D., Toronto, Ontario, Canada, assignor, by mesne assignments, to John Wood Manufacturing Company, Inc., Philadelphia, Pa. Fluid meter. 2,317,325; Apr. 20.

Brown, James A., Baldwin Park, Calif. Line guide for fishing rods. 2,317,129; Apr. 20.

Brown, Owen J., Jr., Boston, and W. R. Smith, Cambridge, assignors to Godfrey L. Cabot, Inc., Boston, Mass. Carbon black product and process of making the same. 2,317,026; Apr. 20.

Bruce, Wesley G., Dallas, Tex., dedicated to the free use of the People in the Territory of the United States. Duster tor insecticides. 2,316,932; Apr. 20.

Bryant Chucking Grinder Company. (See Mattson, Emil, assignor.)

Bryant Heater Company, The. (See Higley, F. R., and Beam, assignors.)

Buckeye Laboratories, Inc., The. (See Dunmire, R. P., and Camelford, assignors.)

Budd, Edward G., Manufacturing Company. (See Eksergian, Rupen, assignor.)

Buhrmaster, Frederick R. (See George, W. C., and Buhrmaster.)

Bunker, Herbert H., assignor to Kerlow Steel Flooring Company, Jersey City, N. J. Grating structure. 2,317,174; Apr. 20.

Burdick, Theodore A., Flushing, assignor to Semet-Solvay Engineering Corporation, New York, N. Y. Gate operating control. 2,317,175; Apr. 20.

Burgdorf, Harvey E. (See Pate, W. M., and Burgdorf.)

Burroughs Adding Machine Company. (See Racz, Ernest, assignor.)

Butler, Fern L. (See Haggard, W. K., and Butler.)

Butler, Henry E., Scotia, N. Y., assignor to General Electric Company. Multiple filament electric lamp. 2,317,027; Apr. 20.

Byrd, Marie A., Boston, Mass. Container bag and outer garment. 2,317,176; Apr. 20.

Cabarrocas y Ayala, David, Habana, Cuba. Metallurgical furnace. 2,317,252; Apr. 20.

Cabot, Godfrey L., Inc. (See Brown, O. J., Jr., and Smith, assignors.)

Callite Tungsten Corporation. (See Lowit, Rudolf, assignor.)

Camelford, James A. (See Dunmire, R. P., and Camelford.)

Candid Camera Corporation of America. (See Dunn, Henry S., assignor.)

Candy, Albert T., Jr., assignor to Candy & Company, Chicago, Ill. Candle holder. 2,316,837; Apr. 20.

Candy & Company. (See Candy, Albert T., Jr., assignor.)

Carissimi, Louis C., Fairfield, Conn., assignor to Remington Rand Inc., Buffalo, N. Y. Dry shaver. 2,317,177; Apr. 20.

Carlson, Hjalmar E., Brooklyn, N. Y., assignor to International Cigar Machinery Company. Cigar machine wrapper transfer carrier head. 2,316,838; Apr. 20.

Carnegie-Illinois Steel Corporation. (See Allen, W. S., Dimon and Taylerson.)

Carter Carburetor Corporation. (See Moseley, J. T. W., and Seldon, assignors.)

Celanese Corporation of America. (See Dreyfus, Henry, assignor.)
Celanese Corporation of America. (See Taylor, William I., assignor.)
Century Motors Corporation. (See Dusevoir, Julius, assignor.)
Chace, W. M., Company. (See Alban, C. F., and Hood assignors.)
Chaffee, Raymond O., Belmont, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Manufacturing lock nuts. 2,317,094; Apr. 20.
Champion, Inc. (See West, Maxwell A., assignor.)
Chaplin, Joseph, Baltimore, Md. Gate valve. 2,316,933; Apr. 20.
Chapman, Florence H., et al. (See Fox, Ellis W., assignor.)
Chappell, Ralph R., Richmond, Va., and R. B. Colt, Baltimore, Md., assignors to Bendix Aviation Corporation, Bendix, N. J. Accelerometer. 2,317,028; Apr. 20.
Cherry-Burrell Corporation. (See Fielder, H. S., and Ott, assignors.)
Chicago Development Company. (See Ambrose, Paul M., assignor.)
Chicago Development Company. (See Dean, Reginald S., assignor.)
Chicago Electric Manufacturing Company. (See Gough, James J., assignor.)
Chicago Pneumatic Tool Company. (See Fischer, Howard R., assignor.)
Chilson, Warren A., Niagara Falls, N. Y., assignor to Masonite Corporation. Continuous mixer. 2,316,769; Apr. 20.
Chromogen, Incorporated. (See Dreyfuss, Paul, assignor.)
Chromogen, Incorporated. (See Gaspar, Béla, assignor.)
Chromogen, Incorporated. (See Michaelis, Walter, assignor.)
Chrysler Corporation. (See Dickson, J. B., and Holbrook, assignors.)
Chrysler Corporation. (See Pennington, Gordon R., assignor.)
Chrysler Corporation. (See Webb, Edmond F., assignor.)
Cincinnati Industries, Inc. (See Rowe, William W., assignor.)
Cisin, Harry G., Brooklyn, N. Y. Electronic circuits. 2,317,178; Apr. 20.
Cities Service Oil Company. (See Brandt, David G., assignor.)
Claybaugh, Howard S., Minneapolis, Minn., assignor to The American Rolling Mill Company, Middletown, Ohio. Making arch-type culverts. 2,316,839; Apr. 20.
Claytor, Edward M., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Indicating system for overdrive control. 2,317,029; Apr. 20.
Clyde Iron Works. (See Derby, Ola L., assignor.)
Coburn, John R. (See Bastow, R. J., and Coburn.)
Coes, Loring, Jr., Brookfield, and C. E. Barnes, Worcester, Mass., assignors, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Polymerizable unsaturated methylene compound and resin comprising polymers thereof. 2,317,130; Apr. 20.
Coffman, Donald D., and F. C. McGrew, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Polymeric iminoether hydrohalides. 2,317,155; Apr. 20.
Cole, Sandford S., Metuchen, N. J., assignor to National Lead Company, New York, N. Y. Preparation of rutile titanium dioxide. 2,316,840; Apr. 20.
Cole, Sandford S., Metuchen, N. J., assignor to National Lead Company, New York, N. Y. Preparation of rutile titanium dioxide. 2,316,841; Apr. 20.
Coleman, Gerald H. (See Lynn, G. E., Fletcher and Coleman.)
Coleman, John D., assignor to General Motors Corporation, Dayton, Ohio. Leak testing bath and method of the testing. 2,316,842; Apr. 20.
Colorado Fuel & Iron Corporation, The. (See Bailey, William H., assignor.)
Colorado Fuel and Iron Corporation, The. (See Frantz, Philip M., assignor.)
Colt, Rutger B. (See Chappell, R. R., and Colt.)
Colvin, John D., Indianapolis, Ind., assignor to Radio Corporation of America. Fuse indicating system. 2,317,030; Apr. 20.
Compain, Jerónimo D., Central Senado, Cuba. Three-roll mill for crushing sugar cane and the like. 2,316,843; Apr. 20.
Compo Shoe Machinery Corporation. (See Macdonald, Kenneth W., assignor.)
Conaway, Rollin F., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Film and filament formation. 2,317,131; Apr. 20.
Cook, Earle S., Wilkinsburg, and D. R. Borst, Pitcairn, assignors to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake system. 2,317,132; Apr. 20.
Cornell, Elias S., and T. Fjellstedt, Chicago, and S. C. Killian, Oak Park, assignors to Delta-Star Electric Company, Chicago, Ill. Switching device. 2,316,844; Apr. 20.
Corning Glass Works. (See Hinkley, R. A., and Miller, assignors.)
Corning Glass Works. (See Pond, Leander N., assignor.)
Corson, Richard C., Olean, assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Barrel filler. 2,316,934; Apr. 20.
Costa, Joseph L., Woonsocket, and W. H. Kahler, Saylesville, assignors to Manville Jenckes Corporation, Manville, R. I. Apparatus and method for the manufacture of artificial fibers. 2,317,152; Apr. 20.
Cotman, Carl A., Parma, and D. K. Wright, Cleveland Heights, Ohio, assignors to General Electric Company. Electric lamp and manufacture. 2,317,031; Apr. 20.
Cotman, Carl A., and D. K. Wright, Cleveland Heights, Ohio, assignors to General Electric Company. Terminal structure for electric lamps. 2,317,032; Apr. 20.
Cowin, Stuart H., Chicago, Ill., assignor to General Motors Corporation, Detroit, Mich. Diesel electric drive and control system. 2,317,253; Apr. 20.
Cowin, Stuart H., Chicago, Ill., assignor to General Motors Corporation, Detroit, Mich. Dynamic braking system. 2,317,254; Apr. 20.
Craft, John H., Jr., assignor to Defender Photo Supply Co., Inc., Rochester, N. Y. Chilling photographic emulsions. 2,316,845; Apr. 20.
Crafts, Curtis S., Oak Park, assignor to The Goss Printing Press Company, Chicago, Ill. Printing press. 2,316,935; Apr. 20.
Crafts, Curtis S., Oak Park, and C. V. Knell, Glen Ellyn, Ill., assignors to News Syndicate Co., Inc., New York, N. Y. Method and means for maintaining register in multiunit presses. 2,317,095; Apr. 20.
Cram, George F. (See Hall, C. L., and Cram.)
Crandall, Frank R. (See Overholser, Henry D., assignor.)
Crittenden, Philip L., Edgewood, and C. M. Hines, Pittsburgh, assignors to The Westinghouse Air Brake Company, Wilmerding, Pa. Drive mechanism. 2,317,135; Apr. 20.
Crouse-Hinds Company. (See Blood, Robert A., assignor.)
Crowell, Orby B., assignor to Viceroy Manufacturing Company Limited, Toronto, Ontario, Canada. Squawker for toys. 2,317,255; Apr. 20.
Curtis 1000 Incorporated. (See Whitman, Harlan M., assignor.)
Custodis Construction Company. (See Sheridan, John L., assignor.)
Daesen, John R., Oak Park, Ill. Zinc alloy. 2,317,179; Apr. 20.
Dafforn, Kenneth B., Denver, Ohio, assignor to Knapp-Monarch Company, St. Louis, Mo. Thermostat structure. 2,317,033; Apr. 20.
Daignault, Armand, and A. Nolet, Fall River, Mass. Pipe stem. 2,317,180; Apr. 20.
Dailey, William E., Chicago, Ill. Spring wheel. 2,317,136; Apr. 20.
D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Urea-formaldehyde-triethanolamine hydrochloride condensation product. 2,317,181; Apr. 20.
Dalkin, Albert A., assignor to A. Dalkin Co., Chicago, Ill. Piston ring for mixing valves. 2,317,034; Apr. 20.
Dalkin, A., Co. (See Dalkin, Albert A., assignor.)
Daman, Arthur C., L. H. Logue, and T. S. Bailey, Jr., assignors to Mining Process and Patent Company, Denver, Colo. Froth flotation apparatus and treatment. 2,316,770; Apr. 20.
Dana, Junius, University Heights, Ohio, assignor to General Electric Company. Electric lamp. 2,317,035; Apr. 20.
Davis, Bemiss N., New Orleans, La. Antitheft device. 2,316,936; Apr. 20.
Davis, Edward D., assignor to The Boye Needle Company, Chicago, Ill. Display rack. 2,316,771; Apr. 20.
Dean, Reginald S., Washington, D. C., assignor to Chicago Development Company, Chicago, Ill. Treatment of electrolytes for the deposition of manganese. 2,316,937; Apr. 20.
Dean, Reginald S., Washington, D. C., assignor to Chicago Development Company, Chicago, Ill. Electrodeposition of manganese. 2,317,153; Apr. 20.
Defender Photo Supply Co. (See Craft, John H., Jr., assignor.)
De Gravelle, George A., New Iberia, La. Hose attachment. 2,316,855; Apr. 20.
De Kurowski, Juljan B., London, England. Bomb dropping device adapted to be dropped from aircraft. 2,317,256; Apr. 20.
Delta-Star Electric Company. (See Corneli, E. S., Fjellstedt, and Killian, assignors.)
De Luca, Donald, Glendale, assignor to D. S. Garber, Van Nuys, Calif., as trustee. Ladder. 2,316,939; Apr. 20.
Dench, Edward C., South Orange, N. J. Photoelectric-controlled gas-discharge tube. 2,316,772; Apr. 20.
Dench, Edward C., South Orange, N. J. Electric discharge tube. 2,316,773; Apr. 20.
Desjardins, Edgar C. (See Ferguson, F. A., and Desjardins.)
Dessauer, John, Irondequoit, assignor to The Haloid Company, Rochester, N. Y. Dyeing photographic silver halide emulsions. 2,317,257; Apr. 20.
Dewey, David B., Pasadena, and G. W. Meyer, assignors, by mesne assignments, to The Fluor Corporation, Ltd., Los Angeles, Calif. Blower control for mechanical draft cooling towers. 2,316,940; Apr. 20.

Dickson, John B., Highland Park, and T. L. Holbrook, Detroit, assignors to Chrysler Corporation, Highland Park, Mich. Indicating instrument. 2,317,182; Apr. 20.
Diebold, George L., Chicago, Ill. Adjustable strap fastener. 2,316,846; Apr. 20.
Dilworth, Richard M., La Grange, Ill., assignor to General Motors Corporation, Detroit, Mich. Transition control system. 2,317,258; Apr. 20.
Dimick, Henry N., assignor to Willamette Hyster Company, Portland, Oreg. Shoe control mechanism for straddle trucks. 2,316,938; Apr. 20.
Dimon, Richard A. (See Allen, W. S., Dimon, and Taylerson.)
Dobson, William A., Wethersfield, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 2,317,183; Apr. 20.
Dodge, Howard M., Wabash, Ind., assignor to The General Tire & Rubber Company, Akron, Ohio. Oil seal. 2,316,941; Apr. 20.
Doering, Charles, and H. H. Doering, Chicago, Ill. Collapsible display stand. 2,317,036; Apr. 20.
Doering, Henry H. (See Doering, Charles and Henry H.)
Doll, Anne M. L., administratrix. (See Schlumberger, Conrad.)
Doll, Henri-Georges, assignor to The Schlumberger Well Surveying Corporation, Houston, Tex. Apparatus for measuring temperatures in bore-holes. 2,316,942; Apr. 20.
Doll, Henri G., Paris, France, assignor, by mesne assignments, to Schlumberger Well Surveying Corporation, Houston, Tex. Device for determining the strata traversed by drill holes. 2,317,259; Apr. 20.
Domenk, Paul J., assignor to Midway Chemical Co., Chicago, Ill. Mop. 2,317,260; Apr. 20.
Donovan, Joseph L., Duluth, Minn. Jar or cap wrench. 2,317,037; Apr. 20.
Dow Chemical Company, The. (See Lynn, G. E., Fletcher, and Coleman, assignors.)
Dowinsky, Samuel, New York, N. Y. Pressing iron. 2,317,261; Apr. 20.
Dresser Manufacturing Company. (See Risley, Roger E., assignor.)
Dreyfus, Henry, London, England, assignor to Celanese Corporation of America. Production of organic compounds containing inorganic groups. 2,316,847; Apr. 20.
Dreyfuss, Paul, Brussels-Forest, Belgium, assignor, by mesne assignments, to Chromogen, Incorporated. Photographic material and manufacturing same. 2,317,184; Apr. 20.
Dunlap, Marshall N., and G. Fortney, Chicago, Ill. Sewing machine needle guard. 2,317,185; Apr. 20.
Dunmire, Russell P., and J. A. Camelford, Cleveland, Ohio, assignors to The Buckeye Laboratories, Inc. Treatment of fatty substances. 2,316,774; Apr. 20.
Dunn, Henry S., assignor to Candid Camera Corporation of America, Chicago, Ill. Motion picture camera. 2,317,096; Apr. 20.
Du Pont, E. I., de Nemours & Company. (See Atkinson, C. L., and Maher, assignors.)
Du Pont, E. I., de Nemours & Company. (See Coes, L., Jr., and Barnes, assignors.)
Du Pont, E. I., de Nemours & Company. (See Coffman, D. D., and McGrew, assignors.)
Du Pont, E. I., de Nemours & Company. (See Conaway, Rollin F., assignor.)
Du Pont, E. I., de Nemours & Company. (See Fletcher, David A., assignor.)
Du Pont, E. I., de Nemours & Company. (See Lemanski, Theodore R., assignor.)
Du Pont, E. I., de Nemours & Company. (See Person, Earl R., assignor.)
Du Pont, E. I., de Nemours & Company. (See Pings, Wilbur B., assignor.)
Dusevoir, Julius, assignor to Century Motors Corporation, Dearborn, Mich. Apparatus for machining serrations in metallic bodies. 2,317,262; Apr. 20.
Eagan, John J., Yonkers, N. Y. Testing device. 2,317,263; Apr. 20.
Eastman Kodak Company. (See Hiatt, G. D., and Blanchard, Jr., assignors.)
Eberhardt, Karl J., assignor to The Warner & Swasey Company, Cleveland, Ohio. Machine tool. 2,317,264; Apr. 20.
Edison General Electric Appliance Company. (See Shroyer, Jacob L., assignor.)
Egloff, Gustav, assignor to Universal Oil Products Company, Chicago, Ill. Treatment of hydrocarbons. 2,316,775; Apr. 20.
Ehle, George E., Lancaster Township, Lancaster, County, assignor to Armstrong Cork Company, Lancaster, Pa. Shoe bottom filling material. 2,317,326; Apr. 20.
Ekonomiregister Inc. (See Magnusson, Elis M., assignor.)
Eksergian, Rupen, Lansdowne, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Fatigue-testing machine. 2,317,097; Apr. 20.
Electro Glide Company. (See Steven, Glenn A., assignor.)
Ellinger, William H., Smith, N. Mex. Paraffin solvent. 2,317,038; Apr. 20.
Elliott, Harold F., Palo Alto, Calif. Electrical control apparatus. 2,316,776; Apr. 20.
England, Harry F., Prairie City, Oreg. Placer dredge. 2,316,943; Apr. 20.
Ennis, George H., assignor of one-half to Robert V. Funk, Long Beach, Calif. Method and apparatus for determining water leakages into wells. 2,317,039; Apr. 20.
Ericksen, Christian, Brooklyn, N. Y. Scraper. 2,317,041; Apr. 20.
Ernst, Walter, Mount Gilead, Ohio, assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del. Valve. 2,316,944; Apr. 20.
Ethridge, Albert S., assignor to Hummel & Downing Company, Milwaukee, Wis. Paper carton. 2,317,040; Apr. 20.
Evans, Avery, Dunnville, Ontario, Canada. Revolvable table. 2,317,042; Apr. 20.
Evans, Cyril H., Snaresbrook, London, assignor to Spillers Limited, Markyate, near St. Albans, England. Apparatus for regulating the flow of liquid. 2,316,848; Apr. 20.
Evrell, Kaleb E. (See Wallgren, A. G. F., and Evrell.)
Exact Weight Scale Company, The. (See Flanagan, Thomas B., assignor.)
Ex-Cell-O Corporation. (See Seyferth, Harold N., assignor.)
Ex-Cell-O Corporation. (See Snader, Ira J., assignor.)
Eyman, Lewis E., Seattle, Wash. Creation of design patterns. 2,317,043; Apr. 20.
Fairey Aviation Company Limited, The. (See Hilton, L. M., and Hetherington, assignors.)
Fanto, Emil C. (See Omohundro, A. L., and Fanto.)
Farago, Joseph, assignor of one-half to A. Matica, Detroit, Mich. Rail joint. 2,316,849; Apr. 20.
Farr, Harold T., Cleveland, Ohio, assignor to The American Steel and Wire Company of New Jersey. Alignment gauge. 2,316,850; Apr. 20.
Faulkner, Arnold T., assignor to United Steel and Wire Company, Battle Creek, Mich. Bottle and like crate. 2,317,044; Apr. 20.
Federal Telephone and Radio Corporation. (See Goodale, Lynn, assignor.)
Fell, William B., Rockford, Ill. Machinist's precision level. 2,316,777; Apr. 20.
Ferguson, Franklin A., and E. C. Desjardins, assignors to The H. B. Smith Company, Incorporated, Westfield, Mass. Boiler. 2,316,945; Apr. 20.
Fiechter, John J., Willow Grove, Pa. Metallic packing and making the same. 2,316,778; Apr. 20.
Fielder, Harold S., La Grange, Ill., and Latour O. Ott, Los Angeles, Calif., assignors to Cherry-Burrell Corporation, Wilmington, Del. Apparatus for production of artificially cultured buttermilk. 2,317,045; Apr. 20.
Fischer, Howard R., Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Riveting yoke. 2,316,946; Apr. 20.
Fisher, Alec, Lynn, Mass., assignor to General Electric Company. Dynamoelectric machine. 2,316,779; Apr. 20.
Fjellstedt, Thorsten. (See Cornell, E. S., Fjellstedt, and Killian.)
Flanagan, Thomas B., assignor to The Exact Weight Scale Company, Columbus, Ohio. Weighing scale. 2,316,947; Apr. 20.
Fleming, Paul Nelson, Hagerstown, Md. Anchoring means for sanitary drinking caps. 2,317,046; Apr. 20.
Fletcher, David A., Bloomfield, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polystyrene plastic. 2,317,137; Apr. 20.
Fletcher, David A., Bloomfield, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Granular polymerization of ethanoid monomers. 2,317,138; Apr. 20.
Fletcher, Fred W. (See Lynn, G. E., Fletcher, and Coleman.)
Fluor Corporation, Ltd., The. (See Dewey, D. B., and Meyer, assignors.)
Foerste, William, Pelham Manor, and E. A. Quarrie, Scarsdale, N. Y. Fluorescent lamp. 2,317,265; Apr. 20.
Food Machinery Corporation. (See Grant, Robert S., assignor.)
Foote & Van Wie, Incorporated. (See Foote, Harley K., assignor.)
Foote, Harley K., assignor to Foote & Van Wie, Incorporated, Chicago, Ill. Sheet fastening means. 2,317,047; Apr. 20.
Ford Instrument Company. (See Newell, William H., assignor.)
Fortney, Grant. (See Dunlap, M. N., and Fortney.)
Fosbak, Olaf, Bella Coola, British Columbia, Canada. Sled. 2,317,048; Apr. 20.
Foster, Dudley E., South Orange, N. J., assignor to Radio Corporation of America. Frequency modulation receiver squelch circuit. 2,316,851; Apr. 20.
Foster, Warren D., Eustis, Lake County, Fla., and F. D. Sweet, deceased, late of New York, N. Y., by G. Sweet, administratrix, New York, N. Y., assignors to Kinatome Patents Corporation, Ridgewood, N. J. Film handling apparatus. 2,316,780; Apr. 20.
Fowler, William H., East Marion, N. C. Grease guard for looms. 2,317,186; Apr. 20.
Fox, Ellis W., Alhambra, assignor of one-third to R. F. Barnard, Glendale, and one-third to F. H. Chapman, Glendora, Calif. Solution mixing and dispensing device. 2,316,781; Apr. 20.

Frantz, Phillip M., Pueblo, assignor to The Colorado Fuel and Iron Corporation, Denver, Colo. Froth breaking. 2,317,139; Apr. 20.

Fredericksen, Vernon P. (See Swanson, E. C., Fredericksen, and Gaskell.)

Freeland Spool and Bobbin Corp. (See Markle, George B., Jr., assignor.)

Frenkiel, Joseph. (See Petitcolas, P., and Frenkiel.)

Funk, Irving R. (See Porter, J. L., and Funk.)

Funk, Robert V. (See Ennis, George H., assignor.)

Gagnebin, Albert P., Fair Haven, N. J., assignor to The International Nickel Company, Inc., New York, N. Y. Aluminum-treated cast steel. 2,316,948; Apr. 20.

Galt, Paul T., Jr., assignor to Arrow-Hart & Hegeman Electric Company, Hartford, Conn. Electric switching system. 2,317,266; Apr. 20.

Garber, David S., trustee. (See De Luca, Donald, assignor.)

Garvey, Benjamin S., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Method of plasticizing synthetic rubber. 2,316,949; Apr. 20.

Gaskell, Perry C. (See Swanson, E. C., Fredericksen, and Gaskell.)

Gaspar, Béla, Brussells-Forest, Belgium, assignor to Chromogen, Incorporated. Producing multicolor images. 2,316,782; Apr. 20.

Gaylord Container Corporation. (See George, W. C., and Buhrmaster, assignors.)

Gazda, Antoine, Neuilly-sur-Seine, France; vested in the Alien Property Custodian. Aircraft wing system. 2,317,267; Apr. 20.

Geary, James F., Salt Lake City, Utah. Compaction separator. 2,316,783; Apr. 20.

Geigy, J. R., A. G. (See Martin, H., Baumann, and Gysin, assignors.)

Geigy, J. R., A. G. (See Stenzl, Hans, assignor.)

General Aniline & Film Corporation. (See Besler, Eduard, assignor.)

General Aniline & Film Corporation. (See Weihe, A., and Herrlein, assignors.)

General Electric Company. (See Butler, Henry E., assignor.)

General Electric Company. (See Cotman, C. A., and Wright, assignors.)

General Electric Company. (See D'Alelio, Gaetano F., assignor.)

General Electric Company. (See Dana, Junius, assignor.)

General Electric Company. (See Fisher, Alec, assignor.)

General Electric Company. (See Griffiths, Leonard, assignor.)

General Electric Company. (See Helser, M. G., von Bergen, and Bogg, assignors.)

General Electric Company. (See Inman, G. E., and Smitley, assignors.)

General Electric Company. (See Newman, Delbert F., assignor.)

General Electric Company. (See Spencer, Charles D., assignor.)

General Electric Company. (See Young, William R., assignor.)

General Motors Corporation. (See Claytor, Edward M., assignor.)

General Motors Corporation. (See Coleman, John D., assignor.)

General Motors Corporation. (See Cowin, Stuart H., assignor.)

General Motors Corporation. (See Dilworth, Richard M., assignor.)

General Motors Corporation. (See Hill, Robert H., assignor.)

General Motors Corporation. (See Schwartzwalder, K., and Smith, assignors.)

General Steel Castings Corporation. (See Bartell, Harry R., assignor.)

General Steel Castings Corporation. (See Travilla, J. C., Jr., and Jackson, assignors.)

General Tire & Rubber Company, The. (See Dodge, Howard M., assignor.)

General Tire & Rubber Company. (See Kraft, Herman T., assignor.)

George, Walter C., St. Louis, and F. R. Buhrmaster, Webster Groves, assignors to Gaylord Container Corporation, St. Louis, Mo. Knockdown crated carton. 2,316,853; Apr. 20.

George, Walter C., St. Louis, and F. R. Buhrmaster, Webster Groves, assignors to Gaylord Container Corporation, St. Louis, Mo. Knockdown crated carton. 2,316,854; Apr. 20.

Giammaria, John J. (See Reiff, O. M., Otto, Giammaria, and Oberright.)

Gibson Electric Refrigerator Corporation. (See Nofzinger, Earl E., assignor.)

Gibson, William T., London, England, assignor to International Standard Electric Corporation, New York, N. Y. Electron discharge apparatus. 2,317,140; Apr. 20.

Gilbert, Herman W., Kew Gardens, N. Y. Yardage measuring device. 2,317,141; Apr. 20.

Ginka, Stephen, Chicago, Ill. Christmas tree stand. 2,317,049; Apr. 20.

Gladeck, Frederick C., Brooklyn, N. Y., assignor to International Cigar Machinery Company. Binder and wrapper material feed for cigar machines. 2,316,784; Apr. 20.

Gladeck, Frederick C., Brooklyn, N. Y., assignor to International Cigar Machinery Company. Making cigars. 2,316,785; Apr. 20.

Gleason Works. (See Witham, Winfred A., assignor.)

Globe American Corporation. (See Sherman, Alvin G., assignor.)

Goeller, Charles, Elizabeth, N. J. Tension adjuster for clotheslines or the like. 2,316,950; Apr. 20.

Goldsby, Arthur R., Beacon, assignor to The Texas Company, New York, N. Y. Manufacture of motor fuel. 2,317,142; Apr. 20.

Goodale, Lynn, assignor to Federal Telephone and Radio Corporation, Newark, N. J. Carbon electrode assembly. 2,317,143; Apr. 20.

Goodloe, Paul M., and H. G. Berger, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Breaking petroleum emulsions. 2,317,050; Apr. 20.

Goodman Manufacturing Company. (See Bergmann, Ernst R., assignor.)

Goodman Manufacturing Company. (See Pratt, Charles A., assignor.)

Goodman Manufacturing Company. (See Schafer, Charles J., assignor.)

Goodrich, B. F., Company, The. (See Garvey, Benjamin S., assignor.)

Goodrich, B. F., Company, The. (See Mick, J. J., and McCurdy, assignors.)

Goss Printing Press Company, The. (See Crafts, Curtis S., assignor.)

Gottlieb, Gerald H., New York, N. Y. Cartographic device. 2,316,786; Apr. 20.

Gough, James J., assignor to Chicago Electric Manufacturing Company, Chicago, Ill. Motor. 2,317,098; Apr. 20.

Gould, Sheldon D., Brooklyn, N. Y. Separable fastener. 2,316,787; Apr. 20.

Grant, Robert S., Dunedin, Fla., assignor to Food Machinery Corporation, San Jose, Calif. Water eliminator. 2,317,144; Apr. 20.

Grauer, Adolph, New York, N. Y. Profilometer. 2,316,951; Apr. 20.

Green, George S., Cape Elizabeth, Maine. Door signal. 2,316,856; Apr. 20.

Green, Isaac H. C., Pawtucket, assignor to Hemphill Company, Central Falls, R. I. Pattern control for knitting machines. 2,317,268; Apr. 20.

Green, Willard J., assignor to Philco Radio and Television Corporation, Philadelphia, Pa. Phonograph drive mechanism. 2,316,857; Apr. 20.

Greif Bros. Cooperage Corporation, The. (See Schmidtke, Albert H., assignor.)

Griffiths, Leonard, Coventry, England, assignor to General Electric Company. Dynamo-electric machine. 2,317,187; Apr. 20.

Groen, Christopher, Oak Park, Ill., assignor to A. Y. McDonald Mfg. Co., Dubuque, Iowa. Mixing valve construction. 2,317,051; Apr. 20.

Groene, William F., and H. J. Siekmann, assignors to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Step threading machine. 2,317,099; Apr. 20.

Guenzel, Ernest G., Cleveland, Ohio, assignor to The American Steel and Wire Company of New Jersey. Apparatus for welding. 2,316,859; Apr. 20.

Guinot, Henri M., Niort, Deux-Sevres, France; vested in the Alien Property Custodian. Separation of mixtures of olefins and paraffins. 2,316,860; Apr. 20.

Gulf Research & Development Company. (See Ackerman, W. A., and Bonnell, assignors.)

Gysin, Hans. (See Martin, H., Baumann, and Gysin.)

H. K. Metal Craft Manufacturing Co. (See Hopp, H. P., and Kunzelman, assignors.)

Hadley, E. V. (See Bradley, F. L., Stumpp, and Jawurek, assignors.)

Haggard, Walter K., and F. L. Butler, Amarillo, Tex. Military game. 2,316,862; Apr. 20.

Hagstrom, Joseph E., and O. C. Olsen, assignors to C. Earl Hovey, trustee, Kansas City, Mo. Portable bottle vendor. 2,317,145; Apr. 20.

Halferty, John C., assignor to The Steel Scaffolding Company, Inc., Evansville, Ind. Scaffold unit. 2,316,952; Apr. 20.

Hall, Charles L., and George F. Cram, Detroit, Mich., assignors to The United-Carr Fastener Corporation, Cambridge, Mass. Socket device. 2,317,100; Apr. 20.

Haloid Company, The. (See Dessauer, John, assignor.)

Hammarstrom, Charles J. R., Richmond Hill., N. Y. Container. 2,317,269; Apr. 20.

Hammond, Joseph W., assignor to Olney & Carpenter, Inc., Wolcott, N. Y. Potato dressing apparatus. 2,316,953; Apr. 20.

Hamren, Joseph O., Minneapolis, Minn. Fluid motor. 2,316,788; Apr. 20.

Hancock Oil Company of California. (See Hancock, William T., assignor.)

Hancock, William T., assignor to Hancock Oil Company of California, Long Beach, Calif. Treating petroleum hydrocarbons. 2,316,954; Apr. 20.

Handy, Arthur E., Lynbrook, assignor to Otis Elevator Company, New York, N. Y. Stock line indicator. 2,316,955; Apr. 20.

Hanks, Clarence, et al. (See Koenig, Carl J.)

Hansen, Oliver, Detroit, Mich. Egg beater. 2,316,861; Apr. 20.

Hanson, Carl C., Albert Lea, Minn. Cultivator. 2,317,188; Apr. 20.

Hardgrove, Ralph M., Westfield, assignor to The Babcock & Wilcox Company, Newark, N. J. Fluid system. 2,316,764; Apr. 20.

Harris, Mark, Birmingham, Mich., assignor to Stewart-Warner Corporation, Chicago, Ill. Fluid dispensing gun. 2,317,270; Apr. 20.

Harris-Seybold-Potter Company. (See Pabich, W. R., and Tellfors, assignors.)

Harris-Seybold-Potter Company. (See Spiller, William R., assignor.)

Harrisburg Steel Corporation. (See Nelson, Tom H., assignor.)

Hart, Fred V., Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Making lasts. 2,316,863; Apr. 20.

Heath, Harry E., assignor to Stanolind Pipe Line Company, Tulsa, Okla. Valve locking device. 2,316,956; Apr. 20.

Hehemann, Frederick H., assignor to The Lunkenheimer Company, Cincinnati, Ohio. Valve. 2,316,957; Apr. 20.

Hehr, Addison, West Los Angeles, Calif. Drawing instrument. 2,317,052; Apr. 20.

Helgis, Henry E., West Orange, and A. Towart, Jr., Caldwell, assignors to Specialties Development Corporation, Bloomfield, N. J. High pressure fluid medium distribution system. 2,316,789; Apr. 20.

Heimberger, George F., McKeesport, Pa. Micrometer gauge. 2,316,864; Apr. 20.

Helser, Myron G., Cedar Grove, N. J., J. M. von Bergen, Bridgeport, and W. A. Bogg, Fairfield, Conn., assignors to General Electric Company. Wiring device. 2,317,189; Apr. 20.

Helbush, Herman H. (See Wallace, Frank C., assignor.)

Helmond, William F., Clinton, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 2,316,865; Apr. 20.

Hemphill Company. (See Green, Isaac H. C., assignor.)

Henderson, Lawrence M. (See Ayers, G. W., Jr., and Henderson.)

Henderson, Lawrence M. (See McNamara, T. L., and Henderson.)

Henderson, Lawrence M., Winnetka, assignor to The Pure Oil Company, Chicago, Ill. Alkali treatment of hydrocarbon oils. 2,317,053; Apr. 20.

Henderson, Lawrence M., Winnetka, and G. W. Ayers, Jr., assignors to The Pure Oil Company, Chicago, Ill. Method of treating petroleum oils. 2,317,054; Apr. 20.

Henderson, Lawrence M., Winnetka, G. W. Ayers, Jr., Chicago, and D. C. Bond, Northbrook, assignors to The Pure Oil Company, Chicago, Ill. Removing organic acidic substances from hydrocarbon fluids. 2,317,055; Apr. 20.

Henderson, Lawrence M., Winnetka, and D. C. Bond, Northbrook, assignors to The Pure Oil Company, Chicago, Ill. Removing acidic constituents from organic liquids. 2,317,056; Apr. 20.

Henshaw, Richard C., assignor to Lord Manufacturing Company, Erie, Pa. Mounting. 2,317,190; Apr. 20.

Herbener, Henry M., Thomasville, Ga. Garter and fabric band. 2,316,958; Apr. 20.

Herrlein, Fritz. (See Weihe, A., and Herrlein.)

Hetherington, John. (See Hilton, L. M., and Hetherington.)

Hiatt, Gordon D., and L. W. Blanchard, Jr., assignors to Eastman Kodak Company, Rochester, N. Y. Preparing cellulose esters. 2,316,866; Apr. 20.

Hickey, Henri J., Beverly Hills, Calif. Internal combustion engine. 2,316,790; Apr. 20.

Higby, Tracy A., Boise, Idaho. Pneumatic spring. 2,317,057; Apr. 20.

Higley, Frank R., and V. O. Beam, Cleveland Heights, Ohio, assignors to The Bryant Heater Company, Cleveland, Ohio. Snap valve. 2,317,271; Apr. 20.

Hilgeman, Carl F. (See Shelby, A., and Hilgeman.)

Hill, Robert H., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Horn motor and relay unit. 2,317,058; Apr. 20.

Hilton, Louis M., Stanmore, and J. Hetherington, West Ealing, London, assignors to The Fairey Aviation Company Limited, Hayes, Middlesex, England. Sighting apparatus for use on aircraft and for like purposes. 2,317,059; Apr. 20.

Hines, Claude M., Pittsburgh, and D. R. Borst, Pitcairn, assignors to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake control means. 2,317,133; Apr. 20.

Hines, Claude M. (See Crittenden, P. L., and Hines.)

Hines, Claude M., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Wheel slip responsive means. 2,317,146; Apr. 20.

Hinkley, Ray A., and J. L. Miller, assignors to Corning Glass Works, Corning, N. Y. Apparatus for coating articles. 2,316,959; Apr. 20.

Hobbs, James C., Painesville, Ohio. Fluid circulation apparatus. 2,316,765; Apr. 20.

Hoelscher, William G., assignor to The American Tool Works Company, Cincinnati, Ohio. Safety device for radial drill arm elevating screws. 2,317,060; Apr. 20.

Hoffmann-La Roche Inc. (See Warnat, Kurt, assignor.)

Holbrook, Bernard D., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 2,317,191; Apr. 20.

Holbrook, Thomas L. (See Dickson, J. B., and Holbrook.)

Holzwarth Gas Turbine Co. (See Schaper, Georg, assignor.)

Homelaya, Incorporated. (See Rosenberg, Jacob E., assignor.)

Hood, Stanley R. (See Alban, C. F., and Hood.)

Hopp, Harold P., Englewood, N. J., and E. Kunzelman, Mount Vernon, assignors to H. K. Metal Craft Manufacturing Co., New York, N. Y. Chain ladder. 2,317,193; Apr. 20.

Hopp, Leo, New York, N. Y. Price ticket molding. 2,317,192; Apr. 20.

Horton, Erwin C. (See Rappl, A., and Horton.)

Hosiery Patents Incorporated. (See Weisbecker, Frank G., assignor.)

Hovey, C. Earl, trustee. (See Hagstrom, J. E., and Olsen, assignors.)

Howard, Stanley R., Milton, assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Packaging machine. 2,316,867; Apr. 20.

Hufferd, Ralph W. (See McCluer, W. B., Hufferd, and Philippbar.)

Hughes, David W., Susquehanna, Pa. Screen attachment for eaves troughs. 2,317,272; Apr. 20.

Hummel & Downing Company. (See Ethridge, Albert S., assignor.)

Humphrey, Homer D., assignor to Bendix-Westinghouse Automotive Air Brake Company, Pittsburgh, Pa. Brake mechanism. 2,317,194; Apr. 20.

Hunt, Seymour, Flushing, N. Y., assignor to Radio Corporation of America. Frequency modulation detector. 2,316,868; Apr. 20.

Hurleman, Walter. (See Weightman, W. A., and Hurleman.)

Husted, George E., San Francisco, Calif. Clamp. 2,317,195; Apr. 20.

Husted, George E., San Francisco, Calif. Combination strut. 2,317,196; Apr. 20.

Hutchison, Harold W., Miami, Fla. Puzzle. 2,317,273; Apr. 20.

Hydraulic Development Corporation, Inc. (See Ernst, Walter, assignor.)

Hyster, Willamette, Company. (See Dimick, Henry M., assignor.)

Iler, Ralph K. (See Wallace, E. H., and Iler.)

Industrial Timer Corp. (See Tamburr, V. E., and Neidenberg, assignors.)

Ingersoll, Homer H., assignor to Kalasign Company of America, Kalamazoo, Mich. Motor. 2,316,960; Apr. 20.

Inman, George E., East Cleveland, Ohio, and W. C. Smitley, Jackson, Miss., assignors to General Electric Company. Electric lamp. 2,317,061; Apr. 20.

International Cigar Machinery Company. (See Carlson, Hjalmar E., assignor.)

International Cigar Machinery Company. (See Gladeck, Frederick C., assignor.)

International Cigar Machinery Company. (See Wheeler, Henry H., assignor.)

International Nickel Company, The. (See Gagnebin, Albert P., assignor.)

International Standard Electric Corporation. (See Gibson, William T., assignor.)

International Steel Wool Corporation. (See Stybr, Miles A., assignor.)

Interwoven Stocking Company. (See Thurston, P. L., and Nagley, assignors.)

Interwoven Stocking Company. (See Thurston, Paul L., assignor.)

Irwin, Oliver C., New York, N. Y., assignor, by mesne assignments, to Standard Cap and Seal Corporation, Chicago, Ill. Refrigerating system. 2,316,791; Apr. 20.

Irwin, Oliver C., New York, N. Y., assignor, by mesne assignments, to Standard Cap and Seal Corporation, Chicago, Ill. Refrigerating system. 2,316,792; Apr. 20.

Israel, Gertrude. (See Stern, Yermie, assignor.)

Isted, Donald C. (See Lovell, L. L., Isted, and Ortynsky.)

Jabour, Samuel, Irvington, N. J. Stripping implement. 2,316,869; Apr. 20.

Jackson, Edwin C. (See Travilla, J. C., Jr., and Jackson.)

Jackson, Paul S., assignor to Rockford Machine Tool Company, Rockford, Ill. Hydraulic machine tool. 2,316,871; Apr. 20.

Jacob, George N., Jr., Belleville, and E. B. Wright, Jr., Montclair, N. J. Manufacture of brushes. 2,316,870; Apr. 20.

Jacobson, Arthur E., Alexandria, Minn. Eye exerciser. 2,317,197; Apr. 20.

Janes, Clinton S., Elmira Heights, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Engine starter drive. 2,317,327; Apr. 20.

Jawurek, William. (See Bradley, F. L., Stumpp, and Jawurek.)

Jeffrey Manufacturing Company, The. (See Lemmon, Alexis W., assignor.)
Jervis, Fred, Los Angeles, Calif., assignor, by mesne assignments, to Bardco Manufacturing & Sales Company, Dayton, Ohio. Alternator control system. 2,317,062; Apr. 20.
Jessen, Robert F. (See Tobias, F. J., and Jessen.)
Johns-Manville Corporation. (See Sigloch, L. C., and Lund, assignor.)
Johnson, George T., Denver, Colo. Combustion chamber. 2,316,794; Apr. 20.
Johnson, Harry S. (See McKee, Graydon S., Wilson, and Johnson.)
Johnson, Oscar A., assignor to Riley Stoker Corporation, Worcester, Mass. Rotary feeder. 2,317,274; Apr. 20.
Johnson, Roy W., Milwaukee, Wis. Conversion oil control device. 2,317,063; Apr. 20.
Johnson, William H., Cranston, assignor to Weskenson Corporation, Providence, R. I. Infinitely variable speed transmission. 2,316,793; Apr. 20.
Josephian, William, Oakland, Calif. Tank truck. 2,317,064; Apr. 20.
Kaelin, Edward S., assignor to F. C. Kingston, Los Angeles, Calif. Valve. 2,317,065; Apr. 20.
Kahl, John O., assignor to Acme Gear & Machine Company, Philadelphia, Pa. Spraying machine. 2,317,066; Apr. 20.
Kahler, William H. (See Costa, J. L., and Kahler.)
Kalasign Company of America. (See Ingersoll, Homer H., assignor.)
Kasper, Cass S., Detroit, Mich., assignor to The Midland Steel Products Company, Cleveland, Ohio. Sheet metal forming equipment. 2,317,198; Apr. 20.
Keen, Thomas A., San Mateo, and J. Kilburg, Redwood City, Calif., assignor, by direct and mesne assignments of one-half to H. M. Smith, Chicago, Ill., and one-half to said T. A. Keen. Control for ticket printing and issuing machines. 2,317,147; Apr. 20.
Kemmerer, Ralph R., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,316,961; Apr. 20.
Kendall, James W. (See Potter, C. E., and Kendall.)
Kendall Refining Company. (See McCluer, W. B., Hufferd, and Philippbar, assignors.)
Kennedy-Van Saun Mfg. & Eng. Corporation. (See Laboulais, Jean L., assignor.)
Kerlow Steel Flooring Company. (See Bunker, Herbert H., assignor.)
Kernen, Robert R., Georgetown, Ky. Thermal control for electric circuit. 2,316,872; Apr. 20.
Kerr, Howard J., Westfield, assignor to The Babcock & Wilcox Company, Newark, N. J. Boiler apparatus 2,316,763; Apr. 20.
Kilburg, James. (See Keen, T. A., and Kilburg.)
Killian, Stanley C. (See Cornell, E. S., Fjelistedt, and Killian.)
Kimmig, J. (See Vonkennel, J., and Kimmig.)
Kinatome Patents Corporation. (See Foster, W. D., and Sweet, assignors.)
King Seeley Corporation. (See Bell, Rupert B., assignor.)
Kingston, Frederick C. (See Kaelin, Edward S., assignor.)
Kinney, Paul W., assignor to Armstrong Cork Company, Lancaster, Pa. Coated cork composition. 2,317,328; Apr. 20.
Kinney, Robert C., Malden, Mass. Sewing case. 2,317,200; Apr. 20.
Kinzie, Phillip A., Denver, Colo. Hydraulic motor gear. 2,317,275; Apr. 20.
Kirschbaum, Harry M., Detroit, Mich. Electromagnetic sound recorder. 2,317,199; Apr. 20.
Kitchen, Robert G. (See Brolus, Henry W., assignor.)
Knapp-Monarch Company. (See Dafforn, Kenneth B., assignor.)
Knaust, Henry E., assignor to Vita Sales Corporation, St. Louis, Mo. Container. 2,317,067; Apr. 20.
Knell, Christopher V. (See Crafts, C. S., and Knell.)
Knight, Milton, Perrysburg, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Pressure apparatus. 2,317,276; Apr. 20.
Knuth, Harvey G., Elgin, assignor to Modern Steel Equipment Company, Geneva, Ill. Closure fastener. 2,317,277; Apr. 20.
Koenig, Carl J., Kenmore, N. Y., assignor of one-third to P. O. Mix, Cleveland, and one-third to C. Hanks, Euclid, Ohio. Fastener. 2,317,201; Apr. 20.
Kohlhagen, Walter, Elgin, Ill., assignor to Waterbury Clock Company, Waterbury, Conn. Apparatus for timing impulses. 2,317,202; Apr. 20.
Kollsman, Paul, New York, N. Y., assignor, by mesne assignments to Square D Company, Detroit, Mich. Remote indicating compass. 2,316,873; Apr. 20.
Kraft, Herman T., assignor to The General Tire & Rubber Company, Akron, Ohio. Cone clutch. 2,316,874; Apr. 20.
Kramarenko, Alexandre. (See Wilen, C. H., and Kramarenko.)
Kroger Grocery & Baking Company, The. (See Lothes, Herbert G., assignor.)
Kucki, Vincent S., Chicago, Ill. Liquid measuring device. 2,317,068; Apr. 20.
Kunzelman, Edward. (See Hopp, H. P., and Kunzelman.)
Kurhan, Maurice, Brookline, Mass. Display box. 2,317,203; Apr. 20.
L. S. D., Inc. (See Yochem, Donald E., assignor.)
Laboulais, Jean L., New York, N. Y., assignor to Kennedy-Van Saun Mfg. & Eng. Corporation. Pulverizing mill control system. 2,316,875; Apr. 20.
Lake, Ross A., Oak Park, assignor to Teletype Corporation, Chicago, Ill. Keyboard perforator. 2,316,795; Apr. 20.
La Mar, Charles R., Long Beach, Calif. Tone equalizing mechanism. 2,317,069; Apr. 20.
Landis & Gyr, A-G. (See Weber, Ernst, assignor.)
Larsen, Thomas H., Washington, D. C. Masonry chipping machine. 2,317,148; Apr. 20.
Larson, Uno L., Gary, Ind. Drain trap. 2,317,278; Apr. 20.
Laucks, I. F., Inc. (See Linquist, George F., assignor.)
Laughlin, Foster, Dayton, Ohio. Blower for clothes pressing machines. 2,317,279; Apr. 20.
Le Blond, R. K., Machine Tool Company, The. (See Groene, W. F., and Siekmann, assignors.)
Lecky, Herbert S., assignor to Purdue Research Foundation, West Lafayette, Ind. Rectifying column. 2,317,101; Apr. 20.
Lemanski, Theodore R., Belleville, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Manufacture of vinyl resins. 2,317,149; Apr. 20.
Lemmon, Alexis W., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Take-up mechanism for conveyer apparatus. 2,317,235; Apr. 20.
Le Tourneau, R. G., Inc. (See Le Tourneau, Robert G., assignor.)
Le Tourneau, Robert G., Peoria, Ill., assignor to R. G. Le Tourneau, Inc. Shaft and hub connection. 2,317,070; Apr. 20.
Le Tourneau, Robert G., Peoria, Ill., assignor to R. G. Le Tourneau, Inc. Bowl mounting. 2,317,280; Apr. 20.
Libbey-Owens-Ford Glass Company. (See Knight, Milton, assignor.)
Lichter, Malvin, assignor to Stickless Corporation, New York, N. Y. Tissue container. 2,316,796; Apr. 20.
Lichter, Malvin, New York, N. Y. Wall pocket. 2,316,797; Apr. 20.
Line Material Company. (See Schutz, W. O., and Steinmayer, assignors.)
Linquist, George F., assignor to I. F. Laucks, Inc., Seattle, Wash. Edge gluing process. 2,317,281; Apr. 20.
Lockwood, Louis H., Rohrerstown, assignor to Armstrong Cork Company, Lancaster, Pa. Apparatus for making closures. 2,317,330; Apr. 20.
Logue, Leland H. (See Daman, A. C., Logue and Bailey, Jr.)
Lopez-Henriquez, Miguel, New York, N. Y. Moving picture film and projecting apparatus. 2,317,282; Apr. 20.
Lord Manufacturing Company. (See Henshaw, Richard C., assignor.)
Lothes, Herbert G., assignor to The Kroger Grocery & Baking Company, Cincinnati, Ohio. Slicing machine. 2,316,876; Apr. 20.
Lovell, Lawrence L., D. C. Isted, Wood River, and R. L. Ortynsky, Alton, Ill., assignors to Shell Development Company, San Francisco, Calif. Asphalt manufacture. 2,317,150; Apr. 20.
Lowenthal, Fred, Brooklyn, N. Y. Picture hanger. 2,317,204; Apr. 20.
Lowit, Rudolf, Auburn, Maine, assignor to Callite Tungsten Corporation, Union City, N. J. Method of working metals. 2,317,205; Apr. 20.
Luck, David G. C., Merchantville, N. J., assignor to Radio Corporation of America. Antenna circuit modulation system. 2,317,071; Apr. 20.
Luebbe, Cletus L., Fort Totten, Long Island, N. Y. Kinetic projector. 2,316,798; Apr. 20.
Lumelite Corporation. (See Wood, Howard B., assignor.)
Lund, Charles W. (See Sigloch, L. C., and Lund.)
Lunkenheimer Company, The. (See Hehemann, Frederick H., assignor.)
Lunsford, Jesse B. (See Seaman, E. F., and Lunsford.)
Lynger, Erik Sigfrid, Stockholm, Sweden, assignor, by mesne assignments, to Servel, Inc., New York, N. Y. Refrigeration. 2,317,283; Apr. 20.
Lynn, George E., F. W. Fletcher and G. H. Coleman, assignors to The Dow Chemical Company, Midland, Mich. Contact parasiticide. 2,316,962; Apr. 20.
Maag, Max, Zurich, Switzerland. Micrometer gauge. 2,316,877; Apr. 20.
Macdonald, Kenneth W., Watertown, assignor to Compo Shoe Machinery Corporation, Boston, Mass. Shoe pressing machine. 2,317,151; Apr. 20.
MacIver, Charles P. (See Beckwith, E. L., and MacIver.)
Magnusson, Elis M., Stockholm, Sweden, assignor, by mesne assignments, to Ekonomiregister Inc., New York, N. Y. Bookkeeping machine. 2,317,284; Apr. 20.
Maher, George R. (See Atkinson, C. L., and Maher.)
Major, Sidney H., Storm Lake, Iowa. Educational toy. 2,317,206; Apr. 20.
Mandalon, Nick, New York, N. Y. Finger sponge device. 2,316,878; Apr. 20.
Manning, Maxwell & Moore, Incorporated. (See Oxland, Frederick G., assignor.)
Manville Jenckes Corporation. (See Costa, J. L., and Kahler, assignors.)

Marck, Mildred, San Diego, Calif. Combination hair and hat fastener. 2,317,207; Apr. 20.
Markle, George B., Jr., assignor to Freeland Spool and Bobbin Corp., Hazelton, Pa. Self-locking arbor for supporting tubes forming headless spools or the like. 2,317,208; Apr. 20.
Marple, Elmore B., Wichita, Kans. Float for an aircraft. 2,317,285; Apr. 20.
Marsh, Leona. (See Brennan, J. B., and Marsh.)
Martin, Claude W., Gold Hill, Oreg. Tire tool. 2,317,072; Apr. 20.
Martin-Decker Corporation. (See Martin, Walter R., assignor.)
Martin, Henry, Basel, W. Baumann, Arlesheim, near Basel, and H. Gysin, assignors to J. R. Geigy A. G., Basel, Switzerland. Furane-dicarboxylic-acid-amides and their manufacture. 2,317,286; Apr. 20.
Martin, James L. (See Wessenger, H. B., and Martin.)
Martin, Walter R., assignor to Martin-Decker Corporation, Long Beach, Calif. High pressure diaphragm unit for fluid pressure gauges. 2,317,073; Apr. 20.
Masonite Corporation. (See Chilson, Warren A., assignor.)
Masse, Thomas J., Alexandria, near Sydney, New South Wales, Australia. Method and apparatus for separating textile material from rubber. 2,317,210; Apr. 20.
Matica, Albert. (See Farago, Joseph, assignor.)
Mattson, Emil, Chester Depot, assignor to Bryant Chucking Grinder Company, Springfield, Vt. Mechanism for truing holes. 2,316,879; Apr. 20.
Mayberry, Milo G. (See McKinney, P. V., and Mayberry.)
McBride, John W., Burbank, Calif. Stringed musical instrument. 2,316,799; Apr. 20.
McBride, John W., Burbank, Calif. Stringed musical instrument. 2,316,800; Apr. 20.
McCluer, Wilbert B., R. W. Hufferd, and F. J. Philippbar, assignors to Kendall Refining Company, Bradford, Pa. Impregnated fibrous materials. 2,317,209; Apr. 20.
McCombs, Arnold R., assignor to Armstrong Cork Company, Lancaster, Pa. Closure. 2,317,287; Apr. 20.
McCubbin, Ross C., Auburn, Calif. Road marking machine. 2,317,288; Apr. 20.
McCune, Joseph C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electropneumatic brake. 2,317,134; Apr. 20.
McCurdy, Ralph E. (See Mick, J. M., and McCurdy.)
McDonald, A. Y., Mfg. Co. (See Groen, Christopher, assignor.)
McDonald, Walter P., Oklahoma City, Okla. Table type bowling apparatus. 2,317,289; Apr. 20.
McFarland, Eldo, Sterling, Kans. Load lifting and dumping machine. 2,317,075; Apr. 20.
McGrew, Frank C. (See Coffman, D. D., and McGrew.)
McIlvried, Edwin J., Stow, assignor to The Vaughn Machinery Company, Cuyahoga, Ohio. Winding apparatus. 2,317,290; Apr. 20.
McIntyre, Brouwer D., assignor to Monroe Auto Equipment Company, Monroe, Mich. Liner or spacer for leaf springs. 2,317,291; Apr. 20.
McKaig, Albert S., Jr., New Orleans, La., assignor to Owens-Illinois Glass Company. Cotton dispenser. 2,317,102; Apr. 20.
McKee, Graydon S., Washington, W. M. Wilson, Beaver, and H. S. Johnson, Pittsburgh, Pa. Coccidicide. 2,316,963; Apr. 20.
McKesson & Robbins, Incorporated. (See Omohundro, A. L., and Fanto, assignors.)
McKinney, Paul V., and M. G. Mayberry, Pittsburgh, Pa., assignors to The Pure Oil Company, Chicago, Ill. Mastic composition and preparing same. 2,316,964; Apr. 20.
McKinnon, Columbus, Chain Corp. (See Parker, H. F., and Robins, assignors.)
McLachlan, Dan, Jr., Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Specimen holder for X-ray analyses. 2,317,329; Apr. 20.
McLaughlin, William H., and G. H. Rendel, Gary, Ind. Apparatus for operating on strip metal. 2,316,801; Apr. 20.
McNamara, Timothy L., Arlington Heights, and L. M. Henderson, Winnetka, assignors to The Pure Oil Company, Chicago, Ill. Method of removing weakly acidic bodies from hydrocarbon fluids. 2,316,965; Apr. 20.
McNamara, Timothy L., Arlington Heights, and L. M. Henderson, Winnetka, assignors to The Pure Oil Company, Chicago, Ill. Removing organic acidic substances from hydrocarbon fluids. 2,316,966; Apr. 20.
Mearig, Henry K., assignor to Armstrong Cork Company, Lancaster, Pa. Method and apparatus for the manufacture of cork composition. 2,317,331; Apr. 20.
Meier, Ida L., Philadelphia, Pa. Manufacture of dental crowns. 2,317,103; Apr. 20.
Mennecier, Maurice, San Fernando, Trinidad, British West Indies, assignor to Schlumberger Well Surveying Corporation, Houston, Tex. Gun fire control apparatus. 2,317,238; Apr. 20.
Merck & Co. (See Ruigh, William L., assignor.)
Merola, Ciro, Bayonne, N. J. Garment with adjustable collar. 2,316,802; Apr. 20.
Meyer, George W. (See Dewey, D. B., and Meyer.)
Michaelis, Walter, Brussels-Forest, Belgium, assignor, by mesne assignments, to Chromogen, Incorporated. Photographic material for taking color photographs. 2,316,803; Apr. 20.
Mick, John J., Needham, and R. E. McCurdy, Wellesley, Mass., assignors to The B. F. Goodrich Company, New York, N. Y. Acid resistant containers. 2,317,076; Apr. 20.
Micromatic Hone Corporation. (See Peden, Douglas T., assignor.)
Mida, Lucia G., Chicago, Ill. Blackout. 2,317,074; Apr. 20.
Midland Steel Products Company, The. (See Kasper, Cass S., assignor.)
Midland Steel Products Company, The. (See Riemenschneider, Ernest, assignor.)
Midland Steel Products Company. (See Rylander, Andrew E., assignor.)
Midway Chemical Co. (See Domenk, Paul J., assignor.)
Miller, George, San Marino, Calif. Oil base drilling fluid and regenerating the same. 2,316,967; Apr. 20.
Miller, George, San Marino, Calif. Oil base drilling fluid. 2,316,968; Apr. 20.
Miller, John L. (See Hinkley, R. A., and Miller.)
Miller, Walter L., Teaneck, N. J. Archery bow. 2,316,880; Apr. 20.
Mining Process and Patent Company. (See Daman, A. C., Logue and Bailey, Jr., assignors.)
Mitchell Glass Company, The. (See Mitchell, William B., assignor.)
Mitchell, William B., assignor to The Mitchell Glass Company, Bradford, England. Glass shaping machine. 2,316,969; Apr. 20.
Mix, Paul O., et al. (See Koening, Carl J., assignor.)
Modern Steel Equipment Company. (See Knuth, Harvey, G., assignor.)
Monogram Manufacturing Co. (See Wallace, Frank C., assignor.)
Monroe Auto Equipment Company. (See McIntyre, Brouwer D., assignor.)
Monroe Auto Equipment Company. (See Whisler, Ralph H., Jr., assignor.)
Moore, Paul B., assignor to York Ice Machinery Corporation, York, Pa. Air conditioning. 2,317,104; Apr. 20.
Morgan, Erving B., assignor to American Seating Company, Grand Rapids, Mich. Furniture support. 2,317,077; Apr. 20.
Morse, Albert W., Forest Hills, and V. Singer, Glendale, assignors to The Anthony Company, Long Island City, N. Y. Oil burner. 2,316,881; Apr. 20.
Moseley, James T. W., Clayton, and G. E. Seldon, Kirkwood, assignors to Carter Carburetor Corporation, St. Louis, Mo. Carburetor vapor relief valve. 2,316,882; Apr. 20.
Motor Wheel Corporation. (See Stough, Charles R., assignor.)
Mountjoy, Garrard, Manhasset, N. Y., assignor to Radio Corporation of America. Dual signal frequency transmission network. 2,316,883; Apr. 20.
Mudon, Thomas J., assignor to Safe Delay Switch Corporation, Chicago, Ill. Time delay mechanism. 2,317,078; Apr. 20.
Mullins Manufacturing Corporation. (See Adams, Marshall B., assignor.)
Musher Foundation, Incorporated. (See Musher, Sidney, assignor.)
Musher, Sidney, assignor to Musher Foundation, Incorporated, New York, N. Y. Tin can container. 2,316,804; Apr. 20.
Nagley, David. (See Thurston, P. L., and Nagley.)
Nash Engineering Company. (See Adams, Harold E., assignor.)
Nash-Kelvinator Corporation. (See Philipp, Lawrence A., assignor.)
Nash, Ralph W. E., Nashua, N. H. Bag loading or filling device. 2,317,292; Apr. 20.
National Lead Company. (See Cole, Sandford S., assignor.)
Neidenberg, Lawrence L. (See Tamburr, V. E., and Neidenberg.)
Nelson, Tom H., Villanova, assignor to Harrisburg Steel Corporation, Harrisburg, Pa. Method of hardening cylinders, pump liners, and the like. 2,317,211; Apr. 20.
Nesbitt, Ethan A., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Magnetic material. 2,317,294; Apr. 20.
Nesbitt, Ethan A., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Permanent magnet and production. 2,317,295; Apr. 20.
Neunherz, Herbert W., Gardner, Mass. Hinge guard for sofa beds. 2,317,105; Apr. 20.
New Haven Clock Company, The. (See Whitehead, Richard H., assignor.)
Newell, William H., New York, assignor to Ford Instrument Company, Inc., Long Island City, N. Y. Computer mechanism. 2,317,293; Apr. 20.
Newman, Delbert F., Schenectady, N. Y., assignor to General Electric Company. Food storage receptacle for refrigerators. 2,317,212; Apr. 20.
News Syndicate Co. (See Crafts, C. S., and Knell, assignors.)
Niedermayer, Anton, Philadelphia, Pa. Handle. 2,316,985; Apr. 20.

Nitsche, Erich. (See Walbel, F., and Nitsche.)
Noftzinger, Earl E., assignor to Gibson Electric Refrigerator Corporation, Greenville, Mich. Cabinet structure. 2,317,296; Apr. 20.
Nolet, Alfred. (See Daignault, A., and Nolet.)
Nummelin, Arthur A., Inglewood, Calif. Speed drill. 2,317,106; Apr. 20.
Oberright, Edward A. (See Reiff, O. M., Otto, Giammaria and Oberright.)
Oesch, Clark R., Atwater, Ohio. Educational device. 2,317,107; Apr. 20.
Oliver, John R., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Gauging means for taping machines. 2,316,884; Apr. 20.
Oliver United Filters Incorporated. (See Oliver, W. H., and Orswell, assignors.)
Oliver, Wallace F., assignor to Bendix Home Appliances, Inc., South Bend, Ind. Cleaning machine. 2,317,213; Apr. 20.
Oliver, William H., Oakland, and M. C. Orswell, Tujunga, assignors to Oliver United Filters Incorporated, Oakland, Calif. Filter. 2,317,108; Apr. 20.
Olmstead, Floyd. (See Wilson, L., and Olmstead.)
Olney & Carpenter, Inc. (See Hammond, Joseph W., assignor.)
Olsen, Olaf C. (See Hagstrom, J. E., and Olsen.)
Omohundro, Allen L., Wilton, and E. C. Fanto, Fairfield, assignors to McKesson & Robbins, Incorporated, Bridgeport, Conn. Dentifrices. 2,317,297; Apr. 20.
O'Neil, Earl W., Port Henry, N. Y. Animal trap. 2,316,970; Apr. 20.
Orswell, Merrill C. (See Oliver, W. H., and Orswell.)
Ortega, Carlos, New York, N. Y. Airplane. 2,316,885; Apr. 20.
Ortynsky, Roman L. (See Lovell, L. L., Isted, and Ortynsky.)
Oshkosh Trunks and Luggage. (See Plotkin, Joseph H., assignor.)
Otis Elevator Company. (See Handy, Arthur E., assignor.)
Otis Elevator Company. (See Sahlin, Eric A., assignor.)
Ott, Latour O. (See Fielder, H. S., and Ott.)
Otto, Ferdinand P. (See Reiff, O. M., Otto, Giammaria, and Oberright.)
Overacker, Frank S., H. G. Thorn, and D. E. Wark, Klickitat, Wash. Measuring board and cutoff atop. 2,316,971; Apr. 20.
Overhead Loader Corporation. (See Andersen, Thomas K., and Tengel, assignors.)
Overholser, Henry D., Tujunga, assignor of one-half to F. R. Crandall, Los Angeles, Calif. Floor conditioning machine. 2,316,805; Apr. 20.
Owens-Illinois Glass Company. (See McKaig, Albert S., Jr., assignor.)
Oxland, Frederick G., assignor to Manning, Maxwell & Moore, Incorporated, Bridgeport, Conn. Pressure gauge. 2,317,109; Apr. 20.
Pabich, Walter R., and H. Telifors, Chicago, Ill., assignors to Harris-Seybold-Potter Company, Cleveland, Ohio. Stitching machine. 2,317,298; Apr. 20.
Packard Motor Car Company. (See Paton, Clyde R., assignor.)
Pappas, Peter, New Haven, Conn. Coffee-making apparatus. 2,317,214; Apr. 20.
Parker, Arthur L., Cleveland, Ohio. Tube coupling. 2,316,806; Apr. 20.
Parker, Humphrey F., Kenmore, and E. E. Robins, assignors to Columbus McKinnon Chain Corp., Tonawanda, N. Y. Hook block. 2,317,215; Apr. 20.
Parker, Victor L., Cedar Falls, Wash. Bulb grading machine. 2,316,986; Apr. 20.
Pascucci, Eugenio, Hamilton Township, Mercer County, near Trenton, N. J. Grinding machine. 2,316,886; Apr. 20.
Pate, Walker M., and Harvey E. Burgdorf, Ferguson, Mo. Fuel injection system. 2,316,887; Apr. 20.
Paton, Clyde R., Birmingham, assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle power transmission control. 2,317,216; Apr. 20.
Peden, Douglas T., Ann Arbor, assignor to Micromatic Hone Corporation, Detroit, Mich. Honing machine. 2,317,079; Apr. 20.
Peltzer, Albert, San Francisco, Calif. Starch manufacturing process. 2,316,807; Apr. 20.
Pennington, Gordon R., Bloomfield Hills, assignor to Chrysler Corporation, Highland Park, Mich. Fluid coupling. 2,317,217; Apr. 20.
Pennsylvania Railroad Company, The. (See Steins, Carleton K., assignor.)
Pennsylvania Wire Glass Company. (See Sherwood, Laurence T., assignor.)
People in the Territory of the United States, Dedicated to the free use of the. (See Bruce, Wesley Gordon, assignor.)
Perkins, George H. (See Bletso, B. N., and Perkins.)
Person, Earl R., Leominster, Mass., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Making brushes. 2,317,110; Apr. 20.
Perwas, Ludwig F., New York, N. Y. Toothbrush cover fastener. 2,317,111; Apr. 20.
Peters, Albert G., Kansas City, Mo. Caulking gun. 2,317,299; Apr. 20.
Peterson, Thomas F., Worcester, Mass. Electric cable. 2,316,808; Apr. 20.
Petitcolas, Pierre, and J. Frenkiel, Rouen, France; vested in the Alien Property Custodian. 2-hydroxy-alkylamino-5-sulphobenzoic acid. 2,316,809; Apr. 20.
Pezzella, Philip C., Brooklyn, N. Y. Spring wheel assembly. 2,317,218; Apr. 20.
Philco Radio and Television Corporation. (See Green, Willard J., assignor.)
Philco Radio and Television Corporation. (See Thompson, Elmer O., assignor.)
Philipp, Lawrence A., assignor to Nash-Kelvinator Corporation, Detroit, Mich. Refrigerating apparatus. 2,317,081; Apr. 20.
Philipp, Lawrence A., assignor to Nash-Kelvinator Corporation, Detroit, Mich. Refrigerating apparatus. 2,317,082; Apr. 20.
Philippbar, Frank J. (See McCluer, Wilbert B., Hufferd, and Philippbar.)
Phillips, Harry, Greenwich, Conn. Cushion support for furniture. 2,317,080; Apr. 20.
Pierce, C. S., Company. (See Whitman, Hyman L., assignor.)
Pierce Governor Company. (See Benjamin, Walter E., assignor.)
Pings, Wilbur B., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Cleaning composition. 2,317,112; Apr. 20.
Pioneer Parachute Company. (See Smith, Floyd, assignor.)
Pittet, Henri, Biere-La-Croix, France; vested in the Alien Property Custodian. Electric device for distant indication. 2,316,987; Apr. 20.
Plotkin, Joseph H., Chicago, Ill., assignor to Oshkosh Trunks and Luggage, Oshkosh, Wis. Luggage construction. 2,317,083; Apr. 20.
Pneumatic Scale Corporation, Limited. (See Howard, Stanley R., assignor.)
Pond, Leander N., assignor to Corning Glass Works, Corning, N. Y. Coating apparatus. 2,316,972; Apr. 20.
Porter, John L., and Irving R. Funk, Long Beach, Calif., assignors to Richfield Oil Corporation. Production of petroleum. 2,317,219; Apr. 20.
Potter, Charles E., Richmond Heights, and J. W. Kendall, St. Louis, Mo., said Kendall assignor to said Potter. Signal system. 2,317,084; Apr. 20.
Powers, John M. (See Russell, Phillip W., assignor.)
Pratt, Charles A., assignor to Goodman Manufacturing Company, Chicago, Ill. Feeding mechanism for shaker conveyers. 2,316,973; Apr. 20.
Pressed Steel Car Company. (See Schlienger, Max A., assignor.)
Process Holdings Company. (See Smith, Nathaniel L., assignor.)
Purdue Research Foundation. (See Lecky, Herbert S., assignor.)
Pure Oil Company, The. (See Ayers, G. W., Jr., and Henderson, assignors.)
Pure Oil Company, The. (See Backoff, W. J., and Williams, assignors.)
Pure Oil Company, The. (See Bond, Donald C., assignor.)
Pure Oil Company, The. (See Henderson, Lawrence M., assignor.)
Pure Oil Company, The. (See Henderson, L. M., and Ayres, Jr., assignors.)
Pure Oil Company, The. (See Henderson, L. M., Ayers, and Bond, assignors.)
Pure Oil Company, The. (See Henderson, L. M., and Bond, assignors.)
Pure Oil Company, The. (See McKinney, P. V., and Mayberry, assignors.)
Pure Oil Company, The. (See McNamara, T. L., and Henderson, assignors.)
Pure Oil Company, The. (See Whittier, W. A., and Stucker, assignors.)
Quarrie, Eugene A. (See Foerste, W., and Quarrie.)
Quinn, Bert A., St. Paul, Minn. Door latch of the bored-in type. 2,317,300; Apr. 20.
Raby, Earl, Kansas City, Mo. Holder attachment for driving tools. 2,317,085; Apr. 20.
Racz, Ernest, assignor to Burroughs Adding Machine Company, Detroit, Mich. Calculating machine. 2,317,086; Apr. 20.
Radio Corporation of America. (See Bond, Donald S., assignor.)
Radio Corporation of America. (See Colvin, John D., assignor.)
Radio Corporation of America. (See Foster, Dudley E., assignor.)
Radio Corporation of America. (See Hunt, Seymour, assignor.)
Radio Corporation of America. (See Luck, David G. C., assignor.)
Radio Corporation of America. (See Mountjoy, Garrard, assignor.)
Radio Corporation of America. (See Stolzenberg, Walter W., assignor.)
Radio Corporation of America. (See Trevor, Bertram, assignor.)
Radio Corporation of America. (See Vossen, Arnold T., assignor.)
Radio Corporation of America. (See Weagant, Roy A., assignor.)

Radio Corporation of America. (See Winlund, Edmond S., assignor.)
Ralston, Anderson W., and R. J. Vander Wal, assignors to Armour and Company, Chicago, Ill. Process of treating building materials. 2,317,301; Apr. 20.
Rappl, Anton, Buffalo, and E. C. Horton, Hamburg, assignors to Trico Products Corporation, Buffalo, N. Y. Pressure relief valve. 2,317,332; Apr. 20.
Ray-O-Matic Fire Guard Company. (See Bliss, Jerome J., assignor.)
Reed-Prentice Corporation. (See Smith, Donald J., assignor.)
Reggie, Christy, Waynesville, N. C. Making shoe platforms. 2,317,220; Apr. 20.
Reichelt, Lester O., Cranford, and D. V. Waters, Flemington, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Control system for machines. 2,317,113; Apr. 20.
Reiff, Orland M., Woodbury, N. J., F. P. Otto, Philadelphia, Pa., J. J. Giammaria, Riverside, and E. A. Oberright, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Mineral oil composition and improving agent therefor. 2,316,880; Apr. 20.
Remington Rand Inc. (See Carissimi, Louis C., assignor.)
Rendel, George H. (See McLaughlin, W. H., and Rendel.)
Republic Aviation Corporation. (See Westberg, Arthur H., assignor.)
Reutter, Frederick R., assignor to Scovill Manufacturing Company, Waterbury, Conn. Cosmetic container. 2,317,087; Apr. 20.
Rhode Island Laboratories, Inc. (See Weil, Maurice A., assignor.)
Richfield Oil Corporation. (See Porter, J. L., and Funk, assignors.)
Richmond Screw Anchor Company. (See Schenk, Tamis C., assignor.)
Riemenschneider, Ernest, Jackson, Mich., assignor to The Midland Steel Products Company, Cleveland, Ohio. Welding apparatus. 2,317,221; Apr. 20.
Riley Stoker Corporation. (See Johnson, Oscar A., assignor.)
Risley, Roger E., assignor to Dresser Manufacturing Company, Bradford, Pa. Saddle gasket. 2,316,974; Apr. 20.
Robertshaw Thermostat Company. (See Weber, Victor, assignor.)
Robins, Erford E. (See Parker, H. F., and Robins.)
Rockford Machine Tool Company. (See Jackson, Paul S., assignor.)
Rockne, Claire E., Napa, Calif. Welding rod connector. 2,316,890; Apr. 20.
Romig, Gerald C., Melrose Park, assignor to American Chemical Paint Company, Ambler, Pa. Method of and material for coating metal surfaces with water insoluble metallic phosphates. 2,316,810; Apr. 20.
Romig, Gerald C., Melrose Park, assignor to American Chemical Paint Company, Ambler, Pa. Coating ferrous metal surfaces with water insoluble metallic phosphates. 2,316,811; Apr. 20.
Ronci, Victor L., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge device. 2,317,222; Apr. 20.
Rosenberg, Jacob E., Pittsburgh, Pa., assignor to Homelaya, Incorporated. Producing pigmented enamel articles. 2,317,114; Apr. 20.
Roth, Morris B., Chicago, Ill. Spectacle case and insert therefor. 2,317,302; Apr. 20.
Rottman, George, Brooklyn, N. Y. End flap construction for cardboard containers. 2,317,223; Apr. 20.
Rowe, William W., Cincinnati, assignor to Cincinnati Industries, Inc., Lockland, Ohio. Impervious fabric and seam therein. 2,316,891; Apr. 20.
Ruge, Arthur C., Cambridge, Mass. Gauge. 2,316,975; Apr. 20.
Ruigh, William L., Princeton, assignor to Merck & Co., Inc., Rahway, N. J. Heterocyclic nitrogen containing compounds, and processes for making the same. 2,317,303; Apr. 20.
Russell, Phillip W., assignor to J. M. Powers, Cleveland Heights, Ohio. Candle burning device. 2,316,812; Apr. 20.
Rydmark, Josef A., Lansdowne, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Turbine blade fastening apparatus. 2,317,338; Apr. 20.
Rylander, Andrew E., Detroit, Mich., assignor to Midland Steel Products Company, Cleveland, Ohio. Portable riveter suspension. 2,317,224; Apr. 20.
Safe Delay Switch Corporation. (See Mudon, Thomas J., assignor.)
Sahlin, Eric A., Harrington Park, N. J., assignor to Otis Elevator Company, New York, N. Y. Car locking device. 2,316,976; Apr. 20.
Salisbury, George F., Kenilworth, assignor to W. H. Salisbury & Co., Chicago, Ill. Coupling for linemen's protective devices. 2,317,088; Apr. 20.
Salisbury, W. H., & Co. (See Salisbury, George F., assignor.)
Sauers, Gordon F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit controller. 2,316,977; Apr. 20.
Saul, Samuel, Jr., Pittsburgh, Pa. Removable tray rack construction. 2,316,892; Apr. 20.
Schafer, Charles J., Denver, Colo., assignor to Goodman Manufacturing Company, Chicago, Ill. Feeding mechanism for shaker conveyers. 2,317,089; Apr. 20.
Schaper, Georg, Mulheim-Ruhr, Germany, assignor to Holzwarth Gas Turbine Co., San Francisco, Calif. Bearer for the stationary vanes of rotary motors. 2,316,813; Apr. 20.
Schara, Earl M., Webster Groves, Mo. Waffle iron. 2,317,225; Apr. 20.
Schemm, Henry R., Detroit, Mich. Feeder. 2,316,814; Apr. 20.
Schenk, Tamis C., Richmond Hill, assignor to Richmond Screw Anchor Company, Inc., Brooklyn, N. Y. Parachute. 2,317,115; Apr. 20.
Schering Corporation. (See Vonkennel, J., and Kimmig, assignors.)
Schlienger, Max A., Bellevue, assignor to Pressed Steel Car Company, Inc., Pittsburgh, Pa. Car dumper. 2,317,333; Apr. 20.
Schlumberger, Conrad, deceased, Paris, France, A. M. L. Doll, administratrix, assignor, by mesne assignments, to Schlumberger Well Surveying Corporation, Houston, Tex. Apparatus for the electrical surveying of boreholes. 2,317,304; Apr. 20.
Schlumberger Well Surveying Corporation. (See Doll, Henri G., assignor.)
Schlumberger Well Surveying Corporation. (See Doll, Henri-Georges, assignor.)
Schlumberger Well Surveying Corporation. (See Mennecier, Maurice, assignor.)
Schlumberger Well Surveying Corporation. (See Schlumberger, Conrad, assignor.)
Schmelzer, Anton C., Cleveland, Ohio. Washing machine. 2,317,117; Apr. 20.
Schmidtke, Albert H., St. Joseph, Mich., assignor, by mesne assignments, to The Greif Bros. Cooperage Corporation, Cleveland, Ohio. Stapling machine. 2,316,988; Apr. 20.
Schneeberger, Leroy O., St. Louis, Mo. Reinforcing clamp. 2,316,978; Apr. 20.
Schreyer, Frederick, Jamaica, assignor of forty-nine percent to W. Bicknese, Jamaica Beach, Jamaica, N. Y. Trap and bait box therefor. 2,316,888; Apr. 20.
Schultz, William O., South Milwaukee, and A. G. Steinmayer, Milwaukee, assignors to Line Material Company, South Milwaukee, Wis. Quick-break disconnect switch. 2,317,118; Apr. 20.
Schwartzwalder, Karl, and R. W. Smith, Flint, assignor to General Motors Corporation, Detroit, Mich. Insulator seal. 2,317,305; Apr. 20.
Sclater-Booth, George L. (See Thys, E., and Sclater-Booth.)
Scott, Ray W., Detroit, Mich. Popcorn machine. 2,316,989; Apr. 20.
Scovill Manufacturing Company. (See Reutter, Frederick R., assignor.)
Sealdsweet Sales Association. (See Weightman, W. A., and Hurleman, assignors.)
Seaman, Ellsworth F., Washington, D. C., and J. B. Lunsford, East Falls Church, Va. Bowling alley. 2,316,990; Apr. 20.
Seaman, Ellsworth F., Washington, D. C., and J. B. Lunsford, East Falls Church, Va. Bowling alley. 2,316,991; Apr. 20.
Sears, Richard W., II, Evanston, Ill. Record. 2,316,815; Apr. 20.
Seeger Refrigerator Company. (See Swedman, Enoch, assignor.)
Seldon, George E. (See Moseley, J. T. W., and Seldon.)
Semet-Solvay Engineering Corporation. (See Burdick, Theodore A., assignor.)
Servel, Inc. (See Lynger, Erik S., assignor.)
Servel, Inc. (See Thomas, Albert R., assignor.)
Seyferth, Harold N., East Detroit, assignor to Ex-Cell-O Corporation, Detroit, Mich. Machine tool. 2,317,226; Apr. 20.
Shaw, T. Edd, Atlanta, Ga. Barber's apron. 2,316,893; Apr. 20.
Shelby, Albert, and C. F. Hilgeman, Buffalo, N. Y., said Hilgeman assignor to said Shelby. Device or apparatus for treating hair. 2,316,894; Apr. 20.
Shell Development Company. (See Armfield, Frederic A., assignor.)
Shell Development Company. (See Lovell, L. L., Isted, and Ortynsky, assignors.)
Shell Development Company. (See Van Ess, P. R., and White, assignors.)
Sheridan, John L., Long Island City, assignor to Custodis Construction Company, Inc., New York, N. Y. Synthetic resin and the preparation thereof. 2,317,116; Apr. 20.
Sherman, Alvin G., Grosse Pointe, Mich., assignor to Globe American Corporation, Kokomo, Ind. Top cover construction for stoves. 2,316,992; Apr. 20.
Sherwin-Williams Company, The. (See Adams, R. C., and Woodworth, assignors.)
Sherwood, George T., Los Angeles, Calif. Hand signal for motorists. 2,317,227; Apr. 20.
Sherwood, Laurence T., Connellsville, assignor to Pennsylvania Wire Glass Company, Philadelphia, Pa. Corrugated glass glazing unit. 2,316,993; Apr. 20.
Shipley, Robert C., Kalamazoo, Mich. Dispensing container. 2,316,979; Apr. 20.

Siekmann, Harold J. (See Groene, W. F., and Siekmann.)

Sigloch, Louis C., Yonkers, and C. W. Lund, Brooklyn, assignors to Johns-Manville Corporation, New York, N. Y. Wall assembly. 2,316,980; Apr. 20.

Silva, Fred P., Los Angeles, Calif. Football kicking trainer. 2,316,994; Apr. 20.

Shimek, Edwin J., Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Master control for electric seismographs. 2,317,334; Apr. 20.

Shroyer, Jacob L., Oak Park, assignor to Edison General Electric Appliance Company, Inc., Chicago, Ill. Electric heater. 2,317,228; Apr. 20.

Singer Manufacturing Company, The. (See Zeier, Frederick F., assignor.)

Singer, Vincent. (See Morse, A. W., and Singer.)

Slayter, Games. (See Thomay, John, assignor.)

Smith, Arvid, Los Angeles, Calif. Quick release gun holder. 2,316,995; Apr. 20.

Smith, Donald J., Vancouver, British Columbia, Canada, assignor to Reed-Prentice Corporation, Worcester, Mass. Cutoff saw. 2,316,996; Apr. 20.

Smith, Donald J., Vancouver, British Columbia, Canada, assignor to Reed-Prentice Corporation, Worcester, Mass. Tensioning means for chain saws. 2,316,997; Apr. 20.

Smith, Floyd, Manchester, assignor to Pioneer Parachute Company, Inc., Manchester, Conn. Parachute and parachute pack. 2,316,895; Apr. 20.

Smith, Floyd, Manchester, assignor to Pioneer Parachute Company, Inc., Borough of Manchester, Conn. Parachute pack. 2,316,896; Apr. 20.

Smith, Frederick A., Indianapolis, Ind. Attachment for furnaces and the like. 2,317,229; Apr. 20.

Smith, H. B., Company, The. (See Ferguson, F. A., and Desjardins, assignors.)

Smith, Hannah M. (See Keen, T. A., and Kilburg, assignors.)

Smith, James E., Pittsburgh, Tex. Rotary drilling rig. 2,317,306; Apr. 20.

Smith, L. C., & Corona Typewriters, Inc. (See Bastow, R. J., and Coburn, assignors.)

Smith, Lester C., West Hartford, assignor to Spencer Turbine Company, Hartford, Conn. Article recovering implement. 2,316,981; Apr. 20.

Smith, Milton L., Oak Park, Ill. Vending machine. 2,316,897; Apr. 20.

Smith, Nathaniel L., Los Angeles, Calif., assignor to Process Holdings Company. Water resistant composition material and making same. 2,316,998; Apr. 20.

Smith, Robert W. (See Schwartzwalder, K., and Smith.)

Smith, Walter R. (See Brown, O. J., Jr., and Smith.)

Smith, William A., Philadelphia, Pa. Regrooving tool. 2,317,230; Apr. 20.

Smitley, Wayne C. (See Inman, G. E., and Smitley.)

Snader, Ira J., assignor to Ex-Cell-O Corporation, Detroit, Mich. Screw thread grinding machine. 2,316,816; Apr. 20.

Snow, William H., Chicago, Ill. Steering wheel attachment. 2,317,307; Apr. 20.

Socony-Vacuum Oil Company. (See Corson, Richard C., assignor.)

Socony-Vacuum Oil Company. (See Goodloe, P. M., and Berger, assignors.)

Socony-Vacuum Oil Company. (See Reiff, O. M., Otto, Glammaria, and Oberright, assignors.)

Socony-Vacuum Oil Company. (See Shimek, Edwin J., assignor.)

Soday, Frank J., Swarthmore, Pa., assignor to The United Gas Improvement Company. Tolylethyl butyrate and making same. 2,316,912; Apr. 20.

Specialties Development Corporation. (See Heigis, H. E., and Towart, Jr., assignors.)

Spencer, Charles D., Cleveland Heights, Ohio, assignor to General Electric Company. Quartz tungsten seal. 2,316,999; Apr. 20.

Spencer Turbine Company, The. (See Smith, Lester C., assignor.)

Spiller, William R., Dayton, assignor to Harris-Seybold-Potter Company, Cleveland, Ohio. Tie stitch mechanism. 2,317,308; Apr. 20.

Spillers Limited. (See Evans, Cyril H., assignor.)

Spaine, Edward M., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. 2,316,817; Apr. 20.

Square D Company. (See Bierenfeld, Josef, assignor.)

Square D Company. (See Kollsman, Paul, assignor.)

Standard Cap and Seal Corporation. (See Irwin, Oliver C., assignor.)

Standard Railway Devices Company. (See Baillie, Wallace E., assignor.)

Stanolind Pipe Line Company. (See Heath, Harry E., assignor.)

Steel Scaffolding Company, The. (See Halferty, John C., assignor.)

Steinmayer, Alwin G. (See Schultz, W. O., and Steinmayer.)

Steins, Carleton K., Merion, assignor to The Pennsylvania Railroad Company, Philadelphia, Pa. Repair connector for flexible hose. 2,316,898; Apr. 20.

Stenzl, Hans, assignor to J. R. Geigy A. G., Basel, Switzerland. Double salts of ferrous salts and pyridine carboxylic acid amide. 2,317,309; Apr. 20.

Stern, Yermie, assignor, by mesne asignments, to G. Israel, New York, N. Y. Film and slide projecting apparatus. 2,317,310; Apr. 20.

Steven, Glenn A., assignor to The Electro Glide Company, Inc., Kansas City, Kans. Automatic shift power transmission. 2,317,339; Apr. 20.

Stevens, Roy R., Forest Hills, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Compressor control system. 2,317,119; Apr. 20.

Stewart-Warner Corporation. (See Harris, Mark, assignor.)

Stickless Corporation. (See Lichter, Malvin, assignor.)

Stiefel, Frank C., Narberth, Pa. Spraying attachment for fire hose. 2,316,913; Apr. 20.

Stolzenberg, Walter W., Riverhead, N. Y., assignor to Radio Corporation of America. Remote control. 2,316,899; Apr. 20.

Stough, Charles R., assignor to Motor Wheel Corporation, Lansing, Mich. Vehicle wheel. 2,317,311; Apr. 20.

Stucker, Joseph B. (See Whittier, W. A., and Stucker.)

Stumpp, Emil. (See Bradley, F. L., Stumpp and Jawurek.)

Stybr, Miles A., assignor to International Steel Wool Corporation, Springfield, Ohio. Woven metallic wool fabric. 2,316,818; Apr. 20.

Swanson, Earl C., V. P. Fredericksen, and P. C. Gaskell, assignor to Andersen Corporation, Bayport, Minn. Window construction. 2,317,312; Apr. 20.

Swedman, Enoch, assignor to Seeger Refrigerator Company, St. Paul, Minn. Self-embedding nailhead. 2,317,231; Apr. 20.

Swedman, Enoch, assignor to Seeger Refrigerator Company, St. Paul, Minn. Sectional slidable shelf. 2,317,232; Apr. 20.

Sweet, Frederick D. (See Foster, W. D., and Sweet.)

Sweet, Gertrude, administratrix. (See Foster, W. D., and Sweet.)

Sylvania Industrial Corporation. (See Tobias, F. J., and Jessen, assignors.)

Taber, Walter S., Honolulu, Territory of Hawaii. Internal combustion engine. 2,317,154; Apr. 20.

Tallman, Jesse J., Fort Bragg, Calif. Tiltable lumber hoist. 2,317,000; Apr. 20.

Tamburr, Victor E., and L. L. Neidenberg, assignors to Industrial Timer Corp., Newark, N. J. Electric timing switch. 2,317,120; Apr. 20.

Taylerson, Ewart S. (See Allen, W. S., Dimon and Taylerson.)

Taylor, John A., Bethlehem, Pa., assignor to Bethlehem Steel Company. Method and apparatus for hardening steel rolls. 2,317,233; Apr. 20.

Taylor, William I., Spondon, near Derby, England, assignor to Celanese Corporation of America. Apparatus for the treatment of yarn packages. 2,316,900; Apr. 20.

Tedrow, Roy B., San Francisco, Calif. Wall structure. 2,316,819; Apr. 20.

Teletype Corporation. (See Lake, Ross A., assignor.)

Tellfors, Herbert. (See Pabich, W. R., and Tellfors.)

Templin, Richard L., New Kensington, Pa. Extensometer. 2,316,914; Apr. 20.

Texas Company, The. (See Goldsby, Arthur R., assignor.)

Thelander, W. Vincent, Rockford, Ill. Clutch plate. 2,316,820; Apr. 20.

Thoma, William H., Pittsburgh, Pa. Elevating conveyer. 2,317,313; Apr. 20.

Thomas, Albert R., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Refrigeration. 2,316,821; Apr. 20.

Thomas, Albert R., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Refrigeration. 2,317,234; Apr. 20.

Thomas, Maurice B., Houston, Tex. Gas lift intermitter. 2,317,121; Apr. 20.

Thomay, John, Columbus, assignor, by mesne assignments, to G. Slayter, Newark, Ohio. Electrode. 2,316,901; Apr. 20.

Thompson, Elmer O., Grasmere, N. Y., assignor to Philco Radio and Television Corporation, Philadelphia, Pa. Turntable drive mechanism. 2,316,858; Apr. 20.

Thorn, Harry G. (See Overacker, F. S., Thorn, and Wark.)

Thurston, Paul L., and D. Nagley, Martinsburg, W. Va., assignors to Interwoven Stocking Company, New Brunswick, N. J. Apparatus for producing knitted fabric. hosiery. 2,316,822; Apr. 20.

Thurston, Paul L., Martinsburg, W. Va., assignor to Interwoven Stocking Company, New Brunswick, N. J. Circular knitting machine. 2,316,823; Apr. 20.

Thys & Miller. (See Thys, E., and Sclater-Booth, assignors.)

Thys, Edouard, and G. L. Sclater-Booth, assignors to Thys & Miller, Sacramento, Calif. Book holder. 2,317,001; Apr. 20.

Tobias, Fred J., Ridgewood Plateau, N. Y., and R. F. Jessen, Trenton, N. J., assignors to Sylvania Industrial Corporation, Fredericksburg, Va. Method and apparatus for handling materials. 2,316,824; Apr. 20.

Towart, Archie, Jr. (See Heigis, H. E., and Towart, Jr.)

Travilla, James C., Philadelphia, Pa., and E. C. Jackson, Clayton, Mo., assignors to General Steel Castings Corporation, Granite City, Ill. Railway vehicle structure. 2,317,156; Apr. 20.

Trevor, Bertram, Riverhead, N. Y., assignor to Radio Corporation of America. Noise control circuit. 2,316,902; Apr. 20.

Trico Products Corporation. (See Rappl, A., and Horton, assignors.)

Truman, Orley H., Salt Lake City, Utah. Apparatus for amplifying and measuring small displacements. 2,316,915; Apr. 20.

Ulvick, George, Minneapolis, Minn. Toothbrush. 2,317,002; Apr. 20.

Underwood Elliott Fisher Company. (See Dobson, William A., assignor.)

Underwood Elliott Fisher Company. (See Helmond, William F., assignor.)

Union Switch & Signal Company, The. (See Bone, Herbert L., assignor.)

Union Switch & Signal Company, The. (See Kemmerer, Ralph R., assignor.)

Union Switch & Signal Company, The. (See Young, Henry S., assignor.)

United-Carr Fastener Corporation. (See Chaffee, Raymond O., assignor.)

United-Carr Fastener Corporation, The. (See Hall, C. L., and Cram, assignors.)

United Gas Improvement Company, The. (See Soday, Frank J., assignor.)

United Shoe Machinery Corporation. (See Ashworth, F., and Whitaker, assignors.)

United Shoe Machinery Corporation. (See Hart, Fred V., assignor.)

United Shoe Machinery Corporation. (See Oliver, John R., assignor.)

United Shoe Machinery Corporation. (See Woodman, Charles K., assignor.)

United State Rubber Company. (See Wallace, E. H., and Iler, assignors.)

United Steel and Wire Company. (See Faulkner, Arnold T., assignor.)

Universal Oil Products Company. (See Egloff, Gustav, assignor.)

Upjohn Company, The. (See Woodruff, Eugene H., assignor.)

Van Ess, Paul R., Berkeley, and E. R. White, Albany, Calif., assignors to Shell Development Company, San Francisco, Calif. Addition agents for lubricants. 2,316,903; Apr. 20.

Vander Wal. Robert J. (See Ralston, A. W., and Vander Wal.)

Van Haaften, Egbert, Lancaster, Pa. Motor-driven brush. 2,317,314; Apr. 20.

Van Triest, William, Pittsburgh, Pa. Grinder attachment. 2,316,904; Apr. 20.

Vaughan, Paul S., Auburn, assignor to American Locomotive Company, New York, N. Y. Torsional vibration damper. 2,317,090; Apr. 20.

Vaughan Machinery Company, The. (See McIlvried, Edwin J., assignor.)

Viceroy Manufacturing Company. (See Crowell, Orby B., assignor.)

Vickers Incorporated. (See Willett, Warren P., assignor.)

Vissac, Gustave A., Vancouver, British Columbia, Canada. Drying apparatus. 2,317,003; Apr. 20.

Vita Sales Corporation. (See Knaust, Henry E., assignor.)

Volpin, Alexander S., Houston, Tex. Pump piston. 2,317,122; Apr. 20.

Von Bergen, John M. (See Heiser, M. G., von Bergen, and Bogg.)

Vonkennel, Joseph, and J. Kimmig, Kiel, Germany, assignors to Schering Corporation, Bloomfield, N. J. p-Nitrobenzene sulphinamide. 2,316,825; Apr. 20.

Vossen, Arnold T., Eindhoven, Netherlands, assignor to Radio Corporation of America. Tuning indicator device. 2,316,916; Apr. 20.

Wachter, Lester W., assignor to Anthony Company, Streator, Ill. Garbage dumping body. 2,316,826; Apr. 20.

Waibel, Ferdinand, Berlin-Charlottenburg, and E. Nitsche, Berlin-Falkensee, Germany, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Selenium rectifier. 2,316,905; Apr. 20.

Wait, William B., New York, N. Y. Tape marker. 2,316,906; Apr. 20.

Wallace, Edward H., Detroit, Mich., and R. K. Iler, Cleveland, Ohio, assignors to United States Rubber Company, New York, N. Y. Electrodepositing iron. 2,316,917; Apr. 20.

Wallace, Frank C., Los Angeles, Calif., assignor to Monogram Manufacturing Co. Knob device. 2,316,918; Apr. 20.

Wallace, Frank C., Los Angeles, assignor, by mesne assignments, to H. H. Helbush, Beverly Hills, Calif. Skin clamp. 2,317,315; Apr. 20.

Wallace, Stanley, Chicago, Ill. Electric pressing iron. 2,316,907; Apr. 20.

Wallgren, August G. F., and K. E. Evrell, Eskilstuna, Sweden. Lubricating piston engine. 2,317,004; Apr. 20.

Walter, Dorsey E., Sedalia, Mo. Bun pressing machine. 2,317,316; Apr. 20.

Wark, David E. (See Overacker, F. S., Thorn, and Mark.)

Warnat, Kurt, Basel, Switzerland, assignor to Hoffman-La Roche Inc., Nutley, N. J. Phosphoric acid derivatives of bactericidal compounds and manufacture thereof. 2,316,908; Apr. 20.

Warner & Swasey Company, The. (See Eberhardt, Karl J., assignor.)

Warp, Harold, Chicago, Ill. Toothbrush. 2,317,123; Apr. 20.

Wasserman, Nathan, South Milwaukee, Wis. Shipping carton. 2,317,005; Apr. 20.

Waterbury Clock Company. (See Kohlhagen, Walter, assignor.)

Waterbury Farrel Foundry and Machine Company, The. (See Wilcox, Richard L., assignor.)

Waterman, Earl W., Coleville, Calif. Air motor. 2,317,317; Apr. 20.

Waters, Daniel V. (See Reichelt, L. O., and Waters.)

Waters, Harry F., New York, N. Y. Container. 2,316,919; Apr. 20.

Weagant, Roy A., Douglaston, N. Y., assignor to Radio Corporation of America. Selective tuned circuits. 2,316,909; Apr. 20.

Webb, Edmond F., Franklin Village, assignor to Chrysler Corporation, Highland Park, Mich. Resistance socket for signal lamps. 2,317,157; Apr. 20.

Weber, Ernst, assignor to Landis & Gyr, A-G., Zug, Switzerland. Electricity meter. 2,316,920; Apr. 20.

Weber, Victor, Greensburg, Pa., assignor to Robertshaw Thermostat Company, Youngwood, Pa. Electrical ignition system for gaseous fuel burners. 2,316,910; Apr. 20.

Weightman, William A., and W. Hurleman, Philadelphia, Pa., assignors, by mesne assignments, to Sealdsweet Sales Association, Tampa, Fla. Fruit juice machine. 2,317,006; Apr. 20.

Weihe, Adolf, Bad Soden in Taunus, and F. Herrlein, Frankfort-on-the-Main-Hochst, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y. Preparing acetals of polyvinyl alcohol. 2,316,921; Apr. 20.

Weil, Maurice A., Providence, assignor to Rhode Island Laboratories, Inc., West Warwick, R. I. Writing device. 2,317,159; Apr. 20.

Weinberg, Samuel, Elmhurst, N. Y. Removable umbrella cover. 2,317,160; Apr. 20.

Weisbecker, Frank G., Glenside, assignor to Hosiery Patents Incorporated, Lansdale, Pa. Knitting machine. 2,317,318; Apr. 20.

Weniger, Joseph K., assignor to Beaumont Birch Company, Philadelphia, Pa. Sealing ash hopper gates. 2,317,007; Apr. 20.

Werner, Wilbert A., Western Springs, Ill. Dental restoration. 2,317,008; Apr. 20.

Weskenson Corporation. (See Johnson, William H., assignor.)

Wessenger, Harold B., Medford, and J. L. Martin, Lowell, Mass. Roller for centrifugal casting molds. 2,316,827; Apr. 20.

West, Edward E., Richmond, Va. Bag feeding mechanism. 2,316,922; Apr. 22.

West, Maxwell A., assignor to Champion, Inc., Portland, Oreg. Screw driver. 2,317,319; Apr. 20.

Westberg, Arthur H., Hempstead, assignor to Republic Aviation Corporation, Farmingdale, N. Y. Closure. 2,316,923; Apr. 20.

Western Electric Company. (See Reichelt, L. O., and Waters, assignors.)

Westinghouse Air Brake Company, The. (See Cook, E. S., and Borst, assignors.)

Westinghouse Air Brake Company, The. (See Crittenden, P. L., and Hines, assignors.)

Westinghouse Air Brake Company, The. (See Hines, C. M., and Borst, assignors.)

Westinghouse Air Brake Company, The. (See Hines, Claude M., assignor.)

Westinghouse Air Brake Company, The. (See McCune, Joseph C., assignor.)

Westinghouse Air Brake Company. (See Stevens, Roy R., assignor.)

Westinghouse Electric & Manufacturing Company. (See Brockel, William G., assignor.)

Westinghouse Electric & Manufacturing Co. (See Rydmark, Josef A., assignor.)

Westinghouse Electric & Manufacturing Co. (See Sauers, Gordon F., assignors.)

Westinghouse Electric & Manufacturing Company. (See Waibel, F., and Nitsche, assignors.)

Westover, Miles R., Alton, Ill. Flexible shaft hammer. 2,317,158; Apr. 20.

Wheeler, Henry H., Brooklyn, N. Y., assignor to International Cigar Machinery Company. High speed cigar machine. 2,316,828; Apr. 20.

Whisler, Ralph H., Jr., assignor to Monroe Auto Equipment Company, Monroe, Mich. Hydraulic shock absorber structure. 2,316,924; Apr. 20.

Whitaker, Carl F. (See Ashworth, F., and Whitaker.)

White, Ellis R. (See Van Ess, P. R., and White.)

Whitehead, Richard H., assignor to The New Haven Clock Company, New Haven, Conn. Clock. 2,317,322; Apr. 20.

Whitman, Harlan M., West Hartford, assignor to Curtis 1000 Incorporated, Hartford, Conn. Envelope. 2,317,335; Apr. 20.

Whitman, Hyman L., East Bridgewater, assignor to C. S. Pierce Company, Brockton, Mass. Measuring device. 2,317,321; Apr. 20.
Whittier, William A., Kenilworth, and J. B. Stucker, assignors to The Pure Oil Company, Chicago, Ill. Halogenated aliphatic lubricant additive. 2,316,925; Apr. 20.
Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Chip control mechanism. 2,317,320; Apr. 20.
Wilen, Charles H., and A. Kramarenko, Nice, France; vested in the Alien Property Custodian. Breathing apparatus for swimmers. 2,317,236; Apr. 20.
Wilen, Charles H., Brooklyn, N. Y. Swimmer's mask. 2,317,237; Apr. 20.
Willett, Warren P., Takoma Park, Md., assignor to Vickers Incorporated, Detroit, Mich. Power transmission. 2,316,926; Apr. 20.
Williams, Norman D. (See Backoff, W. J., and Williams.)
Wilson, Lee, and F. Olmstead, assignors to Lee Wilson Sales Corporation, Cleveland, Ohio. Apparatus for subjecting cylindrical members to heat treatment. 2,317,009; Apr. 20.
Wilson, Lee, Sales Corporation. (See Wilson, L., and Olmstead, assignors.)
Wilson, Leroy A., Enterprise, Utah. Apparatus for grinding and separating ores. 2,316,982; Apr. 20.
Wilson, Wilbert M. (See McKee, Graydon S., Wilson, and Johnson.)
Wingard, William F., Baltimore, Md. Borehole deflecting tool. 2,317,010; Apr. 20.
Winlund, Edmond S., Moorestown, N. J., assignor to Radio Corporation of America. Frequency modulation. 2,316,927; Apr. 20.
Witham, Winfred A., East Rochester, assignor to Gleason Works, Rochester, N. Y. Method of finishing gears. 2,317,161; Apr. 20.
Wolf, Austin M., Plainfield, N. J. Motor vehicle driving mechanism. 2,317,324; Apr. 20.
Wood, Howard B., assignor to Lumelite Corporation, New York, N. Y. Light reflecting stud. 2,317,162; Apr. 20.
Wood, John, Manufacturing Company. (See Brouse, William H. D., assignor.)
Woodman, Charles K., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Work-locating mechanism. 2,316,911; Apr. 20.
Woodruff, Eugene H., assignor to The Upjohn Company, Kalamazoo, Mich. β-(p-methoxyphenyl) n-propyl dimethylamine. 2,317,011; Apr. 20.
Woodruff, Eugene H., assignor to The Upjohn Company, Kalamazoo, Mich. β-p-methoxyphenylpropyl benzylamine. 2,317,012; Apr. 20.
Woodruff, Eugene H., assignor to The Upjohn Company, Kalamazoo, Mich. β-m-methoxyphenylpropyl benzylamine. 2,317,013; Apr. 20.
Woodward, Edward O., Hollywood, Calif. Inductive reactor. 2,316,928; Apr. 20.
Woodworth, Herbert H. (See Adams, R. C., and Woodworth.)
Wright, Daniel K. (See Cotman, C. A., and Wright.)
Wright, Ernest B., Jr. (See Jacob, G. N., Jr., and Wright, Jr.)
Wulf, William, New York, N. Y. Garment construction. 2,316,983; Apr. 20.
Yoch, August H., Philadelphia, Pa., assignor to Air Reduction Company, Incorporated, New York, N. Y. Billet nicking machine. 2,317,239; Apr. 20.
Yochem, Donald E., Columbus, assignor to L. S. D., Inc., Dayton, Ohio. Apparatus for washing and rinsing dishes, silverware, and the like. 2,317,014; Apr. 20.
York Ice Machinery Corporation. (See Moore, Paul B., assignor.)
Young, Henry S., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling apparatus. 2,316,929; Apr. 20.
Young, William R., Fairfield, Conn., assignor to General Electric Company. Lamp socket. 2,317,163; Apr. 20.
Zecca, Frank M., Brooklyn, N. Y. Metal casing for building construction. 2,316,829; Apr. 20.
Zeier, Frederick F., Fairfield, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Lubricating system for sewing machines. 2,317,240; Apr. 20.
Zimmerman, Harry, New York, N. Y. Xylophone. 2,317,164; Apr. 20.
Zimmerman, Harry, New York, N. Y. Xylophone. 2,317,165; Apr. 20.
Zimmerman, Herman T., Tulsa, Okla. Valve spring compressor. 2,316,830; Apr. 20.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 20TH DAY OF APRIL, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Air conditioning unit. B. W. Jewell. Re. 22,303; Apr. 20.
Packing device, Interior. R. H. Van Saun. Re. 22,305; Apr. 20.
Plow. G. W. Lee. Re. 22,304; Apr. 20.
Signal-translating system. N. P. Case. Re. 22,302; Apr. 20.

LIST OF PLANT INVENTIONS

Avocado tree. J. M. Reinecke. 576; Apr. 20.

LIST OF DESIGN INVENTIONS

Aeroplane. R. H. Brown. 135,534; Apr. 20.
Badge. T. J. Dworzynski. 135,518; Apr. 20.
Badge or similar article. G. H. Moore. 135,529; Apr. 20.
Bag, Clothespin. S. E. Kaplan. 135,538–9; Apr. 20.
Bookmark and greeting card, Combined. J. V. Scott. 135,551; Apr. 20.
Box, Wall. J. G. Loy. 135,527; Apr. 20.
Bracket, Wall. M. Waymack. 135,511; Apr. 20.
Brooch or similar article. N. Barbieri. 135,513–16; Apr. 20.
Building, Portable. M. W. Downs. 135,537; Apr. 20.
Bumper, Automobile. R. Cadwallader. 135,535; Apr. 20.
Device for making carbon dioxide snow. J. A. Werry. 135,532; Apr. 20.
Dispenser, Beverage. M. Harrison. 135,506; Apr. 20.
Dress. B. Cashin. 135,543–6; Apr. 20.
Dress. P. Zahn. 135,553; Apr. 20.
Emblem or similar article, Applique. H. L. Jurkops. 135,525; Apr. 20.
Enclosure, Switch. J. F. Meyer. 135,528; Apr. 20.
Frame, Spectacle. A. Sanders. 135,510; Apr. 20.
Guard, Spectacle. M. B. Roth. 135,509; Apr. 20.
Handbag. D. Rubin. 135,530; Apr. 20.
Hat. Z. Harpignies. 135,549; Apr. 20.
Holder, Coin. H. D. Smith. 135,541; Apr. 20.
Indicator, Repeater compass. F. D. Braddon. 135,533; Apr. 20.
Indicator, Repeater compass course setting. L. J. De Lanty. 135,536; Apr. 20.
Lamp, Automobile. H. R. Gross. 135,548; Apr. 20.
Lamp, perpetual calendar, and container, Combination. E. L. Jones. 135,550; Apr. 20.
Light, Automobile. H. R. Gross. 135,547; Apr. 20.
Locket or similar article. E. T. Krol. 135,526; Apr. 20.
Pin, Ceramic brooch. E. Handler. 135,519–23; Apr. 20.
Pin or similar article. J. F. Duffy. 135,517; Apr. 20.
Pin or similar article. N. B. Valliant. 135,531; Apr. 20.
Radio device, Portable. D. H. Mitchell. 135,540; Apr. 20.
Receptacle for toothbrushes and the like. A. T. Winner. 135,552; Apr. 20.
Sterilizer or the like, Portable. C. B. Stevens. 135,542; Apr. 20.
Table. G. H. Muldwoff. 135,508; Apr. 20.
Table, Over-bed. W. A. Hillenbrand. 135,507; Apr. 20.
Tray and wrapping paper unit, Combined jewelry display. C. Weissman. 135,512; Apr. 20.
Tray, Infant's weaning. F. C. Johnstone. 135,524; Apr. 20.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 20TH DAY OF APRIL, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Accelerometer. R. R. Chappell and B. B. Coit. 2,317,028; Apr. 20.
Acetals of polyvinyl alcohol, Preparing. A. Weihe and F. Herrlein. 2,316,921; Apr. 20.
Acid resistant container. J. J. Mick and R. E. McCurdy. 2,317,076; Apr. 20.
Acidic bodies from hydrocarbon fluids, Removing weakly. T. L. McNamara and L. M. Henderson. 2,316,965; Apr. 20.
Acidic constituents from organic liquids, Removing. L. M. Henderson and D. C. Bond. 2,317,056; Apr. 20.
Acidic sulphur compounds from hydrocarbon liquids, Removing weakly. D. C. Bond. 2,316,759; Apr. 20.
Adjuster for clotheslines or the like, Tension. C. Goeller. 2,316,950; Apr. 20.
Adjustable strap fastener. G. L. Diebold. 2,316,846; Apr. 20.
Agents for lubricants, Addition. P. R. Van Ess and E. R. White. 2,316,903; Apr. 20.
Air conditioning. P. B. Moore. 2,317,104; Apr. 20.
Aircraft wing system. A. Gazda. 2,317,267; Apr. 20.
Air motor. E. W. Waterman. 2,317,317; Apr. 20.
Airplane. C. Ortega. 2,316,885; Apr. 20.
Alignment gauge. H. T. Farr. 2,316,850; Apr. 20.
Alkali treatment of hydrocarbon oils. L. M. Henderson. 2,317,053; Apr. 20.
Alloy: *See*—
  Zinc alloy.
Alloy, Zinc. J. R. Daesen. 2,317,179; Apr. 20.
Alternator control system. F. Jervis. 2,317,062; Apr. 20.
Anchoring means for sanitary drinking cups. P. N. Fleming. 2,317,046; Apr. 20.
Animal trap. E. W. O'Neil. 2,316,970; Apr. 20.
Antenna circuit modulation system. D. G. C. Luck. 2,317,071; Apr. 20.
Antitheft device. B. N. Davis. 2,316,936; Apr. 20.
Apparatus and method for the manufacture of artificial fibers. J. J. Costa and W. H. Kahler. 2,317,152; Apr. 20.
Apparatus for amplifying and measuring small displacements. O. H. Truman. 2,316,915; Apr. 20.
Apparatus for coating articles. R. A. Hinkley and J. L. Miller. 2,316,959; Apr. 20.
Apparatus for coating wire. W. G. Brockel. 2,316,984; Apr. 20.
Apparatus for determining water leakages into wells. G. H. Ennis. 2,317,039; Apr. 20.
Apparatus for grinding and separating ores. L. A. Wilson. 2,316,982; Apr. 20.
Apparatus for machining serrations in metallic bodies. J. Dusevoir. 2,317,262; Apr. 20.
Apparatus for making closures. L. H. Lockwood. 2,317,330; Apr. 20.
Apparatus for measuring temperatures in boreholes. H. G. Doll. 2,316,942; Apr. 20.
Apparatus for melting powdered materials. P. A. Bleakley. 2,317,173; Apr. 20.
Apparatus for operating on strip metal. W. H. McLaughlin and G. H. Rendel. 2,316,801; Apr. 20.
Apparatus for production of artificially cultured buttermilk. H. S. Fielder and L. O. Ott. 2,317,045; Apr. 20.
Apparatus for regulating the flow of liquid. C. H. Evans. 2,316,848; Apr. 20.
Apparatus for separating textile material from rubber, Method and. T. J. Masse. 2,317,210; Apr. 20.
Apparatus for subjecting cylindrical members to heat treatment. L. Wilson and F. Olmstead. 2,317,009; Apr. 20.
Apparatus for the electrical surveying of bore holes. C. Schlumberger. 2,317,304; Apr. 20.
Apparatus for the manufacture of cork compositions. H. K. Mearig. 2,317,331; Apr. 20.
Apparatus for the treatment of yarn packages. W. I. Taylor. 2,316,900; Apr. 20.
Apparatus for timing impulses. W. Kohlhagen. 2,317,202; Apr. 20.
Apparatus for washing and rinsing dishes, silverware, and the like. D. E. Yochem. 2,317,014; Apr. 20.
Apparatus for welding. E. G. Guenzel. 2,316,859; Apr. 20.
Apron, Barber's. T. E. Shaw. 2,316,893; Apr. 20.
Arbor for supporting tubes forming headless spools or the like, Self-locking. G. B. Markle, Jr. 2,317,208; Apr. 20.
Article recovering implement. L. C. Smith. 2,316,981; Apr. 20.
Articles, Producing pigmented enamel. J. B. Rosenberg. 2,317,114; Apr. 20.
Asphalt manufacture. L. L. Lovell, D. C. Isted, and R. L. Ortynsky. 2,317,150; Apr. 20.
Attachment for driving tools, Holder. E. Raby. 2,317,085; Apr. 20.
Attachment for fire hose, Spraying. F. C. Stiefel. 2,316,911; Apr. 20.
Attachment for furnaces and the like. F. A. Smith. 2,317,229; Apr. 20.
Attachment for harvester-threshers, Pickup. W. E. Bowling. 2,317,127; Apr. 20.
β-(p-methoxyphenyl) n-propyl dimethylamine. E. H. Woodruff. 2,317,011; Apr. 20.
β-p-methoxyphenylpropyl benzylamine. E. H. Woodruff. 2,317,012; Apr. 20.
β-m-methoxyphenylpropyl benzylamine. E. H. Woodruff. 2,317,013; Apr. 20.
Bag and outer garment, Container. M. A. Byrd. 2,317,176; Apr. 20.
Bag feeding mechanism. E. E. West. 2,316,922; Apr. 20.
Bag loading or filling device. R. W. E. Nash. 2,317,292; Apr. 20.
Band, Garter and fabric. H. M. Herbener. 2,316,958; Apr. 20.
Bath and method of testing, Leak testing. J. D. Coleman. 2,316,842; Apr. 20.
Bearer for the stationary vanes of rotary motors. G. Schaper. 2,316,813; Apr. 20.
Beater, Egg. O. Hansen. 2,316,861; Apr. 20.
Billet nicking machine. A. H. Yoch. 2,317,239; Apr. 20
Binder and wrapper material feed for cigar machines. F. C. Gladeck. 2,316,784; Apr. 20.
Blackout. L. G. Mida. 2,317,074; Apr. 20.
Blade fastening apparatus, Turbine. J. A. Rydmark. 2,317,338; Apr. 20.
Block: *See*—
  Hook block. Walking block.
Blower for clothes pressing machines. F. Laughlin. 2,317,279; Apr. 20.
Boiler. F. A. Ferguson and E. C. Desjardino. 2,316,945; Apr. 20.
Boiler apparatus. H. J. Kerr. 2,316,763; Apr. 20.
Boiler circulation. E. G. Bailey. 2,316,762; Apr. 20.
Bomb dropping device adapted to be dropped from aircraft. J. B. de Kurowski. 2,317,256; Apr. 20.
Book holder. E. Thys and G. L. Sclater-Booth. 2,317,001; Apr. 20.
Bookkeeping machine. E. M. Magnusson. 2,317,284; Apr. 20.
Borehole deflecting tool. W. F. Wingard. 2,317,010; Apr. 20.
Bottle and like crate. A. T. Faulkner. 2,317,044; Apr. 20.
Bottle vendor, Portable. J. E. Hagstrom and O. C. Olson. 2,317,145; Apr. 20.
Bow, Archery. W. L. Miller. 2,316,880; Apr. 20.
Bowl mounting. R. G. Le Tourneau. 2,317,280; Apr. 20.
Bowling alley. E. F. Seaman and J. B. Lunsford. 2,316,990–1; Apr. 20.
Box: *See*—
  Display box. Tackle box.
Brake: *See*—
  Electropneumatic brake.
Brake control means. C. M. Hines and D. R. Borst. 2,317,133; Apr. 20.
Brake mechanism. H. D. Humphrey. 2,317,194; Apr. 20.
Brake system. E. S. Cook and D. R. Borst. 2,317,132; Apr. 20.
Braking system, Dynamic. S. H. Cowin. 2,317,254; Apr. 20.
Breathing apparatus for swimmers. C. H. Wilen and A. Kramarenko. 2,317,236; Apr. 20.
Bridge foundation and making same. H. H. Allen. 2,317,016; Apr. 20.
Brush, Motor-driven. E. Van Haaften. 2,317,314; Apr. 20.
Brushes, Making. E. R. Person. 2,317,110; Apr. 20.
Brushes, Manufacture of. G. N. Jacob, Jr., and E. B. Wright, Jr. 2,316,870; Apr. 20.
Buckle. F. Braun. 2,317,128; Apr. 20.
Building materials, Treating. A. W. Ralston and R. J. Vander Wal. 2,317,301; Apr. 20.
Bulb grading machine. V. L. Parker. 2,316,986; Apr. 20.

Bun pressing machine. D. E. Walter. 2,317,316; Apr. 20.
Burner: *See*—
  Oil burner.
Button, Push. J. Bierenfeld. 2,316,834; Apr. 20.
By-pass and releasing means. R. Bassinger. 2,317,021; Apr. 20.
Cabinet: *See*—
  Display cabinet.
Cabinet structure. W. E. Nofzinger. 2,317,296; Apr. 20.
Cable: *See*—
  Electric cable.
Calculating machine. E. Racz. 2,317,086; Apr. 20.
Camera, Motion picture. H. S. Dunn. 2,317,096; Apr. 20.
Candle burning device. P. W. Russell. 2,316,812; Apr. 20.
Candle holder. A. T. Candy, Jr. 2,316,837; Apr. 20.
Cap: *See*—
  Post cap.
Car: *See*—
  Refrigerator car.
Car dumper. M. A. Schlienger. 2,317,333; Apr. 20.
Carbon black product and making same. O. J. Brown, Jr., and W. R. Smith. 2,317,026; Apr. 20.
Carburetor vapor relief valve. J. T. W. Moseley and G. E. Seldon. 2,316,882; Apr. 20.
Cartographic device. G. H. Gottlieb 2,316,786; Apr. 20.
Carton, Knockdown crated. W. C. George and F. R. Buhrmaster. 2,316,853–4; Apr. 20.
Carton, Paper. A. S. Ethridge. 2,317,040; Apr. 20.
Carton, Shipping. N. Wasserman. 2,317,005; Apr. 20.
Case: *See*—
  Sewing case.
Cellulose esters, Preparing. G. D. Hiatt and L. W. Blanchard, Jr. 2,316,866; Apr. 20.
Christmas tree stand. S. Ginka. 2,317,049; Apr. 20.
Cigar machine wrapper transfer carrier head. H. E. Carlson. 2,316,838; Apr. 20.
Cigars, Making. F. C. Gladeck. 2,316,785; Apr. 20.
Circuit: *See*—
  Frequency modulation receiver squelch circuit. Thermal control for electric circuit.
  Noise control circuit. Volume control circuit.
  Selective tuned circuit.
Circuit controller. G. F. Sauers. 2,316,977; Apr. 20.
Clamp: *See*—
  Reenforcing clamp. Skin clamp.
Clamp. G. E. Husted. 2,317,195; Apr. 20.
Cleaner: *See*—
  Portable suction cleaner.
Cleaning composition. W. B. Pings. 2,317,112; Apr. 20.
Cleaning machine. W. F. Oliver. 2,317,213; Apr. 20.
Clock. R. H. Whitehead. 2,317,322; Apr. 20.
Closure. A. R. McCombs. 2,317,287; Apr. 20.
Closure. A. H. Westberg. 2,316,923; Apr. 20.
Closure fastener. H. G. Knuth. 2,317,277; Apr. 20.
Clutch. O. L. Berby. 2,317,171; Apr. 20.
Clutch plate. W. V. Thelander. 2,316,820; Apr. 20.
Coating apparatus. L. N. Pond. 2,316,972; Apr. 20.
Coccidicide. G. S. McKee, W. M. Wilson, and H. S. Johnson. 2,316,963; Apr. 20.
Coffee-making apparatus. P. Pappas. 2,317,214; Apr. 20.
Column, Rectifying. H. S. Lecky. 2,317,101; Apr. 20.
Combination hair and hat fastener. M. Marck. 2,317,207; Apr. 20.
Combination strut. G. E. Husted. 2,317,196; Apr. 20.
Combustion chamber. G. T. Johnson. 2,316,794; Apr. 20.
Compaction separator. J. F. Geary. 2,316,783; Apr. 20.
Compass, Remote indicating. P. Kollsman. 2,316,873; Apr. 20.
Composition material and making same, Water resistant. N. L. Smith. 2,316,998; Apr. 20.
Compressor, Valve spring. H. T. Zimmerman. 2,316,830; Apr. 20.
Computer mechanism. W. H. Newell. 2,317,293; Apr. 20.
Cone clutch. H. T. Kraft. 2,316,874; Apr. 20.
Connector: *See*—
  Welding rod connector.
Connector for flexible hose, Repair. C. K. Steins. 2,316,898; Apr. 20.
Construction for cardboard containers, End flap. G. Rottman. 2,317,223; Apr. 20.
Container: *See*—
  Acid resistant container. Tin can container.
  Cosmetic container. Tissue container.
  Dispensing container.
Container. C. J. R. Hammarstrom. 2,317,269; Apr. 20.
Container. H. E. Knaust. 2,317,067; Apr. 20.
Container. H. F. Waters. 2,316,919; Apr. 20.
Continuous mixer. W. A. Chilson. 2,316,769; Apr. 20.
Control apparatus, Gun fire. M. Mennecier. 2,317,238; Apr. 20.
Control for electric seismographs, Master. E. J. Shimek. 2,317,334; Apr. 20.
Control for mechanical draft cooling towers, Blower. D. B. Dewey and G. W. Meyer. 2,316,940; Apr. 20.
Control, Gate operating. T. A. Burdick. 2,317,175; Apr. 20.
Control for knitting machines, Pattern. I. H. C. Green. 2,317,268; Apr. 20.
Control for ticket printing and issuing machines. T. A. Keene and J. Kilburg. 2,317,147; Apr. 20.
Control mechanism, Chip. R. L. Wilcox. 2,317,320; Apr. 20.
Control mechanism for straddle trucks, Shoe. H. N. Dimick. 2,316,938; Apr. 20.
Control system, Compressor. R. R. Stevens. 2,317,119; Apr. 20.
Control system for machines. L. O. Reichelt and D. V. Waters. 2,317,113; Apr. 20.
Control system, Transition. R. M. Dilworth. 2,317,258; Apr. 20.
Conveyer, Elevating. W. H. Thoma. 2,317,313; Apr. 20.
Cork composition, Coated. P. W. Kinney. 2,317,328; Apr. 20.
Cosmetic container. F. R. Reutter. 2,317,087; Apr. 20.
Cotton dispenser. A. S. McKaig, Jr. 2,317,102; Apr. 20.
Coupling: *See*—
  Fluid coupling. Tube coupling.
Coupling for linemen's protective devices. G. F. Salisbury. 2,317,088; Apr. 20.
Cover: *See*—
  Umbrella cover.
Cultivator. C. C. Hanson. 2,317,188; Apr. 20.
Culverts, Making arch-type. H. S. Claybaugh. 2,316,839; Apr. 20.
Cushion support for furniture. H. Phillips. 2,317,080; Apr. 20.
Cylinders, pump liners, and the like, Method of hardening. T. H. Nelson. 2,317,211; Apr. 20.
Damper, Torsional vibration. P. S. Vaughan. 2,317,090; Apr. 20.
De-icing device for airplane propellers, wings, and the like. J. D. Altemus. 2,317,019; Apr. 20.
Demonstration set. M. B. Adams. 2,317,124; Apr. 20.
Dental crowns, Manufacture of. I. L. Meier. 2,317,103; Apr. 20.
Dental restoration. W. A. Werner. 2,317,008; Apr. 20.
Dentrifice. A. L. Omohundro and E. C. Fanto. 2,317,297; Apr. 20.
Desk, Typewriter. A. Balster. 2,316,756; Apr. 20.
Device for determining the strata traversed by drill holes. H. G. Doll. 2,317,259; Apr. 20.
Device for radial drill arm elevating screws, Safety. W. G. Hoelscher. 2,317,060; Apr. 20.
Device or apparatus for treating hair. A. Shelby and C. F. Hilgeman. 2,316,894; Apr. 20.
Diaphragm unit for fluid pressure gauges, High pressure. W. R. Martin. 2,317,073; Apr. 20.
Dispenser: *See*—
  Cotton dispenser.
Dispensing container. R. C. Shipley. 2,316,979; Apr. 20.
Display apparatus. R. C. Adams and H. H. Woodworth. 2,317,336; Apr. 20.
Display box. M. Kurhan. 2,317,203; Apr. 20.
Display cabinet. R. C. Adams and H. H. Woodworth. 2,317,337; Apr. 20.
Display rack. E. D. Davis. 2,316,771; Apr. 20.
Display stand, Collapsible. C. and H. H. Doering. 2,317,036; Apr. 20.
Door latch of the bored-in type. B. A. Quinn. 2,317,300; Apr. 20.
Door signal. G. S. Green. 2,316,856; Apr. 20.
Drain trap. U. L. Larson. 2,317,278; Apr. 20.
Dredge, Placer. H. F. England. 2,316,943; Apr. 20.
Drill: *See*—
  Speed drill.
Drilling fluid, Oil base. G. Miller. 2,316,968; Apr. 20.
Drive and control system, Diesel electric. S. H. Cowin. 2,317,253; Apr. 20.
Drive, Engine starter. C. S. Janes. 2,317,327; Apr. 20.
Drive mechanism. P. L. Crittenden and C. M. Hines. 2,317,135; Apr. 20.
Drying apparatus. G. A. Vissac. 2,317,003; Apr. 20.
Dumping body, Garbage. L. W. Wachter. 2,316,826; Apr. 20.
Duster for insecticides. W. G. Bruce. 2,316,932; Apr. 20.
Dyeing photographic silver halide emulsions. J. Dessauer. 2,317,257; Apr. 20.
Dynamo-electric machine. A. Fisher. 2,316,779; Apr. 20.
Dynamoelectric machine. L. Griffiths. 2,317,187; Apr. 20.
Edge gluing process. G. F. Linquist. 2,317,281; Apr. 20.
Educational device. C. R. Oesch. 2,317,107; Apr. 20.
Electric cable. T. F. Peterson. 2,316,808; Apr. 20.
Electric device for distant indication. H. Pittet. 2,316,987; Apr. 20.
Electric discharge tube. E. C. Dench. 2,316,773; Apr. 20.
Electric heater. J. L. Shroyer. 2,317,228; Apr. 20.

Electric lamp. J. Dana. 2,317,035; Apr. 20.
Electric lamp. G. E. Inman and W. C. Smitley. 2,317,061; Apr. 20.
Electric lamp and manufacture. C. A. Cotman and D. K. Wright. 2,317,031; Apr. 20.
Electric pressing iron. S. Wallace. 2,316,907; Apr. 20.
Electric timing switch. V. E. Tanburr and L. L. Neidenberg. 2,317,120; Apr. 20.
Electrical control apparatus. H. F. Elliott. 2,316,776; Apr. 20.
Electrical ignition system for gaseous fuel burners. V. Weber. 2,316,910; Apr. 20.
Electrical resistor of thermostatic laminated metal. C. F. Alban and S. R. Hood. 2,317,018; Apr. 20.
Electricity meter. E. Weber. 2,316,920; Apr. 20.
Electrode. J. Thomay. 2,316,901; Apr. 20.
Electrode assembly, Carbon. L. Goodale. 2,317,143; Apr. 20.
Electrodepositing iron. E. H. Wallace and R. K. Iler. 2,316,917; Apr. 20.
Electrodeposition of manganese. R. S. Dean. 2,317,153; Apr. 20.
Electrolytes for the deposition of manganese, Treatment of. R. S. Dean. 2,316,937; Apr. 20.
Electron discharge apparatus. W. T. Gibson. 2,317,140; Apr. 20.
Electron discharge device. V. L. Ronci. 2,317,222; Apr. 22.
Electronic circuits. H. G. Cisin. 2,317,178; Apr. 20.
Electropneumatic brake. J. C. McCune. 2,317,134; Apr. 20.
Emulsions. Breaking petroleum. P. M. Goodloe and H. G. Berger. 2,317,050; Apr. 20.
Emulsions. Chilling photographic. J. H. Craft, Jr. 2,316,845; Apr. 20.
Engine: *See*—
Internal combustion engine. Lubricating piston engine.
Envelope. H. M. Whitman. 2,317,335; Apr. 20.
Esters of the anthraquinone series, Leuco sulphuric acid. E. Besler. 2,316,758; Apr. 20.
Exerciser, Eye. A. E. Jacobson. 2,317,197; Apr. 20.
Explosion proof enclosure for electrical devices. R. A. Blood. 2,316,835; Apr. 20.
Extensometer. R. L. Templin. 2,316,914; Apr. 20.
Fabric and seam therein, Impervious. W. W. Rowe. 2,316,891; Apr. 20.
Fastener: *See*—
Adjustable strap fastener. Separable fastener.
Closure fastener. Toothbrush cover fastener.
Combination hair and hat fastener.
Fastener. C. J. Koenig. 2,317,201; Apr. 20.
Fastening means for metal panels. F. E. Allen. 2,317,015; Apr. 20.
Fatigue-testing machine. R. Eksergian. 2,317,097; Apr. 20.
Fatty substances, Treatment of. R. P. Dunmire and J. A. Camelford. 2,316,774; Apr. 20.
Feeder: *See*—
Rotary feeder.
Feeder. H. R. Schemm. 2,316,814; Apr. 20.
Feeding mechanism for shaker conveyers. E. R. Bergmann. 2,317,172; Apr. 20.
Feeding mechanism for shaker conveyers. C. A. Pratt. 2,316,973; Apr. 20.
Feeding mechanism for shaker conveyers. C. J. Schafer. 2,317,089; Apr. 20.
Ferrous metal surfaces with water insoluble metallic phosphates, Coating. G. C. Romig. 2,316,811; Apr. 20.
Fibrous materials, Impregnated. W. B. McCluer, R. W. Hufferd, and F. J. Philippbar. 2,317,209; Apr. 20.
Filaments around tubes or cylinders, Means for wrapping. W. Bridges. 2,317,250; Apr. 20.
Filler, Barrel. R. C. Corson. 2,316,934; Apr. 20.
Filling material, Shoe bottom. G. E. Ehle. 2,317,326; Apr. 20.
Film and filament formation. R. F. Conaway. 2,317,131; Apr. 20.
Film and projecting apparatus, Moving picture. M. Lopez-Henriquez. 2,317,282; Apr. 20.
Film and slide projecting apparatus. Y. Stern. 2,317,310; Apr. 20.
Film handling apparatus. W. D. Foster and F. D. Sweet. 2,316,780; Apr. 20.
Filter. W. H. Oliver and M. C. Orswell. 2,317,108; Apr. 20.
Finger sponge device. N. Mandalou. 2,316,878; Apr. 20.
Fire alarm apparatus. J. J. Bliss. 2,317,024; Apr. 20.
Float for an aircraft. E. B. Marple. 2,317,285; Apr. 20.
Floor conditioning machine. H. D. Overholser. 2,316,805; Apr. 20.
Fluid and regenerating the same, Oil base drilling. G. Miller. 2,316,967; Apr. 20.
Fluid circulation apparatus. J. C. Hobbs. 2,316,765; Apr. 20.
Fluid coupling. G. R. Pennington. 2,317,217; Apr. 20.
Fluid medium distribution system, High pressure. H. E. Helgis and A. Towart, Jr. 2,316,789; Apr. 20.
Fluid meter. W. H. D. Brouse. 2,317,325; Apr. 20.
Fluid mixing device. E. Aghnides. 2,316,832; Apr. 20.
Fluid motor. J. O. Hamren. 2,316,788; Apr. 20.
Fluid system. R. M. Hardgrove. 2,316,764; Apr. 20.
Fluorescent lamp. W. Foerste and E. A. Quarrie. 2,317,265; Apr. 20.
Forming equipment, Sheet metal. C. S. Kasper. 2,317,198; Apr. 20.
Forms for concrete, Coated wooden. C. L. Atkinson and G. R. Maher. 2,316,752; Apr. 20.
Frequency modulation. E. S. Winlund. 2,316,927; Apr. 20.
Frequency modulation detector. S. Hunt. 2,316,868; Apr. 20.
Frequency modulation receiver squelch circuit. D. E. Foster. 2,316,851; Apr. 20.
Froth breaking. P. M. Frantz. 2,317,139; Apr. 20.
Froth flotation apparatus and treatment. A. C. Daman, L. H. Logue and T. S. Bailey, Jr. 2,316,770; Apr. 20.
Fruit juice machine. W. A. Weightman and W. Hurleman. 2,317,006; Apr. 20.
Fuel injection system. W. M. Pate and H. E. Burgdorf. 2,316,887; Apr. 20.
Fuel, Manufacture of motor. A. R. Goldsby. 2,317,142; Apr. 20.
Furane-dicarboxylic-acid-amides and their manufacture. H. Martin, W. Baumann, and H. Gysin. 2,317,286; Apr. 20.
Furnace: *See*—
Metallurgical furnace.
Furniture support. E. B. Morgan. 2,317,077; Apr. 20.
Game. C. Biderman. 2,317,126; Apr. 20.
Game, Military. W. K. Haggard and F. L. Butler. 2,316,862; Apr. 20.
Garment construction. W. Wulf. 2,316,983; Apr. 20.
Garment with adjustable collar. C. Merola. 2,316,802; Apr. 20.
Gas-discharge tube, Photoelectric-controlled. E. C. Dench. 2,316,772; Apr. 20.
Gasket, Saddle. R. E. Risley. 2,316,974; Apr. 20.
Gate valve. J. Chaplin. 2,316,933; Apr. 20.
Gauge: *See*—
Alignment gauge. Pressure gauge.
Micrometer gauge.
Gauge. A. C. Ruge. 2,316,975; Apr. 20.
Gauging means for taping machines. J. R. Oliver. 2,316,884; Apr. 20.
Gear: *See*—
Hydraulic motor gear.
Gears, Finishing. W. A. Witham. 2,317,161; Apr. 20.
Glass shaping machine. W. B. Mitchell. 2,316,969; Apr. 20.
Glazing unit, Corrugated glass. L. T. Sherwood. 2,316,993; Apr. 20.
Governor, Wide range centrifugal. W. E. Benjamin. 2,317,022; Apr. 20.
Grating structure. H. H. Bunker. 2,317,174; Apr. 20.
Grinder attachment. W. Van Triest. 2,316,904; Apr. 20.
Grinding machine. E. Pascucci. 2,316,886; Apr. 20.
Grinding machine, Screw thread. I. J. Snader. 2,316,816; Apr. 20.
Guard, Combination cable and plate highway. A. E. Brickman. 2,317,248; Apr. 20.
Guard for looms, Grease. W. H. Fowler. 2,317,186; Apr. 20.
Guard for sofa beds, Hinge. H. W. Neunherz. 2,317,105; Apr. 20.
Guard, Highway. A. E. Brickman. 2,317,249; Apr. 20.
Guard, Sewing machine needle. M. N. Dunlap and G. Fortney. 2,317,185; Apr. 20.
Guide for fishing rods, Line. J. A. Brown. 2,317,129; Apr. 20.
Gun, Caulking. A. G. Peters. 2,317,299; Apr. 20.
Gun, Fluid dispensing. M. Harris. 2,317,270; Apr. 20.
Hammer, Flexible shaft. M. R. Westover. 2,317,158; Apr. 20.
Handle. A. Niedermayer. 2,316,985; Apr. 20.
Hanger: *See*—
Picture hanger.
Heater: *See*—
Electric heater.
Heterocyclic nitrogen containing compounds, and making the same. W. L. Ruigh. 2,317,303; Apr. 20.
High speed cigar machine. H. H. Wheeler. 2,316,828; Apr. 20.
Hoist, Tiltable lumber. J. J. Tallman. 2,317,000; Apr. 20.
Holder: *See*—
Book holder. Quick release gun holder.
Candle holder.
Honing machine. D. T. Peden. 2,317,079; Apr. 20.
Hook block. H. F. Parker and E. E. Robins. 2,317,215; Apr. 20.
Horn motor and relay unit. R. H. Hill. 2,317,058; Apr. 20.
Hose attachment. G. A. De Gravelle. 2,316,855; Apr. 20.
Hydraulic machine tool. P. S. Jackson. 2,316,871; Apr. 20.
Hydraulic motor gear. P. A. Kinzie. 2,317,275; Apr. 20.
Hydrocarbons, Treatment of. G. Egloff. 2,316,775; Apr. 20.
Images, Producing multicolor. B. Gaspar. 2,316,782; Apr. 20.
Indicator: *See*—
Landing indicator. Stock line indicator.
Indicating instrument. J. B. Dickson and T. L. Holbrook. 2,317,182; Apr. 20.
Indicating system for overdrive control. E. M. Claytor. 2,317,029; Apr. 20.

Indicating system, Fuse. J. D. Colvin. 2,317,030; Apr. 20.
Instrument, Drawing. A. Hehr. 2,317,052; Apr. 20.
Intermitter, Gas lift. M. B. Thomas. 2,317,121; Apr. 20.
Internal combustion engine. B. M. Baer. 2,317,167; Apr. 20.
Internal combustion engine. H. J. Hickey. 2,316,790; Apr. 20.
Internal combustion engine. W. S. Taber. 2,317,154; Apr. 20.
Iron: *See*—
Electric pressing iron. Pressing iron.
Electrodepositing iron. Waffle iron.
Isobutane, Production of. W. A. Ackerman and W. S. Bonnell. 2,317,241; Apr. 20.
Jar or cap wrench. J. L. Donovan. 2,317,037; Apr. 20.
Joint: *See*—
Rail joint.
Keyboard perforator. R. A. Lake. 2,316,795; Apr. 20.
Kinetic projector. C. L. Luebbe. 2,316,798; Apr. 20.
Knitted fabric hosiery, Process and apparatus for. P. L. Thurston and D. Nagley. 2,316,822; Apr. 20.
Knitting machine. F. G. Weisbecker. 2,317,318; Apr. 20.
Knitting machine, Circular. P. L. Thurston. 2,316,823; Apr. 20.
Knob device. F. C. Wallace. 2,316,918; Apr. 20.
Ladder. D. de Luca. 2,316,939; Apr. 20.
Ladder, Chain. H. P. Hopp and E. Kunzelman 2,317,193; Apr. 20.
Lamp: *See*—
Electric lamp. Multiple filament electric lamp.
Fluorescent lamp.
Landing indicator. C. Adler, Jr. 2,316,751; Apr. 20.
Lasts, Making. F. V. Hart. 2,316,863; Apr. 20.
Level, Machinist's precision. W. B. Fell. 2,316,777; Apr. 20.
Liner or spacer for leaf springs. B. D. McIntyre. 2,317,291; Apr. 20.
Liquid measuring device. V. S. Kucki. 2,317,068; Apr. 20.
Load lifting and dumping machine. E. McFarland. 2,317,075; Apr. 20.
Locking device, Car. E. A. Sahlin. 2,316,976; Apr. 20.
Lubricant additives, Halogenated aliphatic. W. A. Whittier and J. B. Stucker. 2,316,925; Apr. 20.
Lubricating piston engine. A. G. F. Wallgren and K. E. Evrell. 2,317,004; Apr. 20.
Lubricating system for sewing machines. F. F. Zeier. 2,317,240; Apr. 20.
Luggage construction. J. H. Plotkin. 2,317,083; Apr. 20.
Machine for applying strips of material to curved surfaces. F. L. Bradley, E. Stumpp, and W. Jawurek. 2,316,767; Apr. 20.
Machine for profiling masses of material, Method and. W. H. Bailey. 2,317,244; Apr. 20.
Machine tool. K. J. Eberhardt. 2,317,264; Apr. 20.
Machine tool. H. N. Seyferth. 2,317,226; Apr. 20.
Magnetic material. E. A. Nesbitt. 2,317,294; Apr. 20.
Mailing piece. E. B. Berkowitz. 2,316,757; Apr. 20.
Manganese electrolyte solutions, Purification of. P. M. Ambrose. 2,316,750; Apr. 20.
Marker, Tape. W. B. Wait. 2,316,906; Apr. 20.
Mask, Swimmer's. C. H. Wilen. 2,317,237; Apr. 20.
Masonry chipping machine. T. H. Larsen. 2,317,148; Apr. 20.
Mastic composition and preparing same. P. V. McKinney and M. G. Mayberry. 2,316,964; Apr. 20.
Material collecting and loading apparatus. T. K. and T. Andersen. 2,316,760; Apr. 20.
Material for coating metal surfaces with water insoluble metallic phosphates, Method of and. G. C. Romig. 2,316,810; Apr. 20.
Measuring board and cutoff stop. F. S. Overacker, H. G. Thorn, and D. E. Wark. 2,316,971; Apr. 20.
Measuring device. H. L. Whitman. 2,317,321; Apr. 20.
Measuring device, Yardage. H. W. Gilbert. 2,317,141; Apr. 20.
Mechanism for truing holes. E. Mattson. 2,316,879; Apr. 20.
Metal casing for building construction. F. M. Zecca. 2,316,829; Apr. 20.
Metallurgical furnace. D. Carbarrocas y Ayala. 2,317,252; Apr. 20.
Metals, Working. R. Lowit. 2,317,205; Apr. 20.
Meter: *See*—
Electricity meter. Fluid meter.
Method and apparatus for handling materials. F. J. Tobias, P. N. and R. F. Jessen. 2,316,824; Apr. 20.
Method for removing weakly acidic substances from substantially neutral organic water-immiscible liquid. G. W. Ayers, Jr., and L. M. Henderson. 2,316,753; Apr. 20.
Micrometer gauge. G. F. Heimberger. 2,316,864; Apr. 20.
Micrometer gauge. M. Maag. 2,316,877; Apr. 20.
Mineral oil composition and improving agent therefor. O. M. Reiff, F. P. Otto, J. J. Giammaria, and E. A. Oberright. 2,316,889; Apr. 20.
Mixer: *See*—
Continuous mixer.
Mixing valve construction. C. Groen. 2,317,051; Apr. 20.
Mixtures of olefins and paraffins, Separation of. H. M. Guinot. 2,316,860; Apr. 20.
Molding, Price ticket. L. Hopp. 2,317,192; Apr. 20.
Mop. P. J. Domenk. 2,317,260; Apr. 20.
Motor: *See*—
Air motor. Fluid motor.
Motor. J. J. Gough. 2,317,098; Apr. 20.
Motor. H. H. Ingersoll. 2,316,960; Apr. 20.
Motor vehicle driving mechanism. A. M. Wolf. 2,317,324; Apr. 20.
Mounting: *See*—
Bowl mounting. Ophthalmic mounting.
Mounting. R. C. Henshaw. 2,317,190; Apr. 20.
Muffler. A. G. Bergmann. 2,317,246; Apr. 20.
Multiple filament electric lamp. H. E. Butler. 2,317,027; Apr. 20.
Musical instrument, Stringed. J. W. McBride, 2,316,799–800; Apr. 20.
Nailhead, Self-embedding. E. Swedman. 2,317,231; Apr. 20.
Nail machine, Cut. B. N. Bletso and G. H. Perkins. 2,317,247; Apr. 20.
Noise control circuit. B. Trevor. 2,316,902; Apr. 20.
Nuts, Manufacturing lock. R. O. Chaffee. 2,317,094; Apr. 20.
Oil burner. A. W. Morse and V. Singer. 2,316,881; Apr. 20.
Oil control device, Conversion. R. W. Johnson. 2,317,063; Apr. 20.
Oil, Lubricating. F. A. Armfield. 2,316,852; Apr. 20.
Oil seal. H. M. Dodge. 2,316,941; Apr. 20.
Oils, Continuous process for cracking and polymerizing. D. G. Brandt. 2,316,931; Apr. 20.
Ophthalmic mounting. E. M. Splaine. 2,316,817; Apr. 20.
Organic acidic substances from hydrocarbon fluids, Removing. L. M. Henderson, G. W. Ayers, Jr., and D. C. Bond. 2,317,055; Apr. 20.
Organic acidic substances from hydrocarbon fluids, Removing. T. L. McNamara and L. M. Henderson. 2,316,966; Apr. 20.
Organic compounds containing inorganic groups, Production of. H. Dreyfus. 2,316,847; Apr. 20.
p-Nitrobenzene sulphinamide. J. Vonkennel and J. Kimmig. 2,316,825; Apr. 20.
Pack, Parachute. F. Smith. 2,316,896; Apr. 20.
Packaging machine. S. R. Howard. 2,316,867; Apr. 20.
Packing and making the same, Metallic. J. J. Fiechter. 2,316,778; Apr. 20.
Parachute. T. C. Schenk. 2,317,115; Apr. 20.
Parachute and parachute pack. F. Smith. 2,316,895; Apr. 20.
Parasiticide, Contact. G. E. Lynn, F. W. Fletcher, and G. H. Coleman. 2,316,962; Apr. 20.
Paraffin solvent. W. H. Ellinger. 2,317,038; Apr. 20.
Patterns, Creation of design. L. E. Eyman. 2,317,043; Apr. 20.
Permanent magnet and production. E. A. Nesbitt. 2,317,295; Apr. 20.
Petroleum hydrocarbons, Treating. W. T. Hancock. 2,316,954; Apr. 20.
Petroleum oils, Method of treating. L. M. Henderson and G. W. Ayers, Jr. 2,317,054; Apr. 20.
Petroleum, Production of. J. L. Porter and I. R. Funk. 2,317,219; Apr. 20.
Phonograph drive mechanism. W. J. Green. 2,316,857; Apr. 20.
Phosphoric acid derivatives of bactericidal compounds and manufacture thereof. K. Warnat. 2,316,908; Apr. 20.
Photographic material and manufacturing same. P. Dreyfuss. 2,317,184; Apr. 20.
Photographic material for taking color photographs. W. Michaelis. 2,316,803; Apr. 20.
Picture hanger. F. Lowenthal. 2,317,204; Apr. 20.
Pier and constructing the same. H. H. Allen. 2,317,017; Apr. 20.
Pipestem. A. Daignault and A. Nolet. 2,317,180; Apr. 20.
Piston, Pump. A. S. Volpin. 2,317,122; Apr. 20.
Piston ring for mixing valves. A. A. Dalkin. 2,317,034; Apr. 20.
Plastic, Polystyrene. D. A. Fletcher. 2,317,137; Apr. 20.
Pneumatic spring. T. A. Higby. 2,317,057; Apr. 20.
Polymeric iminoether hydrohalides. D. D. Coffman and F. C. McGrew. 2,317,155; Apr. 20.
Polymerizable unsaturated methylene compound and resin comprising polymers thereof. L. Coes, Jr., and C. E. Barnes. 2,317,130; Apr. 20.
Polymerization of ethanoid monomers, Granular. D. A. Fletcher. 2,317,138; Apr. 20.
Popcorn machine. R. W. Scott. 2,316,989; Apr. 20.
Portable suction cleaner. A. A. Breuer. 2,316,836; Apr. 20.
Post cap. G. F. Barnett. 2,317,125; Apr. 20.
Potato dressing apparatus. J. W. Hammond. 2,316,953; Apr. 20.
Power transmission, Automatic shift. G. A. Steven. 2,317,339; Apr. 20.
Power transmission control, Motor vehicle. C. R. Paton. 2,317,216; Apr. 20.

Press: *See*—
  Printing press.
Presses, Maintaining register in multiunit. C. S. Crafts and C. V. Knell. 2,317,095; Apr. 20.
Pressing iron. S. Dowinsky. 2,317,261; Apr. 20.
Pressing machine, Shoe. K. W. Macdonald. 2,317,151; Apr. 20.
Pressure apparatus. M. Knight. 2,317,276; Apr. 20.
Pressure gauge. F. G. Orland. 2,317,109; Apr. 20.
Pressure relief valve. A. Rappl and E. C. Horton. 2,317,332; Apr. 20.
Printing press. C. S. Crafts. 2,316,935; Apr. 20.
Profilometer. A. Grauer. 2,316,951; Apr. 20.
Pulverizing mill control system. J. L. Laboulais. 2,316,875; Apr. 20.
Pump controlling mechanism. H. E. Adams. 2,317,091; Apr. 20.
Pumping device. V. R. Abrams. 2,317,166; Apr. 20.
Puzzle. H. W. Hutchison. 2,317,273; Apr. 20.
Quick-break disconnect switch. W. O. Schultz and A. G. Steinmayer. 2,317,118; Apr. 20.
Quick release gun holder. A. Smith. 2,316,995; Apr. 20.
Rack: *See*—
  Display rack.
Rack construction, Removable tray. S. Saul, Jr. 2,316,892; Apr. 20.
Rail joint. J. Farago. 2,316,849; Apr. 20.
Railway signaling apparatus. H. S. Young. 2,316,929; Apr. 20.
Railway traffic controlling apparatus. R. R. Kemmerer. 2,316,961; Apr. 20.
Railway vehicle structure. J. C. Travilla and E. C. Jackson. 2,317,156; Apr. 20.
Reactor, Inductive. E. O. Woodward. 2,316,928; Apr. 20.
Receptacle for refrigerators, Food storage. D. F. Newman. 2,317,212; Apr. 20.
Record. R. W. Sears, II. 2,316,815; Apr. 20.
Recorder, Electromagnetic sound. H. M. Kirschbaum. 2,317,199; Apr. 20.
Rectifier, Selenium. F. Waibel and E. Nitsche. 2,316,905; Apr. 20.
Reenforcing clamp. L. O. Schneeberger. 2,316,978; Apr. 20.
Refrigerating apparatus. L. A. Philipp. 2,317,081–2; Apr. 20.
Refrigerating system. O. C. Irwin. 2,316,791–2; Apr. 20.
Refrigeration. E. S. Lynger. 2,317,283; Apr. 20.
Refrigeration. A. R. Thomas. 2,316,821; Apr. 20.
Refrigeration. A. R. Thomas. 2,317,234; Apr. 20.
Refrigerator car. W. E. Baillie. 2,316,755; Apr. 20.
Regrooving tool. W. A. Smith. 2,317,230; Apr. 20.
Remote control. W. W. Stolzenberg. 2,316,899; Apr. 20.
Resin and the preparation thereof, Synthetic. J. L. Sheridan. 2,317,116; Apr. 20.
Resins, Manufacture of vinyl. T. R. Lemanski. 2,317,149; Apr. 20.
Revolvable table. A. Evans. 2,317,042; Apr. 20.
Rig, Rotary drilling. J. E. Smith. 2,317,306; Apr. 20.
Riveter suspension, Portable. A. E. Rylander. 2,317,224; Apr. 20.
Road marking machine. R. C. McCubbin. 2,317,288; Apr. 20.
Roller for centrifugal casting molds. H. B. Wessenger and J. L. Martin. 2,316,827; Apr. 20.
Rotary feeder. O. A. Johnson. 2,317,274; Apr. 20.
Rubber, Plasticizing synthetic. B. S. Garvey. 2,316,949; Apr. 20.
Rutile titanium dioxide, Preparation of. S. S. Cole. 2,316,840–1; Apr. 20.
Salts of ferrous salts and pyridine carboxylic acid amide, Double. H. Stenzl. 2,317,309; Apr. 20.
Scabbard or sheath. E. L. Beckwith and C. P. MacIver. 2,316,766; Apr. 20.
Saw, Cut-off. D. J. Smith. 2,316,996; Apr. 20.
Scale, Weighing. T. B. Flanagan. 2,316,947; Apr. 20.
Scraper. C. Ericksen. 2,317,041; Apr. 20.
Screen attachment for eaves trough. D. W. Hughes. 2,317,272; Apr. 20.
Screw driver. M. A. West. 2,317,319; Apr. 20.
Seal, Insulator. K. Schwartzwalder and R. W. Smith. 2,317,305; Apr. 20.
Seal, Quartz tungsten. C. D. Spencer. 2,316,999; Apr. 20.
Sealing means for ash hopper gates. J. K. Weniger. 2,317,007; Apr. 20.
Selective tuned circuit. R. A. Weagant. 2,316,909; Apr. 20.
Separable fastener. S. D. Gould. 2,316,787; Apr. 20.
Separator: *See*—
  Compaction separator.
Sewing case. R. C. Kinney. 2,317,200; Apr. 20.
Shaft and hub connection. R. G. Le Tourneau. 2,317,070; Apr. 20.
Shaver, Dry. L. C. Carissimi. 2,317,177; Apr. 20.
Sheet fastening means. H. K. Foote. 2,317,047; Apr. 20.
Shelf, Sectional slidable. E. Swedman. 2,317,232; Apr. 20.
Ship control. H. W. Brolus. 2,317,251; Apr. 20.
Shock absorber structure, Hydraulic. R. H. Whisler, Jr. 2,316,924; Apr. 20.
Shoe platforms, Making. C. Reggie. 2,317,220; Apr. 20.
Shoe sewing machine. F. Ashworth and C. F. Whitaker. 2,316,761; Apr. 20.
Sighting apparatus for use on aircraft and for like purposes. L. M. Hilton and J. Hetherington. 2,317,059; Apr. 20.
Signal: *See*—
  Door signal.
Signal for motorists, Hand. G. T. Sherwood. 2,317,227; Apr. 20.
Signal system. C. E. Potter and J. W. Kendall. 2,317,084; Apr. 20.
Skin clamp. F. C. Wallace. 2,317,315; Apr. 20.
Sled. O. Fosbak. 2,317,048; Apr. 20.
Slicing machine. H. G. Lothes. 2,316,876; Apr. 20.
Snap valve. F. R. Higley and V. O. Beam. 2,317,271; Apr. 20.
Socket device. C. L. Hall and G. F. Cram. 2,317,100; Apr. 20.
Socket for signal lamps, Resistance. E. F. Webb. 2,317,157; Apr. 20.
Socket, Lamp. W. R. Young. 2,317,163; Apr. 20.
Solution mixing and dispensing device. E. W. Fox. 2,316,781; Apr. 20.
Solvents and using the same, Gum and carbon deposit. W. J. Backoff and N. D. Williams. 2,316,754; Apr. 20.
Specimen holder for X-ray analyses. D. McLachlan, Jr. 2,317,329; Apr. 20.
Spectacle case and insert therefor. M. B. Roth. 2,317,302; Apr. 20.
Speed drill. A. A. Nummelin. 2,317,106; Apr. 20.
Speed transmission, Infinitely variable. W. H. Johnson. 2,316,793; Apr. 20.
Spindle construction, Welded. R. C. Allen. 2,317,092; Apr. 20.
Spraying machine. J. O. Kahl. 2,317,066; Apr. 20.
Spring: *See*—
  Pneumatic spring.
Spring contact for electric connections. S. F. Bird. 2,317,023; Apr. 20.
Spring wheel. W. E. Dalley. 2,317,136; Apr. 20.
Squawker for toys. O. B. Crowell. 2,317,255; Apr. 20.
Stand: *See*—
  Christmas tree stand. Display stand.
Stapling machine. A. H. Schmidtke. 2,316,988; Apr. 20.
Starch manufacturing process. A. Peltzer. 2,316,807; Apr. 20.
Steel rolls, Method and apparatus for hardening. J. A. Taylor. 2,317,233; Apr. 20.
Steels, Aluminum-treated cast. A. P. Gagnebin. 2,316,948; Apr. 20.
Steering wheel attachment. W. H. Snow. 2,317,307; Apr. 20.
Stencils, Making screen. J. B. Brennan and L. Marsh. 2,316,768; Apr. 20.
Stitching machine. W. R. Pabich and H. Tellfors. 2,317,298; Apr. 20.
Stock line indicator. A. E. Handy. 2,316,955; Apr. 20.
Stripping implement. S. Jabour. 2,316,869; Apr. 20.
Stud, Light reflecting. H. B. Wood. 2,317,162; Apr. 20.
Support: *See*—
  Furniture support.
Swing, Baby. J. C. Anderegg. 2,317,243; Apr. 20.
Switch: *See*—
  Electric timing switch.
  Quick-break disconnect switch.
Switch operating mechanism, Railway. H. L. Bone. 2,316,930; Apr. 20.
Switching device. E. S. Cornell, T. Fjellstedt, and S. C. Killian. 2,316,844; Apr. 20.
Switching system, Electric. P. T. Galt, Jr. 2,317,266; Apr. 20.
Table: *See*—
  Revolvable table.
Table type bowling apparatus. W. P. McDonald. 2,317,289; Apr. 20.
Tackle box. W. C. Baron. 2,316,833; Apr. 20.
Take-up mechanism for conveyer apparatus. A. W. Lemmon. 2,317,235; Apr. 20.
Tank for electrodeposition of metals on metallic strip, Plating. W. S. Allen, R. A. D. Dormont, and E. S. Talerson. 2,317,242; Apr. 20.
Tank truck. W. Josephian. 2,317,064; Apr. 20.
Telephone system. B. D. Holbrook. 2,317,191; Apr. 20.
Tensioning means for chain saws. D. J. Smith. 2,316,997; Apr. 20.
Terminal structure for electric lamps. C. A. Cotman and D. K. Wright. 2,317,032; Apr. 20.
Testing device. J. J. Eagan. 2,317,263; Apr. 20.
Testing equipment, Materials. R. F. Blanks. 2,317,093; Apr. 20.
Thermal control for electric circuit. R. R. Kernen. 2,316,872; Apr. 20.
Thermocouple. A. T. Ball, Jr. 2,317,168; Apr. 20.
Thermostat structure. K. B. Dafforn. 2,317,033; Apr. 20.
Threading machine, Step. W. F. Groene and H. J. Siekmann. 2,317,099; Apr. 20.
Three-roll mill for crushing sugar cane and the like. J. D. Compain. 2,316,843; Apr. 20.
Tie stitch mechanism. W. R. Spiller. 2,317,308; Apr. 20.
Time delay mechanism. T. J. Mudon. 2,317,078; Apr. 20.

Tin can container. S. Musher. 2,316,804; Apr. 20.
Tire, Resilient. H. F. Betke. 2,317,323; Apr. 20.
Tire tool. C. W. Martin. 2,317,072; Apr. 20.
Tissue container. M. Lichter. 2,316,796; Apr. 20.
Tool: *See*—
  Borehole deflecting tool. Regrooving tool.
  Hydraulic machine tool. Tire tool.
  Machine tool.
Tolylethyl butyrate and making same. F. J. Soday. 2,316,912; Apr. 20.
Tone equalizing mechanism. C. R. La Mar. 2,317,069; Apr. 20.
Toothbrush. G. Ulvick. 2,317,002; Apr. 20.
Toothbrush. H. Warp. 2,317,123; Apr. 20.
Toothbrush cover fastener. L. F. Perwas. 2,317,111; Apr. 20.
Top cover construction for stoves. A. G. Sherman. 2,316,992; Apr. 20.
Toy, Educational. S. H. Major. 2,317,206; Apr. 20.
Trainer, Football kicking. F. P. Silva. 2,316,994; Apr. 20.
Transmission network, Dual signal frequency. G. Mountjoy. 2,316,883; Apr. 20.
Transmission, Power. W. P. Willett. 2,316,926; Apr. 20.
Trap: *See*—
  Animal trap. Drain trap.
Trap and bait box therefor. F. Schreyer. 2,316,888; Apr. 20.
Tray, Ash. E. P. Aghnides. 2,316,831; Apr. 20.
Truck, Railway. H. R. Bartell. 2,317,169; Apr. 20.
Tube: *See*—
  Electric discharge tube.
Tube coupling. A. L. Parker. 2,316,806; Apr. 20.
Tuning indicator device. A. T. Vossen. 2,316,916; Apr. 20.
Turntable drive mechanism. E. O. Thompson. 2,316,858; Apr. 20.
2-hydroxy-alkylamino-5-sulphobenzoic acid. P. Petitcolas and J. Frenkiel. 2,316,809; Apr. 20.
Typewriting machine. R. J. Bastow and J. R. Coburn. 2,317,170; Apr. 20.
Typewriting machine. W. A. Dobson. 2,317,183; Apr. 20.
Typewriting machine. W. F. Helmond. 2,316,865; Apr. 20.
Umbrella cover, Removable. S. Weinberg. 2,317,160; Apr. 20.
Unit, Scaffold. J. C. Halferty. 2,316,952; Apr. 20.
Urea-formaldehyde-triethanolamine hydrochloride condensation product. G. F. D'Alelio. 2,317,181; Apr. 20.
Valve: *See*—
  Carburetor vapor relief valve. Pressure relief valve.
  Gate valve. Snap valve.
Valve. F. H. Hehemann. 2,316,957; Apr. 20.
Valve. E. S. Kaelin. 2,317,065; Apr. 20.
Valve. W. Ernst. 2,316,944; Apr. 20.
Valve locking device. H. E. Heath. 2,316,956; Apr. 20.
Vehicle wheel. C. R. Stough. 2,317,311; Apr. 20.
Vending machine. M. L. Smith. 2,316,897; Apr. 20.
Volume control circuit. D. S. Bond. 2,317,025; Apr. 20.
Waffle iron. E. M. Schara. 2,317,225; Apr. 20.
Wall assembly. L. C. Sigloch and C. W. Lund. 2,316,980; Apr. 20.
Wall pocket. M. Lichter. 2,316,797; Apr. 20.
Wall structure. R. B. Tedrow. 2,316,819; Apr. 20.
Walking block. J. G. Banister. 2,317,020; Apr. 20.
Washing machine. A. C. Schmeizer. 2,317,117; Apr. 20.
Water eliminator. R. S. Grant. 2,317,144; Apr. 20.
Welding apparatus. E. Riemenschneider. 2,317,221; Apr. 20.
Welding rod connector. C. E. Rockne. 2,316,890; Apr. 20.
Wheel: *See*—
  Spring wheel. Vehicle wheel.
Wheel assembly, Spring. P. C. Pezzella. 2,317,218; Apr. 20.
Wheel slip responsive means. C. M. Hines. 2,317,146; Apr. 20.
Winding apparatus. E. J. McIlvried. 2,317,290; Apr. 20.
Window construction. E. C. Swanson, V. P. Fredericksen, and P. C. Gaskell. 2,317,312; Apr. 20.
Wiper mechanism, Windshield. R. B. Bell. 2,317,245; Apr. 20.
Wiring device. M. G. Heiser, J. M. von Bergen, and W. A. Bogg. 2,317,189; Apr. 20.
Work-locating mechanism. C. K. Woodman. 2,316,911; Apr. 20.
Wool fabric, Woven metallic. M. A. Stybr. 2,316,818; Apr. 20.
Wrench: *See*—
  Jar or cap wrench.
Writing device. M. A. Weil. 2,317,159; Apr. 20.
Xylophone. H. Zimmerman. 2,317,164–5; Apr. 20.
Yoke, Riveting. H. R. Fischer. 2,316,946; Apr. 20.

APPLICATIONS VESTED IN ALIEN PROPERTY CUSTODIAN

APRIL 20, 1943

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CLASS 260

A.P.C. 134,186. Manufacture of water-soluble antiseptics from hexylresorcinols. Helmut Legerlotz, Wien, Austria. Published April 20, 1943.

A.P.C. 144,097. Process for oxidizing unsaturated polycyclic alcohols. Rupert Oppenauer, Amsterdam, Netherlands. Published April 20, 1943.

A.P.C. 188,958. Process for the production of new efficacious p-amino-benzene-sulphamide derivatives, suitable for injection purposes. Zoltan Foldi, Budapest, Hungary. Published April 20, 1943.

A.P.C. 196,546. Process of preparation of sterol oxidation products containing two carbonyl groups. Hermann Bretschneider, Budapest, Hungary. Published April 20, 1943.

A.P.C. 202,011. Method for hardening of polymers. Willi Mertens, Berlin-Zehlendorf, Germany. Published April 20, 1943.

A.P.C. 202,126. Production of male sexual hormone. Ernst Laqueur, et al., Amsterdam, Holland. Published April 20, 1943.

A.P.C. 203,674. Synthetic resins. Herbert Berg, et al., Burghausen, Germany. Published April 20, 1943.

A.P.C. 205,989. Method for the production of higher molecular mercaptals and mercaptols. Erik Schirm, Dessau/Anhalt, Germany. Published April 20, 1943.

A.P.C. 211,388. Anti-friction device. Rudolf Menger, Berlin, Germany. Published April 20, 1943.

A.P.C. 216,105. Process of separating olefines from gaseous mixtures. Henri M. Guinot, Niort, France. Published April 20, 1943.

A.P.C. 216,606. Polyisobutylene mixture for electric insulating purposes. Hans Muller, et al., Berlin-Wilmersdorf, Germany. Published April 20, 1943.

A.P.C. 219,604. Synthetic rubber. Alessandro Maximoff, Milano, Italy. Published April 20, 1943.

A.P.C. 220,011. Manufacture of synthetic rubber. Alesandro Maximoff, Milano, Italy. Published April 20, 1943.

A.P.C. 221,264. Process for converting trichlor ethylene. Walter Bauer, Darmstadt, Germany. Published April 20, 1943.

A.P.C. 227,107. Method of preventing scale formation. Hiroshi Suzuki, Meguro-Ku, Tokyo, Japan. Published April 20, 1943.

A.P.C. 232,013. Process for producing an agent adapted for rendering materials impermeable. Wilhelm J. H. Hinrichs, Hamburg, Germany. Published April 20, 1943.

A.P.C. 235,224. Plastic composition and process for manufacturing the same. Henri Carroll, Paris, France. Published April 20, 1943.

A.P.C. 237,057. Process for the preparation of hardened synthetic resinous products. Arthur Greth, Wiesbaden, Germany. Published April 20, 1943.

A.P.C. 238,166. Resin-like rubber conversion products. Arthur Greth, et al., Wiesbaden, Germany. Published April 20, 1943.

A.P.C. 239,456. High molecular polymerization products. Heinrich Rinke, et al., Leverkusen-Kuppersteg, Germany. Published April 20, 1943.

A.P.C. 242,290. Process for stabilizing cellulose esters. Aladar Schuller, et al., Antwerp, Belgium. Published April 20, 1943.

A.P.C. 242,894. Process for preparing ketenes. Richard Hueter, Dessau-Rosslau-Anhalt, Germany. Published April 20, 1943.

A.P.C. 246,492. Condensation products. Kurt Alder, et al., Cologne-Deutz, Germany. Published April 20, 1943.

A.P.C. 249,340. Wetting, dispersing and washing agent. Elsa M. Jablonski, nee Hofmann, et al., Frankfurt-Main, Germany. Published April 20, 1943.

A.P.C. 250,066. Method for producing unsaturated chlorinated hydrocarbons containing four carbon atoms. Walter Bauer, Darmstadt, Germany. Published April 20, 1943.

A.P.C. 251,702. Process for producing styrene. Martin Mugdan, et al., Munich-Grosshesselohe, Germany. Published April 20, 1943.

A.P.C. 253,223. Thermoplastic material and a process for the manufacture of same. Asbjorn Aasen, Olso, Norway. Published April 20, 1943.

A.P.C. 253,715. Method and apparatus for producing urea. Claus Koeppel, Oberhausen-Osterfeld, Germany. Published April 20, 1943.

A.P.C. 255,882. Stimulants suitable for combating symptoms of fatigue and process for their production. Felix Haffner, et al., Tubingen, Germany. Published April 20, 1943.

A.P.C. 257,543. Manufacture of nucleosides. Hellmut Bredereck Leipzig, Germany. Published April 20, 1943.

A.P.C. 261,159. Process for preparing water-soluble condensation products. Hans Herbert Schiedewitz, Oschatz, Germany. Published April 20, 1943.

A.P.C. 263,258. Process for the manufacture of plastic materials and new industrial products resulting therefrom. Andre H. V. Durr, et al., Paris, France. Published April 20, 1943.

A.P.C. 267,160. Higher molecular substances from allyl chloride and its homologues. Walter Bauer, et al., Darmstadt, Germany. Published April 20, 1943.

A.P.C. 268,405. Process for the production of diamide and polyamide resins. Ignaz Kreidl, et al., Vienna, Germany. Published April 20, 1943.

A.P.C. 271,501. Process for the production of a binding agent for fibrous substances. Carl E. W. Oesterreich, Berlin-Wilmersdorf, Germany. Published April 20, 1943.

A.P.C. 274,109. Process for the manufacture of resites. Emil Dreher, Ludwigshafen-on-the-Rhine, Germany. Published April 20, 1943.

A.P.C. 275,323. Production of polymerization products from isobutylene. Michael Otto, Ludwigshafen-on-the-Rhine, Germany. Published April 20, 1943.

A.P.C. 279,151. Solvent for polymerized synthetic substances. Paul Kummel, Oranienburg, near Berlin, Germany. Published April 20, 1943.

A.P.C. 283,323. Gluosidic compounds. August Chwala, Vienna, Germany. Published April 20, 1943.

A.P.C. 283,374. Process for obtaining crystalline materials from oils. Karl Fehr, et al., Castrop-Rauxel, Germany. Published April 20, 1943.

A.P.C. 286,693. Method for the manufacture of writing-masses. Heinrich Schwappacher, Stein near Nuremberg, Germany. Published April 20, 1943.

A.P.C. 287,249. Dichlorobutenes and a process of preparing them. Walter Schmidt, Frankfort am Main, Germany. Published April 20, 1943.

A.P.C. 287,408. Condensation products. Kurt Alder, et al., Cologne, Germany. Published April 20, 1943.

A.P.C. 287,760. Hexaesters of tetraphosphoric acid. Gerhard Schrader, Leverkusen I. G.-Werk, Germany. Published April 20, 1943.

A.P.C. 289,711. Process for the manufacture of butadiene. Giulio Natta, Milano, Italy. Published April 20, 1943.

A.P.C. 290,077. Production of olefine oxides. Gerardus H. Visser, Amsterdam, the Netherlands. Published April 20, 1943.

A.P.C. 291,380. Process for aromatizing and dehydrogenating hydrocarbons. Helmut Kolling, et al., Duisburg-Hamborn, Germany. Published April 20, 1943.

A.P.C. 292,158. Process for refining keratin-containing material and moulding powders and products producible therefrom. Stefan Bakonyi, Tovaros, Hungary. Published April 20, 1943.

A.P.C. 294,323. Process for the preparation of polishing wax. August Schneider, Hamburg, Germany. Published April 20, 1943.

A. P. C. 295,616. Process for the production of glycerol. Giulio Natta, et al., Milan, Italy. Published April 20, 1943.

A.P.C. 297,668. Condensation products from substances of the type of dihydroxy-diphenylmethane and process of making them. Erich Haack, Radebeul near Dresden, Germany. Published April 20, 1943.

A.P.C. 300,234. Process for the manufacture of colours for printing, products resulting therefrom and their industrial applications. Andre Henri Victor Durr, et al., Paris, France. Published April 20, 1943.

A.P.C. 301,165. Complex phenol-polyvinyl type resins and their production. Alfons V. Putzer-Reybegg, Wiesbaden, Germany. Published April 20, 1943.

A.P.C. 303,534. Condensation products of superpolyamide character and process of producing them. Hanns Ufer, et al., Ludwingshafen-on-the-Rhine, Germany. Published April 20, 1943.

A.P.C. 305,042. Process of manufacture of cellular rubber having fluiding-tight cells. Louis E. H. Pagnon, Paris, France. Published April 20, 1943.

A.P.C. 305,458. Method for the manufacture of condensation-products. Winfried Hentrich, et al., Dessau-Rosslau/Anhalt, Germany. Published April 20, 1943.

A.P.C. 305,564. Novel chromiferous dyestuffs and processes for making the same. Georges Kopp, et al., Rouen, France. Published April 20, 1943.

A.P.C. 306,197. Process for the manufacture of cellular rubber having fluid-tight cells. Louis E. H. Pagnon, Paris, France. Published April 20, 1943.

A.P.C. 306,583. Method for preparing condensation products of the type of the furylmethane derivatives. Piet C. Kruyff, Woerden, the Netherlands. Published April 20, 1943.

A.P.C. 306,683. Rubber-like materials from dihydroxyalkyl sulphides. Tadao Okita, Imazucho, Nishinomiya, Japan. Published April 20, 1943.

A.P.C. 306,684. Method of manufacturing rubber-like materials. Tadao Okita, Imazucho, Nishinomiya, Japan. Published April 20, 1943.

A.P.C. 307,706. Method for the production of press masses. Franz Nozicka, Vienna, Germany. Published April 20, 1943.

A.P.C. 308,726. α-Dialkyl-β-Diaryl-Ethanes and process for preparing them. Hermann Bretschneider, et al., Budapest Hungary. Published April 20, 1943.

A.P.C. 309,240. Film-forming composition and process for preparing the same. Fritz Jage, Saarau Kreis Schweidnitz, Germany. Published April 20, 1943.

A.P.C. 309,303. Production of alicyclic alcohols. Willi Schmidt, et al., Ludwigshafen-on-Rhine, Germany. Published April 20, 1943.

A.P.C. 309,376. Method and apparatus for producing linear polymers. Alfred Friederich, et al., Berlin-Wilmersdorf, Germany. Published April 20, 1943.

A.P.C. 309,702. Analgetically effective tetrahydronaphthalene derivatives. Georg Scheuing, et al., Ingelheim-am-Rhine, Germany. Published April 20, 1943.

A.P.C. 314,449. Resinous condensation products of aldehydes and compounds of the pyrrole and thiazole series. Werner Zerweck, et al., Frankfurt-am-Main-Fechenheim, Germany. Published April 20, 1943.

A.P.C. 315,037. Condensation products and a process of producing same. Hugo Kroeper, et al., Heidelberg, Germany. Published April 20, 1943.

A.P.C. 315,627. Extraction of gelatine from ossein. Holger Jorgensen, Copenhagen, Denmark. Published April 20, 1943.

A.P.C. 318,386. Process of making vanillin from lignin, lignin derivatives or other materials containing lignin. Karl Freudenberg, et al., Heidelberg, Germany. Published April 20, 1943.

A.P.C. 321,135. Aldehyde resin reaction products. Willy O. Herrmann, et al., Deisenhofen, Germany. Published April 20, 1943.

A.P.C. 322,481. Process for the purification of phosphatides. Aage Christiansen, Russhov, near Aarhus, Denmark. Published April 20, 1943.

A.P.C. 322,552. Condensation products of the anthraquinone series. Winfred Hentrich, et al., Dessau-Rosslau, Germany. Published April 20, 1943.

A.P.C. 323,410. Process for treating naphthenic hydrocarbon distillates. Adrianus J. Van Peski, Amsterdam, the Netherlands. Published April 20, 1943.

A.P.C. 323,512. Process for the production of high polymeric compounds. Max Hagedorn, Dessau, Germany. Published April 20, 1943.

A.P.C. 324,384. Production of vinyl acetylene. Robert Stadler, et al., Heidelberg, Germany. Published April 20, 1943.

A.P.C. 326,300. Process for concentrating aqueous dispersions. Arend D'Angremond, et al., Medan Sumatra, The Netherlands East Indies. Published April 20, 1943.

A.P.C. 326,497. Method of producing starch esters. Martinus G. Groen, Hoogezand, The Netherlands. Published April 20, 1943.

A.P.C. 326,804. Process for manufacturing carbinols naving an acetylenic function. Joseph Zeltner, et al., Paris, France. Published April 20, 1943.

A.P.C. 326,967. High-molecular film-forming condensation products and process of producing same. Rudolf Kern. Ludwigshafen-on-the-Rhine, Germany. Published April 20, 1943.

A.P.C. 326,973. Methods of regenerating vulcanized rubber. Umberto Sartorelli, Milano, Italy. Published April 20, 1943.

A.P.C. 327,494. Production of painting colors. Hermann Staudinger, et al., Freiburg, Germany. Published April 20, 1943.

A.P.C. 327,519. Process for the production of latex with low protein content. Gerard E. Van Gils, Buitenzorg, Java, Dutch East Indies. Published April 20, 1943.

A.P.C. 327,632. Process for the production of high polymeric condensation products. Max Hagedorn, et al., Dessau. Germany. Published April 20, 1943.

A.P.C. 327,634. Regenerating of vulcanized rubber. Walter Gumlich, et al., Leverkusen-Schlebusch, Germany. Published April 20, 1943.

A.P.C. 327,820. Process for the production of alcohols of the acetylene series. Walter Reppe, et al., Ludwigshafen-on-the-Rhine, Germany. Published April 20, 1943.

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A.P.C. 328,152. Dyestuffs derived from the 2-amino-3-naphtoic acid, their method of manufacture and their applications. Georges Kopp, et al., Rouen, France. Published April 20, 1943.

A.P.C. 329,826. Process of carrying out endothermic transformations of hydrocarbons. Heinrich Tramm, Muhlheim-Speldorf, Germany. Published April 20, 1943.

A.P.C. 329,860. Stabilized water-in-oil emulsions. Hilger P. Schmitz, Munchen, Germany. Published April 20, 1943.

A.P.C. 330,310. Precipitation of emulsion polymerizates. Richard Ludwig, et al., Leverkusen-I. G. Werk, Germany. Published April 20, 1943.

A.P.C. 330,467. Process for the conversion of ketoximes into acid amides. Georg Wiest, Ludwigshafen-on-the-Rhine, Germany. Published April 20, 1943.

A.P.C. 330,476. Production of cyclic oxygen compounds. Willi Schmidt, et al., Ludwigshafen-on-the-Rhine, Germany. Published April 20, 1943.

A.P.C. 332,700. Method of producing artificial substances from polyvinyl compounds. Hans Muller, et al., Berlin-Wilmersdorf, Germany. Published April 20, 1943.

A.P.C. 332,701. Method or producing artificial substances from polyvinyl compounds. Hans Muller, et al., Berlin-Wilmersdorf, Germany. Published April 20, 1943.

A.P.C. 333,012. Manufacture of hydroxy-keto compounds having a cyclopentanopolyhydrophenanthrene nucleus. Rupert Oppenauer, Amsterdam, The Netherlands. Published April 20, 1943.

A.P.C. 334,574. Synthetic rubber-like materials. Erich Konrad, et al., Leverkusen-I. G. Werk, Germany. Published April 20, 1943.

A.P.C. 334,990. Process for preparing aminothiazol-derivatives. Zoltan Foldi, et al., Budapest, Hungary. Published April 20, 1943.

A.P.C. 335,356. Method of manufacturing products from rubber and products obtained through said method. Andre Chomette, et al., Paris, France. Published April 20, 1943.

A.P.C. 335,387. Manufacture of carpets, linings or the like. Jean Mercier, Neuilly-sur-Seine, France. Published April 20, 1943.

A.P.C. 336,001. Manufacture of cyclic amidines and artificial materials produced thereof. Paul Schlack, Berlin-Treptow, Germany. Published April 20, 1943.

A.P.C. 336,004. Process for the production of chlorinated hydrocarbons with 4 carbon atoms from trichlorethylene. Josef Wimmer, Muckenberg, District of Liebenwerda, Germany. Published April 20, 1943.

A.P.C. 336,013. Process for condensation of primary aliphatic aldehydes. Hans Machemer, Burghausen, Germany. Published April 20, 1943.

A.P.C. 337,552. Polymerization of vinyl acetate. Herbert Berg, Burghausen, Oberbayern, Germany. Published April 20, 1943.

A.P.C. 337,561. Processes of producing non-yellowing phenol-formaldehyde condensates. Bernhard Habraschka, Hamburg, Germany. Published April 20, 1943.

A.P.C. 338,350. Production of butadiene. Otto Schmidt, et al., Heidelberg-Ziegelhausen, Germany. Published April 20, 1943.

A.P.C. 338,782. Condensation products of area and amines. Jean Andre P. Kienzle, Norgent Soise, France. Published April 20, 1943.

A.P.C. 340,225. Process for the manufacture of keto-alcohols. Giulio Natta, Milano, Italy. Published April 20, 1943.

A.P.C. 340,228. Process for the manufacture of butadiene from butane of butane containing gases. Giulio Natta, Milano, Italy. Published April 20, 1943.

A.P.C. 341,307. Process for the production of polycondensation products containing nitrogen. Paul Schlack, Berlin-Treptow, Germany. Published April 20, 1943.

A.P.C. 342,190. Process for preparation of sulphonamide derivatives. Zoltan Foldi, et al., Budapest, Hungary. Published April 20, 1943.

A.P.C. 344,782. Process for the manufacture of solutions of cellulose in sulfuric acid. Henrich Fink, et al., Rottwell, Germany. Published April 20, 1943.

A.P.C. 345,235. Process of manufacturing tetrachlorethylene. Hans W. Schmidt, Berlin, Germany. Published April 20, 1943.

A.P.C. 346,154. Method of manufacturing azo compound of cinchona alkaloid. Takeo Takayanagi, Tomokomai-Machi, Yufutsu-Gun, Hokkaido, Japan. Published April 20, 1943.

A.P.C. 346,568. Compounds having vitamin B$_1$ activity. Otto Zima, et al., Darmstadt, Germany. Published April 20, 1943.

A.P.C. 346,569. Process for the manufacture of derivatives of pyridine. Otto Zima, et al., Darmstadt, Germany. Published April 20, 1943.

A.P.C. 348,079½. Process for the preparation of products from lignin by hydrogenation. Karl Freudenberg, et al., Heidelberg, Germany. Published April 20, 1943.

A.P.C. 348,557. Process for the extraction of resin from tomato skins. Giovanni Mauri, Parma, Italy. Published April 20, 1943.

A.P.C. 348,683. Process for the production of synthetic linear condensation polyamides. Paul Schlack, Berlin-Treptow, Germany. Published April 20, 1943.

A.P.C. 348,992. Processes for the manufacture of artificial textile fibres. Antonio Ferretti, Milan, Italy. Published April 20, 1943.

A.P.C. 349,286. Production of hardenable orthocresol aldehyde condensates. Bernhard Habraschka, Hamburg, Germany. Published April 20, 1943.

A.P.C. 351,917. Production of aliphatic dichloro compounds. Hugo Kroeper, Heidelberg, Germany. Published April 20, 1943.

A.P.C. 352,072. Process of producing butadiene. Herbert Guggemos, et al., Munich, Germany. Published April 20, 1943.

A.P.C. 352,114. Process for the manufacture of polymerization products. Curt Schuster, et al., Ludwigshafen - on - the - Rhine, Germany. Published April 20, 1943.

A.P.C. 352,310. Process for improving the properties of rubber latex. Johan Hubert E. Hessels, Klein Soengei-Karang, Galang Sumatra, Netherlands East Indies. Published April 20, 1943.

A.P.C. 352,325 Therapeutically active tetrahydroisoquinoline compounds and processes for their production. Fritz Kulz, Frankfort-on-the-Main, Germany. Published April 20, 1943.

A.P.C. 352,520. Plastifying of synthetic rubber. Erich Gartner, et al., Koln-Mulheim, Germany. Published April 20, 1943.

A.P.C. 352,550. Process for the manufacture of high molecular polyamide compounds. Paul Schlack, Berlin-Treptow, Germany. Published April 20, 1943.

A.P.C. 352,618. Cosmetic for hair and skin. Siegfried Wiechowski, Vienna, Germany. Published April 20, 1943.

A.P.C. 353,384. Preparation of crotonaldehyde. Martin Mueller-Cunradi, et al., Ludwigshafen-on-the-Rhine, Germany. Published April 20, 1943.

A.P.C. 353,982. Process for the polymerization of alkoxy-butadienes. Paul Halbig, et al., Freiburg, Switzerland. Published April 20, 1943.

A.P.C. 354,330. Process for preparing a derivative of hesperidin. Maskai Ohta, Osaka, Japan. Published April 20, 1943.

A.P.C. 355,402. Method for the production of polycondensation products, and the resultant products produced therefrom. Otto Moldenhauer, et al., Hirschberg, Germany. Published April 20, 1943.

A.P.C 355,403. Solutions of polyamides. Kurt Thinius, Eilenburg, Germany. Published April 20, 1943.

A.P.C. 355,454. Process for the manufacture of hydrophilic polymerization products of the superpolyamide type. Max Hagedorn, Dessau, Germany. Published April 20, 1943.

A.P.C. 355,455. Process for the manufacture of hydrophilic polymerization products of the superpolyamide type. Max Hagedorn, Dessau, Germany. Published April 20, 1943.

A.P.C. 355,808. Separation process. Friedrich Asinger, et al., Leuna, Germany. Published April 20, 1943.

A.P.C. 356,856. Conversion products of rubber. August Amann, et al., Wiesbaden, Germany. Published April 20, 1943.

A.P.C. 356,857. Process of purifying conversion products of rubber. August Amann, et al., Wiesbaden, Germany. Published April 20, 1943.

A.P.C. 357,498. Process for the preparation of products from lignin by hydrogenation. Karl Freudenberg, et al., Heidelberg, Germany. Published April 20, 1943.

A.P.C. 357,662. Process for the vulcanisation of rubber, balata, gutta-percha, synthetic rubber and the like, mixtures thereof and latices of these materials. Adriaan J. Wildschut, Delft, Netherlands. Published April 20, 1943.

A.P.C. 358,424. Preparation of aldehydes. Hans-Georg Trieschmann, et al., Ludwigshafen-on-the-Rhine, Germany. Published April 20, 1943.

A.P.C. 358,666. Process for manufacturing after-chlorinated polyvinyl chlorine. Ernst Hanschke, Bitterfeld, Germany. Published April 20, 1943.

A.P.C. 358,695. Nitrogenous condensation products. Paul Schlack, Berlin-Treptow, Germany. Published April 20, 1943.

A.P.C. 359,811. Materials from high molecular polyamides. Paul Schlack, Berlin-Treptow, Germany. Published April 20, 1943.

A.P.C. 359,978. Process for the activation of normally liquid fatty materials containing unsaturated compounds. Hein I. Waterman, et al., Delft, Netherlands. Published April 20, 1943.

A.P.C. 360,386. Process for the preparation of fats and oils which are suitable for injection. Felix Grandel, Emerich/Rhein, Germany. Published April 20, 1943.

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A.P.C. 361,009. Process for producing vinyl chloride. Erich Schaeffer, Burghausen, Germany. Published April 20, 1943.

A.P.C. 361,195. Process of heat-treating polymerization products. Carl Zerbe, Hamburg, Germany. Published April 20, 1943.

A.P.C. 361,581. Corrosion preventing agents. Franz Giloy, Dessau, Germany. Published April 20, 1943.

A.P.C. 361,582. Emulsion polymerization of halogen-2- of butadienes-1.3. Kurt Meisenburg, et al., Leverkusen I. G. Werke, Germany. Published April 20, 1943.

A.P.C. 361,592. Process for producing condensation products. Cristoph Grundmann, Dessau, Germany. Published April 20, 1943.

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A.P.C. 362,684. Preparation of fats and oils adapted for human consumption. Arthur Imhausen, Witten/Ruhr, Germany. Published April 20, 1943.

A.P.C. 363,155. Process for directly obtaining benzene hydrocarbons from coal. Bernard Juettner, Essen (Rhur), Germany. Published April 20, 1943.

A.P.C. 363,569. Method of increasing the viscosity of polymers. Eduard Kaib, Munich, Germany. Published April 20, 1943.

A.P.C. 364,334. Interpolyamides. Emil Hubert, et al., Dessau-Ziebigk, Germany. Published April 20, 1943.

A.P.C. 365,645. Polymeric products and the method for producing the same. Hans Bergk, Krefeld, Germany. Published April 20, 1943.

A.P.C. 365,649. Tanning agents and process of preparing them. Ernst Koch, Frankfurt-am-Main, Germany. Published April 20, 1943.

A.P.C. 366,549. Process for obtaining transparent molded bodies. Gerhard Schorsch, Brussels, Belgium. Published April 20, 1943.

A.P.C. 367,265. Process for the manufacture of artificial resins. Werner Wolff, Ludwigshafen-on-Rhine, Germany. Published April 20, 1943.

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A.P.C. 369,909. Process for manufacturing litmus dyestuff. Haruyo Asahina, Kawaraki-Mura, Japan. Published April 20, 1943.

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A.P.C. 374,298. Method of influencing the polymerization and the properties of the obtained products. Willy O. Herrmann, et al., Deisenhofen, Germany. Published April 20, 1943.

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A.P.C. 404,233. Stable dispersions. Werner Starck, Hofheim (Taunus), Germany. Published April 20, 1943.

A.P.C. 404,237. Dry polymerization products. Werner Starck, et al., Hofheim (Taunus), Germany. Published April 20, 1943.

A.P.C. 404,238. Process for the production of carboxylic acids of the pyridine series. Heinrich Hopff, et al., Ludwifshafen-on-Rhine, Germany Published April 20, 1943.

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A.P.C. 404,519. Process for moth-proofing. Heribert Schussler, Cologne, Germany. Published April 20, 1943.

A.P.C. 404,618. Polymerization products. Ulrich Hoffmann, et al., Marl Kreis, Recklinghausen, Germany. Published April 20, 1943.

A.P.C. 404,666. Process of preparing ketene. Bernhard Popp, et al., Frankfort-am-Main, Germany. Published April 20, 1943.

A.P.C. 405,832. Corrosion preventing products and process of manufacturing the same. Kurt Dziengel, Magdeburg-Buckau, Germany. Published April 20, 1943.

A.P.C. 405,992. Preparation of organic. diisocyanates. Heinrich Rinke, et al., Leverkusen-Schlebusch, Germany. Published April 20, 1943.

A.P.C. 406,557. Method of concentration latex. Godfried J. Van Der Bie, Buitenzorg, Java, Netherland, East Indies. Published April 20, 1943.

A.P.C. 407,230. Manufacture of purified rubber. Godfried J. Van Der Bie, Buitenzorg, Java, Netherlands, East Indies. Published April 20, 1943

A.P.C. 407,672. Process for the production of chloro-2-butadine, 1.3 (chloropren). Stanislav Landa, Zlin, Bohemia and Moravia. Published April 20, 1943.

A.P.C. 412,892. Method of producing mixtures of polystyrene with natural or synthetic rubber. Hans Muller, et al., Berlin-Wilmersdorf, Germany. Published April 20, 1943.

A.P.C. 414,926. Synthesis of multi-link hydrocarbons from hydrogen and carbon monoxide. Walter Feisst, et al., Oberhausen-Holten, Germany. Published April 20, 1943.

A.P.C. 414,927. Solid addition compounds. Johann Rosicky, Moderschan near Prag Bohemia and Moravia. Published April 20, 1943.

A.P.C. 414,982. Producing sulfurous organic compounds. Bruno Bottcher, Kronach, Bavaria, Germany. Published April 20, 1943.

A.P.C. 415,424. Production of addition products from dienes and compounds having an unsaturated carbon linkage activated by substituents. Heinrich Hopff, et al., Ludwigshafen-on-Rhine, Germany. Published April 20, 1943.

A.P.C. 415,519½. Derivatives of 1-oxy-phenyl-3-aminobutane and processes for their production. Fritz Kulz, Frankfurt-am-Main, Germany. Published April 20, 1943.

A.P.C. 416,912. Clorination of hydrocarbons Kurt Rath, et al., Berlin-Charlottenburg, Germany. Published April 20, 1943.

A.P.C. 417,808. Interpolymerization products. Werner Starck, et al., Hofheim, Germany. Published April 20, 1943.

A.P.C. 419,570. Cyanine dyestuffs. Oskar Riester, Dessau, Germany. Published April 20, 1943.

A.P.C. 419,811. Method for preparation of oxyphenyl-amino-propane and its derivatives. Fritz Kulz, Frankfurt-am-Main Germany. Published April 20, 1943.

A.P.C. 427,064. Quaternary ammonium compounds and methods of producing same. Winfrid Hentrich, et al., Dusseldorf-Reisholz, Germany. Published April 20, 1943.

A.P.C. 428,996. Process for the production of adipic acid. Wilhelm N. Mathes, et al., Ludwigshafen-on-Rhine, Germany. Published April 20, 1943.

A.P.C. 429,652. Porous polyvinyl chloride compositions. Herbert Berg, et al., Burghausen, Germany. Published April 20, 1943.

A.P.C. 431,264. Production of nitrogenous heterocyclic compounds. Karl Kumetat, et al., Wolfen (Kreis Bitterfeld), Germany. Published April 20, 1943.

A.P.C. 432,484. Varnish with a base of formophenolic resin rendered supple and method for obtaining the same. Louis R. J. Klentz, Paris, France. Published April 20, 1943.

A.P.C. 437,596. Processes for the amelioration of rubber. Jean N. L. Le Bras, et al., Paris, France. Published April 20, 1943.

A.P.C. 437,597. Processes for the amelioration of rubber. Patrice H. M. Compagnon, et al., Paris, France. Published April 20, 1943.

A.P.C. 440,980. Tertiary amines of the acetylene series and a process of producing same. Walter Reppe, et al., Ludwigshafen-on-Rhine, Germany. Published April 20, 1943.

A.P.C. 440,984. Condensation product and method of preparing same. Mathias Pier, et al., Heidelberg, Germany. Published April 20, 1943.

CLASSIFICATION OF PATENTS

ISSUED APRIL 20, 1943

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

1— 11: 2,317,298
2,317,308
32: 2,316,911
49: 2,316,988
2— 48: 2,317,176
50: 2,316,893
97: 2,316,983
98: 2,316,802
313: 2,316,958
9— 9: 2,317,285
10— 24: 2,317,320
30: 2,317,247
86: 2,317,094
130: 2,317,099
12— 37: 2,317,151
51: 2,316,884
146: 2,316,863
2,317,220
13— 23: 2,317,252
15— 28: 2,317,314
49: 2,316,805
135: 2,317,002
184: 2,317,111
193: 2,316,870
244: 2,316,878
16— 121: 2,316,918
146: 2,317,105
18— 8: 2,317,152
12: 2,317,331
47: 2,316,752
54: 2,317,131
55.1: 2,317,008
2,317,103
59: 2,317,110
20— 4: 2,316,980
42: 2,317,312
56.5: 2,316,993
95: 2,317,125
22— 65: 2,316,827
23— 202: 2,316,840
2,316,841
24— 200: 2,316,846
205: 2,316,787
258: 2,317,128
29— 64: 2,317,264
86.3: 2,316,830
165: 2,317,262
30— 43: 2,317,177
171: 2,317,041
335: 2,316,985
33— 3: 2,317,321
18: 2,317,052
23: 2,316,951
46: 2,317,059
84: 2,316,850
126.5: 2,316,955
132: 2,317,141
143: 2,316,975
147: 2,316,864
148: 2,316,914
178: 2,316,877
212: 2,316,777
222: 2,316,873
34— 95: 2,317,144
104: 2,316,900
172: 2,317,003
35— 16: 2,317,124
22: 2,317,107
26: 2,317,043
31: 2,317,206
40: 2,316,786
53: 2,317,336
55: 2,317,337
36— 7.5: 2,317,020
37— 124: 2,317,280
38— 77: 2,316,907
2,317,261
40— 10: 2,317,123
16: 2,317,192

40— 124: 2,316,797
43— 24: 2,317,129
32: 2,316,833
66: 2,316,888
90: 2,316,970
45— 82: 2,317,001
137: 2,317,077
2,317,080
46— 179: 2,317,255
47— 62: Pl.Pt.576
49— 9: 2,316,969
51— 95: 2,316,816
2,317,226
177: 2,316,886
184.3: 2,316,879
2,317,079
234: 2,316,904
53— 3: 2,317,214
4: 2,316,989
10: 2,317,225
56— 219: 2,317,127
57— 58: 2,317,113
58— 54: 2,317,322
60— 41: 2,316,813
97: 2,316,926
61— 52: 2,317,016
2,317,017
62— 5: 2,316,791
17: 2,316,755
91.5: 2,317,005
93: 2,316,792
116: 2,317,081
2,317,082
119: 2,316,821
2,317,234
125: 2,317,283
140: Re.22,303
2,317,104
64— 27: 2,316,820
66— 14: 2,316,822
2,316,823
126: 2,317,318
135: 2,317,268
67— 27: 2,316,812
2,316,837
70— 180: 2,316,956
250: 2,316,936
72— 30: 2,316,819
73— 51: 2,316,842
2,317,097
52: 2,317,202
110: 2,317,109
244: 2,317,325
362: 2,316,942
74— 7: 2,317,3 7
51: 2,317,154
124: 2,316,793
169: 2,317,299
194: 2,316,857
2,316,858
230.17: 2,317,339
242.14: 2,317,235
434: 2,317,275
557: 2,317,307
574: 2,317,090
606: 2,317,117
75— 58: 2,316,948
77— 7: 2,317,106
28: 2,317,060
58: 2,317,230
78— 19: 2,317,224
48: 2,316,946
80— 8: 2,317,244
81— 3.43: 2,317,037
9.5: 2,316,809
83— 9: 2,316,875
10: 2,316,982
84— 315: 2,316,799
2,316,800

84— 403: 2,317,164
2,317,165
85— 5: 2,317,201
2,317,315
28: 2,317,231
88— 1: 2,316,751
16.2: 2,316,780
2,317,310
17: 2,317,282
18.4: 2,317,096
41: 2,316,817
80: 2,317,227
82: 2,317,162
90— 1.6: 2,317,161
38: 2,316,871
91— 12: 2,317,288
12.2: 2,316,959
2,317,173
47: 2,317,330
55: 2,316,984
93— 36.3: 2,316,867
95— 2: 2,316,782
2,316,803
6: 2,317,184
7: 2,316,845
2,317,257
97— 40: 2,317,188
118: Re.22,304
99— 264: 2,317,045
100— 47: 2,316,843
101—128.4: 2,316,768
152: 2,317,095
415.1: 2,316,935
102— 4: 2,317,256
103— 1: 2,317,166
97: 2,317,091
115: 2,317,217
203: 2,317,219
231: 2,317,121
105— 186: 2,317,169
106— 38: 2,317,326
122: 2,316,998
107— 15: 2,317,316
108— 30: 2,317,272
110— 52: 2,317,229
112— 2: 2,316,922
47: 2,316,761
256: 2,317,240
261: 2,317,185
113— 33: 2,317,198
114— 169: 2,317,196
115— 12: 2,317,251
117— 4: 2,316,792
100: 2,317,149
123: 2,317,301
148: 2,317,328
158: 2,317,209
119— 159: 2,316,932
121— 93: 2,316,788
122: 2,317,317
122— 225: 2,316,945
406: 2,316,762
2,316,763
2,316,764
2,316,765
123— 32: 2,316,794
2,316,887
48: 2,316,790
63: 2,317,167
169: 2,317,305
124— 23: 2,316,880
125— 7: 2,317,148
33: 2,317,158
126— 214: 2,316,992
127— 68: 2,316,807
128— 76.5: 2,317,197
142: 2,317,237
145: 2,317,236
131— 21: 2,316,828

131— 24: 2,316,785
34: 2,316,784
105: 2,316,838
225: 2,317,180
235: 2,316,831
132— 36: 2,316,894
65: 2,317,207
135— 34: 2,317,160
136— 4: 2,317,168
137— 21: 2,317,063
53: 2,317,332
68: 2,316,848
144: 2,316,944
153: 2,317,271
156: 2,317,073
139— 147: 2,317,186
425: 2,316,818
141— 1: 2,317,038
143— 32: 2,316,996
2,316,997
168: 2,316,971
144— 303: 2,317,195
309: 2,317,281
145— 50: 2,317,319
52: 2,317,085
146— 106: 2,316,953
148— 2: 2,317,294
6: 2,316,810
2,317,205
6.5: 2,316,811
7: 2,317,114
11.5: 2,317,179
21: 2,317,233
21.5: 2,317,211
2,317,295
152— 35: 2,317,323
261: 2,317,136
270: 2,317,218
153— 48: 2,316,839
154— 2.70: 2,317,276
41: 2,316,767
42: 2,316,891
43: 2,317,047
155— 17: 2,317,243
157— 6: 2,317,072
158— 76: 2,316,881
160— 124: 2,317,074
161— 1: 2,317,120
164— 0.5: 2,317,238
61: 2,316,801
113: 2,316,795
166— 1: 2,317,021
167— 14: 2,316,963
30: 2,316,962
65: 2,317,011
93: 2,317,297
169— 2: 2,316,789
171— 95: 2,316,987
209: 2,317,187
223: 2,316,779
242: 2,316,928
172— 36: 2,317,098
179: 2,317,254
2,317,266
239: 2,317,135
2,317,253
2,317,258
278: 2,316,960
173— 328: 2,317,163
363: 2,317,023
174— 5: 2,317,088
13: 2,316,808
52: 2,316,835
175— 115: 2,316,910
182: 2,317,039
2,317,259
2,317,304
183: 2,317,263
— 264: 2,316,824

175— 366: 2,316,905
176— 2: 2,317,031
26: 2,317,027
32: 2,317,032
34: 2,317,035
122: 2,317,265
124: 2,317,061
177— 7: 2,317,058
311: 2,317,024
2,317,029
2,317,030
333: 2,316,856
352: 2,317,334
382: 2,317,084
178— 44: 2,316,883
179— 18: 2,317,191
100.2: 2,317,199
171: 2,317,025
171.5: 2,316,927
180— 54: 2,317,324
181— 31: 2,317,069
66: 2,317,246
182— 14: 2,317,278
183— 80: 2,316,836
187— 76: 2,316,976
188— 56: 2,317,156
88: 2,316,924
189— 36: 2,316,820
82: 2,317,174
88: 2,317,015
190— 41: 2,317,083
192— .01: 2,317,216
66: 2,316,874
85: 2,317,171
129: 2,316,876
139: 2,317,147
142: 2,316,776
193— 2: 2,316,814
196— 10: 2,315,775
2,317,142
28: 2,316,954
30: 2,316,753
3,316,759
2,316,965
2,316,966
2,317,054
2,317,055
2,317,056
32: 2,317,053
58: 2,316,931
74: 2,317,150
197— 36: 2,317,170
63: 2,316,865
70: 2,317,183
198— 65: 2,317,313
220: 2,316,973
2,317,089
2,317,172
200— 5: 2,316,834
48: 2,316,844
52: 2,317,146
62: 2,317,118
97: 2,317,078
138: 2,317,033
169: 2,316,977
201— 63: 2,317,100
2,317,157
76: 2,316,872
202— 42: 2,316,860
204— 6: 2,316,917
105: 1,316,750
2,316,937
2,317,153
206: 2,317,242
206— 1.5: 2,316,979
2: 2,317,076
5: 2,317,302
44: 2,317,203
46: Re.22,305

206— 56: 2,317,087
57: 2,316,796
63.5: 2,317,102
209— 44: 2,316,943
86: 2,316,986
127: 2,317,210
169: 2,316,770
210— 52: 2,316,783
202: 2,317,108
211— 60: 2,316,771
119.15: 2,316,950
128: 2,316,892
132: 2,317,036
214— S.5: 2,317,000
41: 2,317,175
52: 2,317,333
65: 2,316,938
67: 2,316,826
131: 2,316,760
139: 2,317,075
215— 44: 2,317,287
100: 2,317,046
217— 13: 2,316,854
16: 2,316,853
70: 2,316,978
219— 6: 2,317,221
8: 2,316,859
19: 2,317,228
46: 2,317,189
220— 19: 2,317,044
30: 2,317,213
35: 2,317,212
40: 2,316,923
62: 2,317,296
64: 2,316,804
221— 47.4: 2,317,270
98: 2,317,068
106: 2,317,274
144: 2,317,007
223— 107: 2,317,200
224— 1: 2,316,995
2: 2,316,766
225— 21: 2,317,006
226— 18: 2,317,292
127: 2,316,934
228— 29: 2,316,939
40: 2,317,193
229— 9: 2,317,040
14: 2,316,919
37: 2,317,223
44: 2,317,269
52: 2,317,067
73: 2,317,335
92.7: 2,316,757
230— 4: 2,317,119
69: 2,316,901
116: 2,317,279
234— 70: 2,316,906
235— 60: 2,317,086
2,317,284
61: 2,317,293
238— 254: 2,316,849
240— 2.1: 2,317,182
242— 45: 2,317,250
2,317,290
54: 2,316,798
130: 2,317,208
244— 12: 2,316,885
43: 2,317,267
134: 2,317,019
145: 2,317,115
148: 2,316,895
2,316,896
246— 3: 2,316,961
41: 2,316,929
291: 2,316,930
248— 5: 2,317,190
29: 2,317,204
44: 2,317,049

248—	66: 2,317,249	252—	S. 5: 2,316,968	260—	23: 2,317,137	261—	26: 2,316,940	277—	18: 2,317,051	301—	9: 2,317,311
250—	17: 2,317,071		26: 2,316,778		2,317,138		72: 2,316,882		20: 2,317,065	303—	3: 2,317,132
	20: Re.22,302		32: 2,316,903		36: 2,316,949		76: 2,316,832	280—	1: 2,317,064		21: 2,317,133
	2,316,851		48: 2,316,925		46: 2,317,116		79: 2,317,101		21: 2,317,048		24: 2,317,134
	2,316,902		51: 2,316,852		70: 2,317,181	263—	7: 2,317,009	285—	71: 2,316,855		84: 2,317,194
	2,316,909		57: 2,316,754		73: 2,316,921	264—	1: 2,317,028		77: 2,316,898	304—	3: 2,316,952
	27: 2,316,868		2,316,889		83: 2,317,130		15: 2,317,022		108: 2,316,974	306—	19: 2,317,260
	2,317,140		153: 2,317,112		193: 2,316,738	265—	1.4: 2,316,915		167: 2,316,806	308—	159: 2,316,920
	2,317,178		268: 2,317,026		229: 2,316,866		12: 2,317,093	287—	53: 2,317,070	309—	4: 2,317,122
	27.5: 2,316,773		321: 2,317,139		270: 2,317,309		54: 2,316,947		2,317,245		6: 2,317,004
	2,316,999		333: 2,317,050		293: 2,317,303	266—	23: 2,317,239		126: 2,316,890		23: 2,317,034
	2,317,143	253—	39: 2,317,062		345: 2,317,286	267—	50: 2,317,291	288—	3: 2,316,941	311—	33: 2,317,042
	2,317,222		77: 2,317,338		397.7: 2,316,825		65: 2,317,057	290—	41: 2,317,062	312—	30: 2,316,756
	40: 2,316,899	254—	193: 2,317,215		2,316,908	273—	50: 2,316,990	292—	15: 2,317,277		36: 2,317,145
	2,316,916	255—	1.6: 2,317,010		412.5: 2,316,774		2,316,991		126: 2,317,300		48: 2,316,897
	41.5: 2,316,772		22: 2,317,306		488: 2,316,912		55: 2,316,994	294—	64: 2,316,981		188: 2,317,232
	53: 2,317,329	256—	13.1: 2,317,248		507: 2,316,809		85: 2,317,126	297—	15: 2,217,018		
	81: 2,317,159	259—	9: 2,316,769		513: 2,316,847		129: 2,317,289	299—	62: 2,317,014		
251—	50: 2,316,937		137: 2,316,861		570.9: 2,317,012		131: 2,316,862		83: 2,316,781		
	167: 2,316,933	260—	2: 2,317,155		2,317,013		157: 2,317,273		86: 2,317,066		
252—	S. 5: 2,316,967		18: 2,316,964		683.5: 2,317,241	274—	42: 2,316,815		120: 2,316,913		

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

Re. 22,303: 62— 140	2,316,861: 259— 137	2,316,938: 214— 65	2,317,016: 61— 52	2,317,114: 148— 7	2,317,258: 172— 239
2,316,754: 252— 57	2,316,868: 250— 27	2,316,939: 228— 29	2,317,047: 154— 43	2,317,205: 148— 6	2,317,323: 152— 35
2,316,768: 101—128.4	2,316,888: 43— 66	2,316,952: 304— 3	2,317,061: 176— 124	2,317,213: 220— 30	2,317,303: 260— 293
2,316,771: 211— 60	2,316,892: 211— 128	2,316,969: 49— 9	2,317,063: 137— 21	2,317,232: 312— 188	
2,316,778: 252— 26	2,316,898: 285— 77	2,316,970: 43— 90	2,317,067: 229— 52	2,317,236: 128— 145	
2,316,783: 210— 52	2,316,903: 252— 32	2,316,978: 217— 70	2,317,104: 62— 140	2,317,237: 128— 142	
2,316,785: 131— 24	2,316,917: 204— 6	2,316,987: 171— 95	2,317,110: 18— 59	2,317,253: 172— 239	
2,316,835: 174— 52	2,316,925: 252— 48	2,316,998: 106— 122	2,317,111: 15— 184	2,317,256: 102— 4	

U. S. GOVERNMENT PRINTING OFFICE: 1943

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE KORF ET AL.

No. 4,643. Decided December 1, 1942. Petition for rehearing denied January 29, 1943

[— F.(2d) —]

1. WORDS AND PHRASES—"TRAY."
   In regard to the term "tray" *Held* that "we find no definition of the term which would include an article not having an upstanding edge, or upstanding edges, completely surrounding its bottom or 'floor.'"
2. APPLICATION—DISCLOSURE—RIGHT OF APPLICANT TO MAKE CLAIM COPIED FROM PATENT.
   Certain claims to a hair waving pad copied by appellants from a patent granted to another *Held* not supported by appellants' application.

APPEAL from the Patent Office. Affirmed.

Mr. Richard E. Marine for Korf et al.

Mr. W. W. Cochran (*Mr. Howard S. Miller* of counsel) for the Commissioner of Patents.

GARRETT, *P. J.:*

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming that of the Examiner rejecting five claims numbered 43 to 47, inclusive, of an application for patent. The claims on appeal are limited to structure, each being introduced by the phrase "A hair waving pad of the character described."

The application was filed June 23, 1932, and recites in the title that it is for "Method of Permanent Waving, Permanent Waving Heater, and Method of Making the Same." The record does not disclose any allowed claims. Those involved in the appeal were rejected on the ground that they are not readable upon the application disclosure.

The background of the case is, in part, as follows:

On March 14, 1939, a patent, No. 2,150,598, for a permanent waving pad and method of making same. was issued to one Harry Bonat upon an application, Serial No. 221,687, filed July 28, 1938. It embraced fourteen claims, five of which (Nos. 1, 2, 4, 5, and 6) were copied by appellants into their pending application of June 23, 1932, and declaration of an interference was requested. The Examiner, considering the claims ex parte, denied them to appellants for the reason stated, and the Board having affirmed his decision the instant appeal to this court followed.

The subject matter of the appealed claims seems to be fully expressed in claims 43 and 45, which read:

> 43. A hair waving pad of the character described, comprising a metallic tray, chemical means disposed within said tray, a porous absorbent sheet disposed in said tray and covering said chemical means, and means formed integral with said tray adapted for securing said sheet and chemical means within the tray.
>
> 45. A hair waving pad of the character described, comprising a tray of impervious non-soluble material, a sheet of porous absorbent material and chemical means disposed between said sheet and said tray, said tray being provided with means formed integral therewith for securing said sheet thereto and for confining the chemical means between said sheet and said tray.

In the Examiner's statement following the appeal to the Board it is said (numerals being omitted), the italics being ours:

> The invention relates to an exothermic pad for hair waving, involving, in the *application*, a sheet • • • of foil, one half of which is provided with perforations • • •, over which perforated portion is adapted to be placed an absorbent sheet • • • on which is deposited an exothermic composition • • •. After the [absorbent] sheet • • • is placed over that half of the [foil] sheet • • • containing the perforations, the other half • • • of the [foil] sheet • • • is folded over the exothermic chemical • • • and the edges of the [foil] sheet • • • on the three sides other than the folded side are crimped together • • • to retain the absorbent and chemical within the sheet. The envelope thus formed is rolled into a tube • • •, the perforated half of the [foil] sheet • • •, lying in the interior of the tube. The • • • so formed is then placed on a rectangular sheet • • • of foil whose edges are provided with adhesive, which sheet • • • is wrapped about the first formed tube affording an extension • • • at one end of the tube. Thereafter, a layer of cellophane • • • is wrapped about the tube assembly previously formed, affording extensions, • • • beyond the tube, at each end. The device so formed is now in the state in which it will be used in a permanent hair waving operation, being simply dipped into a moistening fluid and passed over hair wound helically on a mandrel.
>
> The device of the *patent* shows a tray • • • of metal, usually aluminum, rectangular in form provided about its periphery with upstanding bendable walls • • •. A deposit of exothermic material is placed on the tray, after which a sheet of porous absorbent material • • • such as flannel, gauze or paper is placed in the tray over the deposit of chemical, and the upstanding bendable walls • • • of the tray are then bent or folded over the edges of the sheet • • • to securely hold the parts together. In a modified form of the invention • • •, a perforated sheet of aluminum • • • may be placed over the sheet • • • to protect it and the walls • • • are then bent down over the edges of the sheet • • •. In use moisture is applied to the absorbent sheet to generate the exothermic reaction.

The above was followed by the statement:

> The claims were rejected to applicant on the ground that he shows neither a tray nor "an absorbent sheet disposed in said tray covering said chemical means", or as expressed in claim 45 "a sheet of porous absorbent material and chemical means disposed between said sheet and said tray."

The Board made no specific reference to the feature of absorbent material disposed in a tray, but said:

> The outstanding question involved in this appeal is whether this application discloses a tray, as is called for in the claims.
>
> In the Bonat patent, from which the claims were copied, the upstanding edges of the tray prevents the running of the chemical material when it is placed in the tray. In appellants' construction no means is present to prevent the running at that time.
>
> We are of the view that one would not naturally employ the term "tray" to define appellants' construction and we think that it is misdescriptive if applied to it.

It will be observed that both the Examiner and the Board compared the structure as described in appellants' application with the structure as described in the Bonat patent, and the greater portion of the brief on behalf of appellants before us is devoted to such a comparison. The brief filed by the Solicitor for the Patent Office also makes some comparisons.

As we view this case, which is a proceeding ex parte, it is not necessary to a decision that we compare the structure of the application with the structure of the patent. The ultimate question must be determined upon the basis of the disclosure, or lack of disclosure, in appellants' applica-

tion as related to the claims involved in the appeal.

[1] It is perfectly clear to us that the application does not disclose, either in the specification or in the drawings, any structure which may be regarded as a tray within the meaning of the term "tray," the general definition of which, as given in Webster's New International Dictionary, is, "any shallow receptacle for holding or carrying articles; as, a peddler's *tray*; a *tray* of diamonds; a trunk *tray*." We find no definition of the term which would include an article not having an upstanding edge, or upstanding edges, completely surrounding its bottom or "floor."

As will be seen from the Examiner's description of the device of the application above quoted, in the process of producing the finished pad, the material which enters into it passes through different stages as a result of manipulation and, first and last, appears in different forms as shown in the drawings of the application. One of those drawings, Fig. 2, discloses a form which possibly (although this is doubtful), from its appearance, might be regarded as having upstanding edges on its ends and on one side, but the other side edge is shown as perfectly straight, the foil sheet being folded over the chemical material. The pad in its finished form, ready for use, has no tray feature so far as we can determine from an inspection of the drawing, although counsel for appellants argue that it does. We find nothing in the specification of the application which indicates that appellants had in mind the forming of a tray for use in the product at any stage of the manufacturing process. We are not here interested in the method of manufacture, of course, since all the claims at issue are for structure.

[2] We agree with the statement of the Board to the effect that it would be misdescriptive to use the term "tray" to define any structure disclosed in appellants' application.

The decision of the Board is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

BENNER ET AL. *v.* OGLESBY

No. 4,673. Decided December 26, 1942

[——F.(2d)——]

INTERFERENCE—PRIORITY.

Record reviewed and *Held* that the single count in issue is readable upon the disclosure of the application of O, the junior party; that O reduced to practice the invention expressed in said count prior to any date alleged by B et al., the senior party; and that priority properly was awarded to O.

APPEAL from the Patent Office. Affirmed.

Mr. George E. Stebbins and *Mr. Albert Grobstein* for Benner et al.

Messrs. Cushman, Darby & Cushman (*Mr. John J. Darby* of counsel) for Oglesby.

JACKSON, *J.*:

This is an interference proceeding in which there has been brought before us for review a decision of the Board of Appeals of the United States Patent Office affirming a decision of the Examiner of Interferences awarding priority of invention to appellee upon the single count in issue.

The interference involves an application of appellee, Serial No. 659,565, filed March 3, 1933, and a patent of appellants, No. 2,049,535, issued August 4, 1936, upon an application filed December 1, 1932. Appellee being the junior party has the burden of establishing priority of invention by a preponderance of the evidence.

The count reads as follows:

Apparatus for the manufacture of granular coated webs comprising means for applying liquid adhesive to a web, means whereby the partial pressure of a solvent in the atmosphere in a chamber may be controlled to prevent drying, grain applying means for applying granular particles to said adhesive coated web, and means for passing said adhesive coated web through said chamber and past said grain applying means whereby the granular material is applied to the web while the adhesive is in condition for receiving said granular material.

The involved invention relates to apparatus for coating webs with adhesive and granular material in the manufacture of sandpaper. Prior to the present invention conventional apparatus was used in the art which included means for applying liquid glue adhesive to the web and means for placing or distributing on the adhesive-coated surface granular material and means for passing the web in a continuous strip through the adhesive-applying means and then through the granule-applying means. If the distance between the adhesive-applying means and the granule-applying means was more than a very few feet the adhesive had a tendency to set, due to evaporation of the solvent from the adhesive. The granular material was prevented from being properly embedded in the adhesive if the set was too great. The invention here has for its purpose the reduction or elimination of the setting of the adhesive prior to the distribution of the granules thereon and this result is obtained by maintaining the adhesive-coated web in an atmosphere charged with a vapor of the same solvent which carries the adhesive. The adhesive-coated web as it travels to the granule-applying means is caused to pass through a chamber in which the desired atmospheric conditions are maintained. The adhesive commonly used in making sandpaper is hide glue in water as a solvent. To keep such adhesive coat in a fluid or tacky condition the atmosphere of the chamber through which the web passes is to be charged with the same solvent which carries the glue, which solvent would be steam or other vaporous form of water.

The interference was originally declared October 18, 1938, the count being method claim 5 of appellants' patent, copied by appellee for purposes of interference. During the motion period appellants moved to dissolve the interference on the ground that the claim was not readable upon the disclosure of appellee's application. Appellee filed a motion under Patent Office Rule 109 seeking to add claims 1 and 3 of appellants' patent as additional counts in the interference. Appellee's motion was opposed by appellants in their brief on the motion to dissolve.

The Primary Examiner in his descision granted appellants' motion to dissolve and denied appellee's motion to add claim 3 but granted the motion to add claim 1 to the interference. Appellee appealed from that portion of the decision of the Primary Examiner dissolving the interference and refusing to add claim 3. The Board of Appeals affirmed the decision of the Primary Examiner in all respects. The interference was then redeclared with the present count.

Appellants in their preliminary statement alleged conception of the invention and disclosure of it to others in February 1932 and reduction to practice on June 20 of that year.

Appellee in his preliminary statement alleged that he was unable to set out any act concerning conception of the invention earlier than November 1929, at which time the first written description of the invention was made and disclosed to others. Appellee alleged that he reduced the invention to practice in or about March 1931.

Both parties took testimony.

It appears that appellee from about June 1929 was the Technical Director of the Behr-Manning Corporation, of Troy, New York, his assignee. Certain memoranda which are exhibits in this case were prepared by him November 6, 1929 and January 16, 1930, from an examination of which and appellee's testimony it is apparent that he was considering the problem of controlling the fluidity of glue in the making coat of sandpaper and that a solution of this problem was important to the production of an improved sandpaper. The improvement sought was the making of sandpaper by eliminating the conventional step of rolling the granules into the making coat, which step tended to lessen the efficiency of the abrasive surface for the reason that the granules were forced very deeply into the making coat by the rollers. The making coat in the sandpaper art is the coat of adhesive which is placed first on the web in which the abrasive granules are spread. The said memoranda suggest the use of steam in maintaining the making coat at the desired fluidity for holding the granules but do not suggest any apparatus for carrying out such step.

Appellee explained to several of his associates his idea of the kind of device which would function in the step of maintaining the making coat at proper fluidity and thus avoid the necessity of rolling the granules into the making coat. He directed them to build a chamber for experimental purposes which would enclose a substantial portion of the adhesive-coated web in its passage from the application of the adhesive to the granule applicator and so constructed that controlled amounts of steam could be injected into the chamber. The chamber also was to be equipped with heaters to control the temperature independently.

One of the witnesses for appellee testified that he received those directions and that he issued the work order for building the chamber pursuant thereto. The chamber was built accordingly. There is no contention that the chamber of appellee was not built as heretofore set out.

It appears that the Behr-Manning Corporation had in its plant several machines regularly used in making sandpaper with hide glue adhesive for the making coat, but that these machines were not suitable for use in the proposed experiment for the reason that they were closely coupled. They were so constructed that the passage between the glue-coating mechanism and the sand distributing means was very short and therefore the adhesive would remain sufficiently fluid during such short travel as to require little or no retarding of the set of the making coat. The corporation had another abrasive machine designed for and used in making waterproof sandpaper. Varnish instead of glue was the adhesive used therein. In that machine there was a greater distance for the web to travel between the adhesive coating means and the sand-applying means. If a glue adhesive were used on this apparatus by reason of the distance between the coating means and the sand-applying means the adhesive would have a tendency to jell or set. That machine, with glue as the adhesive, was used in appellee's experiment and was supplied with the steam chamber above referred to, placed between the coating means and the abrasive-applying means.

The machine used in appellee's experiment was not produced, but the structural details of the said steam chamber are shown in an exhibit which is a sketch prepared just prior to the taking of testimony by the witness Nelson who constructed the chamber.

The record shows that the waterproof sandpaper making machine with the chamber applied as aforesaid was used in making sandpaper in accordance with appellee's plan between March 11 and March 20, 1931. Between those dates 7,466 yards of sandpaper were made, of which 1,900 yards were rejected as being of inferior quality and 5,565 yards were passed as being satisfactory into reamage (the number of reams contained in a package of paper) and put into stock, a small portion of which was actually sold.

The record shows that in operating the said machine the glue adhesive passing through the chamber was maintained at the desired degree of fluidity by reason of the steam charged atmosphere therein, and that the abrasive was successfully anchored upon the adhesive. There was no necessity for using the rolling step. The testimony and record of the experiment proved that without the use of steam in the chamber a satisfactory coating of abrasive could not be produced without the rolling step.

The product of the experiment was subjected to use tests concerning which there is a written report, an exhibit in the case, prepared by a witness who made the tests. According to the report the sandpaper products of the tests were compared with a third type of paper which was designated "OW1-7". As a conclusion, after setting out the results of the tests in detail it was stated in the

report that the product tested was "much poorer than the standard, OW1–7." The record shows, however, that the OW1–7 paper was an electrostatically coated paper, which is a sandpaper upon which the abrasive has been spread in an electric field, by means of which process the sandpaper is more than ordinarily uniform in quality. Because of that uniformity it was considered to be useful as a control standard. A superior sandpaper as the result of the experiment would not be required to show successful reduction of the device to practice.

The apparatus claimed is illustrated by Figure 4 of appellee's application and may be described as follows:

A chamber generally of diamond shape, the top angle portion of which is more acute than the bottom angle portion. The chamber has a sand box at its apex which extends into the chamber. At the bottom of the said box a wheel and a gate is shown through which the sand descends, striking a baffle from which it is precipitated onto the moving adhesive-coated web as it passes longitudinally through the chamber from the glue-applying means. Midway on the upper walls of the structure are pipes through which steam passes into the chamber. On the side angles of the chamber are gutters to catch any condensation which may gather on the top side walls, and in the bottom of the device is another means for carrying off precipitation. Means for applying adhesive to the web is not shown in Figure 4; neither is there shown in that figure any means by which the steam is controlled.

The steam chamber portion of the device used in the experiment, as illustrated by the Nelson sketch heretofore mentioned, shows structure as follows: a chamber through which passes the adhesively coated web; glue-applying rolls; the passing of the web through the chamber into a sand box containing the sand hopper, which is situated close to the exit end of the chamber; the dropping of sand from the sand hopper onto the moving web, and the continuing of the web to the drying rack. The sketch also shows a perforated steam pipe running through the chamber, at one end of which there is a control valve and the other a petcock. The top of the chamber shown in the sketch is substantially similar to the top of the chamber in Figure 4 and has attached to the outside thereof electric strip heaters. Under the perforated steam pipe runs a gutter to prevent condensed steam from dropping onto the adhesively coated web. It is said that the temperature and humidity of the chamber are variably governed by means of the control valve. The only differences we are able to perceive between the structure of Figure 4 and the structure shown on the sketch of the chamber used in the experiment are that the sketch shows the application of the adhesive and the valves heretofore mentioned and the electric heating strips. With respect to the heating strips the testimony is that they were used as an alternative or supplemental means for controlling the temperature and humidity in the chamber.

Romie L. Melton, one of the appellants here, testified that, with reference to Figure 4 and the portion of the specification referring thereto in the application of appellee, he found no disclosure of a means whereby partial pressure of the water vapor in the atmosphere in the chamber of Figure 4 could be controlled to prevent drying out of the glue on the web. As interpreted by that witness, the application of appellee described the introduction of steam in such quantities into the chamber of Figure 4 as to exclude all the air from the chamber. This, the witness testified, was purposely done in order to prevent the inclusion of air pockets in the adhesive film on the web. According to that witness this is not conditioning air in such quantities by means of water vapor as to bring the air slightly below the saturation point at the desired temperature. The witness further testified that, according to the application of appellee, by reason of the introduction of the steam into the chamber the atmosphere therein would become supersaturated and that under such circumstances an excess of water vapor would be deposited on the adhesive-coated web and also on the walls of the steam chest. The witness concluded that the apparatus shown in said Figure 4, if operated as described in appellee's application, could not be used to maintain the making coat of glue in proper condition. In this connection he said:

> A. There would be rewetting of the glue, even glue that had not been previously dried, and the viscosity of the glue would be decreased because of dilution due to the condensation of the water vapor from the steam onto the surface of the adhesive film.

Appellee challenged the theoretical testimony of the witness Melton by a witness named Waterfield who testified that subsequent to Melton's testimony he had built an apparatus in accordance with said Figure 4 and that he had installed it upon the experimental machine. He produced an enlarged drawing illustrating the application of the structure of Figure 4 to the machine, and testified that the permanent or old parts of that machine consisted of the glue pot or glue box, the series of conveying rollers over which the paper was carried, and the calender rollers by means of which the glue was applied as a making coat to the sheet. There was also, as part of the standard experimental machine, a sand feeding hopper. The witness explained his drawing as showing the adaptation of what he stated to be an embodiment of the structure of said Figure 4 to the standard machine used in the experiment.

The essential parts of Figure 4 as applied to that machine the witness stated to be as follows:

> * * * The chamber wall of sheet metal was designed to fit against the sand hopper and also up against —up as close as possible to the sand feed roll to provide the sides of the chambers, which are numbered "44" on Dr. Oglesby's drawing. A steam inlet, No. 50, was also hooked in position somewhat similar to that shown on drawing of Figure 4; drip gutters were installed, No. 51; also, a drip pan to catch any condensation, and an outlet under the chamber proper. * * *

The witness testified that he operated the chamber by supplying dry steam through suitable control valves, the dry steam being obtained by feeding low pressure steam into a gas-fired superheater coil. The witness stated this means for producing dry steam to be a standard satisfactory method. As to the action of the steam, the witness stated as follows:

> A. The dry steam was passed through the pipes into the control chamber, and by controlling the amount of flow into that chamber we were able to maintain various partial pressures above the surface of the coated material. The coating procedure was that normally carried out with sandpaper, in that uncoated paper was passed, first, through the calender rolls and a coat of glue applied, and then passed into the chamber where the glue coat was conditioned and sand deposited from the sand hopper; passed out of this chamber and using the regular festoon forming equipment which forms part of the whole set-up.

Appellants contended that the machine constructed and used by Waterfield was a different machine from that shown by appellee. In this contention appellants particularly stress the means for producing and the use of superheated or dry steam and the means used to control the atmosphere in the chamber during the operation of the machine by Waterfield.

Based on this record appellants contended that appellee had a disclosure insufficient to entitle him to contest priority of invention of the subject matter of the involved count, and also that the experiment of March 1931 was not in fact a reduction to practice.

The Examiner of Interferences in his decision stated appellee conceded that he would be entitled to prevail only if the experiment performed by him in March 1931 amounted to an actual reduction to practice, for the reason that from the time the experiment was performed until his filing date he did nothing with the invention in issue which could be relied upon to establish anything more than conception. The date of that experiment is earlier than any date sought to be established by appellants and hence the Examiner held that if the experiment was to be considered as an actual reduction to practice appellee was entitled to an award of priority.

While the Examiner of Interferences stated, inadvertently we think, that there was nothing in the record to show that appellants had opposed appellee's motion to add the involved count and therefore refused to consider the contention of appellants that appellee could not make the count, nevertheless he pointed out that he believed appellee's application afforded sufficient disclosure of the invention to enable one skilled in the art to make and operate the device of the invention and that such operation "would inherently perform the functional limitations in the count." The Examiner of Interferences further held that the experiment of March 1931 constituted an actual reduction to practice.

The Board of Appeals properly considered the two questions before it to be the readability of the count on the disclosure of appellee, and the experiment of appellee in March 1931 as amounting to a reduction to practice.

Concerning the first question the Board held that the count reads upon the disclosure of appellee's application. With respect to the second question the Board approved the reasoning of the Examiner in all particulars.

An examination of appellee's application clearly shows that he used steam in the device shown in Figure 4. It is stated in the application, with reference to the making of the sizing coat, which is a coat applied to the web after the making coat with the attached granules is dried, that such sizing "is carried out in an atmosphere of steam, preferably dry steam * * *." In the specification the use of steam is disclosed in the operation of the device of Figure 4. This disclosure, in our opinion, must be taken to mean steam suited to the proper functioning of the device. Therefore, we think that the mention of "an atmosphere of steam, preferably dry steam" in connection with the application of the sizing coat would teach one skilled in the art that dry steam would preferably be used in the operation of the device shown in Figure 4.

The control valves, pipes and gas heater coil to produce superheated or dry steam from wet steam are conventional, and their use in the working of the machine by the witness Waterfield we think was the obvious thing to do, and in accordance with the disclosure of the application.

It is contended by appellants that the device used in the experiment is not the device disclosed in the application. We cannot agree with this contention. In our opinion the specification as it relates to the apparatus shown in Figure 4 amply discloses the invention defined by the count. In this respect the specification, omitting reference numerals, reads as follows:

> Referring to Figure 4, an apparatus is disclosed, which is adapted to apply abrasive particles to an adhesively coated backing member, or sheet, in an atmosphere charged with the vapor of a solvent for the adhesive coating. A backing sheet is provided with a coating of adhesive on its upper surface by any appropriate means, not shown, ahead of the supporting roll.
>
> The coated sheet travels over rolls, into and through an enclosing casing. Abrasive particles are contained in a hopper and are fed by roll past the adjustable gate to a baffle plate, and thence are deposited upon the adhesively coated backing sheet. A continuously and uniformly flowing shower of abrasive particles is indicated.
>
> Steam, or the vapor of any other solvent for the adhesive, is admitted to the casing through conduits and serves as a suitable agent effective to resist the formation of air pockets in the manner above described. Any vapor which condenses to liquid form on the walls of the casing is caught by troughs and discharged through conduits. Usually, the abrasive coated backing sheet travels to appropriate drying racks, not shown, after it passes over the roll. In some cases, however, it will be satisfactory to carry the sheet directly from the apparatus of Figure 4 to any one of the forms of apparatus disclosed in Figures 1 to 3, or to an equivalent sizing coat applying machine.

While it is true that the adhesive-applying means is not disclosed, nevertheless such means is conventional. It is obvious that a valve is necessarily used in any feeding of steam and it follows, we think, that a valve will regulate the amount of steam passing through a pipe depending upon the position of the valve gate. We do not believe that there is any substantial difference between the chamber device used in the experiment of March 1931, that shown in Figure 4, and that built and used by the witness Waterfield. We think that

the limitations of the involved count fairly read on appellee's disclosure in all respects and, as was held by the Examiner of Interferences, the disclosure is sufficient to enable one skilled in the art to make and operate the device of the invention, and further that such operation "would inherently perform the functional limitations of the count."

It is clear to us that appellee's experiment of March 1931 was an actual reduction to practice.

We have examined the other contentions made by appellants but in view of what has been hereinbefore set out we deem it unnecessary to discuss them.

The decision of the Board of Appeals is affirmed. Affirmed.

Adjudicated Patents

(C. C. A. Fla.) Cox patent, No. 2,187,302, for rock plow, *Held* valid and infringed. *Troup* v. *Cox*, 133 F.(2d) 83.

TRADE-MARKS

OFFICIAL GAZETTE, APRIL 20, 1943

[VOL. 549. No. 3]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 457,746. PHILLIPS PETROLEUM COMPANY, Bartlesville, Okla. Filed Jan. 4, 1943.

PHIL KARB

CARBON BLACK

The words "Carbon Black" are disclaimed apart from the mark.

FOR CARBON BLACK USED PRINCIPALLY AS A FILLER IN RUBBER OR SYNTHETIC RUBBER.

Claims use since Dec. 12, 1942.

Ser. No. 457,747. PHILLIPS PETROLEUM COMPANY, Bartlesville, Okla. Filed Jan. 4, 1943.

KOOLEX

CARBON BLACK

The words "Carbon Black" are disclaimed apart from the mark.

FOR CARBON BLACK USED PRINCIPALLY AS A FILLER IN RUBBER OR SYNTHETIC RUBBER.

Claims use since Dec. 12, 1942.

Ser. No. 457,748. PHILLIPS PETROLEUM COMPANY, Bartlesville, Okla. Filed Jan. 4, 1943.

PHIL LEX

CARBON BLACK

The words "Carbon Black" are disclaimed apart from the mark.

FOR CARBON BLACK USED PRINCIPALLY AS A FILLER IN RUBBER OR SYNTHETIC RUBBER.

Claims use since Dec. 12, 1942.

Ser. No. 458,055. R. T. VANDERBILT COMPANY, INC., New York, N. Y. Filed Jan. 20, 1943.

SUMGUM

FOR RESIN FOR USE IN THE RUBBER INDUSTRY.

Claims use since Jan. 7, 1943.

Ser. No. 458,112. EASTERN COAL SALES COMPANY, Bluefield, W. Va. Filed Jan. 23, 1943.

RED ROBIN

FREEBURN

No claim is made to the word "Freeburn" apart from the mark.

FOR BITUMINOUS COAL.

Claims use since Dec. 1, 1942.

Ser. No. 458,113. EASTERN COAL SALES COMPANY, Bluefield, W. Va. Filed Jan. 23, 1943.



No claim is made to the words "Heavy Duty Stoker Coal" apart from the mark.
FOR BITUMINOUS COAL.
Claims use since Oct. 2, 1942.

Ser. No. 458,114. EASTERN COAL SALES COMPANY, Bluefield, W. Va. Filed Jan. 23, 1943.



No claim is made to the word "Pocahontas" apart from the mark.
FOR BITUMINOUS COAL.
Claims use since Dec. 1, 1942.

Ser. No. 458,324. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed Feb. 4, 1943.

CELAFLUFF

FOR STAPLE FIBERS MADE WHOLLY OR PARTIALLY OF CELLULOSE DERIVATIVES.
Claims use since Jan. 27, 1943.

Ser. No. 458,325. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed Feb. 4, 1943.

CELAIRE

FOR STAPLE FIBERS MADE WHOLLY OR PARTIALLY OF CELLULOSE DERIVATIVES.
Claims use since Jan. 27, 1943.

Ser. No. 458,387. HARRY T. CAMPBELL SONS' CORP., Towson, Md. Filed Feb. 8, 1943.

CAMELSHELL

FOR CALCITE GRIT FOR POULTRY FEED.
Claims use since Oct. 1, 1942.

Ser. No. 458,402. OIL BASE DRILLING FLUIDS CO., Los Angeles, Calif. Filed Feb. 8, 1943.

BLACK MAGIC

FOR POWDERED COMPOSITION INTENDED TO BE USED IN THE MANUFACTURE OF AN OIL BASE DRILLING FLUID.
Claims use since June 24, 1942.

Ser. No. 458,423. JOHN R. EVANS & COMPANY, Camden, N. J. Filed Feb. 9, 1943.

JAREVA

FOR LEATHER.
Claims use since Jan. 27, 1943.

Ser. No. 458,502. VICTOR INSULATORS, INC., Victor, N. Y. Filed Feb. 12, 1943.

VICULITE

FOR MICACEOUS MINERAL MATERIAL HAVING INSULATING AND REFRACTORY PROPERTIES AND USED ALONE OR IN CONNECTION WITH OTHER MATERIALS, IN SLAB OR OTHER FORMS.
Claims use since August, 1942.

Ser. No. 458,626. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed Feb. 19, 1943.

CELAIRESE

FOR STAPLE FIBERS MADE WHOLLY OR PARTIALLY OF CELLULOSE DERIVATIVES.
Claims use since Feb. 15, 1943.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 458,632. BENJAMIN KRAMER, New York, N. Y. Filed Feb. 19, 1943.

Slide - A - Way

FOR LADIES' AND MISSES' HANDBAGS OF LEATHER AND COMBINATIONS THEREOF.
Claims use since June 2, 1941.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 438,191. B. B. CHEMICAL CO., Boston, Mass. Filed Nov. 25, 1940.

LUSTRA-SHEEN

No claim is made to the word "Sheen" apart from the mark.
FOR LEATHER FINISHES WHICH CONTAIN PIGMENTS WHICH ARE APPLIED AS SEASONING COATS TO LEATHER, AND WHICH ARE WORKED INTO THE LEATHER TO PRODUCE A FINISHED APPEARANCE.
Claims use since Oct. 1, 1936.

Ser. No. 443,388. ALICE BERNDT, doing business as Ace Products Co., Detroit, Mich. Filed May 9, 1941.

ACE

FOR CLEANING COMPOUND FOR GENERAL USE, AND A PREPARATION FOR REMOVING CARBON, ACID, GREASE, AND DIRT FROM THE HANDS.
Claims use since June 1, 1940.

Ser. No. 453,475. STANLEY HOME PRODUCTS, INC., Westfield, Mass. Filed June 4, 1942.

7-70-7

FOR CHEMICAL PREPARATION FOR USE ON SILVER, GOLD, AND GLASSWARE FOR CLEANING THE SAME.
Claims use since January, 1942.

Ser. No. 457,645. SOCONY-VACUUM OIL COMPANY, INCORPORATED, New York, N. Y. Filed Dec. 29, 1942.

SOVA SUDS

No claim is made to the word "Suds" except as shown.
FOR WATER-SOLUBLE FLUID COMPOSITION OF SOAPLESS LATHERING MATERIAL FOR A SUPERFICIAL CLEANING OF METAL, GLASS, PLASTICS, LACQUERED OR PAINTED OR OTHER WATER-RESISTING SURFACES.
Claims use since Nov. 12, 1942.

CLASS 5

ADHESIVES

Ser. No. 457,035. THE F. G. FINDLEY CO., Milwaukee, Wis. Filed Nov. 25, 1942.

GLU-WELD

The word "Glu" is disclaimed apart from the mark.
FOR WATERPROOF PASTES, GLUES, AND ADHESIVE GUMS.
Claims use since July 21, 1942.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 458,106. PLOUGH, INC., Memphis, Tenn. Filed Jan. 22, 1943.

KAFFEE BEEN

FOR MEDICINAL PREPARATION FOR TREATMENT OF HEADACHE.
Claims use since Sept. 20, 1914.

Ser. No. 458,279. NOSTANE PRODUCTS CORPORATION, doing business as Dr. Browns Laboratories, Brooklyn, N. Y. Filed Feb. 1, 1943.

VI-NUCLEO

FOR VITAMIN PREPARATION CONTAINING VITAMINS A, B_1, B_2, G, C, AND D.
Claims use since Jan. 5, 1938.

Ser. No. 458,368. MADELAINE, INC., New York, N. Y. Filed Feb. 6, 1943.

Spree

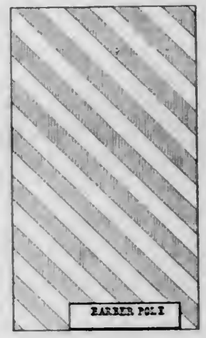
FOR POWDER PUFFS FILLED WITH POWDERED BODY DEODORANT.
Claims use since May 1, 1942.

Ser. No. 458,409. ASHTON B. ROOD, Los Angeles, Calif. Filed Feb. 8, 1943.

CAMOU-CURE

The term "Cure" is disclaimed apart from the mark.
FOR CHEMICAL PREPARATION USED AS A CURING TREATMENT FOR NEW CONCRETE.
Claims use since Dec. 4, 1942.

Ser. No. 458,507. CHERAMY, INC., New York, N. Y. Filed Feb. 13, 1943.



The drawing is lined for red.
FOR TALCUM POWDER AND AFTER SHAVING LOTION.
Claims use since Feb. 8, 1943.

Ser. No. 458,525. FRANCISCO I. CARRERAS, doing business as Ebrey Chemical Works, Miami, Fla. Filed Feb. 15, 1943.

RICORINA

FOR DIURETIC PREPARATION.
Claims use since Jan. 26, 1943.

Ser. No. 458,663. DR. EARL S. SLOAN INC., New York, N. Y. Filed Feb. 20, 1943.



Applicant is owner of T. M. Reg. No. 294,827. The portrait and facsimile signature are those of Dr. Earl S. Sloan, founder of applicant's predecessor in business. Applicant disclaims all wording except "Sloan's", the signature "Dr. Earl S. Sloan", "Kills Pain", and "Mata Dores" apart from and in association with the rest of the features shown. No claim is made to the representation of a label.

FOR MEDICINAL PREPARATIONS IN LIQUID FORM—NAMELY, LINIMENTS, EMBROCATIONS, LOTIONS; OR IN SOLID FORM—NAMELY, OINTMENTS, BALMS, AND RUBS; FOR THE RELIEF OF INFLAMMATION AND ALLAYING PAIN, RHEUMATISM, CHILBLAINS, COLIC, BRONCHIAL COUGH, MUSCULAR CRAMP, CHEST PAINS, SORE MUSCLES, INSECT BITES AND STINGS, ACHING JOINTS, BACKACHE, LUMBAGO, NEURALGIA, SCIATICA, SPRAINS, STRAINS, COLD FEET, TOOTHACHE, STIFFNESS AND SORENESS AFTER EXPOSURE OR EXERTION, CHILLS, FEVER, PINK EYE, BLISTER, ECZEMA, AND OTHER SKIN DISEASES, AND FOR COUNTER-IRRITANTS AND STIMULANTS.
Claims use since Jan. 13, 1932.

Ser. No. 458,690. NYAL COMPANY, Detroit, Mich. Filed Feb. 22, 1943.

VITASTASE

FOR VITAMIN PREPARATION FOR USE IN PREVENTION AND TREATMENT OF VITAMIN DEFICIENCIES.
Claims use since Feb. 11, 1943.

Ser. No. 458,691. NYAL COMPANY, Detroit, Mich. Filed Feb. 22, 1943.

LUMAX

FOR ANTACID FOR RELIEF OF EXCESSIVE GASTRIC ACIDITY.
Claims use since Feb. 11, 1943.

Ser. No. 458,693. SAMUEL RUBIN, New York, N. Y. Filed Feb. 22, 1943.

Faberge

FOR PERFUME.
Claims use since September, 1936.

Ser. No. 458,767. THYMO BORINE LABORATORY, Milwaukee, Wis. Filed Feb. 25, 1943.

THY-RIN

FOR ANTISEPTIC MOUTH WASH.
Claims use since Jan. 15, 1943.

Ser. No. 458,840. THE GROVE LABORATORIES, INC., Wilmington, Del., and St. Louis, Mo. Filed Mar. 1, 1943.

Vita-Babe

FOR VITAMIN CAPSULES.
Claims use since Feb. 4, 1943.

Ser. No. 458,870. EVELYN WESTALL, doing business as Evelyn Westall Co., New York, N. Y. Filed Mar. 2, 1943.

MENACE

FOR PERFUME, TOILET WATER, AND COLOGNE.
Claims use since Feb. 18, 1943.

Ser. No. 458,871. EVELYN WESTALL, doing business as Evelyn Westall Co., New York, N. Y. Filed Mar. 2, 1943.

WHITE SHOULDERS

FOR PERFUME, TOILET WATER, AND COLOGNE.
Claims use since Feb. 18, 1943.

CLASS 8

SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 458,430. MIDWEST MANUFACTURING & ENGINEERING CORP., Boston, Mass. Filed Feb. 9, 1943.

PRYM-X

FOR CIGARETTE CASES NOT OF PRECIOUS METAL.
Claims use since Jan. 15, 1943.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 439,742. THE AEROQUIP CORPORATION, Jackson, Mich. Filed Jan. 17, 1941.

AEROQUIP

FOR METALLIC FITTINGS FOR FLUID CONDUITS.
Claims use since Sept. 21, 1940.

Ser. No. 458,621. THE V. D. ANDERSON COMPANY, Cleveland, Ohio. Filed Feb. 19, 1943. Under 10-year proviso.

THE V. D. ANDERSON CO.

FOR STEAM TRAPS.
Claims use since Dec. 29, 1893.

Ser. No. 458,660. CARL S. PLAUT, doing business as Inerto Company, San Francisco, Calif. Filed Feb. 20, 1943.

PANATOMIZER

FOR PIPE COUPLINGS AND FEED VALVES.
Claims use since Mar. 6, 1942.

CLASS 16

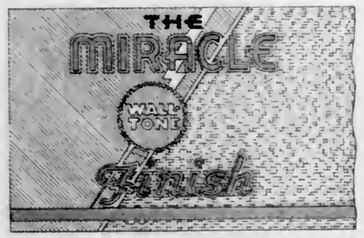
PAINTS AND PAINTERS' MATERIALS

Ser. No. 453,551. KEN-NITE COMPANY, Detroit, Mich. Filed June 8, 1942.

Poli-wax

The word "wax" is disclaimed apart from the mark.
FOR CLEANER, WAX, AND POLISH.
Claims use since Feb. 27, 1939.

Ser. No. 456,783. WESTERN PAINT & VARNISH COMPANY, New Duluth, Minn. Filed Nov. 12, 1942.



The drawing is lined for blue, green, red and yellow. Applicant disclaims the words "Wall Tone Finish" apart from the mark.
FOR LIQUID AND PASTE COLD WATER PAINT.
Claims use since Sept. 29, 1942.

CLASS 19

VEHICLES, NOT INCLUDING ENGINES

Ser. No. 458,189. GENERAL TEXTILE MILLS, INC., New York, N. Y. Filed Jan. 27, 1943.



FOR PARACHUTES.
Claims use since Jan. 21, 1943.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 458,528. COOK ELECTRIC COMPANY, Chicago, Ill. Filed Feb. 15, 1943.

COMMANDO

FOR APPARATUS IN TELEPHONE SYSTEMS—NAMELY, TELEPHONE TERMINALS.
Claims use since Oct. 16, 1942.

Ser. No. 458,678. BURGESS BATTERY COMPANY, Freeport, Ill. Filed Feb. 22, 1943.

FIREFLY

FOR FLASHLIGHTS AND FLASHLIGHT CASES.
Claims use since Jan. 27, 1941.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 458,346. ROSLYN STOCK, doing business as Tweets Novelty Company, New York, N. Y. Filed Feb. 4, 1943.

"TWEETS"

FOR DOLLS.
Claims use since Jan. 30, 1943.

Ser. No. 458,549. LENORE PORTER, San Francisco, Calif. Filed Feb. 15, 1943.

SWANKEE DANDY

FOR TOY DOLLS.
Claims use since Feb. 1, 1943.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 453,827. OMNI PRODUCTS CORPORATION, New York, N. Y. Filed June 23, 1942.



OMNI

FOR HAMMERS, AXES, HATCHETS, GRINDERS, CHISELS, SCREWDRIVERS, TROWELS, WALL SCRAPERS, HANDSAWS, HACKSAW BLADES, PINCERS, PLIERS, SLEDGE HAMMER, PICK MATTOCK, AND PICKS.
Claims use since Mar. 5, 1942.

Ser. No. 454,809. MIXERMOBILE MANUFACTURERS, Portland, Oreg. Filed Aug. 8, 1942.

Buggymobile

FOR MOTOR DRIVEN CONCRETE BATCH HAULING AND PLACING VEHICLES.
Claims use since Nov. 27, 1940.

Ser. No. 456,010. BREUER ELECTRIC MFG. CO., Chicago, Ill. Filed Oct. 7, 1942.

TORNADO

FOR WOODEN MALLETS.
Claims use since Aug. 26, 1942.

Ser. No. 458,497. PENNSYLVANIA SAW CORPORATION, York, Pa. Filed Feb. 12, 1943.

SAWMASTER

FOR SAWS—NAMELY, WOOD AND METAL CUTTING SAWS.
Claims use since Sept. 1, 1941.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 458,487. THE SUNLITE MFG. COMPANY, Milwaukee, Wis. Filed Feb. 11, 1943.

Sunlite

FOR IRONING BOARD PADS.
Claims use since Sept. 1, 1939, for "Sunlite"; and since Jan. 11, 1943, for mark shown.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 455,022. THE NATIONAL CASH REGISTER COMPANY, Dayton, Ohio. Filed Aug. 21, 1942.

National

FOR REGISTERING MACHINES—NAMELY, POSTAGE REGISTERING MACHINES; POSTAGE MACHINES; POSTAGE RECEIPTING MACHINES; POSTAGE PRINTING AND POSTAGE ISSUING MACHINES; POSTAGE DISPENSING MACHINES; POSTAGE METERS; POSTAGE PRINTING OR STAMPING AND COUNTING MACHINES.
Claims use since July 17, 1941.

Ser. No. 455,023. THE NATIONAL CASH REGISTER COMPANY, Dayton, Ohio. Filed Aug. 21, 1942.



FOR REGISTERING MACHINES—NAMELY, POSTAGE REGISTERING MACHINES; POSTAGE MACHINES; POSTAGE RECEIPTING MACHINES; POSTAGE PRINTING AND POSTAGE ISSUING MACHINES; POSTAGE DISPENSING MACHINES; POSTAGE METERS; POSTAGE PRINTING OR STAMPING AND COUNTING MACHINES.
Claims use since July 17, 1941.

Ser. No. 458,581. BAUSCH & LOMB OPTICAL COMPANY, Rochester, N. Y. Filed Feb. 17, 1943.

B.N.L.

FOR OPHTHALMIC MOUNTINGS AND GOGGLES.
Claims use since 1924.

Ser. No. 458,726. CRYSTALOY LABORATORIES, Chicago, Ill. Filed Feb. 24, 1943.

CRYSTALOY

FOR GAUGE POINTS AND SHOES FOR MEASURING DEVICES.
Claims use since Nov. 6, 1942.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 458,818. PHILCO CORPORATION, Philadelphia, Pa. Filed Feb. 27, 1943.

PHILCO

FOR REFRIGERATORS, REFRIGERATOR CABINETS, REFRIGERATOR DOORS, AND REFRIGERATOR SEALED COMPRESSOR UNITS.
Claims use since 1940.

CLASS 33

GLASSWARE

Ser. No. 457,665. UNIVERSAL PAPER PRODUCTS COMPANY, Chicago, Ill. Filed Dec. 30, 1942.

Permaglass

FOR GLASS SODA CUP HOLDERS.
Claims use since Dec. 15, 1942.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 451,279. YOUNG RADIATOR COMPANY, Racine, Wis. Filed Feb. 27, 1942.

FULL-FLOW

FOR JACKET LIQUID AND OIL COOLERS FOR INTERNAL COMBUSTION ENGINES.
Claims use since Mar. 19, 1939.

Ser. No. 457,894. CONSERVATOR PRODUCTS CO., Philadelphia, Pa. Filed Jan. 13, 1943.

CONSERVATOR

FOR SOLID FUEL COOKING AND HEATING STOVES AND RANGES.
Claims use since Nov. 23, 1942.

Ser. No. 458,142. ANCHOR POST FENCE COMPANY, Baltimore, Md. Filed Jan. 25, 1943.

SKYHEAT

FOR AIRCRAFT HEATERS OF THE COMBUSTION TYPE.
Claims use since Oct. 17, 1942.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 458,532. EXCELSIOR LEATHER WASHER MANUFACTURING CO., Rockford, Ill. Filed Feb. 15, 1943.



FOR LEATHER GASKETS, PACKINGS, AND WASHERS.
Claims use since Feb. 2, 1943.

CLASS 37

PAPER AND STATIONERY

Ser. No. 458,351. THE AMERICAN CRAYON COMPANY, Sandusky, Ohio. Filed Feb. 5, 1943.

PaintmarX

FOR MARKING CRAYONS.
Claims use since July 10, 1942.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 454,934. BILBARA PUBLISHING COMPANY, INC., New York, N. Y. Filed Aug. 17, 1942.

PictureWorld

The word "Picture" is disclaimed apart from the mark FOR PERIODICAL.
Claims use since July, 1942.

Ser. No. 456,778. RAND MCNALLY & COMPANY, Chicago, Ill. Filed Nov. 12, 1942.



Applicant is the owner of Reg. No. 62,803, effected under the 10-year proviso and is also the owner of Reg. No. 228,371.

FOR MAPS, ATLASES, AND MISCELLANEOUS BOOKS.

Claims use since June 12, 1920.

Ser. No. 458,018. THE NATIONAL HORSEMAN, Louisville, Ky. Filed Jan. 19, 1943. Under 10-year proviso.

THE NATIONAL
HORSEMAN

FOR MAGAZINE.

Claims use since 1865.

Ser. No. 458,062. GEORGE H. COPELAND, doing business as Copeland Features, Kew Gardens, Long Island, N. Y. Filed Jan. 21, 1943.

SNOOKS AND TUBBY

FOR COMIC STRIPS PUBLISHED FROM TIME TO TIME.

Claims use since Jan. 18, 1943.

Ser. No. 458,066. WALT DISNEY PRODUCTIONS, Burbank, Calif. Filed Jan. 21, 1943.

The GREMLINS

FOR COMIC STRIPS PUBLISHED IN NEWSPAPERS AND PERIODICALS.

Claims use since Sept. 1, 1942.

Ser. No. 458,104. NEA SERVICE, INC., Cleveland, Ohio. Filed Jan. 22, 1943.

The Gremlins

FOR COMIC DRAWINGS PUBLISHED IN A SERIES IN DAILY AND SUNDAY NEWSPAPERS.

Claims use since Jan. 4, 1943.

CLASS 39

CLOTHING

Ser. No. 443,868. WESTERN LEATHER CLOTHING COMPANY, St. Louis, Mo. Filed May 23, 1941.



FOR SPORTSWEAR—NAMELY, LEATHER, LEATHER TRIMMED AND CLOTH JACKETS.

Claims use since Jan. 1, 1941.

Ser. No. 450,300. GEORGE S. BAILEY HAT COMPANY, INC., Los Angeles, Calif. Filed Jan. 19, 1942.



FOR MEN'S HATS.

Claims use since June, 1933.

Ser. No. 451,473. SOLO PRODUCTS CORPORATION, New York, N. Y. Filed Mar. 7, 1942.

TIDELOX

FOR HAIR NETS.

Claims use since Feb. 14, 1933.

Ser. No. 457,641. SAKS & COMPANY, New York, N. Y. Filed Dec. 29, 1942.

PATHWAYS

FOR MISSES' AND WOMEN'S SHOES MADE OF LEATHER, FABRIC, AND COMBINATIONS THEREOF.

Claims use since Dec. 1, 1942.

Ser. No. 457,642. SAKS & COMPANY, New York, N. Y. Filed Dec. 29, 1942.

PERAMBULATORS

FOR MISSES' AND WOMEN'S SHOES MADE OF LEATHER, FABRIC, AND COMBINATIONS THEREOF.

Claims use since Nov. 20, 1942.

Ser. No. 457,792. HORWITZ & DUBERMAN, New York, N. Y. Filed Jan. 7, 1943.

FLEDGLING FASHIONS

Applicant disclaims the word "Fashions" apart from the mark.

FOR WOMEN'S AND GIRLS' DRESSES, JACKETS, AND COATS MADE OF SILK, COTTON, WOOL, LINEN, WORSTED, RAYON, AND CELANESE.

Claims use since October, 1942.

Ser. No. 457,889. BACMO POSTMAN CORPORATION, New York, N. Y. Filed Jan. 13, 1943.

Bacmo Law

The word "Law" is disclaimed apart from the mark.

FOR LADIES', MEN'S, AND CHILDREN'S GLOVES MADE OF LEATHER, FABRIC, OR COMBINATIONS THEREOF.

Claims use since January, 1940.

Ser. No. 458,593. INTERNATIONAL SHOE CO., St. Louis, Mo. Filed Feb. 17, 1943.



The words "American Play Shoes" are not claimed apart from the mark.

FOR BOOTS AND SHOES OF LEATHER, FABRIC, AND/OR COMBINATIONS THEREOF.

Claims use since Dec. 8, 1942.

Ser. No. 458,594. INTERNATIONAL SHOE CO., St. Louis, Mo. Filed Feb. 17, 1943.

YANIGANS
TAKE IT EASY

FOR BOOTS AND SHOES OF LEATHER AND/OR COMBINATIONS THEREOF.

Claims use since Sept. 15, 1941.

Ser. No. 458,610. PAT HARTLEY INC., New York, N. Y. Filed Feb. 18, 1943.

Pat Hartly

FOR WOMEN'S DRESSES.

Claims use since June 10, 1942.

Ser. No. 458,650. EMPORIUM WORLD MILLINERY CO., Chicago, Ill. Filed Feb. 20, 1943.

Starling

FOR WOMEN'S HATS.

Claims use since May, 1941.

Ser. No. 458,798. M & W THOMAS CORP., New York, N. Y. Filed Feb. 26, 1943.

BANDLEY

FOR NECKTIES.

Claims use since Feb. 1, 1943.

Ser. No. 458,844. MICHAELS, STERN & COMPANY, INC., Rochester, N. Y. Filed Mar. 1, 1943.

SCOTSBURR

FOR MEN'S SUITS, MEN'S TOPCOATS, AND MEN'S OVERCOATS.

Claims use since January, 1940.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 458,180. R. H. MACY & CO., INC., New York, N. Y. Filed Jan 26, 1943.

GREMLIN

FOR PIN CUSHIONS.

Claims use since Jan. 8, 1943.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 455,071. BEN GREENBERG & BROTHER, Chicago, Ill. Filed Aug. 24, 1942.

CHARM-TRED

FOR CARPETS AND RUGS.

Claims use since Aug. 14, 1942.

Ser. No. 457,790. DELITE FABRICS, INC., Westerly, R. I. Filed Jan. 7, 1943.

DE LITE-GLO

FOR WOVEN FABRIC IN THE PIECE MADE WHOLLY OR PARTLY OF WOVEN PLASTIC STRANDS AND INTENDED FOR VARIOUS USES AMONG WHICH ARE SHOE UPPERS, HEEL PADS, ETC.
Claims use since Aug. 11, 1942.

Ser. No. 458,041. M. LOWENSTEIN & SONS, INC., New York, N. Y. Filed Jan. 20, 1943.

SALUDOS AMIGOS

FOR COTTON AND/OR RAYON PIECE GOODS.
Claims use since Nov. 17, 1942.

Ser. No. 458,243. MANDEE FABRICS, INC., New York, N. Y. Filed Jan. 30, 1943.

RUSTLETONE

FOR RAYON, COTTON, WOOL, AND PROTEIN FIBRE FABRICS IN THE PIECE.
Claims use since Mar. 10, 1941.

Ser. No. 458,509. COHN-HALL-MARX CO., New York, N. Y. Filed Feb. 13, 1943.

Gamester

FOR COTTON, RAYON, AND/OR SILK PIECE GOODS OR COMBINATIONS THEREOF.
Claims use since Jan. 18, 1943.

CLASS 43

THREAD AND YARN

Ser. No. 458,224. INDUSTRIAL RAYON CORPORATION, Cleveland, Ohio. Filed Jan. 29, 1943.

TYRON

The words "Super Strength-Rayon Yarn" are disclaimed apart from the mark.
FOR RAYON YARN.
Claims use since June 10, 1942.

Ser. No. 458,790. W. C. PLUNKETT & SONS COMPANY, INC., New York, N. Y. Filed Feb. 26, 1943.



The background portion of the mark is lined for blue.
FOR COTTON YARN.
Claims use since Jan. 10, 1943.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 457,670. C. J. BATES & SON, Chester, Conn. Filed Dec. 31, 1942.

Queen of Hearts

FOR MANICURE SETS, NAIL FILES, NAIL BUFFERS, ORANGE-WOOD STICKS, TWEEZERS, MANICURE SCISSORS, NIPPERS, CORN KNIVES, CUTICLE KNIVES, MANICURE HANDLE PIECES, AND NAIL CLIPS.
Claims use since Aug. 1, 1927.

Ser. No. 458,029. FRANK ALLEN, New York, N. Y. Filed Jan. 20, 1943.

Thermacryl

FOR DENTAL APPARATUS FOR THE BAKING AND HEATING OF INVESTMENTS DURING THE REPAIRING AND RESETTING OF ARTIFICIAL DENTURES.
Claims use since Dec. 14, 1942.

Ser. No. 458,216. AMERICAN STERILIZER COMPANY, Erie, Pa. Filed Jan. 29, 1943.

The Hygeaire

FOR ULTRA-VIOLET SPACE STERILIZING APPARATUS.
Claims use since Jan. 29, 1943.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 454,927. GENERAL MILLS, INC., Minneapolis, Minn. Filed Aug. 15, 1942.

SURE

FOR FEEDS FOR CARNIVOROUS, HERBIVOROUS, AND OMNIVOROUS ANIMALS—NAMELY, FEEDS FOR POULTRY, CATTLE, SWINE, RABBITS, SHEEP, DOGS, AND FOXES.
Claims use since Dec. 15, 1941.

Ser. No. 458,240. HILL AND MOORE, Downers Grove, Ill. Filed Jan. 30, 1943.

ASK

FOR PREPARED DOG FOOD.
Claims use since Jan. 25, 1943.

Ser. No. 458,288. SARASOTA CELERY COMPANY, Sarasota, Fla. Filed Feb. 1, 1943.

SARA BLUE

FOR CELERY.
Claims use since Apr. 7, 1942.

Ser. No. 458,670. L. D. ANDERSON, doing business as Arizona Vegetable Distributors, Phoenix, Ariz. Filed Feb. 22, 1943.



FOR FRESH VEGETABLES AND MELONS.
Claims use since December, 1937.

Ser. No. 458,874. CALIFORNIA MEXICO DISTRIBUTING CO., Nogales, Ariz. Filed Mar. 3, 1943.

CALICO

FOR FRESH VEGETABLES.
Claims use since Nov. 25, 1942.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

APRIL 20, 1943

401,013. FLUID AND SOLID FUEL BURNING FURNACES GENERALLY OF THE CLASS FORMING PART OF BUILDING HEATING EQUIPMENT. BORG-WARNER CORPORATION, Chicago, Ill.
Filed July 28, 1941. Serial No. 445,680. PUBLISHED FEBRUARY 9, 1943. Class 34.

401,014. FLUID AND SOLID FUEL BURNING FURNACES GENERALLY OF THE CLASS FORMING PART OF BUILDING HEATING EQUIPMENT. BORG-WARNER CORPORATION, Chicago, Ill.
Filed July 28, 1941. Serial No. 445,681. PUBLISHED FEBRUARY 9, 1943. Class 34.

401,015. MEN'S AND BOYS' HATS AND CAPS. CAPSON HAT COMPANY, INC., Fall River, Mass.
Filed September 2, 1941. Serial No. 446,732. PUBLISHED JANUARY 13, 1942. Class 39.

401,016. NOTE PAPER IN THE NATURE OF FOLDERS. GEORGE J. HODDER, Oakland, Calif.
Filed September 6, 1941. Serial No. 446,837. PUBLISHED FEBRUARY 9, 1943. Class 37.

401,017. CONTACT LENSES. GERTRUD SALVATORI, doing business as Contact Lens Service, New York, N. Y.
Filed October 10, 1941. Serial No. 447,672. PUBLISHED FEBRUARY 9, 1943. Class 26.

401,018. SANDPAPER—NAMELY, A MATERIAL USED IN CABINET WORK TO BUILD UP AND REMOVE SURFACE DENTS OR ABRASIONS; AND RUBBING COMPOUND—NAMELY, A MATERIAL CONTAINING AN ABRASIVE USED TO REDUCE FINISHED SURFACES OF WOOD. PHILCO CORPORATION, Philadelphia, Pa.
Filed December 3, 1941. Serial No. 449,151. PUBLISHED FEBRUARY 9, 1943. Class 4.

401,019. BITUMINOUS ROOF INSULATION CEMENT. THE FLINTKOTE COMPANY, New York, N. Y.
Filed December 8, 1941. Serial No. 449,256. PUBLISHED FEBRUARY 9, 1943. Class 12.

401,020. FRESH DECIDUOUS FRUITS. W. H. GARVIN, doing business as United Marketing Exchange, Delta, Colo.
Filed December 3, 1941. Serial No. 449,401. PUBLISHED MARCH 24, 1942. Class 46.

401,021. PHONOGRAPH NEEDLES. DUOTONE COMPANY, INC., New York, N. Y.
Filed December 13, 1941. Serial No. 449,447. PUBLISHED FEBRUARY 9, 1943. Class 36.

401,022. TONIC FOOD IN BISCUIT FORM FOR BIRDS. BURNETT'S INCORPORATED, Newark, N. J.
Filed December 31, 1941. Serial No. 449,891. PUBLISHED FEBRUARY 9, 1943. Class 46.

401,023. GLASS RODS, GLASS TUBES, AND GLASS CONTAINERS—NAMELY, JARS, DISHES, AND BOTTLES, INCLUDING AMPOULES AND OTHER VIALS, AND FLASKS. GLASCO PRODUCTS COMPANY, Chicago, Ill.
Filed April 3, 1942. Serial No. 452,233. PUBLISHED FEBRUARY 9, 1943. Class 33.

401,024. BOILER CONTROLS AND REGULATORS—NAMELY, LIQUID LEVEL RESPONSIVE BOILER WATER FEED VALVES FOR LOW, MEDIUM, AND HIGH PRESSURE BOILERS, ETC. EVERETT N. MCDONNELL, doing business as McDonnell & Miller, Chicago, Ill.
Filed April 13, 1942. Serial No. 452,309. PUBLISHED FEBRUARY 9, 1943. Class 13.

401,025. PHONOGRAPH NEEDLES. DUOTONE COMPANY, New York, N. Y.
Filed April 30, 1942. Serial No. 452,687. PUBLISHED FEBRUARY 9, 1943. Class 36.

401,026. GREASE TRAPS. J. A. ZURN MANUFACTURING COMPANY, Erie, Pa.
Filed May 14, 1942. Serial No. 453,024. PUBLISHED FEBRUARY 9, 1943. Class 13.

401,027. WINES. BISCEGLIA BROTHERS WINE CO., Fresno and Reedley, Calif.
Filed May 28, 1942. Serial No. 453,317. PUBLISHED FEBRUARY 2, 1943. Class 47.

401,028. WINES. ITALIAN SWISS COLONY, San Francisco, Calif.
Filed June 8, 1942. Serial No. 453,546. PUBLISHED FEBRUARY 9, 1943. Class 47.

401,029. ROTATING SEAL RINGS FOR CENTRIFUGAL PUMPS AND SIMILAR ROTATING EQUIPMENT. CORNING GLASS WORKS, Corning, N. Y.
Filed June 17, 1942. Serial No. 453,713. PUBLISHED FEBRUARY 9, 1943. Class 35.

401,030. CARDBOARD STRUCTURAL TOYS. ARVEY CORPORATION, Chicago, Ill.
Filed July 10, 1942. Serial No. 454,128. PUBLISHED AUGUST 25, 1942. Class 22.

401,031. GAME PLAYED WITH A SPINNING BOBBIN. PARKER BROTHERS INC., Portland, Maine, and Salem, Mass.
Filed July 14, 1942. Serial No. 454,219. PUBLISHED FEBRUARY 9, 1943. Class 22.

401,032. GLASS TRAYS AND GLASS SHELVING. PHILCO CORPORATION, Philadelphia, Pa.
Filed July 21, 1942. Serial No. 454,378. PUBLISHED FEBRUARY 9, 1943. Class 33.

401,033. LACQUERS, STAINS, PAINT THINNERS, FILLERS USED FOR PREPARING SURFACES TO BE PAINTED, READY MIXED PAINTS, PREPARED SHELLACS, VARNISHES, CABINET POLISH, BURN-IN-WAX, AND REFRIGERATOR POLISH. PHILCO CORPORATION, Philadelphia, Pa.
Filed July 30, 1942. Serial No. 454,608. PUBLISHED FEBRUARY 9, 1943. Class 16.

401,034. WRAPPING PAPER, MANILA PAPER, ENVELOPES, PRINT BOOK COVER, DOCUMENT COVERS, AND MANIFOLD OR ONION SKIN PAPER. BUTLER PAPER CORPORATION, Chicago, Ill.
Filed August 10, 1942. Serial No. 454,822. PUBLISHED FEBRUARY 9, 1943. Class 37.

401,035. WRITING PAPER AND ENVELOPES. J. R. BRENDAGE, INC., New York, N. Y.
Filed August 22, 1942. Serial No. 455,045. PUBLISHED FEBRUARY 9, 1943. Class 37.

401,036. PIPE-JOINT PACKING MATERIAL. HYDRAULIC DEVELOPMENT CORPORATION, Medford and West Medford, Mass.
Filed September 1, 1942. Serial No. 455,233. PUBLISHED OCTOBER 20, 1942. Class 35.

401,037. SEPARABLE FASTENERS PARTICULARLY OF THE ROTARY OPERATIVE TYPE VARIOUSLY APPLIED TO ARTICLES OF MANUFACTURE IN THE INDUSTRIAL ARTS. UNITED-CARR FASTENER CORPORATION, Cambridge, Mass.
Filed October 5, 1942. Serial No. 455,990. PUBLISHED FEBRUARY 9, 1943. Class 13.

401,038. PLUMBING AND STEAMFITTING VALVES. THE FAIRBANKS COMPANY, New York, N. Y.
Filed October 8, 1942. Serial No. 456,073. PUBLISHED FEBRUARY 9, 1943. Class 13.

401,039. GLASS DISH. MCKEE GLASS COMPANY, Jeannette, Pa.
Filed October 15, 1942. Serial No. 456,218. PUBLISHED FEBRUARY 9, 1943. Class 33.

401,040. CONCRETE CURING COMPOUND. KANSAS BUILDING MATERIALS COMPANY, Topeka, Kans., assignor to Concrete Chemical Company, North Kansas City, Mo., a firm composed of C. C. Brewen, E. L. Craig, and L. S. Martin.
Filed October 19, 1942. Serial No. 456,270. PUBLISHED FEBRUARY 9, 1943. Class 12.

401,041. PIPE EXPANSION JOINTS, METAL PIPING, AND VALVES OF THE FOLLOWING TYPES—TO WIT, GLOBE, GATE, CROSS, ANGLE, STOP, CHECK, STOP-AND-CHECK, SWING-CHECK, LIFT-CHECK, AND MANIFOLD, WHICH LATTER INCLUDES VARIOUS COMBINATIONS OF THE FOREGOING TYPES OF VALVES. ZALLEA BROTHERS & JOHNSON, Wilmington, Del.
Filed October 20, 1942. Serial No. 456,299. PUBLISHED FEBRUARY 9, 1943. Class 13.

401,042. CLAYS USED AS EXTENDERS IN PROTECTIVE PAINT COATINGS. GEORGIA KAOLIN COMPANY, Elizabeth, N. J.
Filed October 23, 1942. Serial No. 456,365. PUBLISHED FEBRUARY 9, 1943. Class 16.

401,043. BAMBOO RUG POLES. GEO. H. MAUS, INC., Amsterdam, N. Y.
Filed October 24, 1942. Serial No. 456,401. PUBLISHED FEBRUARY 9, 1943. Class 50.

401,044. POWDERED HAND SOAP. SUGAR BEET PRODUCTS COMPANY, Saginaw, Mich.
Filed October 26, 1942. Serial No. 456,439. PUBLISHED FEBRUARY 9, 1943. Class 4.

401,045. FERROUS METAL ALLOYS. ELECTRO METALLURGICAL COMPANY, New York, N. Y.
Filed October 29, 1942. Serial No. 456,505. PUBLISHED FEBRUARY 9, 1943. Class 14.

401,046. THERMAL INSULATION MATERIAL. THE RUBEROID CO., Boundbrook, N. J., and New York, N. Y.
Filed October 29, 1942. Serial No. 456,512. PUBLISHED FEBRUARY 9, 1943. Class 12.

401,047. INSULATION BATTS. STANDARD COTTON PRODUCTS CO., INC., Flint, Mich.
Filed October 29, 1942. Serial No. 456,516. PUBLISHED FEBRUARY 9, 1943. Class 12.

401,048. BURLAP AND COTTON BAGS. AMERICAN-NATIONAL BAG & BURLAP CO., INC., Brooklyn, N. Y.
Filed October 30, 1942. Serial No. 456,524. PUBLISHED DECEMBER 22, 1942. Class 2.

401,049. COLLAPSIBLE BAGS MADE OF CANVAS OR CLOTH FOR CARRYING GOODS, MERCHANDISE, AND WARES WHEN SHOPPING. ALMEIDA HARRIS, New York, N. Y.
Filed October 30, 1942. Serial No. 456,532. PUBLISHED FEBRUARY 9, 1943. Class 3.

401,050. SYNTHETIC RESINS, ORGANIC RESINOUS CONDENSATION PRODUCTS, POLYHYDROXYBENZENE RESIN CONDENSATION PRODUCTS, RESORCIN RESIN CONDENSATION PRODUCTS, RESINOUS COMPOSITIONS, SYNTHETIC RESIN, AND RESINOUS BONDING COMPOSITIONS. PENNSYLVANIA COAL PRODUCTS COMPANY, Petrolia, Pa.
Filed October 30, 1942. Serial No. 456,542. PUBLISHED FEBRUARY 9, 1943. Class 1.

401,051. LAWN SPRINKLERS, HOSE NOZZLES, HOSE COUPLINGS, AND QUICK COUPLING VALVES. CHICAGO FLEXIBLE SHAFT COMPANY, Chicago, Ill.
Filed November 2, 1942. Serial No. 456,586. PUBLISHED FEBRUARY 9, 1943. Class 13.

401,052. PERIODICAL PUBLICATION INCLUDING RECIPES FOR COOKING. DELL PUBLISHING COMPANY, INC., New York, N. Y.
Filed November 2, 1942. Serial No. 456,591. PUBLISHED FEBRUARY 2, 1943. Class 38.

401,053. TOILET KIT CONTAINING SOAP. ALFRED D. MCKELVY COMPANY, New York, N. Y.
Filed November 4, 1942. Serial No. 456,639. PUBLISHED FEBRUARY 9, 1943. Class 4.

401,054. BLOCKS OF NATURAL PUMICE STONE USED FOR SCRAPING, SCOURING, AND POLISHING THE TOPS OF STOVE GRILLS AND THE LIKE. UNITED STATES PUMICE SUPPLY CO., Los Angeles, Calif.
Filed November 4, 1942. Serial No. 456,641. PUBLISHED FEBRUARY 9, 1943. Class 4.

401,055. BLOCKS OF NATURAL PUMICE STONE FOR SCRAPING, SCOURING AND POLISHING POTS, PANS, KETTLES AND OTHER METAL UTENSILS. UNITED STATES PUMICE SUPPLY CO., Los Angeles, Calif.
Filed November 4, 1942. Serial No. 456,642. PUBLISHED FEBRUARY 9, 1943. Class 4.

401,056. FRESH VEGETABLES—NAMELY, FRESH CELERY, LETTUCE, MELONS. JOHN T. BUNN, also doing business as Crown Packing Company, Los Angeles, Calif.
Filed November 9, 1942. Serial No. 456,710. PUBLISHED FEBRUARY 9, 1943. Class 46.

401,057. CAPES, SHAMPOO CAPES, BEAUTY PARLOR AND BOUDOIR CAPES, APRONS, BEAUTY OPERATORS' APRONS, SHOWER CAPS, AND BATHING CAPS. GEORGE EDELMAN, doing business as George Edelman Co., New York, N. Y.
Filed November 10, 1942. Serial No. 456,729. PUBLISHED FEBRUARY 2, 1943. Class 39.

401,058. READY-MIXED PAINT. THE TREMCO MANUFACTURING COMPANY, Cleveland, Ohio.
Filed November 11, 1942. Serial No. 456,758. PUBLISHED FEBRUARY 9, 1943. Class 16.

401,059. SWIMMING SUITS FOR MEN, WOMEN, AND CHILDREN; SWIMMING TRUNKS, BEACH ROBES AND COATS, SLACKS, SLACK SUITS AND OVERALLS, ETC. SOL SHERMAN, doing business as Sherman Bows, New York, N. Y.
Filed November 14, 1942. Serial No. 456,835. PUBLISHED FEBRUARY 2, 1943. Class 39.

401,060. LADIES' HANDBAGS, PURSES, BILL FOLDS, AND KIT BAGS. MAX H. HUNZIKER, New York, N. Y.
Filed November 18, 1942. Serial No. 456,888. PUBLISHED FEBRUARY 9, 1943. Class 3.

401,061. COMBINATION CONSISTING OF A LAUNDRY BAG AND A CONTAINER EQUIPPED WITH POCKETS ON ONE SIDE FOR HOLDING SHIRTS, TOILET ACCESSORIES, HANDKERCHIEFS, ETC. DRITZ-TRAUM COMPANY, INC., New York, N. Y., assignor to Heirloom Needlework Guild, Inc., New York, N. Y., a corporation of New York.
Filed November 19, 1942. Serial No. 456,920. PUBLISHED FEBRUARY 9, 1943. Class 2.

401,062. FIREPROOFED COTTON SHEET INSULATION MATERIAL. LOCKPORT COTTON BATTING CO., Lockport, N. Y.
Filed November 20, 1942. Serial No. 456,945. PUBLISHED FEBRUARY 9, 1943. Class 12.

401,063. WATERPROOFING COMPOSITION FOR MIXING WITH CEMENT. ROBERT CONNELL AND S. I. WILSON, Portland, Oreg.
Filed November 23, 1942. Serial No. 456,972. PUBLISHED FEBRUARY 9, 1943. Class 12.

401,064. PERIODICAL. ZIFF-DAVIS PUBLISHING COMPANY, Chicago, Ill.
Filed November 24, 1942. Serial No. 457,024. PUBLISHED FEBRUARY 2, 1943. Class 38.

401,065. MEN'S, WOMEN'S, AND CHILDREN'S SHOES MADE OF LEATHER OR FABRIC OR COMBINATIONS THEREOF. SEYMOUR TROY, New York, N. Y.
Filed November 24, 1942. Serial No. 457,020. PUBLISHED FEBRUARY 2, 1943. Class 39.

401,066. GLOVES OF LEATHER, RUBBER, FABRIC, AND COMBINATIONS OF THESE MATERIALS. KNOXVILLE GLOVE COMPANY, Knoxville, Tenn.
Filed November 30, 1942. Serial No. 457,125. PUBLISHED FEBRUARY 2, 1943. Class 39.

401,067. GLOVES OF LEATHER, RUBBER, FABRIC, AND COMBINATIONS OF THESE MATERIALS. KNOXVILLE GLOVE COMPANY, Knoxville, Tenn.
Filed November 30, 1942. Serial No. 457,127. PUBLISHED FEBRUARY 2, 1943. Class 39.

401,068. GLOVES OF LEATHER, RUBBER, FABRIC, AND COMBINATIONS OF THESE MATERIALS. KNOXVILLE GLOVE COMPANY, Knoxville, Tenn.
Filed November 30, 1942. Serial No. 457,128. PUBLISHED FEBRUARY 2, 1943. Class 39.

401,069. GLOVES OF LEATHER, RUBBER, FABRIC, AND COMBINATIONS OF THESE MATERIALS. KNOXVILLE GLOVE COMPANY, Knoxville, Tenn.
Filed November 30, 1942. Serial No. 457,131. PUBLISHED FEBRUARY 2, 1943. Class 39.

401,070. GLOVES OF LEATHER, RUBBER, FABRIC, AND COMBINATIONS OF THESE MATERIALS. KNOXVILLE GLOVE COMPANY, Knoxville, Tenn.
Filed November 30, 1942. Serial No. 457,136. PUBLISHED FEBRUARY 2, 1943. Class 39.

401,071. GLOVES OF LEATHER, RUBBER, FABRIC, AND COMBINATIONS OF THESE MATERIALS. KNOXVILLE GLOVE COMPANY, Knoxville, Tenn.
Filed November 30, 1942. Serial No. 457,137. PUBLISHED FEBRUARY 2, 1943. Class 39.

401,072. MEN'S GLOVES OF LEATHER, FABRIC, AND COMBINATIONS THEREOF. THE SUPERB GLOVE COMPANY, Johnstown, N. Y.
Filed November 30, 1942. Serial No. 457,147. PUBLISHED FEBRUARY 2, 1943. Class 39.

401,073. SERIES OF CARTOONS. CHICAGO TRIBUNE-NEW YORK NEWS SYNDICATE, INC., New York, N. Y.
Filed December 2, 1942. Serial No. 457,167. PUBLISHED FEBRUARY 9, 1943. Class 38.

401,074. WEIGHING SCALES. TOLEDO SCALE COMPANY, Toledo, Ohio.
Filed December 2, 1942. Serial No. 457,177. PUBLISHED FEBRUARY 9, 1943. Class 26.

401,075. ELECTRICAL CONNECTORS. BURNDY ENGINEERING COMPANY, INC., New York, N. Y.
Filed December 4, 1942. Serial No. 457,197. PUBLISHED FEBRUARY 9, 1943. Class 21.

401,076. POTATOES. FOOD MACHINERY CORPORATION, San Jose, Calif.
Filed December 4, 1942. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 457,201. PUBLISHED FEBRUARY 9, 1943. Class 46.

401,077. CANNED VEGETABLES AND FRUITS. BAY SHORE CANNING COMPANY, Alviso, Calif.
Filed December 7, 1942. Serial No. 457,234. PUBLISHED FEBRUARY 9, 1943. Class 46.

401,078. FOOD FOR DOGS AND OTHER CARNIVOROUS ANIMALS. KELLOGG COMPANY, Battle Creek, Mich.
Filed December 7, 1942. Serial No. 457,246. PUBLISHED FEBRUARY 9, 1943. Class 46.

401,079. POCKETBOOKS, BILLFOLDS AND COMBINED PASS CASES AND BILLFOLDS. WILSON MANUFACTURING CO., Boston, Mass.
Filed December 7, 1942. Serial No. 457,262. PUBLISHED FEBRUARY 9, 1943. Class 3.

401,080. CANNED DOG FOOD. WM. MONTGOMERY COMPANY, Philadelphia, Pa.
Filed December 8, 1942. Serial No. 457,278. PUBLISHED FEBRUARY 9, 1943. Class 46.

401,081. DRAWING FIXTURE FOR SUPPORTING DUPLICATOR STENCILS. REMINGTON RAND INC., Buffalo, N. Y.
Filed December 8, 1942. Serial No. 457,284. PUBLISHED FEBRUARY 9, 1943. Class 26.

401,082. CANNED CITRUS FRUIT JUICES. CALIFORNIA FRUIT PROCESSORS, INC., San Francisco, Calif.
Filed December 21, 1942. Serial No. 457,540. PUBLISHED FEBRUARY 9, 1943. Class 46.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

401,083. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) GEORGE M. WATTLES, Marinette, Wis.
Filed Jan. 24, 1940. Serial No. 427,826.

DRI-KAPT

FOR COAL AND COATING COMPOUNDS COMBUSTIBLE WITH THE COAL AND USED AS A PROTECTIVE COVERING OF THE COAL IN THE MASS.
Claims use since Sept. 17, 1938.

401,084. (CLASS 27. HOROLOGICAL INSTRUMENTS.) MONTRES ROLEX S. A. (ROLEX UHREN A. G.) (ROLEX WATCH CO. LTD.), Geneva, Switzerland. Filed Feb. 24, 1941. Serial No. 440,946.

THE TUDOR

FOR WATCHES AND PARTS THEREOF.
Claims use since Feb. 25, 1938.

401,085. (CLASS 37. PAPER AND STATIONERY.) AMERICAN TISSUE MILLS, Holyoke, Mass. Filed Apr. 8, 1941. Serial No. 442,384.

moderne

FOR PAPER NAPKINS AND TABLECOVERS, CREPE PAPER, TISSUE PAPER, AND WAXED PAPER.
Claims use since Nov. 1, 1937.

401,086. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FROST COOKED FOODS, INC., Boston, Mass.
Filed Apr. 17, 1941. Serial No. 442,658.

SUSPENDED FRESHNESS

FOR COOKED FOOD PRODUCTS—VIZ., LOBSTER NEWBERG, CHICKEN PIE, CHICKEN A LA KING, ROAST TURKEY, TURKEY A LA KING, CREAMED HADDOCK, HALIBUT A LA KING, BAKED APPLE PUDDING, CURRY OF CHICKEN.
Claims use since Apr. 11, 1941.

401,087. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HILLS BROS. COFFEE INC., San Francisco, Calif. Filed May 12, 1941. Serial No. 443,506.

CONTROLLED ROASTING

FOR COFFEE.
Claims use since Feb. 1, 1927.

401,088. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SUPERIOR SEPARATOR COMPANY, Minneapolis, Minn. Filed Dec. 19, 1941. Serial No. 449,630.

SUPERIOR

FOR GRAIN CLEANING, SCALPING, AND SEPARATING MACHINERY, SEED HULLERS, GRADERS, AND STACKERS.
Claims use since July, 1929.

401,089. (CLASS 39. CLOTHING.) ROLLINS HOSIERY MILLS, INC., Des Moines, Iowa. Filed Dec. 20, 1941. Serial No. 449,653.



FOR HOSIERY.
Claims use since Dec. 1, 1941.

401,090. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) MULTIPLE V-BELT DRIVE ASSOCIATION, Chicago, Ill. Filed Dec. 24, 1941. Under the act of March 19, 1920, as amended June 10, 1938. Serial No. 449,740.



THE DOMINANT DRIVE OF INDUSTRY

FOR DRIVING BELTS FOR MACHINERY.
Claims use since Aug. 28, 1941.

401,091. (CLASS 37. PAPER AND STATIONERY.) JOHN TRUMBULL MARSHALL, doing business as The Tally Tax Company, New York, N. Y. Filed Jan. 15, 1942. Serial No. 450,238.

TALLY-TAX

FOR POCKET BOOKLETS FOR DAILY ENTRIES OF TAXES PAID.
Claims use since Nov. 1, 1941.

401,092. (CLASS 39. CLOTHING.) WEINER BLOUSE CORPORATION, New York, N. Y. Filed Jan. 16, 1942. Serial No. 450,267.

AN Ann Wynn REG. CREATION

FOR WOMEN'S BLOUSES AND SHIRTS.
Claims use since Jan. 1, 1942.

401,093. (CLASS 38. PRINTS AND PUBLICATIONS.) BIO-DYNAMIC FARMING AND GARDENING ASSOCIATION, INC., Phoenixville, Pa. Filed Mar. 12, 1942. Serial No. 451,562.

BIO-DYNAMICS

FOR A MAGAZINE.
Claims use since Sept. 23, 1941.

401,094. (CLASS 38. PRINTS AND PUBLICATIONS.) WALTER J. BLACK, INC., New York, N. Y. Filed Mar. 17, 1942. Serial No. 451,665.

DETECTIVE BOOK CLUB

FOR INDIVIDUAL BOOKS AND SERIES OF BOOKS.
Claims use since Feb. 9, 1942.

401,095. (CLASS 38. PRINTS AND PUBLICATIONS.) THE CHRISTIAN DIGEST PUBLISHING COMPANY, Grand Rapids, Mich. Filed Mar. 20, 1942. Serial No. 451,762.

The Christian DIGEST

FOR A MONTHLY PUBLICATION WHOSE SUBJECT MATTER IS RELIGIOUS ARTICLES OF THE CHRISTIAN FAITH.
Claims use since Feb. 23, 1942.

401,096. (CLASS 47. WINES.) CALIFORNIA GROWERS WINERIES, Cutler, Calif. Filed Mar. 31, 1942. Serial No. 452,037.



Old Sacramento

FOR WINES.
Claims use since Feb. 11, 1942.

401,097. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) MICHAEL D. MAOYARI, doing business as Ryan Gage Co., Detroit, Mich. Filed Apr. 1, 1942. Serial No. 452,089.

RYAN

FOR GAGES—NAMELY, GAGES FOR ANGULAR AND DIMENSIONAL CHECKING OR MEASURING, SUCH AS HEIGHT AND DEPTH GAGES, VERNIER CALIPERS, COMBINATION SINE BARS, PLUG GAGES, SNAP GAGES, TEMPLATES AND THE LIKE.
Claims use since Feb. 12, 1942.

401,098. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) REFINERS LUBRICATING CO., INC., New York, N. Y., assignor to Refiners Lubricating Company, New York, N. Y. Filed Apr. 11, 1942. Serial No. 452,294.

SPEEDI-OUT

FOR CHEMICAL COMPOUND USED AS A FIRE PREVENTIVE AND FIRE EXTINGUISHING PREPARATION.
Claims use since Feb. 26, 1942.

401,099. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) MCKESSON & ROBBINS, INCORPORATED, New York, N. Y. Filed Apr. 24, 1942. Serial No. 452,558.

DUMONT

FOR WHISKEY, BRANDY, GIN, RUM AND ALCOHOLIC CORDIALS.
Claims use since Feb. 13, 1942.

401,100. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CANADA PACKERS, INC., New York, N. Y. Filed Apr. 28, 1942. Serial No. 452,636.

CAN-PAK

Applicant is the owner of trade-mark registration No. 393,620, registered Feb. 17, 1942.
FOR CHEESE AND CANNED APPLE JUICE FOR FOOD PURPOSES.
Claims use since Nov. 1, 1941, on apple juice; and since Feb. 15, 1942, on cheese.

401,101. (CLASS 47. WINES.) CALIFORNIA VALLEY WINE CO., New York, N. Y. Filed May 28, 1942. Serial No. 453,320.

Schapiro's HOUSE OF KOSHER WINES

FOR WINES.
Claims use since May, 1941.

401,102. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) COLLINS OIL & MANUFACTURING CO., INC., New York, N. Y. Filed June 4, 1942. Serial No. 453,453.

CABLEKOTE

FOR ASPHALTIC PAINT.
Claims use since Feb. 18, 1936.

401,103. (CLASS 39. CLOTHING.) HASLAMS LIMITED, Manchester, England. Filed July 16, 1942. Serial No. 454,256.

HASLAM Fabrics

FOR HANDKERCHIEFS.
Claims use since 1919.

401,104. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) GEETING & FROMM, INC., Chicago, Ill. Filed Sept. 24, 1942. Serial No. 455,728.

Kentucky Nectar

FOR WHISKEY.
Claims use since Oct. 15, 1941.

401,105. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE COLUMBIA MILLS, INC., New York, N. Y. Filed Nov. 20, 1942. Serial No. 456,936.

WOODSTOCK

FOR WINDOW SHADES.
Claims use since Jan. 1, 1937.

401,106. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KANSAS CITY MACARONI & IMPORTING CO., doing business as The American Beauty Macaroni Co., Kansas City, Mo. Filed Nov. 20, 1942. Serial No. 456,944.

FOR EGG NOODLES.
Claims use since Sept. 8, 1937.

401,107. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) F. E. BOYDEN-HANSEN CO., LTD., Alameda, Calif. Filed Jan. 11, 1943. Serial No. 457,846.

Beeville

FOR HONEY.
Claims use since Aug. 20, 1932.

401,108. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) AIRCRAFT TOOLS, INC., Los Angeles, Calif. Filed Jan. 14, 1943. Serial No. 457,905.

FOR STRAP DUPLICATORS, STOP COUNTERSINKS, BACK COUNTERSINKS, AND BACK SPOTFACERS, RIVET SETS, SWIVEL DIMPLING TOOLS, DIMPLING SETS, RIVET SQUEEZERS, RIVET SQUEEZER SETS, FLEXIBLE SHAFT ANGLE DRILLS, ANGLE DRILLS, ANGLE ATTACHMENT, DRILL ADAPTERS, FLEXIBLE DRILLS, SPEED WRENCHES, COUNTERSINKS, HOLE SAWS, DUPLICATING PUNCHES, SHEET HOLDERS, CABLE SPLICERS, CHIP CHASERS, HOOK SCRAPERS, AND BUCKING BARS.
Claims use since November, 1938.

401,109. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ISIDORE JACOEL, doing business as I. Jacoel Cable Splicing Equipment Co., Buffalo, N. Y. Filed Feb. 1, 1943. Serial No 458,269.

JACOEL

FOR TOOLS AND APPARATUS FOR SPLICING CABLES, TOW LINES, HOISTING SLINGS AND AIRCRAFT CONTROL LINES HELD IN THE HAND OR MOUNTED ON A BOX FOR CARRYING A CABLE SPLICING KIT OR MOUNTED ON A WORK BENCH, INCLUDING HAMMERS, ANVILS, WIRE CUTTERS, PINCERS, PLIERS, CLAMPING JAWS, CHISELS, SAWS, AWLS, NAILS, WIRE TWISTING WRENCHES, HOLDERS FOR GRIPPING CABLE LOOPS AND BUSHINGS, HOLDERS FOR GRIPPING CABLE LOOPS AND THIMBLES, CLAMPS FOR FASTENING SUCH HOLDERS ON STANDARDS MOUNTED ON TOOL BOXES, AND STANDARDS FOR SUPPORTING CABLE HOLDERS ON WORK BENCHES.
Claims use since 1936.

TRADE-MARK REGISTRATIONS RENEWED

22,752. **PS-STUBBS.** STEEL, STEEL WIRE, TOOLS, FILES, AND SAWS. Registered April 4, 1893. PETER STUBBS, LIMITED. Re-renewed April 4, 1943, to Peter Stubbs Limited, Warrington and Rotherham, England, a joint stock company of Great Britain.

22,753. **STUBS.** STEEL, STEEL WIRE, TOOLS, FILES, AND SAWS. Registered April 4 1893. PETER STUBBS, LIMITED. Re-renewed April 4, 1943, to Peter Stubbs Limited, Warrington and Rotherham, England, a joint stock company of Great Britain.

23,242. **AMERICAN LADY.** CORSETS. Registered June 27, 1893. SCHILLING CORSET CO. Re-renewed June 27, 1943, to American Lady Corset Co., Detroit, Mich., a corporation of Michigan, assignee.

23,368. **HUDNUTINE.** TOILET PREPARATIONS. Registered July 18, 1893. RICHARD HUDNUT. Re-renewed July 18, 1943, to Richard Hudnut, New York, N. Y., a corporation of New York, assignee.

23,441. **CRESOLENE.** CERTAIN NAMED MEDICAL AND DISINFECTING COMPOUND AND APPARATUS. Registered August 1, 1893. THE VAPO-CRESOLENE COMPANY, Stanley, N. J., and New York, N. Y. Re-renewed August 1, 1943, to The Vapo-Cresolene Company, New York, N. Y., a corporation of New Jersey

153,763. **OK.** SALT. Registered March 28, 1922. INTERNATIONAL SALT CO. OF NEW YORK, New York, N. Y. Renewed March 28, 1942, to International Salt Company, Scranton, Pa., a corporation of New Jersey, successor.

161,507. **SUPERIOR ISCO.** SALT. Registered November 14, 1922. INTERNATIONAL SALT CO. OF NEW YORK, New York, N. Y. Renewed November 14, 1942, to International Salt Company, Scranton, Pa., a corporation of New Jersey, successor.

161,627. **ROBIN HOOD.** BOYS' SHIRTS AND BOYS' BLOUSES. Registered November 14, 1922. ERNEST SIMONS MFG. CO., Port Chester, N. Y. Renewed November 14, 1942, to Emil Glick, doing business as Glick Sportswear Co., Cleveland, Ohio, successor.

164,106. **KILL-PEST.** FLUID PREPARATION FOR KILLING HOUSE FLIES, MOSQUITOES, AND OTHER INSECTS. Registered February 13, 1923. PITTMAN CHEMICAL COMPANY, Birmingham, Ala., a corporation of Alabama. Renewed February 13, 1943.

164,857. **TRU-FUL FASHIONED.** HOSIERY. Registered February 27, 1923. BURSON KNITTING COMPANY, Rockford, Ill., a corporation of Illinois. Renewed February 27, 1943.

165,252. **BANGOR DAILY NEWS AND DAILY WHIG AND COURIER.** DAILY NEWSPAPER. Registered March 6, 1923. BANGOR PUBLISHING COMPANY, Bangor, Maine, a corporation of Maine. Renewed March 6, 1943.

165,330. **STEINERT.** PLAYER PIANOS, PIANO PLAYERS, PIANOS, ORGANS. Registered March 6, 1923. M. STEINERT & SONS CO. Renewed March 6, 1943, to M. Steinert & Sons Company, Inc., Boston, Mass., a corporation of Massachusetts, assignee by mesne assignments.

165,363. **KING.** CERTAIN MUSICAL INSTRUMENTS. Registered March 6, 1923. THE H. N. WHITE COMPANY, Cleveland, Ohio, a corporation of Ohio. Renewed March 6, 1943.

165,419. **"RED HEAD" AND DRAWING.** LEADS FOR MECHANICAL PENCILS. Registered March 6, 1923. THE WAHL COMPANY. Renewed March 6, 1943, to Eversharp, Inc., Chicago, Ill., a corporation of Delaware, by change of name and merger.

165,511. **NICO-DUST.** INSECTICIDE. Registered March 13, 1923. WALNUT GROWERS SPRAY MANUFACTURING COMPANY, Los Angeles, Calif. Renewed March 13, 1943, to Stauffer Chemical Company, San Francisco, Calif., a corporation of California, assignee by mesne assignments.

165,836. **ROYAL SCOTCH.** WRITING AND PRINTING PAPER. Registered March 20, 1923. AMERICAN WRITING PAPER COMPANY. Renewed March 20, 1943, to American Writing Paper Corporation, Holyoke, Mass., a corporation of Delaware, assignee.

165,976. **NAUTICO.** READY-MIXED PAINT, PASTE PAINT, PAINT ENAMEL, AND VARNISH. Registered March 27, 1923. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del., a corporation of Delaware. Renewed March 27, 1943.

166,028 **UNIONETTE.** CORSETS, CORSET WAISTS, BRASSIÈRES, BANDEAUX, GIRDLES, BELTS FOR PERSONAL WEAR, DIAPHRAGM CONFINERS, AND HOSE SUPPORTERS. Registered March 27, 1923. AMERICAN LADY CORSET CO., Detroit, Mich., a corporation of Michigan. Renewed March 27, 1943.

166,205. **"MUSTANG" AND DRAWING.** PAPER BAGS. Registered March 27, 1923, CROWN WILLIAMETTE PAPER COMPANY. Renewed March 27, 1943, to Blake, Moffitt & Towne, San Francisco, Calif., a corporation of California, assignee.

166,414. **MO-LYB-DIE.** FORGINGS OF STEEL ALLOY. Registered April 3, 1923. A. FINKL & SONS COMPANY, Chicago, Ill., a corporation of Illinois. Renewed April 3, 1943.

166,677. **OILEX.** LUBRICATING OILS PARTICULARLY FOR HOUSEHOLD USE. Registered April 10, 1923. STANDARD OIL COMPANY (INCORPORATED IN NEW JERSEY), Bayonne, N. J. Renewed April 10, 1943 to Standard Oil Company of New Jersey, Wilmington, Del., a corporation of Delaware, assignee.

166,783. **TEXTOIL.** NONMETALLIC GEAR WHEELS AND GEAR-WHEEL BLANKS. Registered April 17, 1923. GENERAL ELECTRIC COMPANY, Schenectady, N. Y., a corporation of New York. Renewed April 17, 1943.

167,017. **MFB.** SHORTENING OR FAT COMPOSED OF FATTY OLEAGINOUS OR UNCTUOUS FOOD SUBSTANCES. Registered April 24, 1923. THE SOUTHERN COTTON OIL COMPANY, Jersey City, N. J., New York, N. Y., New Orleans, La., Savannah, Ga., and Chicago, Ill., a corporation of New Jersey. Renewed April 24, 1943, to The Southern Cotton Oil Company, New Orleans, La., a corporation of New Jersey

167,606. **"LOCKE" AND DRAWING.** INSULATORS FOR HIGH-TENSION INSULATION. Registered May 1, 1923. LOCKE INSULATOR CORPORATION, Baltimore, Md., a corporation of Maryland. Renewed May 1, 1943.

167,648. **RODE WITE.** WATERPROOFING PLASTIC COMPOSITIONS FOR ROADS AND CEMENT CONSTRUCTIONS. Registered May 8, 1923. HENRY A. GARDNER, Washington, D. C. Renewed May 8, 1943

167,649. **RODE TITE.** WATERPROOFING PLASTIC COMPOSITIONS FOR ROADS AND CEMENT CONSTRUCTIONS. Registered May 8, 1923. HENRY A. GARDNER, Washington, D. C. Renewed May 8, 1943.

167,744. **HONEOLA.** REMEDY FOR THE RELIEF OF COUGHS, COLDS, HOARSENESS, AND IRRITATIONS OF THE THROAT AND BRONCHIAL TUBES. Registered May 8, 1923. BRISTOL-MYERS COMPANY. Renewed May 8, 1943, to Bristol-Myers Company, New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

167,852. **SEALITE.** PERMANENT FOAM FOR PROTECTION AND PREVENTING EVAPORATION OF VOLATILE LIQUIDS. Registered May 8, 1923. STANDARD OIL COMPANY (INCORPORATED IN NEW JERSEY), assignor to Standard Development Company, Bayonne, N. J. Renewed May 8, 1943, to Standard Oil Company of New Jersey, Wilmington, Del., a corporation of Delaware, assignee by mesne assignments.

167,912. **MACANATE.** MEDICINAL PREPARATION OF MAGNESIUM AND CALCIUM CARBONATES COMBINED WITH CARMINATIVES, CORRECTIVES, AND STOMACHICS. Registered May 8, 1923. BRISTOL-MYERS COMPANY. Renewed May 8, 1943, to Bristol-Myers Company, New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

168,569. **CHOC-O-ROMA.** SPECIALLY-PREPARED FOOD PREPARATIONS OF CHOCOLATE, SUGAR, AND WATER, AND COCOA, SUGAR, AND WATER. Registered May 29, 1923. H. B. HUNTER CO., INC., Norfolk, Va., a corporation of Virginia. Renewed May 29, 1943.

168,618. **FLINCO.** LIQUID CLEANING PREPARATION. Registered May 29, 1923. ANSHELM F. HEDBERG, doing business as A. F. Hedberg & Co., Long Island City, N. Y. Renewed May 29, 1943, to Anshelm F. Hedberg, Woodside, N. Y.

168,645. **WESSON 33.** PREPARED FATTY OLEAGINOUS OR UNCTUOUS FOOD SUBSTANCES. Registered May 29, 1923. THE SOUTHERN COTTON OIL COMPANY, Jersey City and Bayonne, N. J., New York, N. Y., Gretna, La., and Savannah, Ga. Renewed May 29, 1943, to The Southern Cotton Oil Company, New Orleans, La., a corporation of New Jersey

169,222. **CARNAVAL.** LARD SUBSTITUTE AND SHORTENING COMPOSED OF FATTY OLEAGINOUS OR UNCTUOUS FOOD SUBSTANCES. Registered June 12, 1923. THE SOUTHERN COTTON OIL COMPANY, Jersey City and Bayonne, N. J., New York, N. Y., Gretna, La., Savannah, Ga., and Chicago, Ill. Renewed June 12, 1943, to The Southern Cotton Oil Company, New Orleans, La., a corporation of New Jersey

169,244. **TEXTOIL.** NONMETALLIC SHEET MATERIAL FORMED FROM TEXTILE MATERIAL AND A BINDER. Registered June 12, 1923. GENERAL ELECTRIC COMPANY, Schenectady, N. Y., a corporation of New York. Renewed June 12, 1943.

169,484. **LUXNEW.** VARNISH STAIN. Registered June 19, 1923. BAKER PAINT & VARNISH CO., Jersey City, N. J., a corporation of New Jersey. Renewed June 19, 1943.

169,585. **DILAXIN.** LAXATIVES. Registered June 26, 1923. MARMOLA COMPANY. Renewed June 26, 1943, to Raladam Company, Detroit, Mich., a corporation of Michigan, assignee.

169,617. **"HAIR-GROOM" AND DRAWING.** HAIR-COMBING CREAM. Registered June 26, 1923. EDWARD WESLEY & COMPANY, assignor to Clifford F. Eha, of Cincinnati, Ohio. Renewed June 26, 1943, to Wyeth Chemical Company, Jersey City, N. J., a corporation of Delaware, assignee by mesne assignments.

169,867. **STACOMB.** POMADES FOR THE HAIR. Registered July 3, 1923. STANDARD LABORATORIES, INC., Los Angeles, Calif. Renewed July 3, 1943, to Standard Laboratories, Inc., New York, N. Y., a corporation of California.

169,872. **BAKER'S.** PAINTS AND PAINTERS' MATERIALS. Registered July 3, 1923. BAKER PAINT & VARNISH CO., Jersey City, N. J., a corporation of New Jersey. Renewed July 3, 1943.

169,873. **LUXOLIN.** PAINT ENAMELS. Registered July 3, 1923. BAKER PAINT & VARNISH CO., Jersey City, N. J., a corporation of New Jersey. Renewed July 3, 1943.

170,066. **WOOD DETROIT.** HYDRAULIC HOISTS AND THEIR PARTS. Registered July 10, 1923. WOOD HYDRAULIC HOIST & BODY COMPANY. Renewed July 10, 1943, to Gar Wood Industries, Inc., Detroit, Mich., a corporation of Michigan, by change of name.

170,126. **KELLASTONE.** BUILDING CEMENT AND STUCCO. Registered July 10, 1923. NATIONAL KELLASTONE CO., Chicago, Ill. Renewed July 10, 1943, to Westvaco Chlorine Products Corporation, New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

170,136. **REPRESENTATION OF A TAPE IN ROPE.** ROPE. Registered July 10, 1923. COLUMBIAN ROPE COMPANY, Auburn, N. Y., a corporation of New York. Renewed July 10, 1943.

170,325. **ARGON.** PETROLEUM AND CERTAIN NAMED PRODUCTS OF PETROLEUM. Registered July 10, 1923. STANDARD OIL COMPANY OF NEW YORK. Renewed July 10, 1943, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York, by change of name.

170,367. **"FRA-BAC" AND DRAWING.** SMOKING TOBACCO. Registered July 17, 1923. CHARLES B. PERKINS CO., Boston, Mass., a corporation of Massachusetts. Renewed July 17, 1943.

170,392. **"DISNEY" AND DRAWING.** HATS AND CAPS. Registered July 17, 1923. DISNEY HATS, New York, N. Y. Renewed July 17, 1943, to The Frank H. Lee Company, Danbury, Conn., a corporation of Connecticut, assignee by mesne assignments.

170,450. **"FRUTAL".** NATURAL AND SYNTHETIC ESSENTIAL OILS AND MATERIALS SUITABLE FOR THE PRODUCTION OF PERFUMES. Registered July 17, 1923. POLAK'S FRUTAL WORKS, Amersfoort, Netherlands. Renewed July 17, 1943, to Polak's Frutal Works, Inc., Long Island City, N. Y., a corporation of New York, assignee.

170,508. **"WASHINGTON" AND DRAWING.** DEHYDRATED APPLES. Registered July 17, 1923. WASHINGTON DEHYDRATED FOOD CO., Yakima, Wash., a corporation of Washington. Renewed July 17, 1943.

170,547. **NUTTING.** FLOOR TRUCKS. Registered July 17, 1923. WALTER M. NUTTING, doing business as Nutting Truck Company. Renewed July 17, 1943, to Nutting Truck and Caster Company, Faribault, Minn., a corporation of Minnesota, assignee.

170,705. **SUN SET.** WHEAT FLOUR—NAMELY, SELF-RISING FLOUR. Registered July 24, 1923. BALLARD & BALLARD CO., Louisville, Ky., a corporation of Kentucky. Renewed July 24, 1943.

170,788. **KINGSWEAR.** COTTON PIECE GOODS. Registered July 24, 1923. COHN-HALL-MARX CO., New York, N. Y., a corporation of New York. Renewed July 24, 1943.

170,875. **THE DOCTOR.** LEATHER SHOES. Registered July 24, 1923. JOHN MEIER SHOE COMPANY, St. Louis, Mo. Renewed July 24, 1943, to Holland-Racine Shoes, Inc., Holland, Mich., a corporation of Michigan, assignee by mesne assignments.

170,883. **SEA PLANE.** WHEAT FLOUR—NAMELY, SELF-RISING FLOUR. Registered July 24, 1923. BALLARD & BALLARD COMPANY, Louisville, Ky., a corporation of Kentucky. Renewed July 24, 1943.

171,029. **WONDER.** PREPARED FEED FOR ANIMALS, COMPRISING FEED FOR POULTRY AND LIVE STOCK. Registered July 31, 1923. ARCADY FARMS MILLING COMPANY, Chicago, Ill., a corporation of Illinois. Renewed July 31, 1943.

171,098. **CLARO.** SOFT DRINKS. Registered July 31, 1923. GARRETT AND CO. INC. Renewed July 31, 1943, to Virginia Dare Extract Company, Inc., Brooklyn, N. Y., a corporation of New York, assignee.

171,247. **"UNICORN" AND DRAWING.** CANNED APRICOTS, GRAPES, PLUMS, PEACHES, PINEAPPLE, CHERRIES, PEARS, CORN, PEAS, AND ASPARAGUS. Registered July 31, 1923. FRANCIS H. LEGGETT & COMPANY, New York, N. Y., a corporation of New York. Renewed July 31, 1943.

171,262. **"KINGLY" AND DRAWING.** MEN'S AND BOYS' DRESS, NEGLIGEE, AND WORK SHIRTS. Registered July 31, 1923. KINGLY SHIRT CO. Renewed July 31, 1943, to Hirsch Shirt Corporation, Chicago, Ill., a corporation of Illinois, successor.

171,769. **MELLO.** WASHING COMPOUND. Registered August 14, 1923. THE MELLO COMPANY, La Porte, Ind. Renewed August 14, 1943, to The Hygienic Products Company, Canton, Ohio, a corporation of Ohio, assignee by mesne assignments.

171,778. **TITANOX.** SOAP, GLASS POLISH, METAL POLISH, AND ABRADER PREPARATIONS. Registered August 14, 1923. TITANIUM PIGMENT COMPANY, INC., Niagara Falls, N. Y. Renewed August 14, 1943, to National Lead Company, New York, N. Y., a corporation of New Jersey, assignee.

171,871. **"DIEBOLD" AND DRAWING.** FILING SAFES, SKELETON SAFES, FIREPROOF SAFES, BURGLARPROOF SAFES, MANGANESE SAFES, VAULT DOORS, LOCKS, AND SAFE-DEPOSIT BOXES. Registered August 14, 1923. DIEBOLD SAFE & LOCK COMPANY, Canton, Ohio, a corporation of Ohio. Renewed August 14, 1943.

172,093. **"MASTERFELT" AND DRAWING.** HEADWEAR—NAMELY, SOFT AND STIFF HATS FOR MEN. Registered August 21, 1923. L. SHAFARMAN, INC. Renewed August 21, 1943, to Ray Daniels, New York, N. Y., assignee by mesne assignments.

172,125. **SNOWFLAKE.** CUT SOLES OF LEATHER FOR BOOTS AND SHOES. Registered August 21, 1923. BARBOUR WELTING COMPANY. Renewed August 21, 1943, to Barbour Welting Company, Brockton, Mass., a copartnership, assignee.

172,231. **ELK-CLUB.** GINGER ALE. Registered August 28, 1923. I. L. FLORY, doing business as Elkton Lithia Bottling Company, Elkton, Va. Renewed August 28, 1943.

172,244. **SEE THAT HUMP!** HOOKS AND EYES, SNAP FASTENERS, SAFETY PINS, HOOK-AND-EYE TAPE, AND TOILET PINS. Registered August 28, 1923. THE DE LONG HOOK AND EYE COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed August 28, 1943.

172,248. **SEE THAT HUMP!** HOOKS AND EYES, SNAP FASTENERS AND SAFETY PINS. Registered August 28, 1923. THE DE LONG HOOK AND EYE COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed August 28, 1943.

172,254. **"NAPCO" AND DRAWING.** ALMOND PASTE, ALMONDS SALTED AND IN THEIR NATURAL STATE, KERNEL PASTE, MARZIPAN PASTE, BLANCHED PEANUTS, BLANCHED ALMONDS, ETC. Registered August 28, 1923. NATIONAL ALMOND PRODUCTS CO. INC. Renewed August 28, 1943, to National Almond Products Co., Inc., Brooklyn, N. Y., a corporation of New York.

172,362. **"TOMLINSON" AND DRAWING.** TAKE-DOWN TABLES. Registered August 28, 1923. GEORGE EDWARD TOMLINSON, Winchester, Ky. Renewed August 28, 1943.

172,340. **MUNNESAVR.** TWINE. Registered August 28, 1923. ORCHARD PAPER COMPANY, St. Louis, Mo., a corporation of Missouri. Renewed August 28, 1943.

172,408. **IDEAL A-WARD.** CHOCOLATE COATING. Registered August 28, 1923. IDEAL COCOA & CHOCOLATE CO., Lititz, Pa., and New York, N. Y. Renewed August 28, 1943, to Wilbur-Suchard Chocolate Company, Inc., Lititz, Pa., a corporation of Pennsylvania, assignee by mesne assignments.

172,409. **IDEAL VAN DYK.** CHOCOLATE COATING. Registered August 28, 1923. IDEAL COCOA & CHOCOLATE CO., Lititz, Pa., and New York, N. Y. Renewed August 28, 1943, to Wilbur-Suchard Chocolate Company, Inc., Lititz, Pa., a corporation of Pennsylvania, assignee by mesne assignments.

172,419. **IDEAL VAN ZANT.** CHOCOLATE COATING. Registered August 28, 1923. IDEAL COCOA & CHOCOLATE CO., Lititz, Pa., and New York, N. Y. Renewed August 28, 1943, to Wilbur-Suchard Chocolate Company, Inc., Lititz, Pa., a corporation of Pennsylvania, assignee by mesne assignments.

172,434. **CHICATINE.** POULTRY FEED. Registered August 28, 1923. TIOGA MILL & ELEVATOR CO. Renewed August 28, 1943, to Tioga Mills Inc., Waverly, N. Y., a corporation of New York, by change of name.

172,473. **"BALLARD'S" AND DRAWING.** WHEAT FLOUR—NAMELY, SELF-RISING FLOUR. Registered August 28, 1923. BALLARD & BALLARD CO., INCORPORATED, Louisville, Ky., a corporation of Kentucky. Renewed August 28, 1943.

172,476. **"JO" AND DRAWING.** WHEAT FLOUR. Registered August 28, 1923. WABASHA ROLLER MILL COMPANY, Wabasha, Minn., a corporation of Minnesota. Renewed August 28, 1943.

REISSUES

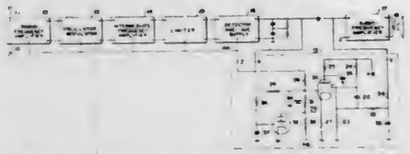
APRIL 20, 1943

22,302
SIGNAL-TRANSLATING SYSTEM

Nelson Perry Case, Great Neck, N. Y., assignor to Hazeltine Corporation, a corporation of Delaware

Original No. 2,264,019, dated November 25, 1941, Serial No. 365,459, November 13, 1940. Application for reissue January 28, 1943, Serial No. 473,863

11 Claims. (Cl. 250—20)



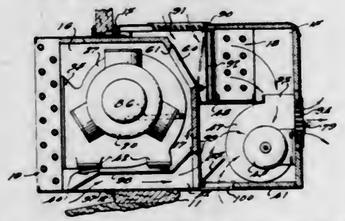
1. A signal-translating system comprising, an input circuit adapted to have signals applied thereto, a signal-translating channel coupled to said input circuit, means for deriving a first unidirectional potential the magnitude and polarity of which vary with variations of a characteristic of an applied signal in opposite senses from a predetermined value, means for deriving a second unidirectional potential the magnitude of which varies with variations in one sense of said characteristic from said predetermined value, the polarity of said last-named potential and the sense of variation thereof being opposite to that of said first-named potential with variations in said one sense of said characteristic from said predetermined value, and means responsive jointly to said derived unidirectional potentials for controlling a characteristic of said signal-translating channel.

22,303
AIR CONDITIONING UNIT

Bernard W. Jewell, Dayton, Ohio, assignor to Chrysler Corporation, Detroit, Mich., a corporation of Delaware

Original No. 2,290,973, dated July 28, 1942, Serial No. 303,968, November 13, 1939. Application for reissue January 22, 1943, Serial No. 473,431

4 Claims. (Cl. 62—129)



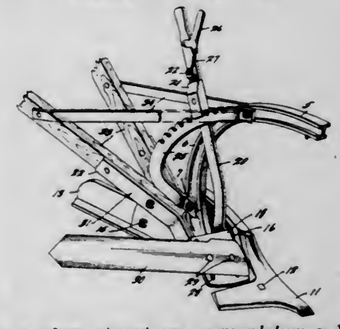
1. An air cooled air conditioning unit adapted to be associated with an opening in the room to be conditioned so that outside air may be supplied to and rejected from the unit for the purpose of dissipating heat therefrom comprising a casing, a partition dividing said casing into a condensing compartment and an evaporating compartment, a condensing assembly comprising a compressor motor, a condenser blower and a compressor, each operatively connected to said compressor motor, and a condenser arranged in refrigerant-flow relationship with said compressor, the condenser blower being so arranged with respect to said condenser as to cause a stream of outside air to flow thereover and cool the compressed refrigerant passed therethrough, an evaporating assembly comprising an evaporator connected in refrigerant flow relationship with said compressor and said condenser, an evaporator blower motor, and an evaporator blower operatively connected to said evaporator blower motor, said evaporator blower and said evaporator being so arranged that the evaporator blower normally causes a flow of room air through said evaporator and into the room, an exhaust damper forming a portion of said partition and being so arranged with respect to said evaporator blower and evaporator that, when opened, some of the room air circulated by said evaporator blower is exhausted into the condensing compartment and thence into the outside atmosphere, and a circuit for controlling said motors comprising a first branch for supplying power to said evaporator blower motor and a second branch in parallel with said first branch for supplying power to said compressor motor, a control switch in series with both branches which when opened suspends operation of both said compressor motor and said evaporator blower motor, a second switch in said second branch which, when opened while said control switch is closed, suspends operation of said compressor motor and thus permits said evaporator blower motor to operate independently of said compressor motor, and an exhaust damper switch in said second branch and in series with said second switch, said exhaust damper switch being operatively connected to said exhaust damper to be opened thereby when said exhaust damper is opened whereby opening of said exhaust damper suspends operation of said compressor motor even though said second switch may be closed.

22,304
PLOW

George W. Lee, Willow Springs, N. C.

Original No. 2,226,665, dated December 31, 1940, Serial No. 292,356, August 28, 1939. Application for reissue August 19, 1941, Serial No. 407,508

7 Claims. (Cl. 97—118)

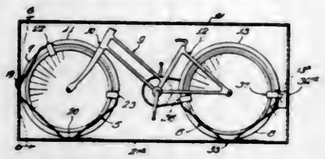


1. In a plow structure, comprising a body, a share immovably fixed to said body, a land-side

carried by the body, a sweep adjustably secured to a plate of angular form, and means for pivotally connecting and adjusting said plate on the body.

22,305
INTERIOR PACKING DEVICE
Raymond H. Van Saun, Chicago, Ill., assignor to Container Corporation of America, Chicago, Ill., a corporation of Delaware
Original No. 2,183,177, dated December 12, 1939, Serial No. 275,779, May 26, 1939. Application for reissue December 7, 1940, Serial No. 369,141
16 Claims. (Cl. 206—46)

1. A bicycle package comprising a container, a bicycle frame within the container having at least one wheel assembled therein, and means for spacing the wheel from the container comprising an elongated strip of bendable sheet material having two or more spaced, aligned, elongated wheel-engaging apertures, said strip being provided with fold lines between adjacent apertures, whereby the strip may be bent to enable portions of the perimeter of the wheel to be engaged in each aperture.



PLANT PATENTS

GRANTED APRIL 20, 1943

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

576
AVOCADO TREE
John Martin Reinecke, San Diego, Calif., assignor to Armstrong Nurseries, Inc., Ontario, Calif., a corporation of California
Application November 24, 1941, Serial No. 420,306
1 Claim. (Cl. 47—62)

A new and distinct variety of avocado tree, characterized as to novelty by its habit of vigorous growth and late blooming; the ripening of the fruit qualities; its habit of bearing very heavy crops alternating with moderately heavy size crops; the superior quality of the fruit evidenced by high average oil content and nutty flavor; attractive semi-thick green skin; and resistance to discoloration of the flesh after cutting, substantially as shown and described.

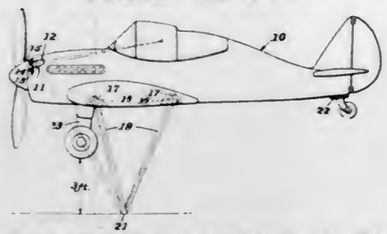
PATENTS

GRANTED APRIL 20, 1943

2,316,750
PURIFICATION OF MANGANESE ELECTROLYTE SOLUTIONS
Paul M. Ambrose, College Park, Md., assignor to Chicago Development Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application February 11, 1939, Serial No. 255,877
1 Claim. (Cl. 204—105)

A method of purifying manganese electrolyte solutions to remove at least one metal which is more noble than manganese, which comprises providing an anode compartment containing an anode and a cathode compartment containing a cathode, separating said compartments by a material only slightly pervious to the electrolyte, and electrolyzing the manganese electrolyte for a period of time sufficient to effect the purification to the desired extent, the cathode current density being insufficient to maintain a deposit of manganese on the cathode in the presence of more noble metals, the ratio of the cathode current density to the anode current density being about 1 to 10.

2,316,751
LANDING INDICATOR
Charles Adler, Jr., Baltimore, Md.
Application June 20, 1942, Serial No. 447,814
3 Claims. (Cl. 88—1)



1. In an aeroplane, means carried by the aircraft for producing an illuminated spot on the ground disposed substantially within the confines of planes projected downwardly from the two ends of the aircraft when the wheels are within a critical zone of about 10 feet or less off the ground, and a mirror carried by the nose of the aircraft and disposed directly in the path of vision of the pilot when the plane is in said critical zone and being landed, the mirror being so positioned that the reflected beam from said ground spot is reflected by the mirror and visibly presented to the pilot only when the aircraft passes through said critical zone thereby advising the pilot of his position while allowing him to concentrate his eyes ahead and upon the landing field.

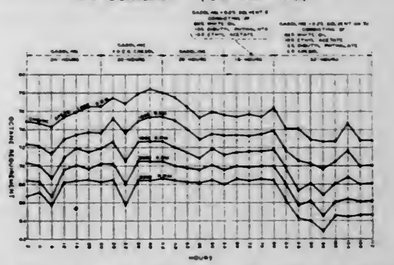
2,316,752
COATED WOODEN FORMS FOR CONCRETE
Clarence L. Atkinson, San Bruno, and George R. Maher, Burlingame, Calif., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 21, 1941, Serial No. 415,884
7 Claims. (Cl. 18—47)

1. A concrete form comprising a wooden member coated at least on the molding surface with a lacquer containing a cellulose derivative and at least one wax-like, water-repelling, adhesion-resisting agent.

2,316,753
METHOD FOR REMOVING WEAKLY ACIDIC SUBSTANCES FROM SUBSTANTIALLY NEUTRAL ORGANIC WATER-IMMISCIBLE LIQUID
George W. Ayers, Jr., Chicago, and Lawrence M. Henderson, Winnetka, Ill., assignors to The Pure Oil Company, Chicago, Ill., a corporation of Ohio
No Drawing. Application June 22, 1940, Serial No. 341,904
10 Claims. (Cl. 196—30)

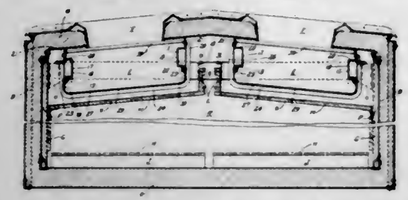
1. In a method for removing weakly acidic substances from substantially neutral organic water-immiscible liquids, the step which comprises contacting said liquids with an aqueous caustic alkali solution containing at least 10% by weight of free caustic alkali, an amount of alkali metal soap of naphthenic acid substantially in excess of that amount soluble in the caustic alkali solution in the absence of a solventizer and sufficient to materially enhance the ability of the caustic alkali solution to extract said acidic substances from substantially neutral organic water-immiscible liquids and a sufficient amount of solventizer to dissolve the soap.

2,316,754
GUM AND CARBON DEPOSIT SOLVENT AND METHOD OF USING THE SAME
William J. Backoff and Norman D. Williams, Chicago, Ill., assignors to The Pure Oil Company, Chicago, Ill., a corporation of Ohio
Application June 9, 1941, Serial No. 397,214
14 Claims. (Cl. 44—58)



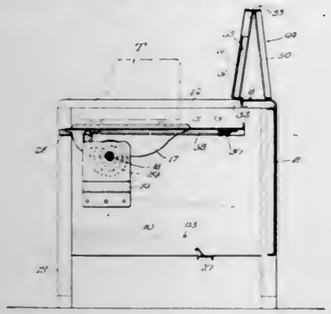
1. A composition useful as a gum solvent comprising 5% to 10% of material boiling above 350° F. having good gum solvent properties at elevated temperatures and selected from the group consisting of (1) esters of aliphatic dicarboxylic acids, esters of aromatic acids, cyclic ketones and aliphatic alcohols; 5% to 20% of material boiling below 350° F. having good gum solvent properties at ordinary temperatures and selected from the group consisting of (2) esters of aliphatic acids, aliphatic alcohols, aliphatic ketones, benzene, alkyl benzenes and aromatic naphtha; 5% to 20% of (3) hydroxy benzene and not less than 50% of a liquid vehicle for the aforesaid materials, which has good penetrating and wetting characteristics with respect to the gum to be treated.

2,316,755
REFRIGERATOR CAR
Wallace E. Baillie, Chicago, Ill., assignor to Standard Railway Devices Company, Chicago, Ill., a corporation of Delaware
Application December 15, 1941, Serial No. 422,938
12 Claims. (Cl. 62—17)



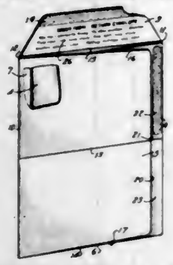
1. A refrigerant container for a refrigerator car having spaced apart walls and spaced apart carlines extending between and secured to said walls, opposite walls of said container formed with stiffeners which extend beyond the end walls of said container, means to secure said stiffeners to said carlines, a plurality of spaced apart U shape members, a bottom supported by said members and means to secure the upstanding legs of said members to said stiffeners.

2,316,756
TYPEWRITER DESK
Albert Balster, Chicago, Ill., assignor to Irene Balster, Chicago, Ill.
Application January 16, 1941, Serial No. 374,675
3 Claims. (Cl. 312—30)



1. A desk comprising a pair of laterally spaced side walls with inwardly and upwardly extending brackets on the inner faces of the front upper portions thereof, a top disposed over and across the side walls and having an opening therein over and communicating with the space between said side walls, a machine-supporting platform located in said space and having depending side pieces interposed between the upper portions of the brackets and said front upper portions of the side walls, pivot elements extending between and through the side pieces and said upper portions of the brackets for supporting the platform so that it is tiltable back and forth between an inoperative position wherein it is rearwardly and downwardly inclined and supports the machine beneath the top and an operative position wherein it is substantially horizontally positioned and supports the machine so that it projects through the opening and is accessible for use, and spiral springs under tension positioned around the elements and between the brackets and the side pieces and arranged so that they urge the platform into its operative position.

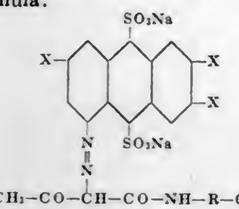
2,316,757
MAILING PIECE
Eugene B. Berkowitz, Kansas City, Mo., assignor to Berkowitz Envelope Company, Kansas City, Mo., a corporation of Delaware
Application January 18, 1941, Serial No. 375,039
1 Claim. (Cl. 229—92.7)



A mailing piece comprising a sheet of foldable material having a longitudinal line of fold and spaced transverse lines of fold to divide the sheet into front and back portions and side flaps on opposite sides of the front and back portions, said side flaps being adapted to be folded across said front and back portions with one of the side flaps overlapping the other, the underlying side flap being of substantially the width of the front and back portions between said transverse folds so that the free edge of said underlying flap is protected by the transverse fold between the overlying side flap and the front and back portions, said overlying side flap having the free edge spaced inwardly from the other transverse fold to leave a relatively narrow exposed area of said underlying flap, a sealing flap on one of said portions adapted to fold over the other portion when the mailing piece is folded on said longitudinal fold after folding of the side flaps, gum on the mailing piece for securing the sealing flap to said other portion when the sealing flap is folded, and gum substantially coextensive with said exposed area on one side of the longitudinal line of fold to sealingly engage said exposed area at the opposite side of the fold.

2,316,758
LEUCO SULPHURIC ACID ESTERS OF THE ANTHRAQUINONE SERIES
Eduard Besler, Frankfort-on-the-Main, Germany, assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application June 24, 1941, Serial No. 399,531. In Germany July 11, 1940
5 Claims. (Cl. 260—193)

1. The leuco sulphuric acid esters of the anthraquinone series corresponding with the following formula:

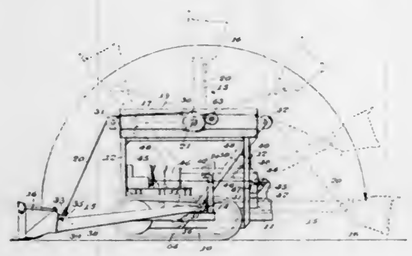


wherein two X's stand for hydrogen, the third X stands for a member of the group consisting of hydrogen and chlorine, and R represents a member of the group consisting of radicals of the benzene and naphthalene series; being easily soluble in water and yielding by acid oxidation in substance and on the fiber yellow to brown shades of good properties of fastness.

2,316,759
METHOD FOR REMOVING WEAKLY ACIDIC SULPHUR COMPOUNDS FROM HYDROCARBON LIQUIDS
Donald C. Bond, Northbrook, Ill., assignor to The Pure Oil Company, Chicago, Ill., a corporation of Ohio
No Drawing. Application July 2, 1941, Serial No. 400,801
14 Claims. (Cl. 196—30)

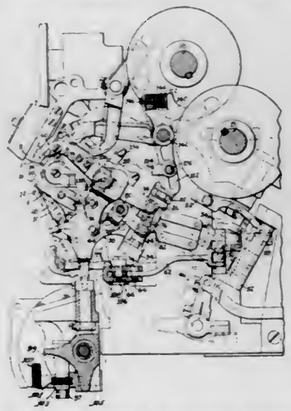
8. In a method for removing weakly acidic sulfur compounds from hydrocarbon liquids, the step which comprises contacting said liquids with aqueous solution containing not substantially less than 5% free alkali metal hydroxide, not substantially less than 5% acidic petroleum oxidation products obtained by the oxidation of relatively high molecular weight hydrocarbons and not substantially less than 5% solventizer for the oxidation products.

2,316,760
MATERIAL COLLECTING AND LOADING APPARATUS
Thomas K. Andersen, West New Brighton, and Tengel Andersen, Port Richmond, N. Y., assignors to Overhead Loader Corporation, Staten Island, N. Y., a corporation of New York
Application September 26, 1941, Serial No. 412,442
10 Claims. (Cl. 214—131)



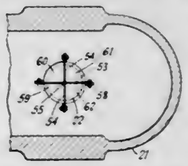
1. In combination with a self-propelling tractive vehicle having a roof, a receptacle, a pair of receptacle supporting arms pivoted adjacent the sides of said vehicle for swinging the receptacle in a vertical arc over said roof from a loading position at one end of the vehicle to a dumping position past the pivot points of said arms, power means for actuating said arms comprising a hydraulic ram mounted on said roof in the fore and aft line of the vehicle and motion translating connections also mounted on said roof and connected to the ram piston and the receptacle for converting the sliding rectilinear motion of the ram piston to rotary motion applied to the receptacle for swinging the receptacle upwardly from either said loading position or said dumping position past the pivot points of said arms, means for supplying pressure fluid to said ram, a valve in control of said pressure fluid, and a valve lever operatively connected to said valve.

2,316,761
SHOE SEWING MACHINE
Fred Ashworth, Wenham, and Carl F. Whitaker, Beverly, Mass., assignors to United Shoe Machinery Corporation, Borough of Flemington, N. J., a corporation of New Jersey
Original application March 22, 1939, Serial No. 263,455. Divided and this application July 18, 1940, Serial No. 346,160
21 Claims. (Cl. 112—47)



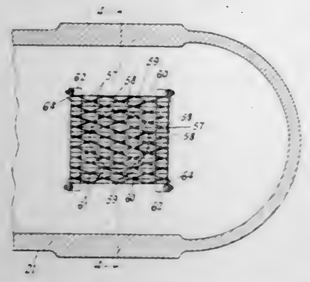
1. A lockstitch sewing machine having, in combination, stitch forming devices, and means for feeding the work operated upon by the stitch forming devices comprising a presser foot, and a cooperating work support having a pivotal mounting, the axis of which extends at an angle substantially less than 90° to the plane of the work engaging surface on the work support to cause the work support to move slightly towards and from the work during feeding movement.

2,316,762
BOILER CIRCULATION
Ervin G. Bailey, Easton, Pa., assignor to The Babcock & Wilcox Company, Newark, N. J., a corporation of New Jersey
Application July 3, 1940, Serial No. 343,707
20 Claims. (Cl. 122—406)



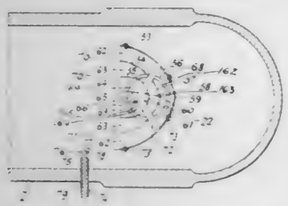
1. In a boiler having an elevated horizontally disposed drum adapted to contain circulating boiler liquid under pressure during normal operation, a plurality of vapor generating tubes having connections with said drum from their upper ends, means for conducting liquid from said drum to the lower ends of said tubes including a cylindrical conduit member in direct communication with the lower portion of said drum, means for maintaining a rate of flow into and through said conduit member conducive to vortical movement of the liquid entering said member from said drum, and means associated with the entrance to said conduit member from said drum for dividing said liquid into a plurality of streams for inhibiting said vortical movement.

2,316,763
BOILER APPARATUS
Howard J. Kerr, Westfield, N. J., assignor to The Babcock & Wilcox Company, Newark, N. J., a corporation of New Jersey
Application July 3, 1940, Serial No. 343,715
16 Claims. (Cl. 122—406)



1. A vapor generator having a circulatory system for liquid including a plurality of vapor generating tubes and an elevated drum, downcomer means for supplying the preponderance of liquid required for vapor generation within said tubes from said drum, means for generating vapor within said tubes at a rate requiring a rate of supply of liquid through said downcomer means conducive to gyratory movement of the liquid entering said downcomer means from said drum; and means forming a plurality of peripherally closed flow-directing channels for inhibiting gyratory movement of said entering liquid.

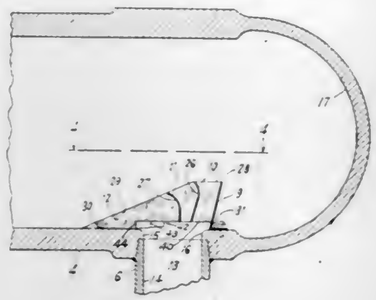
2,316,764
FLUID SYSTEM
Ralph M. Hardgrove, Westfield, N. J., assignor to The Babcock & Wilcox Company, Newark, N. J., a corporation of New Jersey
Application July 3, 1940, Serial No. 343,725
20 Claims. (Cl. 122—406)



1. In a fluid circulatory system, an elevated drum having closed ends horizontally spaced, said drum having inlet means for liquid intermediate said ends and means providing an outlet through which said liquid is discharged downwardly from a location adjacent one of said ends, said outlet being sufficiently large to permit liquid to be discharged therethrough under conditions conducive to a vortical disturbance within said drum, means for directing liquid into said outlet with minimum turbulence and loss of velocity head comprising means forming passages having entrances for liquid arranged transversely of said drum in advance of said outlet, said passages having lower portions open toward different flow-area units of said outlet, and means for preventing longitudinal flow of liquid beyond the rearward margin of said outlet.

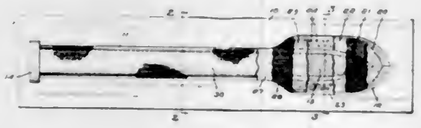
2,316,765
FLUID CIRCULATION APPARATUS
James C. Hobbs, Painesville, Ohio
Application July 31, 1940, Serial No. 348,840
11 Claims. (Cl. 122—406)

1. In combination, an elevated drum having inlet and outlet means for liquid at horizontally spaced locations, a conduit extending downwardly from said drum for conducting liquid discharged through said outlet means under conditions conducive to the formation of a vortex, and means for directing liquid into said outlet means with a minimum turbulence and loss of



velocity head comprising upwardly extending plates forming passages having entrances for liquid arranged transversely of said drum in advance of said outlet, said plates being formed and arranged to divide the approaching body of liquid into a plurality of streams of substantially the same proportionate cross-sectional areas for different levels of liquid within said drum.

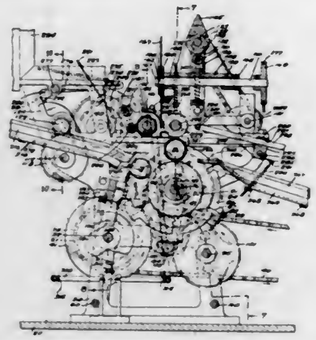
2,316,766
SCABBARD OR SHEATH
Edwin L. Beckwith, Brookline, and Charles P. MacIver, Newton, Mass., assignors to Beckwith Manufacturing Company, Dover, N. H., a corporation of New Hampshire
Application January 3, 1940, Serial No. 312,192
9 Claims. (Cl. 224—2)



9. A bayonet scabbard comprising an elongated hollow body having stiff, resilient walls consisting of canvas embedded in a hard shell of resin and having an external solid rib extending along its longitudinal edges and about its closed end, the canvas component of the scabbard structure being disposed in double thickness throughout substantially the entire length of the said external rib and being separated into single layers in the side walls of the scabbard, the walls of the scabbard being permanently spaced apart to enclose an opening greater in width than the thickness of the rib and said walls and rib together forming stiff T-shaped sections along both edges

of the scabbard, and a tubular metallic fitting surrounding the open end of the scabbard and having an inner lining of resin.

2,316,767
MACHINE FOR APPLYING STRIPS OF MATERIAL TO CURVED SURFACES
Frank L. Bradley, Ridgewood, and Emil Stumpp, Clifton, N. J., and William Jawurek, Bridgeport, Conn., assignors to E. V. Hadley, New York, N. Y.
Application June 7, 1941, Serial No. 397,036
20 Claims. (Cl. 154—41)



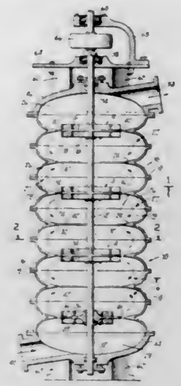
1. In a machine for applying strip material to cylindrical or drum-like surfaces, a supply of material, a support for a member carrying a cylindrical or drum-like surface, roller means engaging said surface, means for feeding said strip material to said surface, means for applying adhesive to said material, means including a blast of air for urging said material towards and starting said material between said roller means and said surface, means for cutting off said material at predetermined lengths, and means cooperating with said roller means and including a second blast of air for finishing off the trailing end of said material.

2,316,768
METHOD OF MAKING SCREEN STENCILS
Joseph B. Brennan and Leona Marsh, Euclid, Ohio; said Marsh assignor to said Brennan
No Drawing. Application June 20, 1939, Serial No. 280,132
8 Claims. (Cl. 41—38.5)

1. A process for the production of wire stencils which includes the steps of applying a thin layer of metal to an imperforate support, superimposing an image thereon of resist, etching the exposed areas of said thin metallic layer without etching the support, securing the etched metallic image so produced to a layer of wires or screen by a metallic bond, and then removing said support to produce an all metal stencil.

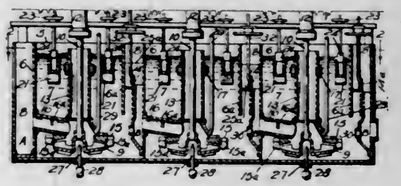
2,316,769
CONTINUOUS MIXER
Warren A. Chilson, Niagara Falls, N. Y., assignor to Masonite Corporation, a corporation of Delaware
Application August 3, 1940, Serial No. 350,879
10 Claims. (Cl. 259—9)

1. In a substantially vertically disposed mixer fed from the bottom and discharged from the top for materials comprising liquid material, a casing of generally cylindrical formation except that its interior is constricted at spaced-part zones, leaving parts of greater diameter between those zones, a series of rotary impellers comprising a central disc and upper and lower vanes, with such central disc opposite constructions in the casing to provide narrow but freely open annu-



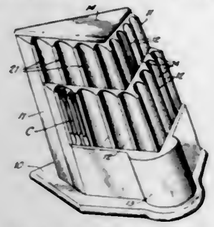
lar passages therebetween, and means for travelling the materials to be mixed and including liquid material through said casing against the action of gravity, said lower vanes adapted to move portions of the liquid material generally outwardly across the path of the traveling materials and to be then deflected backwardly toward the zones of greater diameter.

2,316,770
FROTH FLOTATION APPARATUS AND TREATMENT
Arthur C. Daman, Leland H. Logue, and Thomas S. Bailey, Jr., Denver, Colo., assignors to Mining Process and Patent Company, Denver, Colo., a corporation of Delaware
Application May 27, 1940, Serial No. 337,420
6 Claims. (Cl. 209—169)



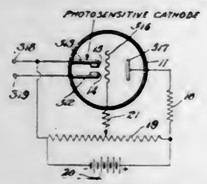
1. Froth flotation apparatus comprising a cell having a feed inlet and a discharge outlet determining a liquid level therein, a froth overflow adjacent the liquid level in the cell, a rotary impeller in the lower portion of the cell, a hood covering the impeller, a hollow column supported on the hood and extending above the liquid level in the cell, said column having a pulp intake opening below the liquid level in the cell, means for delivering gas under pressure into the hood enclosure of the impeller, and a diaphragm member separating the hood enclosure from the hollow column and having a restricted passage for the delivery of matter from the hollow column to the impeller.

2,316,771
DISPLAY RACK
Edward D. Davis, Chicago, Ill., assignor to The Boye Needle Company, Chicago, Ill., a corporation of Illinois
Application April 2, 1941, Serial No. 386,414
6 Claims. (Cl. 211—13)



1. A rack of the class described adapted to stand in an upright position and having a lateral and rearwardly inclined face in which is formed a row of parallel grooves closed at the bottom and adapted to hold crochet hooks or the like, each groove having its axis in a vertical plane longitudinally bisecting the groove and having a high side and a low side, the high side having a gradual curve to facilitate the removal of a crochet hook from that side while the low side has a sharp curve to retard removal of the hooks, the lower portion of the row of grooves being covered.

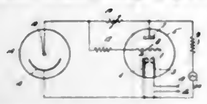
2,316,772
PHOTOELECTRIC-CONTROLLED GAS-DISCHARGE TUBE
Edward Charles Dench, South Orange, N. J.
Application March 2, 1940, Serial No. 321,936
3 Claims. (Cl. 250—41.5)



1. In combination, a gas-containing tube having two electrodes, namely, an anode and a photosensitive electron-emitting cathode, and having also a third electrode, cooperating contact members carried by the cathode and the third electrode, means for connecting a load circuit to the cathode and the third electrode, means for applying a voltage across the cathode and the anode, and means for regulating the voltage to a critical value corresponding to a level of illumination on the cathode such that the cathode shall respond to emit sufficient electrons for initiating a gaseous discharge between the anode and the cathode, thereby to produce positive ions for striking the cathode to heat it, and the cathode being deformable in response to heat to effect actuation of the contact member carried thereby with respect to the other contact member, thereby to control the load circuit.

2,316,773
ELECTRIC DISCHARGE TUBE
Edward Charles Dench, South Orange, N. J.
Application March 14, 1940, Serial No. 323,946
3 Claims. (Cl. 250—27.5)

1. An electric-discharge tube having a gas-containing envelope enclosing an anode and a thermally-responsive cathode, and a control electrode therein for controlling a gaseous discharge



between the cathode and the anode, said cathode comprising a bi-metallic strip.

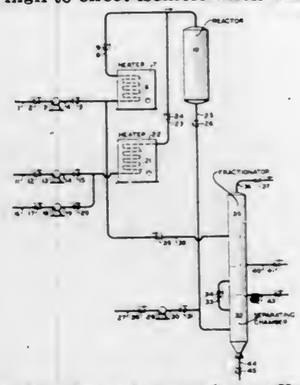
2,316,774
TREATMENT OF FATTY SUBSTANCES
Russell P. Dunmire and James A. Camelford, Cleveland, Ohio, assignors to The Buckeye Laboratories, Inc., a corporation of Ohio
No Drawing. Application September 6, 1941, Serial No. 409,860
5 Claims. (Cl. 260—412.5)

1. In a re-refining process utilizing a combined action of adsorption and distillation for a contaminated or used palm oil which contains soluble metallo-organic contaminants of a relatively low molecular weight and soluble metallo-organic contaminants of a relatively high molecular weight and polymers thereof, the steps of pre-conditioning the metallo-organic contaminants in the palm oil before subjecting the contaminated or used palm oil to the combined action of adsorption and distillation, comprising, adding potassium dichromate to the contaminated or used palm oil and agitating and heating the same in a sealed container under vacuum to chemically condition the relative low molecular weight metallo-organic contaminants by separating the metal portion thereof in the form of low molecular weight compounds to render same readily adsorbable by the adsorption action in the re-refining process and by releasing the organic portion thereof to render the same readily removable by the distillation action in the re-refining process and to chemically condition the relative high molecular weight metallo-organic contaminants and the polymers thereof by separating the metal portion thereof in the form of low molecular weight compounds to render same readily adsorbable by the adsorption action in the re-refining process and by releasing the organic portion thereof to render the volatile fractions thereof readily removable by the distillation action in the re-refining process.

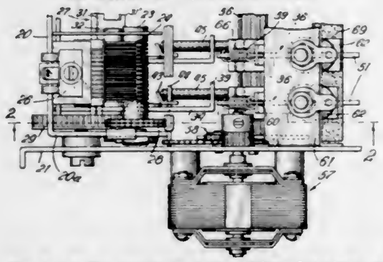
2,316,775
TREATMENT OF HYDROCARBONS
Gustav Egloff, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application January 27, 1941, Serial No. 376,031
7 Claims. (Cl. 196—10)

1. A process for the production of more valuable products from normal paraffins and olefins which comprises vaporizing aluminum chloride, simultaneously heating the normal paraffin to a temperature below the sublimation temperature of the aluminum chloride but to a temperature sufficiently high to effect isomerization when the aluminum chloride and normal paraffin are combined, combining the normal paraffin with the aluminum chloride vapors whereby to condense the latter, isomerizing the normal paraffin to a branched-chain paraffin in the presence of the sublimed aluminum chloride, adding an olefin to the resulting mixture of conversion products and aluminum chloride and alkylating the branched-chain paraffin with said olefin.

7. A process for the production of more valuable products from normal paraffins which comprises vaporizing aluminum chloride, simultaneously heating the normal paraffin to a temperature below the sublimation temperature of the aluminum chloride but to a temperature sufficiently high to effect isomerization when the aluminum chloride and normal paraffin are combined, combining the normal paraffin with the aluminum chloride vapors whereby to condense the latter, and isomerizing the normal paraffin to a branched-chain paraffin in the presence of the sublimed aluminum chloride.



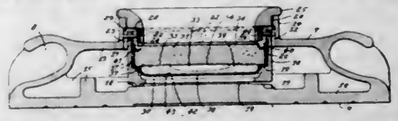
2,316,776
ELECTRICAL CONTROL APPARATUS
Harold F. Elliott, Palo Alto, Calif.
Application September 21, 1940, Serial No. 357,745
20 Claims. (Cl. 192—142)



1. In a radio tuning apparatus having rotary control means, a selector unit for rotating said control means to a predetermined control position and including an actuator portion and an operator portion, adjustable means operatively connected with said operator portion and movable thereby into operating position with said rotary control means, electrical means for driving said selector unit, spring-pressed means connected to said actuator portion, said latter means on movement thereof in one direction cooperating with said actuator portion to operatively connect said operator portion and electrical means, and means for moving said spring-pressed means in said one direction substantially concurrently with the energization of said electrical means.

2,316,777
MACHINIST'S PRECISION LEVEL
William B. Fell, Rockford, Ill.
Application August 1, 1940, Serial No. 349,133
20 Claims. (Cl. 33—212)

1. A level of the character described comprising a horizontal frame having a spherical surface thereon, a level unit including a receptacle and a lens therein together with a pool of liquid containing a circular air bubble movable under a spherical surface provided on the bottom of the lens relative to graduation lines also provided on the lens extending at right angles to one another, an adjustable support for the level unit having means slidably contacting the first-named spher-

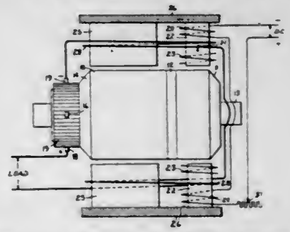


ical surface on the frame, the second-named spherical surface on the lens being on a center on the same vertical axis with the center of the first-named spherical surface, and means at right angles to one another and also at right angles to the graduation lines aforesaid for adjusting said support on the first-named spherical surface on the frame.

2,316,778
METALLIC PACKING AND METHOD OF MAKING THE SAME
John J. Fiechter, Willow Grove, Pa.
No Drawing. Application August 8, 1939, Serial No. 288,978
5 Claims. (Cl. 252—29)

4. A self-lubricating metallic packing, comprising flakes of soft metal and particles of lubricating material of the class consisting of graphite and soapstone and in an amount sufficient to completely coat the flakes, the lubricant being bonded to the flakes by a thin carbonized binding film carbonized by baking said binder-coated metal flakes while in contact with said particles of lubricating material at a temperature and for a time sufficient to carbonize said binder but insufficient to destroy the identity of the metal flakes as flakes, and the metal flakes maintaining their individuality as flakes whether the packing is used in loose form or is molded into ring or other shapes.

2,316,779
DYNAMOELECTRIC MACHINE
Alec Fisher, Lynn, Mass., assignor to General Electric Company, a corporation of New York
Application May 13, 1942, Serial No. 442,744
10 Claims. (Cl. 171—223)



1. A dynamo-electric machine including a stationary member and a rotatable member having a core of magnetic material, means including a non-magnetic spacer in said core for dividing said core into a pair of magnetically substantially separate sections, a winding in said rotatable member core, a commutator connected to said winding, means including a set of primary brushes and a set of secondary brushes displaced about said commutator from said primary brushes for providing a primary circuit and a secondary

circuit respectively through said rotatable member winding, said stationary member including magnetic core sections for providing exciting poles to said machine over each rotatable member core sections with magnetically substantially separate stationary core sections over different of said rotatable member core sections, a control field exciting winding arranged to excite said stationary core section over one of said rotatable member core sections, and means for substantially neutralizing primary and secondary armature reaction in only said control stationary core section due to electric current in said rotatable member primary and secondary circuits.

2,316,780

FILM HANDLING APPARATUS

Warren Dunham Foster, Eustis, Fla., and Frederick Davenport Sweet, deceased, late of New York, N. Y., by Gertrude Sweet, administratrix, New York, N. Y., assignors to Kinatome Patents Corporation, Ridgewood, N. J., a corporation of New York

Original application April 21, 1933, Serial No. 667,174. Divided and this application January 29, 1941, Serial No. 376,442

36 Claims. (Cl. 88—16.2)



1. In an apparatus for handling a sound film, a sound head, means for moving a film past said sound head, operable damping means for imparting regularity of movement to the film as it is moved past said sound head, control mechanism for rendering said damping means selectively and alternatively effective upon the film as it is fed past said sound head and ineffective thereupon while it is being so fed, and actuating means operated by the film as it is fed past said sound head for operating said control mechanism.

2,316,781

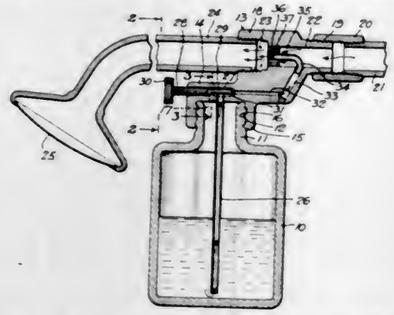
SOLUTION MIXING AND DISPENSING DEVICE

Ellis W. Fox, Alhambra, Calif., assignor of one-third to Ruth F. Barnard, Glendale, Calif., and one-third to Florence H. Chapman, Glendora, Calif.

Application February 12, 1941, Serial No. 378,543

2 Claims. (Cl. 299—83)

1. A dispensing device for liquids comprising: a receptacle adapted to contain a solution to be dispensed; a body having a vented cap portion applied to the receptacle to close the latter; the body having co-axially related intake and outlet passages and an intervening mixing chamber; a suction tube depending from said cap portion into the receptacle; the body having a connecting passage with which said tube communicates laterally, said connecting passage terminating in an oblique passage communicating with the intake passage in a direction towards the inlet end of the latter; a solution nozzle having an elbow portion projecting from the oblique passage and a rectilinear portion co-axially related to the intake passage, with the orifice of the nozzle at and facing towards the mixing chamber; means de-



fining an annular restriction surrounding said rectilinear portion of the nozzle to provide a zone of sufficiently increased velocity of liquid delivered under pressure to the intake passage that solution will be sucked from the receptacle and will discharge from said orifice to mix in said chamber with the liquid, whereby to dispense treated liquid from the outlet passage; a valve seat in said connecting passage between the suction tube and intake passage; and a valve adjustably mounted in said connecting passage for co-action with said seat in varying the flow of solution under the induced suction.

2,316,782

PROCESS OF PRODUCING MULTICOLOR IMAGES

Béla Gaspar, Brussels-Forest, Belgium, assignor to Chromogen, Incorporated, a corporation of Nevada

No Drawing. Application January 9, 1940, Serial No. 313,121. In Great Britain December 9, 1937

11 Claims. (Cl. 95—2)

1. A process of producing multicolor images from an exposed light-sensitive multilayer material having a support and at least three gelatin layers in superposition on said support, two of said layers containing latent photographic image records constituting two different part images of the multicolor image and one of said layers being an infrared-sensitive intermediate silver halide emulsion gelatin layer between said two layers, which comprises developing the latent images with a color developer which act to form the same azo-methine dye within the image-bearing layers, exposing the material to infrared light and developing the exposed silver halide with a tanning developer which acts to tan the gelatin in situ with metallic silver formed within the intermediate layer and thereafter decolorizing the dye image within the outer layer, exposing the film to white light, developing the outer layer with a color developer yielding a different color and removing the silver from said image-bearing layers and from said intermediate layer.

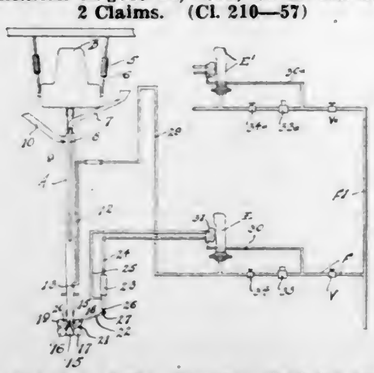
2,316,783

COMPACTION SEPARATOR

James F. Geary, Salt Lake City, Utah

Application August 14, 1939, Serial No. 290,048

2 Claims. (Cl. 210—57)



1. A device of the class described for separating liquids from solids comprising a compaction tube, a vibrator attached to said tube to vibrate the tube and contents, a feed pipe leading down into said compaction tube to introduce material therein, a flexible member on the bottom end of said compaction tube, valve means to control the flow of material through said flexible member, an air conduit leading into said compaction tube, with the end thereof near the lower end of said compaction tube, means to introduce air through said conduit into said compaction tube, fluid pressure means to actuate said valve, means operated by the air in said conduit as pressure therein varies to control the flow of fluid to said fluid pressure means, the pressure of the air in said conduit varying with the resistance offered by the solids in said compaction tube to the flow of air through said conduit into said tube.

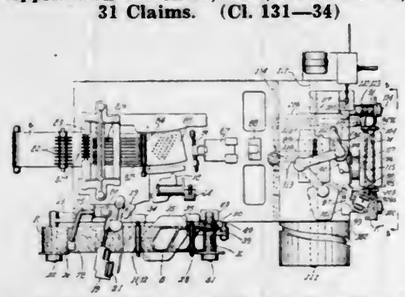
2,316,784

BINDER AND WRAPPER MATERIAL FEED FOR CIGAR MACHINES

Frederick C. Gladeck, Brooklyn, N. Y., assignor to International Cigar Machinery Company, a corporation of New Jersey

Application March 22, 1935, Serial No. 12,508

31 Claims. (Cl. 131—34)



1. In a cigar machine, the combination with a cigar machine cutting bed provided with a cutting die, of a source of supply of cigar forming sheet material, automatic means for feeding and stretching said sheet material over said cutting die and bed, mechanism coacting with said die to cut a section from the stretched sheet material, and means for transporting the severed section away from said cutting die and bed while maintaining the same in stretched condition.

2,316,785

METHOD OF MAKING CIGARS

Frederick C. Gladeck, Brooklyn, N. Y., assignor to International Cigar Machinery Company, a corporation of New Jersey

Application November 3, 1938, Serial No. 238,521

14 Claims. (Cl. 131—8)



1. The unitary mechanical method of making cigars which comprises the steps of forming a filler charge, stretching sheet binder material and then cutting a binder therefrom, applying the cut binder to the filler charge to form a bunch, stretching pulped sheet wrapper material and then cutting a wrapper therefrom, and applying the cut wrapper to the bunch to form a cigar, all of said steps being performed as exclusively mechanical operations.

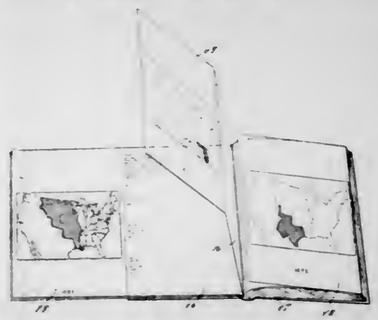
2,316,786

CARTOGRAPHIC DEVICE

Gerald H. Gottlieb, New York, N. Y.

Application September 27, 1940, Serial No. 358,653

6 Claims. (Cl. 35—40)



1. As a new article of manufacture, a set of assembled pages secured along one marginal edge in substantially the form of a book, certain of said pages each having a portion foldable hingedly along an edge other than said secured edge to overlie the remainder of the page and adapted to be turned in folded position with the page, or to be turned with the page in unfolded condition to an observation position, at least some of said portions being substantially transparent and bearing indicia, whereby any desired combination of said portions may be selectively superimposed in unfolded condition on one another for observation.

2,316,787

SEPARABLE FASTENER

Sheldon D. Gould, Brooklyn, N. Y.

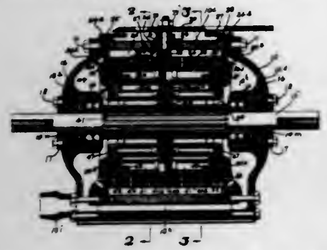
Application September 13, 1941, Serial No. 410,700

5 Claims. (Cl. 24—205)



4. A stringer for slide fastener elements comprising a tape, a strip folded over one longitudinal edge of said tape and stitched thereto, said strip having integrally formed opposed flaps arranged to conceal fastener elements mounted on said stringer.

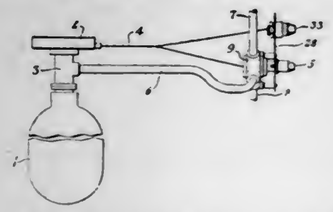
2,316,788
FLUID MOTOR
Joseph O. Hamren, Minneapolis, Minn.
Application February 12, 1941, Serial No. 378,518
14 Claims. (Cl. 121—93)



9. A fluid motor having in combination, an outer casing, an inner casing within said outer casing, a shaft journaled in said outer casing, a rotor secured to said shaft having a central portion extending transversely of said inner casing and two series of oscillating vanes carried by said portion, said series being disposed at each side of said portion respectively, said vanes revolving with said rotor in said inner casing, members on which said series of vanes respectively rotate, said members having discharge passages therethrough, means for supplying fluid under pressure to each series of vanes for rotating said rotor and discharge passages for said fluid leading from said members.

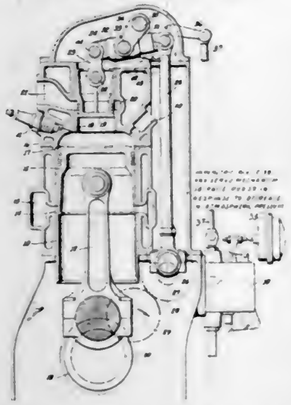
14. A fluid motor having in combination, an outer casing, an inner casing within said outer casing having a cylindrical inner wall, a shaft journaled in said outer casing and extending therethrough, a rotor secured to said shaft having a disk-like central portion extending transversely of said inner casing and to said inner wall thereof, thus dividing said inner casing and two series of oscillating vanes carried by said portion, one at each side thereof, said vanes revolving with said rotor in said inner casing, members on which said series of vanes respectively rotate, said members having discharge passages therethrough and having discharge passages at the remote ends of said inner casing, and means for supplying fluid under pressure to each series of vanes for rotating said rotor whereby a fluid balance is maintained longitudinally of said shaft.

2,316,789
HIGH PRESSURE FLUID MEDIUM DISTRIBUTION SYSTEM
Henry Ernest Heigis, West Orange, and Archie Towart, Jr., Caldwell, N. J., assignors to Specialties Development Corporation, Bloomfield, N. J., a corporation of New Jersey
Application June 14, 1938, Serial No. 213,596
8 Claims. (Cl. 169—2)



7. A fire extinguishing system comprising a flask of compressed extinguishing gas, a pipe system connecting it to a plurality of outlets, a rotary selector valve element in said system having different stations for respectively directing discharged gas to a selected one of said outlets, a gas release element movable in an axial direction with respect to said rotary element to open said flask, and an operating unit comprising a handle and a link member extending into said valve element being axially movable with respect to and out of said element and adapted for rotatably operating said element and for axially operating said gas release element.

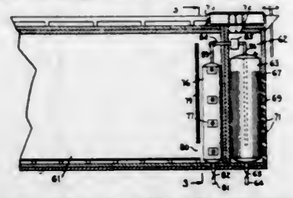
2,316,790
INTERNAL COMBUSTION ENGINE
Henri J. Hickey, Beverly Hills, Calif.
Application September 2, 1941, Serial No. 409,219
7 Claims. (Cl. 123—48)



1. In an internal combustion engine a working cylinder and a working piston reciprocable therein, an auxiliary cylinder communicating with said working cylinder, an auxiliary piston in said auxiliary cylinder, said cylinders and pistons defining a combustion chamber, means for reciprocating said auxiliary piston in synchronism with said working piston and for varying the stroke of said auxiliary piston to vary the compression ratio of the engine, said means including an extensible rocker arm, means fulcruming said rocker arm for rocking movement, means linking one end of said rocker arm to said auxiliary piston, means for reciprocating the other end of said rocker arm in response to reciprocation of said working piston, and means for varying the length of said rocker arm on one side of said fulcrum means, whereby the extent of rocking movement of said one end of the rocker arm is changed relative to the movement of the other end.

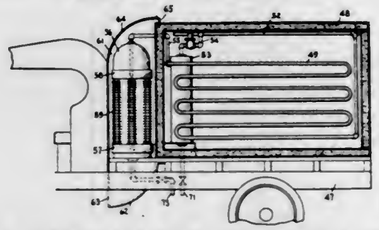
2,316,791
REFRIGERATING SYSTEM
Oliver C. Irwin, New York, N. Y., assignor, by mesne assignments, to Standard Cap and Seal Corporation, Chicago, Ill., a corporation of Virginia
Application September 12, 1932, Serial No. 632,740
6 Claims. (Cl. 62—5)

5. A refrigerated unit comprising a body, an evaporator of an absorption refrigeration system mounted in the body and having refrigerant storage capacity, an absorber for the spent refrigerant mounted outside said body, a pipe connection from the evaporator to the absorber, and a regulator valve mounted in said pipe connection so as to regulate the temperature of said



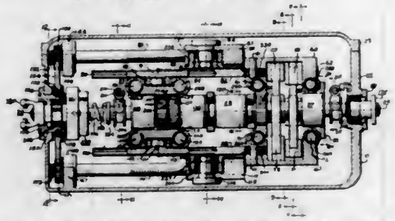
body in accordance with the pressure in said evaporator.

2,316,792
REFRIGERATING SYSTEM
Oliver C. Irwin, New York, N. Y., assignor, by mesne assignments, to Standard Cap and Seal Corporation, Chicago, Ill., a corporation of Virginia
Application September 12, 1932, Serial No. 632,741
8 Claims. (Cl. 62—93)



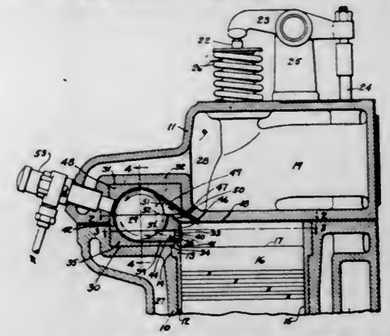
1. A refrigerated truck comprising a chassis having a driver's cab and an insulated body carried by the chassis, an evaporator carried by the body, cooling coils connected to the evaporator and disposed on the interior of the body, an absorber of an absorption refrigeration system mounted outside of the body and connected to the cooling coils, means whereby the evaporator and absorber may be periodically re-supplied with fresh refrigerant and absorbent respectively, and a chimney surrounding said absorber to direct air thereover.

2,316,793
INFINITELY VARIABLE SPEED TRANSMISSION
William Horace Johnson, Cranston, R. I., assignor to Weskenson Corporation, Providence, R. I., a corporation of Rhode Island
Application January 22, 1940, Serial No. 314,930
31 Claims. (Cl. 74—124)



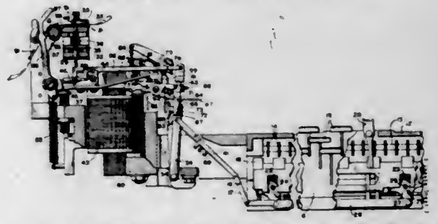
1. In a transmission, a drive shaft having a segment gear, first and second racks mounted on opposite sides of said shaft for reciprocating movement transversely of said shaft, said racks being engageable alternately with said segment gear, control means for reciprocating said racks for causing each rack, at the beginning of its power stroke, to engage said gear at proper linear speed, said control means decelerating each rack at the end of its power stroke after disengagement with said segment gear, imparting a quick return to said rack and decelerating it at the end of its return stroke, and accelerating said rack at the beginning of its power stroke, said segment gear engaging the advancing rack before disengaging the other.

2,316,794
COMBUSTION CHAMBER
George T. Johnson, Denver, Colo.
Application July 24, 1941, Serial No. 403,791
4 Claims. (Cl. 123—32)



4. In an internal combustion engine of the fuel injection compression ignition type having a cylinder block provided with a cylinder bore, a cylinder head having an inner face extending across one end of the bore, and a piston slidably mounted in the bore, the walls of the cylinder block and the cylinder head having a combustion chamber of substantially circular cross section closely adjacent and at the side of the cylinder bore, the top of the combustion chamber being above the lower surface of the cylinder head, and walls forming an upwardly and outwardly extending passageway communicating between the cylinder bore and the combustion chamber, above the upper limit of piston travel, the cylinder wall having another passageway communicating the interior of the combustion chamber with the cylinder bore at a point below the top of the piston travel, the two passageways opening tangentially into the combustion chamber and converging towards the center of the cylinder bore.

2,316,795
KEYBOARD PERFORATOR
Ross A. Lake, Oak Park, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application July 5, 1941, Serial No. 401,113
34 Claims. (Cl. 164—113)



1. In a perforator, an electromagnetically controlled punch actuator, a circuit therefor, a contact in said circuit, control means for said con-

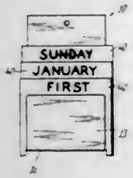
tact, and means effective by the actuation of said actuator to supplement the prior control of said control means to preclude premature reoperation of said actuator.

2,316,796
TISSUE CONTAINER
Malvin Lichter, New York, N. Y., assignor to Stickless Corporation, New York, N. Y., a corporation of New York
Application October 30, 1940, Serial No. 363,464
2 Claims. (Cl. 206—57)



1. A packet for enclosing a stack of flexible sheets, comprising a top wall and front and rear walls adjacent said top wall, a perforation in said top wall extending into said front wall, said perforation exposing an edge of said stack of flexible sheets to permit the grasping of a single sheet along the exposed edge and withdrawing the same through said perforation; the top wall sections on either side of said perforation providing abutments for precluding the withdrawal of additional sheets; and means including said front and rear walls for maintaining said sheets substantially flat within said packet, and a flap extending from said rear wall and adapted to cover said perforation in said top wall and front wall; means in said front wall for securing said flap.

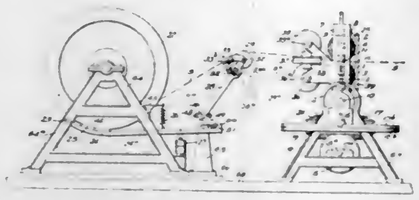
2,316,797
WALL POCKET
Malvin Lichter, New York, N. Y.
Application February 5, 1941, Serial No. 377,479
1 Claim. (Cl. 40—124)



A wall pocket having a back wall and a front wall, means on said back wall for suspending said wall pocket; said back wall and said front wall being formed from a single continuous sheet bent into pocket defining relationship; a reinforcing member stiffening said back wall and front wall in said wall defining relationship, and calendar sheets for cooperating with said pocket; each of said calendar sheets having a base resting on the bottom of said pocket and legs extending beyond the base, said sheets being wider than said pocket, said legs extending beyond the bottom of said pocket the inner edges of said legs abutting against the edges of the bottom of said pocket.

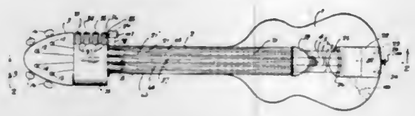
2,316,798
KINETIC PROJECTOR
Cletus L. Luebbe, Fort Totten, Long Island, N. Y.
Application January 19, 1939, Serial No. 251,747
19 Claims. (Cl. 242—54)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

13. A mechanism for projecting cable to a distance comprising a support and a system of projection rollers mounted on the support, said rollers being maintained in yieldable frictional contact and between which the cable is fed; a cable supply reel; means for controlling the reel including a brake for the reel; means for yieldably holding the brake in braking contact with said reel; means co-acting with the brake and cable to operate the brake in response to tension applied to the cable, said means including an arm pivoted for movement in a vertical plane centrally of said reel, a grooved carrier wheel for engaging the cable



swivelled on said arm, and a tubular element attached to said arm acting to center and guide the cable in its travel over the carrier wheel, said element being provided with means to permit removal of the cable; auxiliary guide rollers, including an intermediate guide element to maintain the cable in proper feeding position in relation to said last-named rollers, said element being formed as a two-part structure and provided with means to permit removal of the cable without cutting; and said means including a crank connected with said arm and slidably connecting said brake to release the brake when the cable is tensioned.

2,316,799
STRINGED MUSICAL INSTRUMENT
John W. McBride, Burbank, Calif.
Application April 14, 1941, Serial No. 388,379
10 Claims. (Cl. 84—315)



1. In a stringed musical instrument, means for tensioning a string between two fixed points, and means for adjusting the free length of the string, comprising a rotatable rod having a helical-like crest for engaging the string.

2,316,800
STRINGED MUSICAL INSTRUMENT
John W. McBride, Burbank, Calif.
Application September 15, 1941, Serial No. 410,813
10 Claims. (Cl. 84—315)

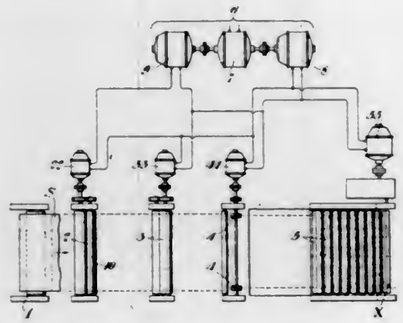
1. In a stringed musical instrument, means for tensioning a string between two fixed points, and

means for adjusting the free length of the string, comprising a rotatable rod having means form-



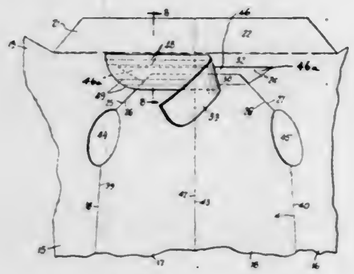
ing a plurality of axially as well as angularly spaced teeth for successively engaging the string.

2,316,801
APPARATUS FOR OPERATING ON STRIP METAL
William H. McLaughlin and George H. Rendel, Gary, Ind.
Application December 26, 1940, Serial No. 371,758
4 Claims. (Cl. 164—61)



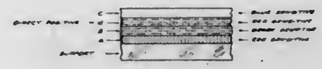
1. Apparatus for operating on strip metal comprising a pair of spaced rolls between and partially around which the strip is wrapped; a second pair of spaced rolls between and partially around which the strip is wrapped; a side trimmer; means for driving said second named pair of rolls and said side trimmer in electrical synchronism, and means for restraining the rotation of said first named pair of rolls.

2,316,802
GARMENT WITH ADJUSTABLE COLLAR
Ciro Merola, Bayonne, N. J.
Application December 2, 1941, Serial No. 421,261
7 Claims. (Cl. 2—98)



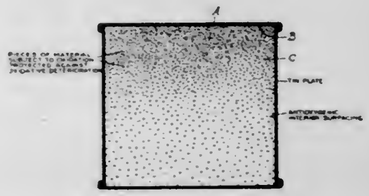
1. In a garment, two sections connectable at the front, a collar body for said garment, said collar body connecting with said sections and having a fold line, a back for said garment having its upper portion free of direct connection from said collar body, and a flat flexible member secured to said collar body adjacent said fold line and to said upper portion, whereby severance of said securing means will permit said collar body to be moved relative to said back.

2,316,803
PHOTOGRAPHIC MATERIAL FOR TAKING COLOR PHOTOGRAPHS
Walter Michaelis, Brussels-Forest, Belgium, assignor, by mesne assignments, to Chromogen, Incorporated, a corporation of Nevada
Application December 23, 1939, Serial No. 310,847
In Great Britain December 28, 1938
10 Claims. (Cl. 95—2)



1. The process of producing a multicolor image on a light-sensitive photographic multilayer film having a transparent support and at least three light-sensitive silver halide emulsion layers inseparably united with said support, two of said layers being sensitized to record light rays of substantially the same color and the third layer being sensitized to record differently colored light, which comprises exposing simultaneously the said three layers to a multicolored object illuminated with composite light to thereby record latent images in all of the light-sensitive layers, converting the latent images within said first mentioned two layers into dye images of opposite density gradation and of different colors having partly overlapping absorption, converting the latent image within said third layer into a dye image of a color which is highly transparent for light for which only one of the other images is strongly absorbent and which is strongly absorbent for light of a spectral region in which the absorptions of the two other images overlap each other.

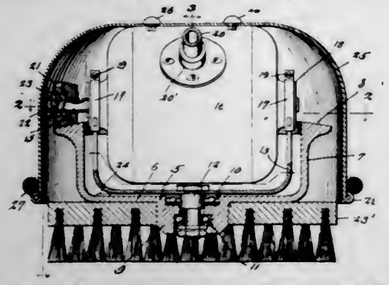
2,316,804
TIN CAN CONTAINER
Sidney Musher, New York, N. Y., assignor to Musher Foundation, Incorporated, New York, N. Y., a corporation of New York
Application May 2, 1939, Serial No. 271,261
6 Claims. (Cl. 220—64)



1. A tin can container carrying on the inner surfaces thereof a very thin film of only a viscous, oily, alcohol free, alcoholic extract of finely di-

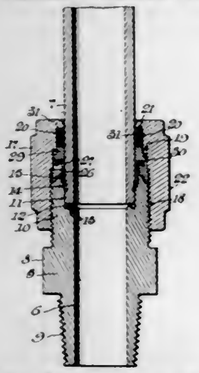
vided vegetative substance capable of substantially protecting oxidizable organic compositions contained therein.

2,316,805
FLOOR CONDITIONING MACHINE
Henry Dale Overholser, Tujunga, Calif., assignor of one-half to Frank R. Crandall, Los Angeles, Calif.
Application May 20, 1942, Serial No. 443,802
3 Claims. (Cl. 15—49)



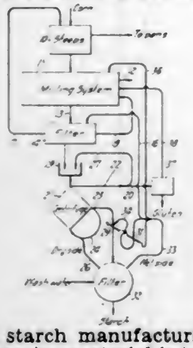
1. In a floor surface conditioning machine, a rotary brush-carrying body, a substantially U-shaped motor bracket mounted within the body, clamping arms at the ends of the bracket and adapted to embrace the hubs of an electric motor, supporting the motor within the body, means for moving the clamping arms into gripping relation with the hubs of the motor, whereby said motor is held in various positions of rotary adjustment, within the bracket, a handle rigidly secured to the motor, and by means of which the machine is guided, and means for directing rotary movement of the motor to said rotary body.

2,316,806
TUBE COUPLING
Arthur L. Parker, Cleveland, Ohio
Application March 14, 1941, Serial No. 383,420
3 Claims. (Cl. 285—167)



1. A coupling for tubes comprising a body member having a bore to receive the tube end and a seat within the bore for the end of the tube, a metal sleeve surrounding the tube and having positive gripping engagement with the tube for pressing the same endwise into sealing engagement with the seat on the body member, a ring surrounding the tube and engaging the outer end of said sleeve, a deformable gasket surrounding the tube and engaging the outer end of said ring, a nut having threaded engagement with the body member and recessed to receive the ring and gasket, said nut having a shoulder engaging the gasket and compressing the same against the ring for expanding the gasket into engagement with the tube for damping vibrations therein, said nut having a second shoulder engaging the ring for positively forcing the sleeve and tube endwise against the seat.

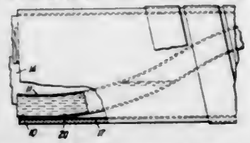
2,316,807
STARCH MANUFACTURING PROCESS
Albert Peltzer, San Francisco, Calif.
Continuation of application Serial No. 743,529, September 11, 1934. This application March 25, 1938, Serial No. 198,089
12 Claims. (Cl. 127—68)



1. In a wet starch manufacturing process in which starch bearing material is treated by milling operations to form a mill starch stream containing fine slop, the improvement comprising dewatering the mill starch stream to form a cake, repulping the cake, subjecting the repulped material to a centrifugal separating operation whereby gluten is discharged in an overflow and starch is discharged in an underflow, the centrifugal separating operation also serving to effect a classification of the fine slop whereby a part of the fine slop passes out in the gluten overflow and the remainder of the slop passes out with the starch in the underflow, utilizing a part of the gluten overflow to repulp said cake whereby the overflow is thickened, subjecting the gluten overflow to dewatering without gravity settling, to effect removal of gluten together with slimes or like products resulting from the growth of micro-organisms or bacteria, and then subjecting the starch underflow to screening for the removal of slop therefrom.

5. In a wet starch manufacturing process in which starch bearing material is treated in steeping and milling operations to afford a mill starch stream, the improvement comprising subjecting the mill starch stream to filtration, subjecting the filter cake during said filtering operation to washing by liquor containing a relatively low percentage of solubles, removing a wet side filtrate from said filtering operation which contains a relatively high percentage of solubles, removing a dry side filtrate which contains a substantially lower percentage of solubles, utilizing said wet side filtrate to carry on said steeping operation, utilizing said dry side filtrate for washing operations in the milling system, effecting a repulping of the filter cake to form a starch bearing liquor relatively higher in gravity than the original mill starch stream, subjecting said repulped material to primary separation for the removal of starch from a gluten overflow, and using a part of said overflow for said repulping operation.

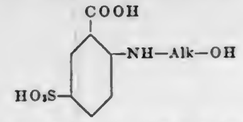
2,316,808
ELECTRIC CABLE
Thomas F. Peterson, Worcester, Mass.
Application November 28, 1939, Serial No. 306,523
5 Claims. (Cl. 174—13)



1. Cable comprising in combination a conductor, insulation about the conductor including an oil, a fluid-tight sheath about the insulation, and means within the sheath providing a gas cushion in restricted contact with the oil, said means comprising a gas reservoir of anticline configuration having an impermeable wall providing a dome for trapping the gas, and an opening in a limb of the reservoir permitting contact between the trapped gas and the oil external to the reservoir.

2,316,809
2-HYDROXY-ALKYLAMINO-5-SULPHO-BENZOIC ACID
Pierre Petitcolas and Joseph Frenkiel, Rouen, France; vested in the Alien Property Custodian
No Drawing. Application May 21, 1940, Serial No. 336,416. In France June 12, 1939
4 Claims. (Cl. 260—507)

4. As new products, the acids of the general formula



wherein Alk stands for an alkyl radicle.

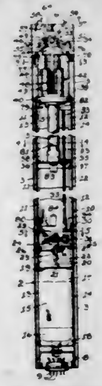
2,316,810
METHOD OF AND MATERIAL FOR COATING METAL SURFACES WITH WATER INSOLUBLE METALLIC PHOSPHATES
Gerald C. Romig, Melrose Park, Pa., assignor to American Chemical Paint Company, Ambler, Pa., a corporation of Delaware
No Drawing. Application April 10, 1940, Serial No. 328,899
4 Claims. (Cl. 148—6)

1. A material for preparing or replenishing an acid zinc phosphate coating solution, said material comprising zinc phosphate and a compound of a metal capable of yielding ions chosen from the group which consists of ferric, aluminum, chromic, stannous and antimonious ions, the amount of said compound being sufficient to yield in the finished solution sufficient of the said ions to substantially reduce spontaneous precipitation or crystallization of zinc phosphate from the solution and thereby retard loss of supersaturation.

2,316,811
METHOD OF COATING FERROUS METAL SURFACES WITH WATER INSOLUBLE METALLIC PHOSPHATES
Gerald C. Romig, Melrose Park, Pa., assignor to American Chemical Paint Company, Ambler, Pa., a corporation of Delaware
No Drawing. Application April 13, 1940, Serial No. 329,491
5 Claims. (Cl. 148—6.5)

1. In the art of rapidly coating ferrous metal with an adherent, water-insoluble, metallic phosphate, the method which includes treating the surface with a cold solution of acid phosphate of metal from the class which consists of zinc, manganese, cadmium and calcium, the temperature of which solution does not exceed about 120° F.; said solution being upwards of about 20% supersaturated with respect to coating metal phosphate at the temperature of use but not so highly supersaturated as to result in the production of a loose, non-adherent coating; said solution containing an oxidizing agent from the class which consists of bromates, iodates, picric acid, quinone and nitrites, the quantity of said agent being at least sufficient to cause the solution to attack and dissolve iron from the metal being treated at a rate which is not less than the rate at which it would be dissolved by the presence in the solution of from about .12 gram to about 5 grams per liter of sodium nitrite but not sufficient to produce an oxide film at the existing temperature; processing a succession of pieces with said solution; and adding to the solution as processing continues regulated quantities of the phosphate, of said agent and of a compound capable of raising the pH of the solution, such additions being adjusted so as to maintain the supersaturation and the content of oxidizing agent substantially as specified.

2,316,812
CANDLE BURNING DEVICE
Phillip W. Russell, Cleveland Heights, Ohio, assignor to John M. Powers, Cleveland Heights, Ohio
Application January 2, 1942, Serial No. 425,411
16 Claims. (Cl. 67—27)

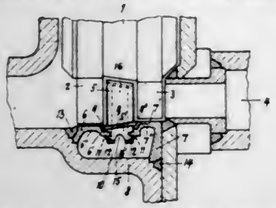


2. In a candlestick a housing, a candlelike body within said housing, means for shifting said candlelike body vertically within said housing, and means mounted on the top of said candlelike body and movable therewith for automatically controlling the shifting of said shifting means.

2,316,813
BEARER FOR THE STATIONARY VANES OF ROTARY MOTORS
Georg Schaper, Mulheim-Ruhr, Germany, assignor to Holzwarth Gas Turbine Co., San Francisco, Calif.
Application July 17, 1940, Serial No. 345,990
In Germany July 22, 1939
5 Claims. (Cl. 60—41)

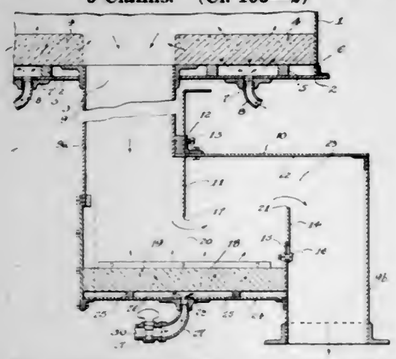
1. In a rotary motor operated by a medium of high temperature and including a casing and a rotary wheel carrying a plurality of rows of

vanes thereon, the combination of stationary vanes between two rows of rotary vanes, and a bearer for the stationary vanes comprising two arcuate sections, arranged one on each side of



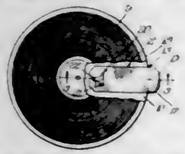
the stationary row of vanes, said sections being anchored within the wheel casing and being additionally connected with each other by way of the stationary vanes which they carry.

2,316,814
FEEDER
Henry Ripley Schemm, Detroit, Mich.
Application March 8, 1940, Serial No. 323,051
5 Claims. (Cl. 193—2)



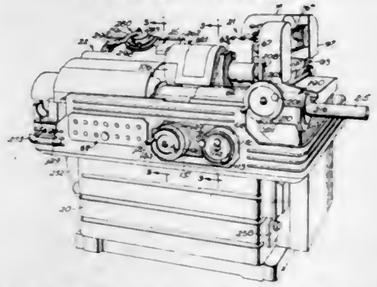
1. In combination with a conduit through which powdered material flows from an inlet end to a lower outlet end, said conduit having a transverse portion with its bottom wall positioned horizontally, a baffle in said transverse portion extending in a substantially vertical plane for stopping the flow of said material in its normal condition through the conduit, a porous medium positioned in the bottom of said transverse portion, and means for forcing gas at low pressure through said porous medium to fluidify the said material whereby said material while thus fluidified flows by gravity through said conduit and transverse portion.

2,316,815
RECORD
Richard W. Sears, II, Evanston, Ill.
Application August 8, 1941, Serial No. 405,965
14 Claims. (Cl. 274—42)



1. A record comprising an upper surface including a portion for the recording and reproduction of sound, a lower substantially coextensive surface underlying said upper surface, there being a recess provided in the body of the record between said surfaces and extending beneath the recording and reproducing portion of said upper surface, and a tag removably inserted in said recess.

2,316,816
SCREW THREAD GRINDING MACHINE
Ira J. Snader, Detroit, Mich., assignor to Ex-Cell-O Corporation, Detroit, Mich., a corporation of Michigan
Application October 30, 1940, Serial No. 363,445
21 Claims. (Cl. 51—95)



1. A thread grinding machine having, in combination, a rotatably driven grinding wheel, a carriage reciprocable toward and from the grinding wheel, a feed shaft extending parallel to the reciprocatory path of the carriage, means for driving said shaft to impart feed and return movements to the carriage, a work head mounted on said carriage for pivotal movement about the axis of said shaft, a work supporting spindle journaled on said head, a gear fixed to the spindle, a gear fixed to the shaft, a bracket mounted for pivotal movement about the axis of said shaft, a driving gear journaled in said bracket and meshing with the gear on said shaft, an idler gear journaled on the bracket and meshing with said driving gear, and means for swinging said bracket on its pivot to engage either said driving gear or said idler gear selectively with the gear on said spindle.

2,316,817
OPHTHALMIC MOUNTING
Edward M. Splaine, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application October 21, 1939, Serial No. 300,605
2 Claims. (Cl. 88—41)



1. A device of the character described comprising a front composed of a pair of lens rims joined by an integral bridge member with said rims and said bridge member being formed of non-metallic material, a pair of relatively long and slender metallic temple supports having a flared portion shaped to engage a rear surface of the front adjacent the opposed sides of the bridge member and having the major portion thereof shaped substantially to the upper contour shape of the lens rims and to follow said rims in the rear thereof and having relatively long outwardly and rearwardly extending integral temple supporting portions adjacent one end thereof and having integral rearwardly extending nose pad supports

adjacent their opposed ends, said nose pad supporting portions comprising a part extending rearwardly to a turn and thence forwardly and downwardly to a pivotal connection to which nose pads are pivotally attached and means extending from said flared portions into the material of the front for securing said temple supports and integral nose pad supporting portions to the front and said flared portion being cupped on the inner surface thereof and having longitudinal edge portions embedded in the material of the front.

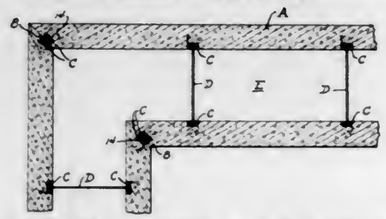
2,316,818
WOVEN METALLIC WOOL FABRIC
Miles A. Stybr, Springfield, Ohio, assignor to International Steel Wool Corporation, Springfield, Ohio, a corporation of Ohio
Continuation of application Serial No. 74,494, April 15, 1936. This application April 10, 1940, Serial No. 328,930
12 Claims. (Cl. 139—425)



1. A metallic wool fabric comprising transversely disposed flat thin relatively wide interwoven ribbons of metallic wool material, the construction and arrangement being such as to form a substantially uniform exposed plane surface, and wherein the superposed contacting surfaces of transversely arranged ribbons of metallic wool material become interfelted with each other.

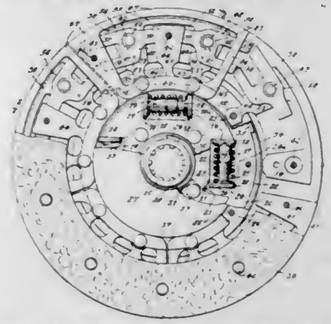
8. The herein described method of making metallic wool fabric, including the steps of flattening and compressing rovings of substantially parallel untwisted metallic fibers extending longitudinally of the rovings into flat ribbons wherein the individual fibers are intertangled and matted with each other into united relation, interweaving the flat ribbons of compressed intertangled metallic fibers with each other, causing the contacting faces of interwoven ribbons of material to become interfelted into a continuous unitary sheet formation, the resulting arrangement and assembly being such as to afford a fabric having a substantially even surface of uniform density.

2,316,819
WALL STRUCTURE
Roy B. Tedrow, San Francisco, Calif.
Application October 15, 1940, Serial No. 361,209
3 Claims. (Cl. 72—30)



1. In a wall structure of the character described, a slab presenting an inner and an outer face and a top and a bottom edge, a plurality of channel-shaped members formed of sheet metal disposed in the inner face of the slab and extending from the top to the bottom edge thereof, each channel having a web and a pair of side flanges, an inturned right-angular flange formed on each side flange to form a T-shaped slot in each channel member, and a plurality of integral legs formed from spaced, transverse cut-out portions of the web of each channel and extending outwardly from the channel to form anchor members for each channel with relation to the slab.

2,316,820
CLUTCH PLATE
W. Vincent Thelander, Rockford, Ill.
Application November 25, 1940, Serial No. 366,960
17 Claims. (Cl. 64—27)

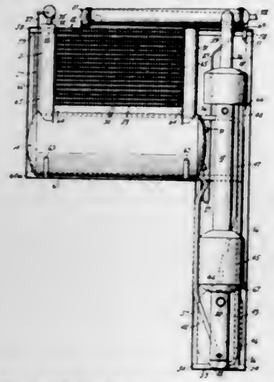


1. A motion transmitting element comprising relatively oscillatable inner and outer members, a coiled compression spring for resisting relative rotary movement between the inner and outer members, an interfitting piston and cylinder associated with said spring and normally held in extended relation to one another by the spring, the cylinder extending axially into the spring from one end and the piston extending axially into the spring from the other end, the piston and cylinder each having an enlarged substantially circular head portion on the outer end thereof for abutment on the inner side thereof with the adjacent ends of the spring, respectively, the head portions being of larger diameter than the spring whereby to space the end coils of the spring radially with respect to adjacent portions of the motion transmitting element while retaining said spring against displacement from operative position and transmitting pressure to the spring to compress the same in the relative rotary movement between the inner and outer members, and a housing turning with the outer member relative to the inner member and having a portion in closely spaced relation to the peripheries of said head portions, said housing serving to retain the piston and cylinder in operative relation to the inner member.

2,316,821
REFRIGERATION
Albert R. Thomas, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware
Application August 3, 1940, Serial No. 350,236
6 Claims. (Cl. 62—119)

3. In absorption refrigeration apparatus including a generator in which refrigerant vapor is expelled from absorption liquid, a condenser in which the expelled vapor is condensed, an evaporator in which the condensate is evaporated, and an absorber into which vapor passes from the evaporator and connected to receive absorption liquid into which the vapor is absorbed, an open frame comprising metal members secured together

to form a rigid frame structure, the refrigeration apparatus being mounted on the frame structure with the absorber being secured directly to



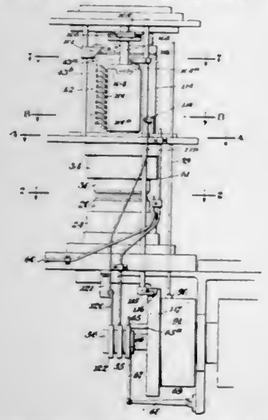
certain of said metal members and the evaporator being located above and mounted on the absorber.

2,316,822

PROCESS AND APPARATUS FOR PRODUCING KNITTED FABRIC, HOSIERY

Paul L. Thurston and David Nagley, Martinsburg, W. Va., assignors to Interwoven Stocking Company, New Brunswick, N. J., a corporation of New Jersey

Application January 14, 1941, Serial No. 374,334
33 Claims. (Cl. 66—14)



1. The method of producing tubular fabric on a knitting machine having coaxial superposed cylinders, which comprises feeding elastic thread to upper cylinder needles at a secondary feeding station, by-passing the lower cylinder needles at said feeding station to prevent their taking the elastic thread, manipulating the upper cylinder needles to draw loops of the elastic thread, feeding fabric thread to needles of both cylinders at a main feeding station, and manipulating the needles to knit said fabric thread.

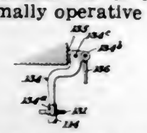
2,316,823

CIRCULAR KNITTING MACHINE

Paul L. Thurston, Martinsburg, W. Va., assignor to Interwoven Stocking Company, New Brunswick, N. J., a corporation of New Jersey

Application February 19, 1942, Serial No. 431,519
9 Claims. (Cl. 66—14)

9. In a circular knitting machine having coaxial superposed needle cylinders, needles transferable from one cylinder to the other and selectors associated with the needles and having selector butts at different levels, the combination of selector levers movable into operative position to act on selector butts of said selectors to transfer selected needles from one needle cylinder to the other, a pattern drum for moving the selector levers into and out of operative position, mechanism normally operative to move the pat-



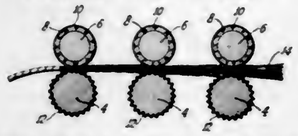
tern drum one step forward for each revolution of the needle cylinders, means for maintaining one or more selector levers in operative position to maintain the same needle selection during the knitting of a number of courses greater than the number of steps the pattern drum is moved during the knitting of said courses, and means for holding one or more selector levers inoperative while other selector levers are moved into and out of operative position.

2,316,824

METHOD AND APPARATUS FOR HANDLING MATERIALS

Fred J. Tobias, Ridgewood Plateau, N. Y., and Robert F. Jessen, Trenton, N. J., assignors to Sylvania Industrial Corporation, Fredericksburg, Va., a corporation of Virginia

Application April 16, 1940, Serial No. 329,888
9 Claims. (Cl. 175—264)



1. The method of handling mixed light-weight fibrous materials, at least one constituent of which is subject to attraction and displacement by electrically charged bodies which are approached by the material during handling operation, comprising applying to the surfaces of said bodies a material capable of receiving the same polarity of electrical charge as the material subterials to be thereby repelled by the bodies, so as to avoid undesirable displacement of the fibrous ject to attraction to cause the mixed fibrous mamaterials by the bodies.

9. The method of handling a mixture of resin fibres and other fibres, in which mixture the resin fibres are subject to attraction by electrically charged bodies which are approached by the material during the handling operation, comprising applying to the surfaces of said bodies a material capable of receiving the same polarity of electrical charge as carried by the resin fibres to cause the mixed fibrous materials to be thereby repelled by said bodies so as to avoid undesirable displacement of the fibres by the bodies.

2,316,825

p-NITROBENZENE SULPHINAMIDE

Josef Vonkennel and Josef Kimmig, Kiel, Germany, assignors to Schering Corporation, Bloomfield, N. J., a corporation of New Jersey

No Drawing. Application March 19, 1938, Serial No. 196,906. In Germany March 27, 1937
1 Claim. (Cl. 260—397.7)

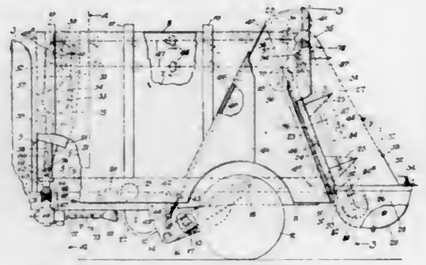
p-Nitrobenzene sulphinamide.

2,316,826

GARBAGE DUMPING BODY

Lester W. Wachter, Streator, Ill., assignor to Anthony Company, Streator, Ill., a corporation of Illinois

Application October 27, 1941, Serial No. 416,765
24 Claims. (Cl. 214—67)



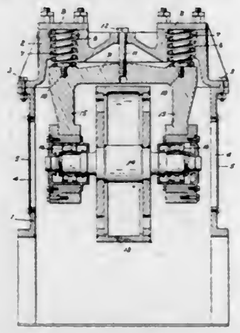
1. In combination, a support and a container mounted thereon for movement with relation thereto, means mounted on said support and engaging said container, a gate moveably mounted upon one end of said container, gate moving means secured at one end to said gate and at one end to said support, and of such length that movement of said container causes movement of said gate, and a conveyor mounted in part on said gate, and a driving linkage for said conveyor, and a support for said conveyor within said gate, said support including a frame, means for pivoting the frame for movement bodily with respect to said gate, said gate including a hopper portion which encloses the lower part of the container, and a moveable door mounted for movement to give access to said hopper and to the portion of the container mounted therein.

2,316,827

ROLLER FOR CENTRIFUGAL CASTING MOLDS

Harold B. Wessenger, Medford, and James L. Martin, Lowell, Mass.

Application July 25, 1941, Serial No. 404,026
1 Claim. (Cl. 22—65)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



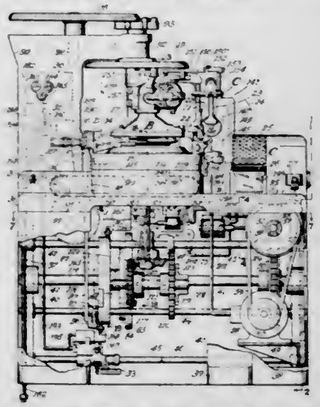
A roller for centrifugal casting machines comprising a frame, a yoke with a roller member rotatably mounted between the arms thereof, a member medially positioned on the yoke constituting an adjustable suspension of the yoke from the frame and cushioning means between the yoke and frame on each side of said member.

2,316,828

HIGH SPEED CIGAR MACHINE

Henry H. Wheeler, Brooklyn, N. Y., assignor to International Cigar Machinery Company, a corporation of New Jersey

Application January 5, 1938, Serial No. 183,405
23 Claims. (Cl. 131—21)



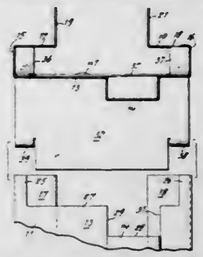
1. The combination with a cigar rolling machine, of mechanism for selectively and detachably connecting either a complete long or a complete short filler bunch forming unit to said machine for synchronous cooperation therewith, means for driving said machine, and electric control mechanism associated therewith to permit jogging of said machine to move the parts of said machine and detachably connected selected bunch forming unit through increments of full cycles.

2,316,829

METAL CASING FOR BUILDING CONSTRUCTION

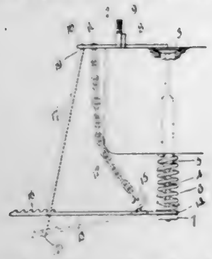
Frank M. Zecca, Brooklyn, N. Y.

Application December 28, 1940, Serial No. 372,084
11 Claims. (Cl. 189—36)



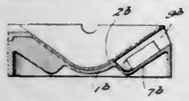
11. In a joint construction for interlocking the ends of a cross piece and a side piece of a hollow sheet metal casing that is uniform in cross section, each of said pieces having an inner lengthwise face, lengthwise sides, and outer panels extending centrally from said sides and spaced from said face: the combination with said pieces of a flat plate right angled transversely and secured at an end of said cross piece on the inside wall of said face and engageable with the inside wall of the face of said side piece, the side edges of the plate engaging the inner walls of the sides of both said pieces when the parts are assembled and the corners of the plate being turned outward to form spacers lying between the face and the outer panels of both said pieces and engaging said outer panels.

2,316,830
VALVE SPRING COMPRESSOR
Herman T. Zimmerman, Tulsa, Okla.
Application October 12, 1942, Serial No. 461,826
2 Claims. (Cl. 29—86.3)



1. The combination of a hold-down bar for resting at one end upon the head of a poppet valve, and also for resting upon the motor block for said valve and for overhanging the block at one side thereof, and provided at the overhang end with a depending hook; a bar extending crosswise of and fixed to the hold-down bar and adapted for bridging the space between and bearing against the inner sides of a pair of the bolts by which a cover for the block is secured in place; a chain attached to said hook and depending therefrom and adapted to bear at an intermediate point in its length against the motor block and for underlying the latter; a lever having one end for underlying the spring of the valve engaged by the hold-down bar, and pivotally connected to said chain adjacent said spring for operation to compress said spring, and means for holding the spring in compressed condition by offering resistance to downward movement of the lever where adapted for engagement with the spring.

2,316,831
ASH TRAY
Elie P. Aghnides, New York, N. Y.
Application March 11, 1940, Serial No. 323,459
In Belgium April 25, 1939
8 Claims. (Cl. 131—235)



1. An ash tray comprising two superposed nested parts, freely separable by merely lifting one off of the other, the upper part being a tray adapted to receive cigarette ashes and the like, the lower part being a tray adapted to receive cigarette ashes and the like after the upper part has been removed, an inclined elongated cavity between the parts, one end of the cavity being open to permit inserting therein a lighted cigarette butt, the cavity being formed to limit the supply of air to rapidly extinguish the lighted cigarette therein, and the superposed parts being separable to permit cleaning.

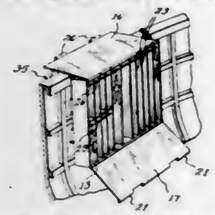
2,316,832
FLUID MIXING DEVICE
Elie Aghnides, New York, N. Y.
Application April 5, 1940, Serial No. 328,120
In Belgium December 4, 1934
4 Claims. (Cl. 261—76)

1. A device for producing a jet of water containing air bubbles comprising a chamber the inlet end of which is adapted for connection with the discharge end of a faucet or the like and the outlet end of which is adapted to discharge said jet, an apertured diaphragm at the upstream end of the chamber through which water is adapted to be forced into the chamber with substantial velocity, an air port opening into the chamber through which air is induced by the



water delivered from the apertured diaphragm and means in the path of the water after it leaves the apertured diaphragm and before it discharges at the outlet end for finely breaking up the water and mixing it with air to form a coherent jet having bubbles and a foraminous member upstream the apertured diaphragm.

2,316,833
TACKLE BOX
Walter C. Baron, Chicago, Ill.
Application July 13, 1942, Serial No. 450,679
3 Claims. (Cl. 43—32)



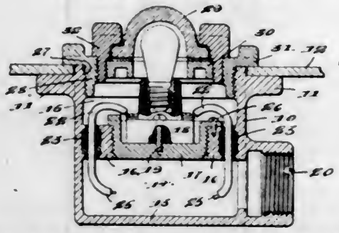
1. In a structure of the class described, a container divided into a plurality of compartments, means in said compartments for maintaining casting lures in a supported and suspended position, hooking members on said container securable on the side of a boat for supporting said container inside said boat, said hooking members being movable into hooking and non-hooking positions.

2,316,834
PUSH BUTTON
Josef Bierenfeld, Shorewood, Wis., assignor to Square D Company, Detroit, Mich., a corporation of Michigan
Application December 7, 1940, Serial No. 369,015
7 Claims. (Cl. 200—5)



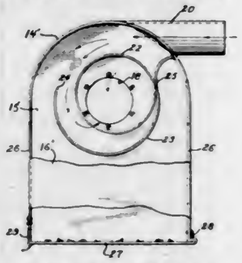
1. In a device of the class described, a base, a stationary contact mounted thereon at either end thereof, movable contacts adapted to cooperate with said stationary contacts, a unitary resilient switching member comprising a pair of extended portions supporting movable contacts and normally biasing one of said movable contacts into engaged position and the other of said movable contacts into disengaged position, said switching member having at least one elongated portion thereon extending outwardly at an angle to said contact supporting portions for securing said switching member to said base, and a pair of push buttons slidably mounted on said base, one of said push buttons being actuable to positively move said normally engaged movable contact to disengaged position without engaging said normally disengaged contact and the other of said push button being actuable to positively move said normally disengaged contact into engaged position without disengaging said normally engaged contact.

2,316,835
EXPLOSIONPROOF ENCLOSURE FOR ELECTRICAL DEVICES
Robert A. Blood, Syracuse, N. Y., assignor to Crouse-Hinds Company, Syracuse, N. Y., a corporation of New York
Application September 12, 1940, Serial No. 356,513
6 Claims. (Cl. 174—50)



1. An explosionproof enclosure comprising a body formed with an opening in one side thereof and an internally threaded bore arranged below said opening, a supporting plate for supporting an electrical device, said plate threading into said bore and dividing the body into a device compartment and a wiring compartment, said body being also formed with a conduit receiving passage leading into said wiring compartment, lead conductors sealed in said body and extending from said device compartment into said wiring compartment, and a closure detachably secured to the open side of the body in flame tight relationship thereto.

2,316,836
PORTABLE SUCTION CLEANER
Adam A. Breuer, Chicago, Ill., assignor to Breuer Electric Mfg. Co., Chicago, Ill., a corporation of Illinois
Application December 15, 1939, Serial No. 309,315
3 Claims. (Cl. 183—80)



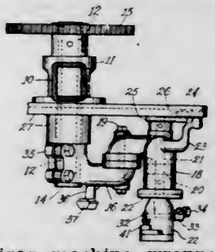
3. A collector assembly adapted to be connected to the inlet of an air suction chamber comprising a casing having a tangential inlet opening, a foraminated member in said casing extending transversely thereof and communicating with and surrounding a lateral outlet opening of the casing, and arcuate apertured baffle means in said casing extending partially around and eccentrically disposed relative to said foraminated member whereby one end is in tangential relationship therewith adjacent the inlet opening and the other end is spaced therefrom and from the peripheral wall of the casing to define a mouth opening upstream into the path of air flow from the inlet for separating the air flow into a plurality of paths to said foraminated member.

2,316,837
CANDLE HOLDER
Albert T. Candy, Jr., Chicago, Ill., assignor to Candy & Company, Chicago, Ill., a corporation of Illinois
Application March 20, 1941, Serial No. 384,243
4 Claims. (Cl. 67—27)



1. A candle holder of the class described comprising a unitary tube portion formed throughout its entire length of fibrous material and a unitary annular metallic top closure and candle top abutment therefor, the said cap being in fixed embracing engagement with the interior and exterior faces of the upper edge portion of the fibrous tube.

2,316,838
CIGAR MACHINE WRAPPER TRANSFER CARRIER HEAD
Hjalmar E. Carlson, Brooklyn, N. Y., assignor to International Cigar Machinery Company, a corporation of New Jersey
Original application August 16, 1939, Serial No. 290,422. Divided and this application October 2, 1941, Serial No. 413,277
10 Claims. (Cl. 131—105)



1. In a cigar machine wrapper transfer, a wrapper carrier head movable to and from a wrapper applying position, said head comprising a hollow casing having a wrapper carrying plate and a plurality of chambers in communication with said plate, a wall provided with an aperture located between said chambers, a swinging flap valve arranged to open and close said aperture, said valve being normally gravity biased to open said aperture and maintain suction in both chambers during the movement of

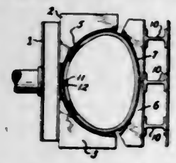
said head to wrapper applying position, and means operative at said position for moving said valve to close said aperture and divert all of the suction into one of said chambers, said means including a valve stem extending horizontally through a bearing in said casing, a lever mounted without said casing and fixed to said stem, and traveling means coacting with said lever during the movement of said head for effecting the movement of said valve.

2,316,839
METHOD OF MAKING ARCH-TYPE CULVERTS

Howard S. Claybaugh, Minneapolis, Minn., assignor to The American Rolling Mill Company, Middletown, Ohio, a corporation of Ohio

Original application November 10, 1939, Serial No. 303,846, now Patent No. 2,286,197, June 16, 1942. Divided and this application November 10, 1939, Serial No. 303,845

4 Claims. (Cl. 153—48)



1. A method of making a corrugated arch-type conduit, which comprises first forming a cylindrical, continuous metal tube, said tube being circumferentially corrugated substantially throughout its length, applying pressure to opposite sides of the tube by means of dies, both of which are concave and one of which is characterized by substantially greater concavity than the other, moving the dies relatively toward each other with the tube between them to exert pressure radially of the dies on the outer portions of the corrugations along substantially diametrically opposite longitudinal parts of the tube whereby to deform the tube, the tube during deformation having portions extending freely between areas of pressure, the said deformation occurring primarily in said freely extending portions, applying the substantially diametrical pressure adjacent each side of each such area of deformation, and progressively extending the areas of diametrical pressure toward each other circumferentially of the tube as the pressure is applied, to deform and draw the corrugations of said tube in said freely extending portions without collapsing the said corrugations, the corrugations as so drawn serving to maintain the deformed condition of the metal tube as a whole, whereby to produce a corrugated conduit having an arch and a relatively flat but slightly outwardly convex base together with connecting portions between the arch and the base of greater curvature than the arch, the corrugations maintaining their integrity and continuity in the final conduit.

2,316,840
PREPARATION OF RUTILE TITANIUM DIOXIDE

Sandford S. Cole, Metuchen, N. J., assignor to National Lead Company, New York, N. Y., a corporation of New Jersey

No Drawing. Original application August 7, 1939, Serial No. 157,886. Divided and this application January 19, 1940, Serial No. 314,643

7 Claims. (Cl. 23—202)

1. A method of preparing a pigmentary composition containing rutile titanium dioxide, which comprises forming an intimate and uniform mixture of anatase titanium-oxygen compounds and a small amount of an inorganic compound capable of forming by reaction with titanium dioxide a compound having crystalline characteristics classifiable within the sodium chloride crystallographic group which does not decompose and is non-liquefiable and non-volatile at the temperature of the subsequent heat-treatment in an amount between about 0.5 percent and 5.0 percent calculated on the titanium dioxide, TiO_2 content of the said mixture, heating the said mixture at temperatures at which as indicated by an X-ray examination anatase titanium-oxygen compounds are converted to rutile titanium dioxide until such conversion takes place.

2,316,841
PREPARATION OF RUTILE TITANIUM DIOXIDE

Sandford S. Cole, Metuchen, N. J., assignor to National Lead Company, New York, N. Y., a corporation of New Jersey

No Drawing. Original application August 7, 1939, Serial No. 157,886. Divided and this application January 19, 1940, Serial No. 314,644

4 Claims. (Cl. 23—202)

1. A method of preparing a pigmentary composition containing rutile titanium dioxide, which comprises forming an intimate and uniform mixture of anatase titanium-oxygen compounds and a small amount of an inorganic compound having crystalline characteristics classifiable within the phenacite crystallographic group which does not decompose and is non-liquefiable and non-volatile at the temperature of the subsequent heat-treatment in an amount between about 0.5 percent and 5.0 percent calculated on the titanium dioxide, TiO_2 content of the said mixture, heating the said mixture at temperatures at which as indicated by an X-ray examination anatase titanium-oxygen compounds are converted to rutile titanium dioxide until such conversion takes place.

2,316,842
LEAK TESTING BATH AND METHOD OF THE TESTING

John D. Coleman, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware

No Drawing. Application November 18, 1939, Serial No. 305,209

3 Claims. (Cl. 73—51)

3. A leak testing bath in which leaks in containers are detected by bubbling air through the leaks comprising a substantially clear aqueous solution of a polyether alcohol derivative.

2,316,843
THREE-ROLL MILL FOR CRUSHING SUGAR CANE AND THE LIKE

Jerónimo Diaz Compain, Central Senado, Cuba

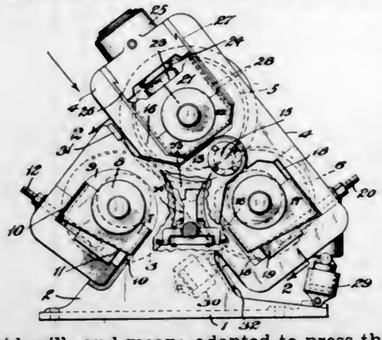
Application March 11, 1941, Serial No. 382,828

In Cuba December 17, 1940

12 Claims. (Cl. 100—47)

1. A three-roll mill with two movable rolls and two passes for crushing sugar cane and the like which comprises a stationary frame, a feed roll mounted on said frame, a mill housing pivotally supported by said frame by a pivotal mounting, a top roll and a discharge roll mounted in said housing on opposite sides of said pivotal mounting and moveable about said mounting, means

adapted to rotate said housing about said pivotal mounting to press said top roll against said feed roll, thereby producing pressure for the first pass



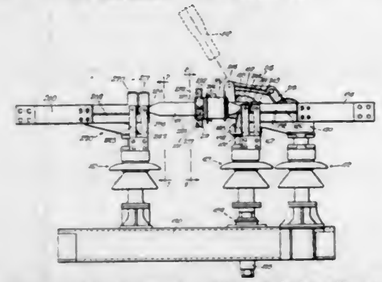
of said mill, and means adapted to press the top roll against the discharge roll thereby producing an independent pressure for the second pass of said mill.

2,316,844
SWITCHING DEVICE

Elias S. Cornell and Thorsten Fjellstedt, Chicago, and Stanley C. Killian, Oak Park, Ill., assignors to Delta-Star Electric Company, Chicago, Ill., a corporation of Illinois

Application November 12, 1940, Serial No. 365,308

17 Claims. (Cl. 200—48)



1. In combination, a pair of laterally spaced stationary contact means, a switch blade for each contact means, a pivotally mounted guide, means in said guide for rotatably mounting said switch blades, a rotatable actuating member, extension means on said actuating member rotatably journalled in said guide for moving said guide to move said switch blades through an arcuate path so as to align the end of each blade with the stationary contact means provided therefor, and control means actuated by said extension means for simultaneously rotating said switch blades around their own axes to move said ends thereof into high pressure contact engagement with the associated contact means.

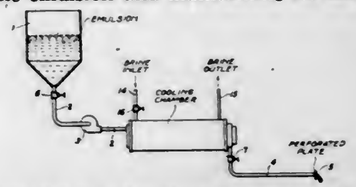
2,316,845
METHOD OF CHILLING PHOTOGRAPHIC EMULSIONS

John H. Craft, Jr., Rochester, N. Y., assignor to Defender Photo Supply Co., Inc., Rochester, N. Y., a corporation of New York

Application July 15, 1942, Serial No. 451,077

6 Claims. (Cl. 95—7)

1. The method which consists in rapidly, uniformly, and progressively chilling a molten photographic emulsion containing water, gelatin and silver halides by forcing it under pressure in a thin film through a cooling chamber while stirring the emulsion and maintaining its tempera-



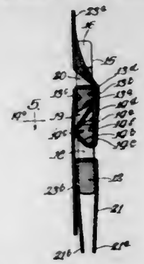
ture and rate of travel above the points at which crystallization of the water in the emulsion takes place.

2,316,846
ADJUSTABLE STRAP FASTENER

George L. Diebold, Chicago, Ill.

Application April 27, 1942, Serial No. 440,569

5 Claims. (Cl. 24—200)



5. An adjustable strap fastener comprising a frame all parts of which lie in a single plane, said frame comprising side portions, an end portion at the top of said frame having a gap therethrough and two cross bars extending between said side portions and forming within said side portions and said end portion a plurality of transverse slots, said cross bars being substantially straight with smooth and uninterrupted surfaces from end to end and the upper of said cross bars having a sloping lower face extending rearwardly and downwardly from a relatively narrow front face of the cross bar to a relatively wide rear face of the cross bar and the lower of said cross bars having two sloping faces extending rearwardly and inwardly from upper and lower horizontal faces of said lower cross bar and converging with a relatively narrow rear face of said lower cross bar, and means on said frame adapted to fasten said frame in operable position

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2,316,847
PRODUCTION OF ORGANIC COMPOUNDS CONTAINING INORGANIC GROUPS

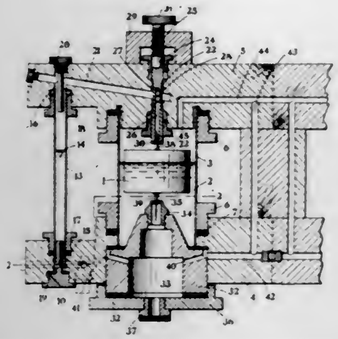
Henry Dreyfus, London, England, assignor to Celanese Corporation of America, a corporation of Delaware

No Drawing. Application February 12, 1941, Serial No. 378,653. In Great Britain March 8, 1940

3 Claims. (Cl. 260—513)
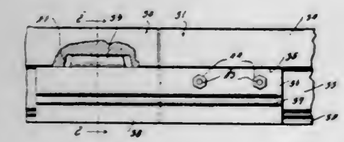
1. In a process for the manufacture of a sulpho-carboxylic acid, the steps of heating together in a liquid medium an omega-monohalogen aliphatic nitrile and a thiourea containing at least one hydrogen atom attached to the nitrogen atom, reacting with halogen the S-alkyl isothiourea formed whereby there is obtained an aliphatic nitrile containing an omega-sulphonyl halide group, and then hydrolyzing the nitrile and sulphonyl halide groups in said aliphatic nitrile to form a sulpho-carboxylic acid.

2,316,848
APPARATUS FOR REGULATING THE FLOW OF LIQUID
Cyril Harry Evans, Snaresbrook, London, England, assignor to Spillers Limited, Markyate, near St. Albans, England, a British company
Application July 3, 1940, Serial No. 343,798
In Great Britain July 8, 1939
13 Claims. (Cl. 137—68)



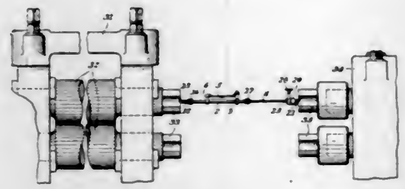
1. Apparatus for delivering a constant flow of liquid under a constant head maintained in relation to the outlet of the apparatus and adapted for regulation of the flow of liquid, comprising a container through which the flow of liquid is maintained and within which the constant head of liquid is established, the said container having an adjustable inlet orifice and an outlet orifice, a control element responsive to a rise or fall of the liquid level within the container, and valve elements supported by the control element and associated respectively with the inlet orifice and the outlet orifice, the valve elements being so arranged with respect to the orifices that when the inlet orifice is adjusted to move away from the valve element associated therewith the head of liquid in the container is increased and the valve element associated with the inlet orifice maintains the increased head while the valve element associated with the outlet orifice moves away from the outlet orifice to increase the flow of liquid therefrom.

2,316,849
RAIL JOINT
Joseph Farago, Detroit, Mich., assignor of one-half to Albert Matica, Detroit, Mich.
Application May 16, 1941, Serial No. 393,809
2 Claims. (Cl. 238—254)



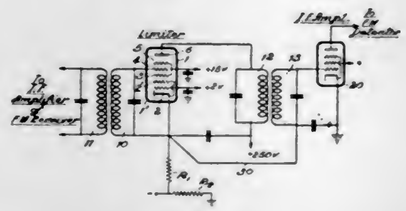
1. In a rail joint, meeting rail ends, the under side of the head of one rail end having a slot therein at each side of the rail web, a web-engaging plate at each side of the meeting rail ends overlapping the same, a tongue of less length than said slots extending upwardly from the upper edges of corresponding ends of each web-engaging plate interfittingly received in the slots in said one rail end, and nut and bolt combinations extending through the ends of the web-engaging plates and the web of the other rail end for securing the web-engaging plates in position.

2,316,850
ALIGNMENT GAUGE
Harold T. Farr, Cleveland, Ohio, assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application July 28, 1942, Serial No. 452,643
9 Claims. (Cl. 33—84)



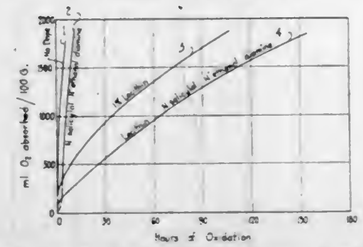
1. A gauge of the class described comprising a longitudinally extending body member, a center arranged on each end of said body member, a spirit level carried by said body member which is arranged substantially parallel to the longitudinal axis thereof, another spirit level carried by said body member which is arranged substantially perpendicular to the longitudinal axis of said body member, and means arranged on one end of the said body member for adjusting the position of the center at that end of the body member transversely of the same.

2,316,851
FREQUENCY MODULATION RECEIVER SQUELCH CIRCUIT
Dudley E. Foster, South Orange, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application June 19, 1941, Serial No. 398,703
10 Claims. (Cl. 250—20)



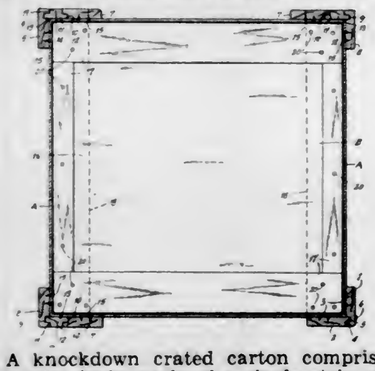
1. In a receiver of angular velocity-modulated carrier waves of the type provided with at least two cascaded modulated carrier wave transmission networks prior to the detection network, the method which includes normally rendering the second of said transmission networks ineffective for modulated carrier waves of less than a predetermined amplitude, limiting the current output of the first of the transmission networks, deriving a control voltage from the limited current output of said first network, and rendering said second network effective in response to said control voltage.

2,316,852
LUBRICATING OIL
Frederic A. Armfield, Berkeley, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application August 30, 1941, Serial No. 409,066
8 Claims. (Cl. 252—51)



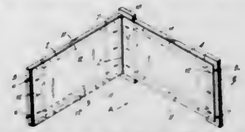
1. The method of inhibiting the catalytic oxidation of a lubricating or electrical oil caused by sludge containing a catalyst of the group consisting of copper, iron, chromium, lead, and their compounds which comprises incorporating in said hydrocarbon oil a small amount each of a phosphatide and a metal deactivator selected from the class consisting of the reaction products of a primary amine and a beta carbonyl compound, the latter being selected from the group consisting of aliphatic diacyl and aromatic o-hydroxy carbonyl compounds.

2,316,853
KNOCKDOWN CRATED CARTON
Walter C. George, St. Louis, and Frederick R. Buhrmaster, Webster Groves, Mo., assignors to Gaylord Container Corporation, St. Louis, Mo., a corporation of Maryland
Application October 26, 1940, Serial No. 362,980
5 Claims. (Cl. 217—16)



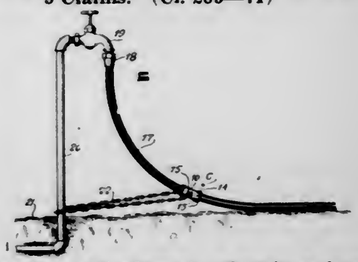
1. A knockdown crated carton comprising a rectangular body made of a single strip of corrugated board, fiberboard or the like scored along three lines and bent along said lines and its free ends brought together to form said rectangular body, cleats secured to said free ends of said strip and secured together at the corner formed by said ends, two cleats secured flatwise to the outer face of said strip parallel with and adjacent to each of said score lines, one of said two cleats being spaced inwardly from the corner defined by the bend at said score line and the other cleat extending outwardly beyond said corner, and a removable strip interposed between adjacent longitudinal faces of said two cleats and covering the outer face of the portion of the body strip therebetween.

2,316,854
KNOCKDOWN CRATED CARTON
Walter C. George, St. Louis, and Frederick R. Buhrmaster, Webster Groves, Mo., assignors to Gaylord Container Corporation, St. Louis, Mo., a corporation of Maryland
Application October 26, 1940, Serial No. 362,981
3 Claims. (Cl. 217—13)



2. A knockdown crated carton comprising a rectangular body, said body comprising two sections only of corrugated board, fiberboard or the like, each of said sections being scored along one line only to provide two adjacent side walls of said body and to permit said side walls to fold one upon the other in knockdown form, separate cleats secured to opposite ends of each of said corrugated board body sections, the end cleats of one section being secured to the end cleats of the other section at diagonally opposite corners of said body, and cleats secured to said corrugated board body sections adjacent to and on opposite sides of the score lines thereon and adapted to be brought into overlapped relation at the remaining corners of said body in the body forming position thereof, the cooperating end cleats at each of said diagonal corners being disposed one with its outer side edge in abutting relation to the inner face of the other, one of said cooperating end cleats having dowels on the outer side edges thereof that fit within holes provided therefor in the abutting inner side face of the other end cleat.

2,316,855
HOSE ATTACHMENT
George A. De Gravelle, New Iberia, La.
Application February 7, 1942, Serial No. 429,923
5 Claims. (Cl. 285—71)

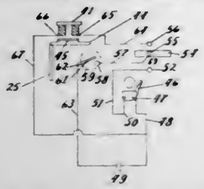


1. In a hose attachment, wherein a hose is coupled at one end to a fluid supply, a tubular clamp attached to the hose in spaced relation to the coupling and anchor means associated with the clamp for restraining movements of the hose between the clamp and coupling whereby pulling strains on the coupling are eliminated, said clamp including a longitudinally split sleeve, circumferential rows of beads struck-up from the sleeve adjacent each end, a retainer ring between the adjacent rows of beads and ears struck-up from the clamp for the attachment of the anchor means.

2,316,856
DOOR SIGNAL
George S. Green, Cape Elizabeth, Maine
Application August 30, 1939, Serial No. 292,683
2 Claims. (Cl. 177—333)

1. In a door signal device, a casing having a

hollow message-receiving compartment, a door for said compartment normally spring-urged to open position, a catch to normally hold said door in closed position, an electric circuit including a push button switch, a door bell, an electromagnet for retracting said catch to permit automatic opening of said door, a double throw switch for selectively connecting either said door



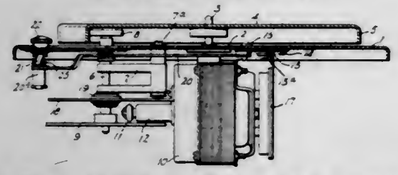
bell or said electromagnet into said circuit so arranged that when the double throw switch is in one position, pressure on said push button will cause the current in said circuit to ring said door bell, and when said double throw switch is in its other position pressure on said push button will energize said electromagnet to withdraw said catch and permit said door to open.

2,316,857

PHONOGRAPH DRIVE MECHANISM

Willard J. Green, Philadelphia, Pa., assignor to Philco Radio and Television Corporation, Philadelphia, Pa., a corporation of Delaware

Application September 18, 1941, Serial No. 411,435
10 Claims. (Cl. 74—194)



1. In a variable speed phonograph drive mechanism including a transmission system having a continuously variable transmission ratio, a control means for said system including a single control member movable into either of two positions, said member extending through a plate having a slot with enlarged ends determining said positions, said member having laterally offset end portions, an operating linkage secured to one end of said member perpendicular thereto and generally longitudinally movable thereby, a driving wheel and a driven wheel in said transmission system, said linkage being adapted upon actuation to move one of said wheels radially across the face of the other of said wheels, said control member when in each of said positions controlling said linkage to adjust said drive system for operation within a different range of drive ratios, said member being rotatable while in each of said positions to adjust by reason of its offset ends the transmission ratio of said system to any desired ratio within the corresponding one of said ranges.

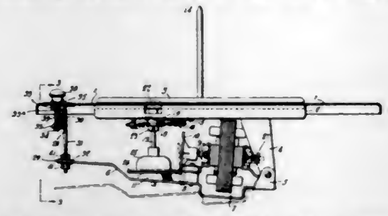
2,316,858

TURNTABLE DRIVE MECHANISM

Elmer O. Thompson, Grasmere, N. Y., assignor to Philco Radio and Television Corporation, Philadelphia, Pa., a corporation of Delaware

Application September 27, 1941, Serial No. 412,654
7 Claims. (Cl. 74—194)

1. In a turntable speed control device for a phonograph, a control panel having an aperture therein, a rotatable control manual seatable in said aperture, a rotatably mounted adjusting member, means actuated by said member for varying the speed of rotation of the turntable, means extending longitudinally from the base of said manual eccentrically of the center thereof,



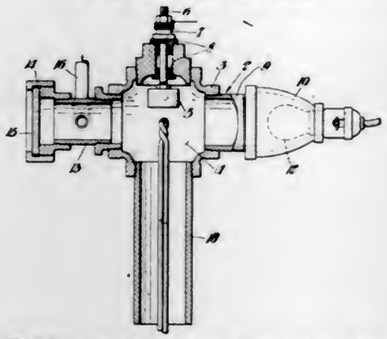
said last means being attached to said member and being constrained for movement relative to said member in a plane generally parallel to the axis of rotation thereof, whereby rotation of said manual will cause adjustment of said member to control the speed of the turntable.

2,316,859

APPARATUS FOR WELDING

Ernest G. Guenzel, Cleveland, Ohio, assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey

Application October 27, 1941, Serial No. 416,728
6 Claims. (Cl. 219—8)



4. Welding apparatus of the class described comprising a longitudinally extending hollow body member consisting of a plurality of pipes including a pipe connection arranged intermediate the length thereof, an electrode extending into said pipe connection, said pipe connection having an opening arranged in the wall thereof directly opposite said electrode through which the article to be welded is adapted to be introduced thereinto and manipulated therein, and means arranged at one end of said body member for viewing the article therein as it is being welded.

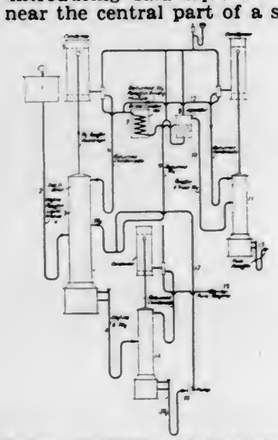
2,316,860

SEPARATION OF MIXTURES OF OLEFINS AND PARAFFINS

Henri Martin Guinot, Niort, Deux-Sevres, France; vested in the Alien Property Custodian

Application February 20, 1939, Serial No. 257,539
In France March 25, 1938
1 Claim. (Cl. 202—42)

A process for the separation of a mixture of olefins and paraffins, which comprises introducing said mixture in liquid condition to near the central portion of a first distillation column provided with plates, introducing sulphur dioxide into said column at a point slightly above the point of introduction of said mixture, applying heat to the base of said column, condensing the paraffin-sulphur dioxide azeotropic mixture thus obtained, introducing said azeotropic mixture to near the central part of a first auxiliary column, showering water through said first auxiliary column, applying heat to base of said first auxiliary column to obtain pure paraffin as a head product and aqueous sulphur dioxide as a tail product, introducing said aqueous sulphur dioxide to near the central part of a second auxiliary column, distilling said aqueous sulphur dioxide within said second auxiliary column to obtain sulphur dioxide as a head product, returning said sulphur dioxide to said first distillation column, removing said olefin as an olefin-sulphur dioxide mixture from the foot of said first distillation column, introducing said mixture to near the centre of a third auxiliary column, applying heat to the base of the said third auxiliary column, obtaining pure olefin as a head product and obtaining sulphur dioxide as a tail product and returning said sulphur dioxide to said first distillation column.

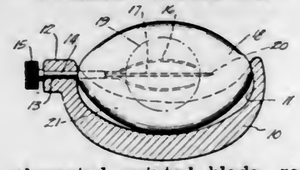


2,316,861

EGG BEATER

Oliver Hansen, Detroit, Mich.

Application November 15, 1941, Serial No. 419,229
2 Claims. (Cl. 259—110)



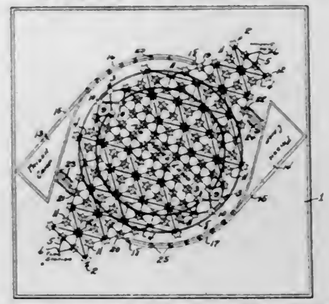
1. An elongated pointed blade, radially expansible resilient members affixed thereto and extending in the direction of the shaft to a point adjacent the tip thereof, a centrally perforated inverted cup slidably seated on said blade, a collar on the top of said cup encircling the blade and adapted to compress the resilient members flat against the body of the blade, rod means suspending said cup, coil springs on said rod means urging the cup and the collar towards the tip of the blade, said resilient members being adapted to expand radially when the collar is moved away from the tip of the blade against the tension of the coil springs, and motor means to impart a rotary motion to the blade and the resilient members affixed thereto.

2,316,862

MILITARY GAME

Walter K. Haggard and Fern L. Butler, Amarillo, Tex.

Application May 26, 1941, Serial No. 395,290
3 Claims. (Cl. 273—131)



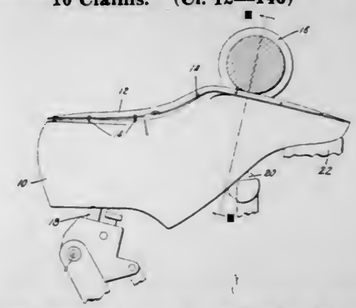
1. A military game apparatus for playing a game with playing units and goal units, comprising a board provided with a flat upper surface having two opposed playing zones thereon and a neutral zone separating the first zones from each other, lines extending substantially throughout the entire area of all of the zones, said lines intersecting each other in said playing zones and extending transversely across the neutral zone, said playing zones having means at the outer ends thereof for positioning the goal units thereon during the playing of the game, said lines providing routes for the movement of the playing units along the same, substantially triangular areas disposed upon opposite sides of said playing areas for receiving units taken out of play, curved lines extending from the apexes of the triangular areas to points adjacent the outer ends of said playing zones and providing routes for returning the units into play, and stopping stations for the units and disposed at intervals along said routes.

2,316,863

METHOD OF MAKING LASTS

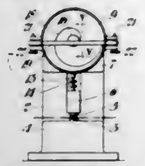
Fred V. Hart, Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application July 10, 1942, Serial No. 450,423
10 Claims. (Cl. 12—146)



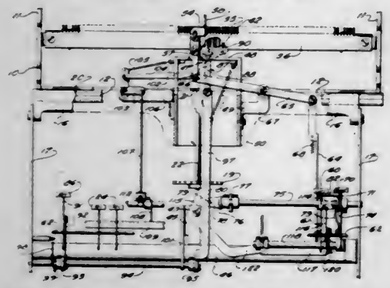
1. That improvement in methods of applying plates to the bottoms of lasts which consists in holding a plate on the bottom of a last with their edges in the desired relation to each other, progressively pressing said plate into conformity to the last bottom along lines extending longitudinally thereof and disposed at different positions widthwise thereof, and fastening the plate to the last bottom while holding the plate in engagement with the last bottom.

2,316,864
MICROMETER GAUGE
George F. Heimberger, McKeesport, Pa.
Application April 19, 1941, Serial No. 389,443
7 Claims. (Cl. 33—147)



1. In combination with a micrometer of the class described having a spindle arranged for reciprocable movement, rotatable means arranged with said spindle and which is rotatably actuated thereby upon reciprocable movement of said spindle, a logarithmic curve carried by said rotatable means which is calibrated by plotting the corresponding logarithm opposite the arithmetical radial division of the spindle movement, a member which is movable relative to said means and mounted adjacent thereto directly opposite the logarithmic curve carried thereby, and a logarithmic scale carried by said movable member which is correlated to the logarithmic curve carried by said rotatable means with the calibrations of the logarithmic scale representing length, and area factor which is the product of length and thickness, the logarithmic curve of said rotatable means adapted to cooperate with the correlated logarithmic scale of said movable member upon rotation of said rotatable means so as to intersect said scale with the point of intersection of said curve and said scale indicating on said scale the length of the material required to fulfill the area factor.

2,316,865
TYPEWRITING MACHINE
William F. Helmond, Clinton, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application June 20, 1940, Serial No. 341,420
22 Claims. (Cl. 197—63)

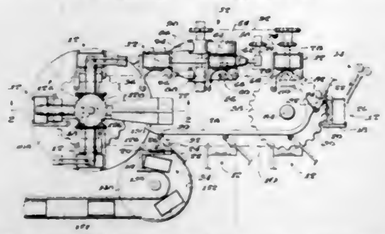


7. In a typewriter having a frame and an escapement-controlled carriage adapted to travel leftwardly and rightwardly on the frame, a stop movable transversely of the carriage, a second stop, said stops being oppositely on said frame and on said carriage and normally non-cooperative, and means to render said stops cooperative to limit either the leftward or the rightward travel of the carriage, said means including a device independent of the escapement to cause a variation in the relative positions of said stops in the direction of carriage travel and a device to move said transversely movable stop into cooperative relation with said second stop.

2,316,866
METHOD OF PREPARING CELLULOSE ESTERS
Gordon D. Hiatt and Loring W. Blanchard, Jr., Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application April 16, 1941, Serial No. 388,836
8 Claims. (Cl. 260—229)

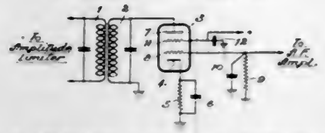
1. A process of preparing cellulose esters which comprises pretreating cellulose with nitromethane and subsequently acylating the cellulose with the anhydride of an aliphatic acid of 2–4 carbon atoms.

2,316,867
PACKAGING MACHINE
Stanley R. Howard, Milton, Mass., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass., a corporation of Massachusetts
Application February 25, 1942, Serial No. 432,224
11 Claims. (Cl. 93—36.3)



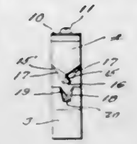
1. In a packaging machine, in combination, a continuously moving carrier provided with a plurality of carton holding pockets, each constructed to hold a carton with at least one set of end flaps extended, means for closing and adhesively sealing said end flaps, and means for applying substantial pressure to said adhesively sealed flaps to firmly set the same including a reciprocal member adapted to enter a carton while the latter is supported in said continuously moving pocket and to exert substantial pressure upon said sealed flaps.

2,316,868
FREQUENCY MODULATION DETECTOR
Seymour Hunt, Flushing, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application May 20, 1941, Serial No. 394,252
5 Claims. (Cl. 250—27)



1. In a detection circuit for angular velocity-modulated carrier waves, a tube provided with a cathode, an anode and at least two spaced control electrodes therebetween, a modulated wave input circuit connected between the anode and cathode for applying modulated waves thereto, means for establishing the anode at a negative direct current potential with respect to the cathode, means for establishing the control electrode adjacent the anode at a positive potential, means for establishing the control electrode adjacent the cathode at a negative potential, a load resistor in circuit between the cathode and the negative control electrode, and the potentials of said control electrodes and anode being so related that transit time current flows to said negative control electrode in response to the application of modulated waves to said anode.

2,316,869
STRIPPING IMPLEMENT
Samuel Jabour, Irvington, N. J.
Application May 21, 1942, Serial No. 443,947
1 Claim. (Cl. 81—9.5)



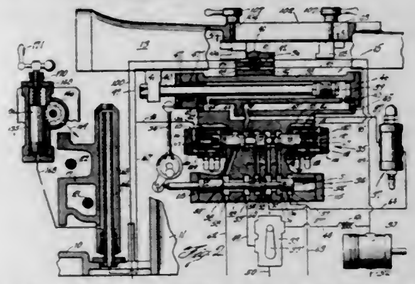
An implement of the class described comprising a pair of hand grip bars pivoted together in crossed relation for opening and closing movement, and a pair of opposed forwardly extending jaws on said arms, respectively, operative toward and from each other under opening and closing of said bars, respectively, said jaws embodying an inturned end tooth, respectively, one of said teeth comprising a socket having open front and rear sides for extension of an insulated wire therethrough and side walls converging rearwardly and also inwardly of the socket to provide a V-shaped rear cutting edge in said socket for cutting through said insulation, the other tooth having a triangular flat beveled end inclined forwardly and outwardly to provide a transversely straight rear cutting edge for entering said socket adjacent said first-mentioned cutting edge to cut through said insulation substantially opposite said first-mentioned cutting edge.

2,316,870
MANUFACTURE OF BRUSHES
George N. Jacob, Jr., Belleville, and Ernest B. Wright, Jr., Montclair, N. J.
Application December 18, 1941, Serial No. 423,434
7 Claims. (Cl. 15—193)



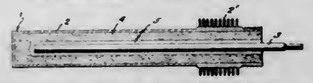
1. In a brush, a tubular sheet metal ferrule, a separate sheet metal plate within and disposed transversely of the ferrule intermediate the length of the latter with its edges abutting the walls of the ferrule and formed with integral projections, means including said projections rigidly securing said plate to said walls to form a socket opening through one end of the ferrule, said plate constituting the bottom wall of said socket, a mass of plastic material in said socket, bristles having their ends embedded in said plastic material, said plate having integral portions offset from the general plane thereof extending inwardly of the socket and interlocking with said mass of plastic material, and a handle secured in the other end of said ferrule.

2,316,871
HYDRAULIC MACHINE TOOL
Paul S. Jackson, Rockford, Ill., assignor to Rockford Machine Tool Company, Rockford, Ill., a corporation of Illinois
Original application April 8, 1937, Serial No. 135,728. Divided and this application October 28, 1939, Serial No. 301,684
9 Claims. (Cl. 90—38)



1. A hydraulic shaper comprising, in combination, a base, a column upstanding from the base and terminating at its upper end in horizontally disposed ways extending longitudinally of the base, a ram mounted for reciprocation in said ways, said ram having an elongated recess opening through the bottom thereof, a hydraulic actuating system for reciprocating said ram including a hydraulic motor operatively associated with the ram and a hydraulically controlled reversing valve for alternately reversing the flow of fluid to the motor, a pilot valve controlling said reversing valve, said pilot valve being mounted within the column at the top thereof and extending into the recess in said ram, and a plurality of dogs for actuating said pilot valve secured within the recess in said ram.

2,316,872
THERMAL CONTROL FOR ELECTRIC CIRCUIT
Robert R. Kernen, Georgetown, Ky.
Application April 10, 1941, Serial No. 387,987
10 Claims. (Cl. 201—76)

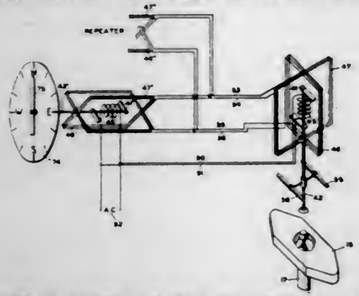


1. A thermal control for an electric circuit comprising two electrodes separated by a porous body of fused alumina containing sodium tetraborate diffused through the pores of said body.

2,316,873
REMOTE INDICATING COMPASS
Paul Kollsman, New York, N. Y., assignor, by mesne assignments, to Square D Company, Detroit, Mich., a corporation of Michigan
Application October 19, 1939, Serial No. 300,115
In Great Britain November 5, 1938
6 Claims. (Cl. 33—222)

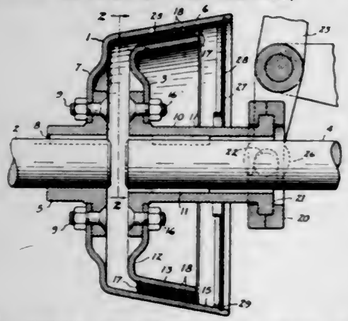
1. A remote reading compass device compris-

ing, in combination, a directional magnet; a remote indicator; and an A. C. remote transmission system of the self-synchronous type including an A. C. repeater connected to said indicator, and an A. C. transmitter electrically connected to said repeater, said transmitter being coupled with said directional magnet to be driven by the



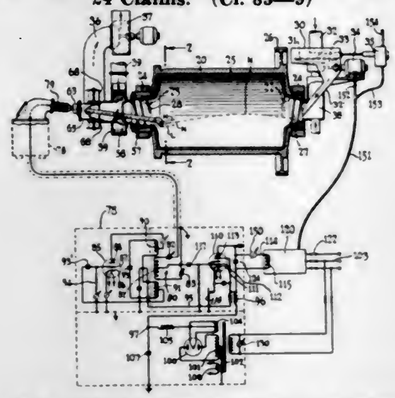
unamplified torque of the transmitter causing the transmitter to exert a reaction on said directional magnet, said remote transmission system having a period of oscillation different from the period of oscillation of said directional magnet, whereby the transmission system tends to dampen oscillations of the magnet and vice versa.

2,316,874
CONE CLUTCH
Herman T. Kraft, Akron, Ohio, assignor to The General Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application October 9, 1940, Serial No. 360,415
12 Claims. (Cl. 192—66)



1. A clutch comprising an outer member adapted to be carried by a rotatable shaft and adapted to rotate with said shaft, said outer member having an interior engaging surface of substantially frusto conical shape, an inner rotatable member carried by a second shaft substantially concentric with the engaging surface of said outer member, said inner member having a peripheral surface which is generally of conical shape, one of said conical surfaces having a plurality of deformable projections of wear resisting soft rubber-like material attached thereto which projections are adapted to bear against the other conical surface when the inner and outer members are pressed axially against each other, means for relatively moving said inner member and said outer member axially toward and away from one another and for exerting sufficient axial pressure to deform said projections to a more acute angle with respect to said shafts whereby the force exerted by said projections in an attempt to retain their molded height has a sufficiently large component in the direction of the shafts to retain the conical surfaces of the members in driving engagement without continued application of axial pressure by said moving means.

2,316,875
PULVERIZING MILL CONTROL SYSTEM
Jean L. Laboulais, New York, N. Y., assignor to Kennedy-Van Saun Mfg. & Eng. Corporation, a corporation of Delaware
Application October 5, 1940, Serial No. 359,953
24 Claims. (Cl. 83—9)

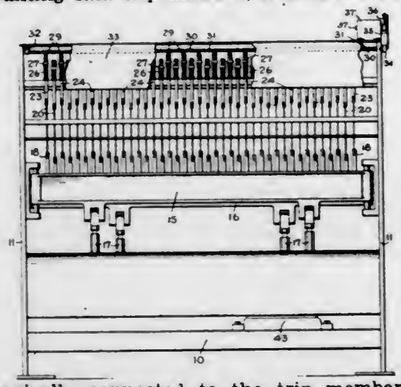


1. In a control system for an impact pulverizer having a revolving enclosure containing grinding means and material subjected to pulverization by the revolving action of the enclosure, control means having a control circuit which is resonant at a radio frequency including a circuit control condenser having relatively small effective condenser areas separated by a condenser space exposed to the interior of the enclosure, oscillator means outside said enclosure for impressing on said control circuit predetermined electric oscillations of a frequency that is of the order of a tenth of the resonant frequency of said control circuit and so chosen that at the frequency of the impressed oscillations, the reactive impedance of the control condenser is a multiple of the reactive impedance of the part of the control circuit connected in series therewith and is materially modified by changes in the level of the material in the proximity of said condenser, but is only relatively little affected by variations of the leakage resistance of the material in the proximity of said condenser, said control circuit, said circuit control condenser, said oscillator means and other associated elements of said control means being arranged, proportioned and correlated to cause said control condenser to produce in response to predetermined variations of the operating conditions in the proximity of said control condenser correlated variations of the oscillations in said circuit, and pulverizer operating means actuated by said control means for maintaining predetermined operating conditions in said enclosure in response to the actuation of said control means by variations in the oscillations in said control circuit.

2,316,876
SLICING MACHINE
Herbert G. Lothes, Cincinnati, Ohio, assignor to The Kroger Grocery & Baking Company, Cincinnati, Ohio, a corporation of Ohio
Application June 23, 1941, Serial No. 399,346
5 Claims. (Cl. 192—129)

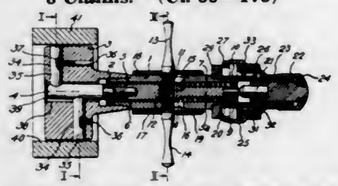
1. In a machine for slicing bread and like ma-

terial, a gang of cutter blades and holders therefor, means mounting said blades and holders for reciprocatory movement, means for imparting reciprocation to said blades and holders including an electric motor, resilient means individually associated with said holders and whereby should any one of the blades become broken or freed from its holder, the latter will be forced upwardly out of normal operating position, a trip member common to all of said holders, means movably mounting said trip member, a limit switch me-



chanically connected to the trip member and electrically connected to the motor, the trip member having a portion located over the holders but spaced from the latter such distance as will permit normal operation of the holders and blades but in the event of breakage of one or more of said blades or disconnection of a blade from its holder, the holder will be forced upwardly by its associated resilient means and actuate the trip member and through said trip member throw the limit switch and stop the motor.

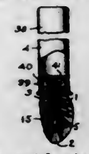
2,316,877
MICROMETER GAUGE
Max Maag, Zurich, Switzerland
Application March 4, 1941, Serial No. 381,687
8 Claims. (Cl. 33—178)



1. An internal micrometer gauge comprising in combination, a casing having an opening extending therethrough, a slidable member having its forward conical end mounted for floating axial movement therein, and members radially disposed and movable in said casing, said radially movable members adapted to engage the bore being gauged at their outer ends and to engage the conical end of said slidable member at their inner ends.

2,316,878
FINGER SPONGE DEVICE
Nick Mandalou, New York, N. Y.
Application October 3, 1940, Serial No. 359,477
6 Claims. (Cl. 15—244)

3. In a spongy device, a piece of spongy material having a relatively dense hard axial core decreasing in density radially away from said core, handle means and a wire having its one end secured to said handle means and its opposite end engaging said piece by engaging said core.



2,316,879
MECHANISM FOR TRUING HOLES
Emil Mattson, Chester Depot, Vt., assignor to Bryant Chucking Grinder Company, Springfield, Vt., a corporation of Vermont
Application September 24, 1941, Serial No. 412,165
7 Claims. (Cl. 51—184.3)



1. A device of the class described, comprising a body member, a plurality of cutting elements carried by said body member spaced angularly about its axis, means for simultaneously moving said elements from and toward the axis of said body member, a feeler element fixed during operation of the device and carried by said body member between certain of said cutting elements, and means for adjusting said feeler element toward and from the axis of said body member.

2,316,880
ARCHERY BOW
Walter L. Miller, Teaneck, N. J.
Application October 28, 1941, Serial No. 416,810
2 Claims. (Cl. 124—23)

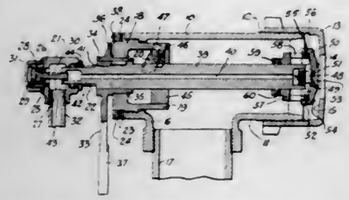


1. An archery bow comprising a wooden base member having its belly faced with a relatively thin strip of a thermo-setting plastic material that has been applied so as to be under a compressive strain when said bow is unbraced and at rest, said thermo-setting plastic material consisting of an aldehyde compound combined with any suitable combining component.

2,316,881
OIL BURNER
Albert W. Morse, Forest Hills, and Vincent Singer, Glendale, N. Y., assignors to The Anthony Company, Long Island City, N. Y., a corporation of New York
Application May 28, 1941, Serial No. 395,628
7 Claims. (Cl. 158—76)

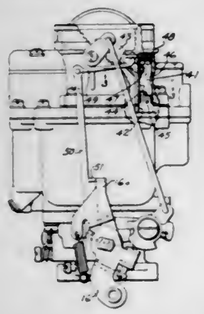
1. In an oil burner, an elongated casing with

an air inlet at its side and an air outlet at its front end, an adjustable air cap at said outlet, a valve housing secured to the rear end of said casing having an oil inlet, an oil valve plug in said housing having a cross section of gradually decreasing area in one direction along the plug toward said outlet, an oil tube through said casing, means slidably supporting said tube within said casing, one end of said tube slidably engaging



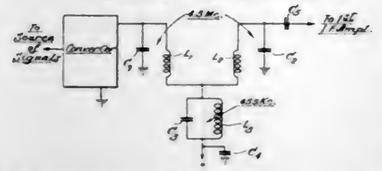
said valve plug, an oil nozzle secured to the other end of said tube, an air deflector cap supported upon said tube around said nozzle, and operating means to slide said tube over said valve plug in a direction away from said outlet whereby an increased area of opening between said plug and said tube is brought into communication with the inside of said tube, said operating means simultaneously increasing the distance between said deflector cap and the air adjusting cap.

2,316,882
CARBURETOR VAPOR RELIEF VALVE
James T. W. Moseley, Clayton, and George E. Seldon, Kirkwood, Mo., assignors to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware
Application November 19, 1940, Serial No. 366,270
1 Claim. (Cl. 261—72)



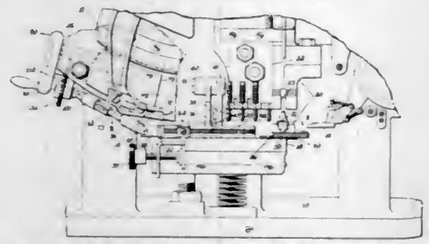
In a carburetor, a mixture conduit having a throttle therein, a fuel reservoir having a portion above the normal fuel level, a tubular passageway having ports connecting said reservoir above the normal fuel level respectively with the mixture conduit and with atmosphere, a valve means for alternately opening and closing communication between said ports and said reservoir, and means actuated by movement of the throttle to closed position to move said valve means to a position establishing open communication between the reservoir and atmosphere, said means also operating the valve means reversely to close communication between the reservoir and atmosphere and open communication between the reservoir and mixture conduit upon movement of said throttle toward open position.

2,316,883
DUAL SIGNAL FREQUENCY TRANSMISSION NETWORK
Garrard Mountjoy, Manhasset, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application January 7, 1941, Serial No. 373,383
6 Claims. (Cl. 178—44)



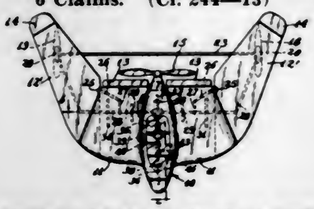
2. In combination with a pair of parallel resonant circuits each tuned to the same carrier frequency, a third parallel resonant circuit common to said pair of circuits, said third resonant circuit being tuned to a sufficiently lower carrier frequency to cause said pair of circuits to be ineffective at said lower carrier frequency, and the third circuit including a reactive element adapted to function as the sole reactive coupling between said pair of resonant circuits at the carrier frequency of the latter.

2,316,884
GAUGING MEANS FOR TAPING MACHINES
John R. Oliver, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application January 13, 1942, Serial No. 426,585
11 Claims. (Cl. 12—51)



1. In a taping machine, a work support, tape transferring means for moving the leading end of the tape to a predetermined point with respect to the work support, control means for adjustably determining said predetermined point, an adjustable gauge to locate the work on the work support, and means simultaneously to adjust said control means and said gauge means.

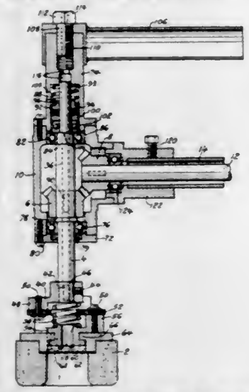
2,316,885
AIRPLANE
Carlos Ortega, New York, N. Y.
Application July 3, 1941, Serial No. 400,883
6 Claims. (Cl. 244—13)



1. An airplane having a fuselage with a pair of laterally extending wings and a landing wheel

on the bottom front end of said fuselage, rearwardly and laterally extending wing tip sections continuing from the ends of said wings, said wing tip sections being pivotally mounted on the back outer corners of said wings to be movable outwards and forwards relative to said wings, spaced rear landing wheels disposed beneath said wing tip sections, a frame slidably mounted within said wings and having ends extended from said wings and rearwards beneath said wing tip sections, means mounting said rear landing wheels thereon, means connecting said wing tip sections to the portion of said frame disposed within said wings to pivot said wing tip sections outwards and forwards relative to said wings and to simultaneously move said rear landing wheels rearwards relative to said fuselage.

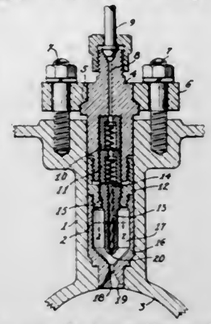
2,316,886
GRINDING MACHINE
Eugenio Pascucci, Hamilton Township, Mercer County, near Trenton, N. J.
Application September 29, 1941, Serial No. 412,718
3 Claims. (Cl. 51—177)



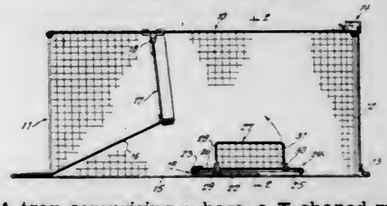
1. A grinding machine having a stone, a shaft for rotating said stone and located in axial alignment therewith and axially yieldable means for connecting the stone to the shaft comprising, an attaching member fixedly secured to the shaft, a connector member fixedly secured to said stone, a flexible member connected to said attaching member and to said connector member, and a compressible spring located between said attaching member and connector member urging said members apart so as to take up vibration between the shaft and stone when the machine is in operation.

2,316,887
FUEL INJECTION SYSTEM
Walker M. Pate and Harvey E. Burgdorf, Ferguson, Mo.
Application November 6, 1939, Serial No. 303,002
2 Claims. (Cl. 123—32)

1. In a fuel-injection system for an internal combustion engine of the character described having a cylinder provided with a combustion chamber, a fuel-injection unit removably mounted in the engine comprising, a body having means for attachment to the engine and having a fuel duct therethrough, means on said body providing an air chamber having a restricted passage for access thereto, and a fuel nozzle on said body projecting into said chamber to be immersed in the air therein and having a fuel duct connected with said duct through said body, the tip of said nozzle being positioned and arranged within said storage chamber but close enough to said passage to project its fuel jet through said passage to be ignited therebeyond.



2,316,888
TRAP AND BAIT BOX THEREFOR
Frederick Schreyer, Jamaica, N. Y., assignor of forty-nine per cent to William Bicknese, Jamaica Beach, Jamaica, N. Y.
Application October 8, 1941, Serial No. 414,061
1 Claim. (Cl. 43—58)



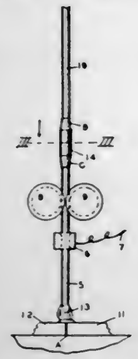
A trap comprising a base, a T-shaped member secured flat against said base, the extremities of the cross-arm and the extremity of the stem of said T-shaped member being turned upward and inward to provide yieldable friction grips thereon, a bait box in said trap having a platform slidably mounted between said first-named grips, said last-named friction grip serving simultaneously as a limit stop for said platform when the latter has been slid home between said first-named grips and as a yieldable lock to prevent withdrawal of said platform through said first-named grips, a hood on said platform having one lower edge thereof hingedly secured to said platform, and means for releasably locking said hood on said platform.

2,316,889
MINERAL OIL COMPOSITION AND IMPROVING AGENT THEREFOR
Orland M. Reiff, Woodbury, N. J., Ferdinand P. Otto, Philadelphia, Pa., and John J. Giammaria, Riverside, and Edward A. Oberright, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application January 20, 1940, Serial No. 314,794
12 Claims. (Cl. 252—57)

1. An improved mineral oil composition comprising a viscous mineral oil fraction having admixed therewith a minor proportion of an alkyl-substituted aromatic-aliphatic carboxylic acid in which a carbon atom of the aromatic nucleus is directly attached to a carbon atom of the aliphatic group of said acid and in which the alkyl

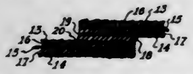
substituent is attached to the aromatic nucleus and is derived from an aliphatic hydrocarbon material having at least twenty carbon atoms.

2,316,890
WELDING ROD CONNECTOR
Claire Elmer Rockne, Napa, Calif.
Application July 4, 1942, Serial No. 449,776
1 Claim. (Cl. 287—126)



In combination with a pair of welding rods, of a connector therefor formed of the same material as said welding rods, said connector comprising a tubular member having tapered ends and bores formed therein, said bores in axial alignment one with the other, whereby when welding rods are inserted therein said rods will be held in axial alignment, the bores of said connector being the same diameter as said welding rods, whereby the welding rod during use will maintain said rod and said connector in engagement through equal expansion, and a dividing wall between said bores against which said rods abut.

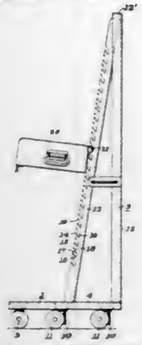
2,316,891
IMPERVIOUS FABRIC AND SEAM THEREIN
William Wallace Rowe, Cincinnati, Ohio, assignor to Cincinnati Industries, Inc., Lockland, Ohio, a corporation of Ohio
Application October 10, 1941, Serial No. 414,522
9 Claims. (Cl. 154—42)



1. A process of preparing composite fabrics comprising a pervious, felted surface web joined by a layer of waterproofing substance to another web, for the formation of seams in said composite fabric, the said process comprising applying a solvent for said waterproofing substance to said pervious felted surface web so as to cause the said solvent to penetrate the said web throughout its thickness and over the area of proposed seam formation therein, whereby the said solvent enters said web by capillarity over the said area and dissolves a portion of said waterproofing substance, carrying said substance by diffusion through the thickness of said web in said area from the coated side of said web toward the free side, limiting the quantity of said solvent so as to preserve the bond of said surface web with another web in said composite fabric, and thereafter permitting said solvent to evaporate, leaving the solute so dispersed throughout the permeated web as to destroy normal capillary action in said web.

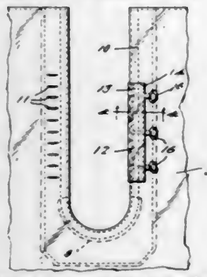
7. A composite fabric comprising an external felted web normally permeable by capillary action adhered to another web by a layer of waterproofing substance, and including a dispersion of said substance through the permeable web over restricted areas from the edge thereof derived from said substance by capillary distribution of a portion of the substance in a solvent which when evaporated destroys the normal capillarity of the felted web.

2,316,892
REMOVABLE TRAY RACK CONSTRUCTION
Samuel Saul, Jr., Pittsburgh, Pa.
Application November 14, 1942, Serial No. 465,625
7 Claims. (Cl. 211—71)



5. A rack structure of the class described comprising a base, an upright load-carrying structure on the base, said load-carrying structure including inclined parallel bars, each bar having a forwardly projecting flange notched at intervals to provide a series of hooks, the under side of each hook having a substantially right angular shoulder thereon spaced over the point of the hook which is under it and being sloped inwardly and downwardly from said shoulder to the back edge of the notch which intervenes between successive hooks, and a removable tray structure having means along its upper edge to engage over selected hooks on said bars with the back wall of the tray braced against the edges of the flanges of the inclined bars.

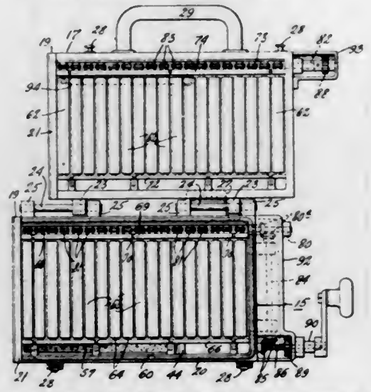
2,316,893
BARBER'S APRON
T. Edd Shaw, Atlanta, Ga.
Application February 12, 1942, Serial No. 430,688
1 Claim. (Cl. 2—50)



A barber's apron comprising a sheet of flexible material having an elongated yoke forming opening in one edge thereof for accommodating the neck, said sheet having a row of buttonholes

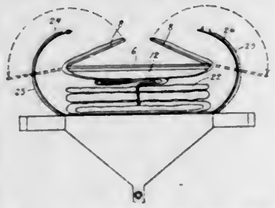
therein extending along one side edge of the opening, a binding strip overlapping the sheet at the opposite side edge of the opening and sewed thereto to extend along said side edge opposite the row of buttonholes, and flexible fasteners comprising shanks secured between said sheet and strip in a row and by said stitches, said fasteners having knotted ends for insertion through selected buttonholes, the number of buttonholes in said row exceeding the number of fasteners to provide for variably connecting the fasteners to fit the opening around necks of different sizes.

2,316,894
DEVICE OR APPARATUS FOR TREATING HAIR
Albert Shelby and Carl F. Hilgeman, Buffalo, N. Y.; said Hilgeman assignor to said Shelby
Application July 11, 1941, Serial No. 401,928
26 Claims. (Cl. 132—36)



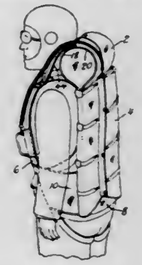
1. A device for treating hair comprising a sectional casing providing a treating chamber, and adapted to be opened for placing therein for treatment a tress of the hair of a person's head, means for stationarily supporting said casing in different adjusted positions with one end thereof close to the head, means for clamping and holding the tress adjacent to the head, means in said casing for holding a liquid, means for heating the liquid in the casing to generate steam in said chamber, and means constructed and arranged to subject the hair in the chamber to a straightening tension in the presence of the steam.

2,316,895
PARACHUTE AND PARACHUTE PACK
Floyd Smith, Manchester, Conn., assignor to Pioneer Parachute Company, Inc., Manchester, Conn., a corporation of Connecticut
Application September 6, 1939, Serial No. 293,542
22 Claims. (Cl. 244—148)



1. A parachute pack comprising a main parachute, a pilot chute connected to said main parachute and having a frame of substantially the same size and shape as the outline of the pack and serving to maintain a portion of the canopy of the pilot chute extended at all times and a flexible enclosure for said main parachute and pilot chute, said enclosure having a part thereof movable to release the pilot chute and main parachute, said main parachute and pilot chute being arranged within said enclosure with the extended portion of said pilot chute on top of the folds of the main parachute and adjacent the movable part of said enclosure and with said frame extending about the edges of the pack within the enclosure to preserve the shape of the pack.

2,316,896
PARACHUTE PACK
Floyd Smith, Manchester, Conn., assignor to Pioneer Parachute Company, Inc., Borough of Manchester, Conn., a corporation of Connecticut
Application November 15, 1939, Serial No. 304,559
22 Claims. (Cl. 244—148)

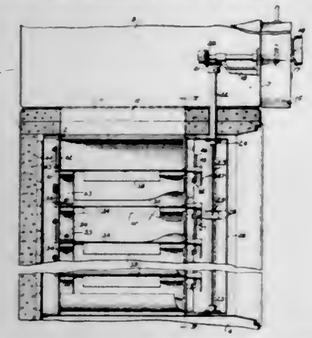


1. A parachute back pack of generally rectangular outline having a cover formed with a back portion side flaps, a top flap and a bottom flap foldable into overlapping relation in closing the pack, said top flap extending from said back portion at substantially right angles to said side flaps and permanently being connected to the side flaps along a portion of the edges thereof whereby a recess is formed for receiving a part of a parachute canopy to form a relatively thick pack portion, said side flaps and bottom flaps being separated at their edges and adapted to receive the remainder of said parachute to form a thin pack portion, elastic means connected to the side flaps to draw them apart on release thereof, and spreader means extending transversely of said thin pack portion to hold said portion of the pack extended and formed with portions located adjacent the longitudinal edges of the thin portion of the pack and beneath the elastic means for overcoming the tendency of the elastic means to compress the pack at the edges.

2,316,897
VENDING MACHINE
Milton Lee Smith, Oak Park, Ill.
Application September 9, 1939, Serial No. 294,103
6 Claims. (Cl. 312—48)

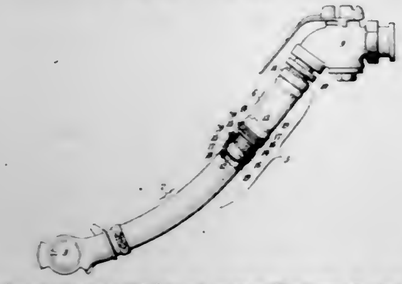
1. A self-service type of vending machine comprising a refrigerator box, a dispenser unit mounted in the box, a plurality of trays forming a part of the dispenser unit for carrying filled containers to feed by gravity through the trays toward a dispensing position, adjustable means in the trays for varying the size of the container space depending upon the length of the containers to be dispensed, a stop mechanism in eacn

of the trays for controlling the discharge of the filled containers one at a time into a dispensing position, a latch means co-acting with each of the stop mechanisms for normally holding the same locked against operation, a selector mechanism manually shiftable into a position to register with a selected tray, and a control mechanism on the refrigerator box and connected with the selector mechanism to actuate the same to move the selector mechanism into position to retract



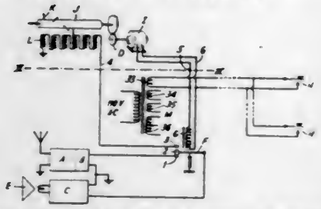
the latch means and then actuate the stop mechanism of a selected tray to move the stop mechanism into a position to release a single filled container from the tray permitting the released container to roll into dispensing position to be removed from the refrigerator box by the operator of the machine, said stop means when actuated to release a container also serving to hold the remaining contains in a tray against discharge.

2,316,898
REPAIR CONNECTOR FOR FLEXIBLE HOSE
Carleton K. Steins, Merion, Pa., assignor to The Pennsylvania Railroad Company, Philadelphia, Pa., a corporation of Pennsylvania
Application April 29, 1942, Serial No. 441,055
1 Claim. (Cl. 285—76)



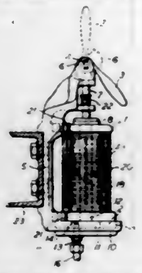
As a new article of manufacture a tubular metal connector of desirable size for joining lengths of air-brake or signal-line hose, said connector having a smooth bore and an exterior half-round bead, of approximately one thirty-second of an inch radius, medially between its ends; complemental grip sections to each side of said bead with a slight degree of outwardly-converging exterior taper; opposedly-directed bulbiform extensions beyond the grip sections, each said extension having the root portion inward and merging into the grip section by a fillet of minute radius, and the radius of the convex part of said root being materially greater than that of the fillet with the concave portion thereof of still greater radius than that of said convex part; and each bulbiform extension having a small circumferential rounding at its extremity, whereby said connector, as a unit, is easily inserted in the lengths of hose to be joined together and has no angularities conducive to the formation of leakage grooves, while the confronting ends of said hose can be brought into positive sealing juncture centrally of the bead aforesaid.

2,316,899
REMOTE CONTROL
Walter Willie Stolzenberg, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application December 28, 1940, Serial No. 372,187
6 Claims. (Cl. 250—40)



1. In radio signaling apparatus provided with tuning means and with a plurality of selectively operable devices each acting upon operation to control the tuning means so as to tune said apparatus to a predetermined frequency, a motor driven cam device acting upon operation to operate the selectively operable devices in a predetermined sequence, switching means for controlling the operation of said cam device and to stop it in any desired position, and means for producing a distinct audible signal upon the operation of each of said selectively operable means.

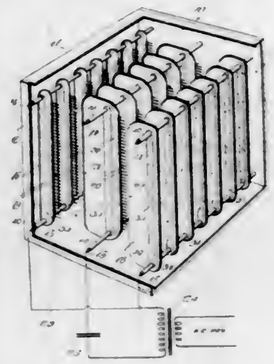
2,316,900
APPARATUS FOR THE TREATMENT OF YARN PACKAGES
William Ivan Taylor, Spondon, near Derby, England, assignor to Celanese Corporation of America, a corporation of Delaware
Application June 10, 1941, Serial No. 397,407
In Great Britain July 10, 1940
3 Claims. (Cl. 34—104)



1. Apparatus for drying bobbins of yarn, comprising a clamping frame for receiving a bobbin having a perforated barrel, a clamp mounted on said clamping frame and having means thereon for closing the bore of the bobbin barrel and means for urging said closing means against the bore of the barrel so as to press the barrel against another part of said clamping frame, means associated with said clamping frame for supplying compressed gas to the bore of the barrel, and a normally closed valve in said supply means said valve being adapted to be opened by engagement

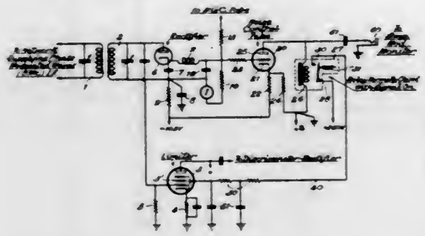
of said bobbin therewith, the construction and arrangement being such that the valve is opened by the action of the clamp in clamping the bobbin in position.

2,316,901
ELECTRODE
John Thomay, Columbus, Ohio, assignor, by mesne assignments, to Games Slayter, Newark, Ohio
Application January 31, 1941, Serial No. 376,935
8 Claims. (Cl. 230—69)



1. An electrode having a body portion which is a relatively poor conductor of electricity, a semi-conducting material enclosing said body portion for imparting a resistive characteristic to the surface of the body, and a bus connector supported exteriorly of and directly on the body in electrical contact with the semi-conducting material.

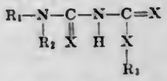
2,316,902
NOISE CONTROL CIRCUIT
Bertram Trevor, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application October 22, 1941, Serial No. 416,027
10 Claims. (Cl. 250—20)



5. In a phase modulation receiver of the type operating in the ultra-high frequency range and including a limiter tube provided with input and output electrodes and a screen grid electrode, a direct current circuit for keping said screen grid at a positive voltage, a rectifier coupled to the limiter tube input electrodes for deriving from relatively slow carrier amplitude variation a proportionally variable direct current voltage, means for controlling the gain of the receiver in response to said voltage, and additional means responsive to said voltage for controlling the limiter screen grid energization circuit.

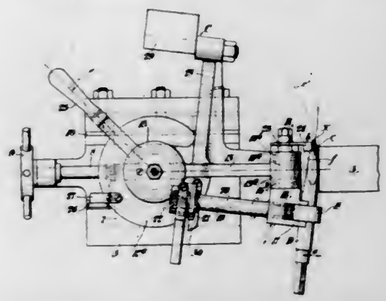
2,316,903
ADDITION AGENT FOR LUBRICANTS
Paul R. Van Ess, Berkeley, and Ellis R. White, Albany, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application December 26, 1941, Serial No. 424,543
7 Claims. (Cl. 252—47)

7. An improved lubricating oil comprising a mineral lubricating oil containing dissolved therein a small amount of an allophanate having the general formula



wherein R_1 and R_2 are radicals selected from the group consisting of hydrogen and hydrocarbon radicals, R_3 is a radical having at least 6 carbon atoms selected from the group consisting of aliphatic, alicyclic, aromatic, and mixed cyclic and chain radicals, and X is a radical selected from the group consisting of oxygen and sulfur.

2,316,904
GRINDER ATTACHMENT
William Van Triest, Pittsburgh, Pa.
Application November 22, 1940, Serial No. 366,749
3 Claims. (Cl. 51—234)

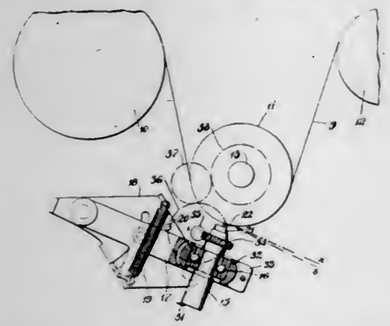


2. A grinder attachment of the character described including a base member adapted to be secured to a grinder adjacent the wheel thereof, a carriage slidably mounted on the base for adjustment thereof in relation to the wheel, means for securing the carriage in adjusted position, a head mounted on the carriage for rotation transversely of the rotation of the wheel and having a radial arm extending toward said wheel, a holder for gripping a chisel disposed at the free end of said arm, said holder including means for supporting the chisel with its longitudinal axis at an angle to the face of the wheel, the holder being pivoted on said arm for free rocking movement of the holder and chisel about an axis at an angle to said chisel axis, a second arm extending radially from the head and having a chisel grinding support at the free end thereof adapted to be selectively positioned adjacent the wheel upon rotation of the head, and coacting stops on the carriage and head for effecting registry of the supports with the wheel upon rotation of the head.

2,316,905
SELENIUM RECTIFIER
Ferdinand Waibel, Berlin-Charlottenburg, and Erich Nitsche, Berlin-Falkensee, Germany, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application April 19, 1941, Serial No. 389,470. In Germany June 30, 1939
5 Claims. (Cl. 175—366)

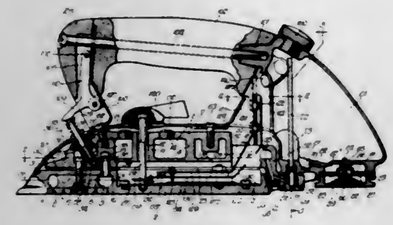
1. An electrical semi-conductor of selenium, in particular for use in dry rectifiers in which the selenium contains a substance from the group which consists of selenium chloride and selenium bromide.

2,316,906
TAPE MARKER
William Bell Wait, New York, N. Y.
Application July 11, 1940, Serial No. 344,908
7 Claims. (Cl. 234—70)



1. In recording mechanism for marking upon a movable sheet, a rotating marker of a material worn away by friction against the sheet and movable crosswise of the sheet, branched means for moving the sheet and for rotating the marker, and means for moving the marker crosswise of the sheet and cooperating with the branch of said first mentioned means rotating said marker to rotate the marker in proportion to the amount of movement of the marker crosswise of the sheet.

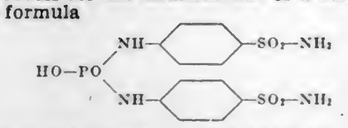
2,316,907
ELECTRIC PRESSING IRON
Stanley Wallace, Chicago, Ill.
Application July 11, 1939, Serial No. 283,860
25 Claims. (Cl. 38—77)



8. In a steam iron which includes a boiler and a water tank, a water passage leading from the tank to the boiler, a normally closed valve in said passage, and a thermostatic device including a bi-metallic strip for opening said valve responsive to a predetermined boiler temperature.

2,316,908
PHOSPHORIC ACID DERIVATIVES OF BACTERICIDAL COMPOUNDS AND MANUFACTURE THEREOF
Kurt Warnat, Basel, Switzerland, assignor to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey
No Drawing. Application August 19, 1939, Serial No. 291,104. In Germany August 27, 1938
3 Claims. (Cl. 260—397.7)

2. Process for the manufacture of a compound of the formula

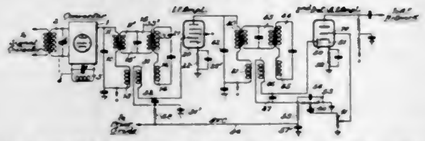


comprising reacting a compound of the formula



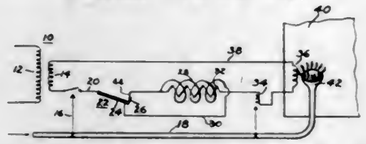
with sulphanilic acid amide and treating the reaction product formed with an aqueous solution of a base.

2,316,909
SELECTIVE TUNED CIRCUITS
Roy A. Weagant, Douglaston, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application May 15, 1941, Serial No. 393,532
10 Claims. (Cl. 250—20)



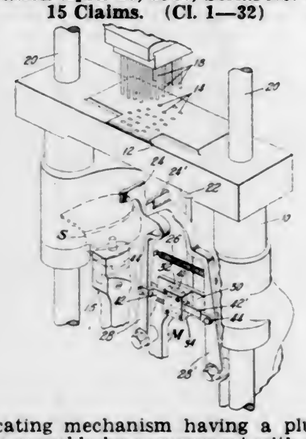
1. In combination, at least two tuned circuits arranged in cascade and resonant to a common desired frequency, a tuned network resonant to the same frequency, said tuned network being so reactively coupled to each of the two circuits that the amplitude of currents induced in the tuned network varies in accordance with the relative phase relations of the currents in the said two circuits and the reactive couplings being so relatively phased that currents of said desired frequency are additively induced in said tuned network.

2,316,910
ELECTRICAL IGNITION SYSTEM FOR GASEOUS FUEL BURNERS
Victor Weber, Greensburg, Pa., assignor to Robertshaw Thermostat Company, Youngwood, Pa., a corporation of Pennsylvania
Application May 7, 1941, Serial No. 392,290
7 Claims. (Cl. 175—115)



1. An electric ignition device for fuel burners, comprising in combination, a transformer having its primary coil energized from a source of current supply subject to voltage variation, an electric igniter in circuit with the secondary coil of said transformer, means in said circuit for reducing current variations through said igniter, said means producing high inrush current conditions before becoming operative, means in said circuit for preventing said inrush current from reaching said igniter, and means operable to discontinue current flow through the last said means after the first said means becomes operative.

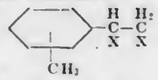
2,316,911
WORK-LOCATING MECHANISM
Charles K. Woodman, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application April 10, 1942, Serial No. 438,482
15 Claims. (Cl. 1—32)



1. Locating mechanism having a plurality of members movable by engagement with the work, and means for connecting the members to move together, said connecting means being effective only when force is applied from the work through a plurality of the engaging members.

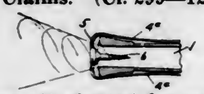
2,316,912
TOLYLETHYL BUTYRATE AND PROCESS FOR MAKING SAME
Frank J. Soday, Swarthmore, Pa., assignor to The United Gas Improvement Company, a corporation of Pennsylvania
No Drawing. Application January 11, 1940, Serial No. 313,342
5 Claims. (Cl. 260—488)

1. A tolylethyl butyric ester having the following structural formula:



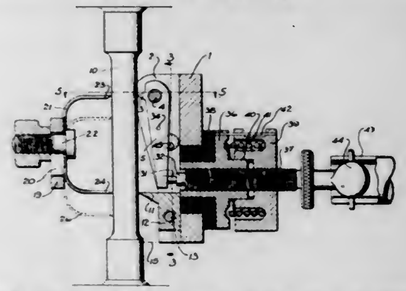
in which one X represents hydrogen and the other X represents C_3H_7—COO—.

2,316,913
SPRAYING ATTACHMENT FOR FIRE HOSE
Frank C. Stiefel, Narberth, Pa.
Application January 23, 1942, Serial No. 427,847
2 Claims. (Cl. 299—120)



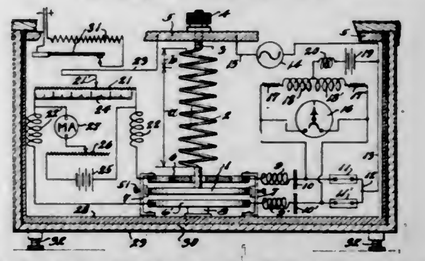
1. A spraying attachment for conventional fire hose nozzles which is readily applicable thereto and removable therefrom and which requires no alteration therein to permit complete functioning of the attachment; the attachment consisting of a tapering sleeve adapted to be slidably mounted on the taper surface of the nozzle, and free for endwise movement thereon and over the discharge end thereof but held at rest toward the other end of the nozzle by frictionally binding thereon, a headed screw adapted to axially enter the bore of the discharge end of the nozzle and provide a fine spray and to be withdrawn therefrom to provide a jet, arms projecting from the sleeve toward the end of the nozzle, and a bridge of wire attached to the ends of the arms and to the head of the screw, the arms being of such length that when the sleeve binds on the nozzle the screw projects into the discharge end of the nozzle.

2,316,914
EXTENSOMETER
Richard L. Templin, New Kensington, Pa.
Application October 21, 1941, Serial No. 415,902
4 Claims. (Cl. 33—148)



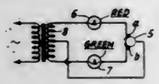
1. A strain follower comprising, in combination, a frame having a pair of axially adjustable gauge points to effect different gauge lengths, and a clamp provided with a pair of axially spaced members for engaging the specimen on the opposite side thereof, and means whereby said clamp is adapted to have a plurality of different clamping positions, one for each of said gauge lengths.

2,316,915
APPARATUS FOR AMPLIFYING AND MEASURING SMALL DISPLACEMENTS
Orley H. Truman, Salt Lake City, Utah
Application October 12, 1939, Serial No. 299,205
12 Claims. (Cl. 265—1.4)



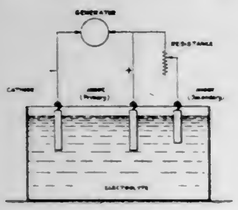
1. In apparatus for amplifying and measuring minute displacements, the combination of an electrical resonant circuit which includes a capacitance which is variable in response to the displacement to produce a current flow in said circuit which is a function of the displacement, and a potentiometer circuit operatively connected with the capacitance of the resonant circuit for normalizing the capacitance of the latter circuit, said potentiometer circuit including means for measuring the normalizing effect thereof as a function of the displacement.

2,316,916
TUNING INDICATOR DEVICE
Arnold T. Vossen, Eindhoven, Netherlands, assignor to Radio Corporation of America, a corporation of Delaware
Application February 29, 1940, Serial No. 321,412
In the Netherlands July 29, 1939
3 Claims. (Cl. 250—40)



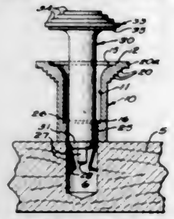
1. In a multi-band receiver of the type having a main reactor which is continuously variable for tuning the receiver through at least a plurality of high frequency bands and which is adjustable to a single predetermined position in each of said high frequency bands, said positions being different for said several bands, and an auxiliary reactor continuously variable to tune the receiver through each of said high frequency bands and for effecting band spread in each band, means for effecting substantially accurate adjustment of the main reactor to said predetermined positions and for visually indicating the same, comprising a member movable with the main reactor, a plurality of pairs of closely spaced contacts, one pair for each predetermined position, carried by said member, said contact pairs being spaced apart in the same angular relation as the predetermined positions of the main reactor, a normally open circuit including a visual indicator individually connected to each contact of said pairs, and a fixed contact disposed in the path of the movable contacts adapted upon varying the main reactor to successively close first one, then both and finally the other of each of said normally open pairs of circuits whereby the accurate adjustment and the position of the tuning reactor on either side thereof are visually indicated.

2,316,917
PROCESS FOR ELECTRODEPOSITING IRON
Edward H. Wallace, Detroit, Mich., and Ralph K. Iler, Cleveland, Ohio, assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application October 18, 1941, Serial No. 415,526
6 Claims. (Cl. 204—48)



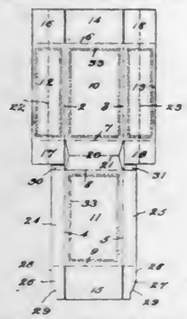
1. A method of electrodepositing iron from a prepared solution of ferrous chloride containing a ferric ion concentration of between .01 and .45 gram per liter and having a pH value of between .8 and 1.4 comprising passing current between a cathode and a soluble ferrous anode immersed in said solution, and maintaining in the solution during substantially the entire operation a ferric ion concentration and a pH value within the said range for ferric ion concentration and pH, to provide a substantially self-sustaining deposit of iron by continuous operation.

2,316,918
KNOB DEVICE
Frank C. Wallace, Los Angeles, Calif., assignor to Monogram Manufacturing Co., Los Angeles, Calif., a corporation of California
Original application December 13, 1940, Serial No. 369,917. Divided and this application April 6, 1942, Serial No. 437,751
3 Claims. (Cl. 16—121)



1. A pull comprising a hollow knob having a neck portion adapted to be secured at its lower end to an object, and a relatively large head, said head consisting of a lower portion presenting an upwardly opening socket, a cap presenting a depending flange fitting into the socket, and means for securing the neck portion of said object, including a longitudinally split tube projecting from the neck portion and presenting radially expansible prongs engageable in said object, and an expander pin depending from the cap and having a beveled lower end for insertion in the tube to radially expand the prongs.

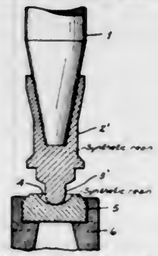
2,316,919
CONTAINER
Harry F. Waters, New York, N. Y.
Application July 5, 1940, Serial No. 343,926
5 Claims. (Cl. 229—14)



1. A flat folded carton having at least four parallel fold lines which define a pair of opposed main panels and a pair of opposed end panels, the said end panels comprising inner and outer panel sections, the outer overlying the inner and secured thereto at the free edge of the outer, defining with the inner panel section a free space or pocket, a liner envelope for said carton fastened so as to move with said pairs of opposed panels whereby when the carton is erected it results in a rectangular-shaped lined container, said envelope being constituted of a sheet of flexible material folded and sealed along marginal strips defining lateral fins at the edges of the strips and extending in the free spaces or pockets of said end panels, top closure flaps for said panels, said top flaps of the end panels being in sliding, gripping engagement with the upper terminal regions of said lateral fins whereby in the erected position of said carton

and said envelope the mouth portions of said envelope are flattened into a face to face relationship in the plane of the hinge lines of the top flaps by folding down the top flaps of said end panels into a substantially horizontal position.

2,316,920
ELECTRICITY METER
Ernst Weber, Zug, Switzerland, assignor to Landis & Gyr, A-G., Zug, Switzerland, a corporation of Switzerland
Application October 26, 1939, Serial No. 301,351
In Switzerland October 28, 1938
3 Claims. (Cl. 308—159)



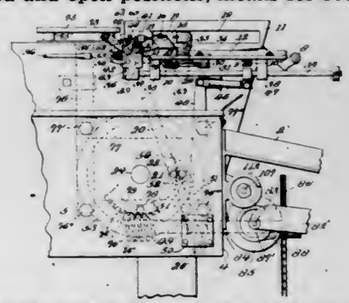
1. A step bearing for a precision instrument, such as an electric meter, comprising fixed and rotatable bearing members, said members being provided with concave and convex bearing surfaces in abutting relationship, both of said bearing members being composed of a thermoplastic resin selected from the group consisting of a benzyl cellulose synthetic resin and an acrylic synthetic resin.

2,316,921
PROCESS OF PREPARING ACETALS OF POLYVINYL ALCOHOL
Adolf Weihe, Bad Soden in Taunus, and Fritz Herrlein, Frankfort-on-the-Main-Hochst, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application February 23, 1939, Serial No. 257,964. In Germany February 26, 1938
6 Claims. (Cl. 260—73)

1. In the process of preparing acetals of polyvinyl alcohol by causing an aldehyde containing from 2 to 18 carbon atoms to act upon polyvinyl alcohol while thoroughly mixing the components and effecting acetalyzation in the presence of a strong mineral acid the steps which comprise making a highly concentrated solution of a polyvinyl ester in a lower aliphatic alcohol, adding a small quantity of a caustic soda solution in the same alcohol to said first named solution, kneading the mixture until polyvinyl alcohol precipitates in the form of loose, white flakes, mixing said flakes with an aldehyde containing from 2 to 18 carbon atoms and such a small amount of a liquid medium that intermediate coagulation of the reaction mixture ensues, the total amount of said liquid medium present being insufficient to substantially dissolve the polyvinyl alcohol and the acetal formed, and being about 50 to 200% by weight of the polyvinyl alcohol.

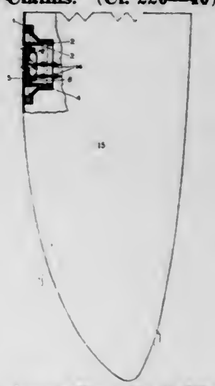
2,316,922
BAG FEEDING MECHANISM
Edward E. West, Richmond, Va.
Application September 19, 1940, Serial No. 357,458
11 Claims. (Cl. 112—2)

1. In a machine of the character described having bag holding arms, a roll of hemmed bags, a substantially horizontally disposed bag feeding carriage for horizontally feeding hemmed bags from said roll to said bag holding arms, a series of horizontally disposed spaced shafts rotatably mounted on said carriage, a pair of normally open pushing and opening fingers loosely mounted on two of said shafts intermediate the ends thereof, and a pair of normally open gripping jaws on one end of said finger supporting shafts, meshing gears on said fingers and jaws for simultaneously moving said fingers and jaws to closed and open positions, means for recipro-



cating said carriage horizontally, and means for simultaneously rocking said shafts, means on said shafts engaging with means on said fingers whereby upon rocking of said shafts the fingers will be successively partially closed and aligned with the bag hems and upon forward travel of the carriage moved into and closed on said hems, without moving said jaws, closing said jaws on one end of the hems, and opening said fingers for opening the mouth of the bag without moving said jaws during the forward travel of the carriage.

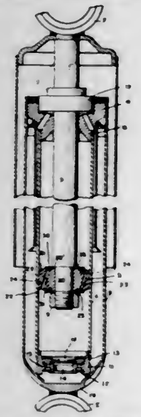
2,316,923
CLOSURE
Arthur Harold Westberg, Hempstead, N. Y., assignor to Republic Aviation Corporation, Farmingdale, N. Y.
Application February 12, 1940, Serial No. 318,445
3 Claims. (Cl. 220—40)



3. A cap or closure for a tank filler for aircraft of the flush type having a flush circular flange, a U-shaped cut-out made across the upper part of its body and throughout said flange, a hinge-pin diametrically arranged across its body and projecting on both sides thereof across this cut-out portion of the flange, a raisable U-shaped bail, normally lying flush and snug within this cut-out and having its two ends hinged to this pin, a curved flat spring secured at one end under

this flange and engaging this bail at its other end and a cut-out in said cap body adapted to permit grasping said bail, when in its sunken position with a finger-nail, at least one of the hinged ends of the bail projecting downward and forming two flat abutments at substantially right angle between themselves, and the free end of this spring cooperating with either of these abutments to hold the bail respectively in its sunken and raised positions.

2,316,924
HYDRAULIC SHOCK ABSORBER STRUCTURE
Ralph H. Whisler, Jr., Monroe, Mich., assignor to Monroe Auto Equipment Company, Monroe, Mich., a corporation of Michigan
Application November 12, 1941, Serial No. 418,791
8 Claims. (Cl. 188—88)



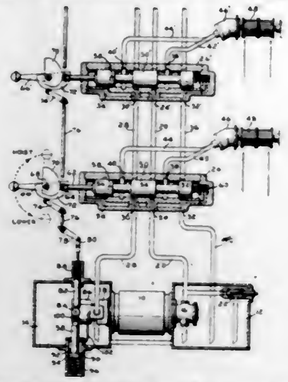
1. In a shock absorber, a pressure cylinder, and a piston slidably engaging the inner walls of the cylinder and having a solid body containing two sets of open-ended passages and having substantially flat top and bottom sides provided with beveled edges, one set of open-ended passages inclining upwardly from the flat lower side to the beveled upper edges of said body, and the other set of open-ended passages crossing the first mentioned set of passages and inclining downwardly from the flat upper side to the beveled lower edges of said body.

2,316,925
HALOGENATED ALIPHATIC LUBRICANT ADDITIVE
William A. Whittier, Kenilworth, and Joseph B. Stucker, Chicago, Ill., assignors to The Pure Oil Company, Chicago, Ill., a corporation of Ohio
No Drawing. Application August 19, 1939, Serial No. 291,010
15 Claims. (Cl. 252—58)

1. A lubricant comprising a major portion of mineral lubricating oil and a minor portion of halogenated open chain hydrocarbon selected from the group consisting of octa halogenated propane, hexa, halogenated propene, unsymmetrical hepta halogenated propane.

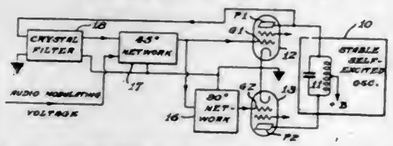
2,316,926
POWER TRANSMISSION
Warren P. Willett, Takoma Park, Md., assignor to Vickers Incorporated, Detroit, Mich., a corporation of Michigan
Application March 11, 1941, Serial No. 382,804
3 Claims. (Cl. 60—97)

1. In a fluid power transmission system the combination with a variable displacement pump and a fixed displacement pump, of a plurality of fluid motors for operation selectively by fluid delivered by said first pump for one direction of operation and by the other pump for the other direction of operation, individual control valves



for selectively connecting said motors individually with either pump for the corresponding direction of operation, said valves being connected with each pump in a parallel circuit, and means for operating said valves individually and simultaneously controlling the displacement of the first pump.

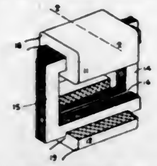
2,316,927
FREQUENCY MODULATION
Edmond S. Winlund, Moorestown, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application September 26, 1941, Serial No. 412,411
7 Claims. (Cl. 179—171.5)



1. In combination, an oscillator, a reactance tube circuit coupled to said oscillator to control its frequency, said circuit including a vacuum tube and means for feeding back a high frequency voltage from said oscillator to said tube and for also shifting the phase of said voltage during said feed-back by an amount which is effectively less than ninety degrees plus or minus, means for applying a modulating voltage to said tube for frequency modulating the output of said oscillator, and a phase shifting unit in said feed-back means for shifting the phase of the high frequency voltage fed back in response to a change in the frequency thereof and in such direction as to tend to hold constant the frequency of said oscillator output.

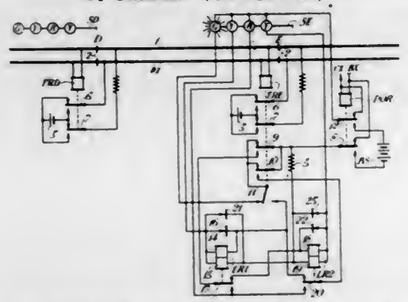
2,316,928
INDUCTIVE REACTOR
Edward O. Woodward, Hollywood, Calif.
Application August 18, 1939, Serial No. 290,815
2 Claims. (Cl. 171—242)

1. As an article of manufacture an inductive reactor having a winding and a magnetic flux path through magnetic and non-magnetic members, said winding being so disposed with respect to the other members that each turn of the winding is over a substantially identical section of magnetic and non-magnetic material so that



each turn has an identical reactance value regardless of its position.

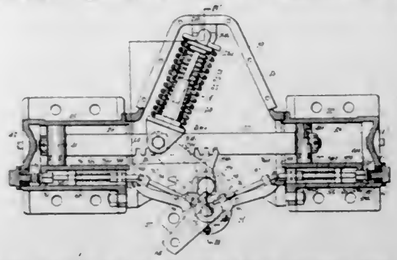
2,316,929
RAILWAY SIGNALING APPARATUS
Henry S. Young, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application October 22, 1941, Serial No. 416,003
10 Claims. (Cl. 246—41)



1. In combination, a signal having a plurality of lamps a selected two of which when illuminated provide one indication, two relays one for each of said selected two lamps, means for at times energizing one of said two lamps over a circuit including a winding of one of said two relays and a front contact of the other of said two relays and for simultaneously energizing the other of said selected two lamps over a circuit including a winding of said other relay and a front contact of said one relay, and means for energizing a third lamp of said signal over a circuit including a back contact of either of said two relays when said last mentioned means is interrupted due to a failure of the lamp filament of either of said selected two lamps.

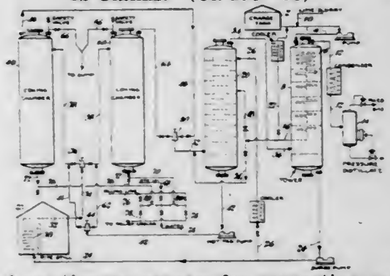
2,316,930
RAILWAY SWITCH OPERATING APPARATUS
Herbert L. Bone, Forest Hills, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application November 15, 1941, Serial No. 419,343
3 Claims. (Cl. 246—291)

1. The combination with a railway switch and an operating device connected with the switch by spring means which is effective to bias the switch to either extreme position to which it is moved by said device, of a fixed housing, a crank shaft journaled in said housing and connected with the switch points, a toggle spring unit in said housing connected with said crank shaft and acting to bias the switch points to their nearest extreme positions with a force which is less than the force exerted on the points by said spring means, two buffer cylinders secured to said housing, two pistons one in each buffer cylinder, means including a rack attached to said pistons and meshing with a segment gear mounted on said crank shaft for operatively connecting said pistons with said crank shaft, and valve means associated with each buffer cylinder so arranged that neither piston will oppose movement of said



switch points by said operating device but that one piston or the other will act to retard the movement of the switch points toward their initial positions when a train trails the switch depending upon whether the points initially occupy their normal or their reverse positions.

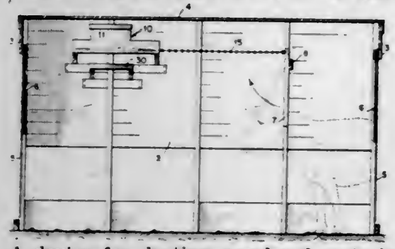
2,316,931
CONTINUOUS PROCESS FOR CRACKING AND POLYMERIZING PETROLEUM OILS
David G. Brandt, Westfield, N. J., assignor to Cities Service Oil Company, New York, N. Y., a corporation of Pennsylvania
Application May 14, 1940, Serial No. 335,059
12 Claims. (Cl. 196—58)



6. A continuous process for converting corrosive petroleum oils by the use of lime wherein the direct heating of the lime with the oil by firing is avoided, which comprises passing a mixture of high temperature vapors having a temperature in excess of 800° F. and produced in the conversion operation into an enlarged unheated contact chamber in intimate contact with a mixture of a heavy oil and lime to purify said vapors, maintaining a superatmospheric pressure of at least 200 lbs. per square inch in said contact chamber to prevent substantial vaporization of said heavy oil, passing the vapors from said contact chamber into a fractionating tower and therein producing a reflux condensate free of lime, passing said reflux condensate in a confined stream of restricted cross-section through a pipe still furnace and subjecting it to a cracking the resulting highly heated products from substantial superatmospheric pressure, conducting the resulting highly heated products from said pipe still furnace into a transfer line and introducing thereinto and mingling with said products a stream of the highly heated heavy oil and lime produced in said contact chamber, passing the resulting mixture of products and lime in said transfer line into an unheated separating chamber in which liquid oil constituents and lime are separated from vapors, and con-

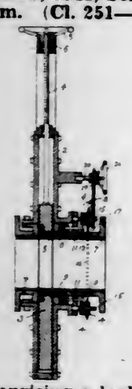
ducting vapors from said separating chamber to supply the high temperature vapors introduced into said unheated contact chamber.

2,316,932
DUSTER FOR INSECTICIDES
Wesley Gordon Bruce, Dallas, Tex., dedicated to the free use of the People in the Territory of the United States
Application September 14, 1942, Serial No. 458,326
2 Claims. (Cl. 119—159)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



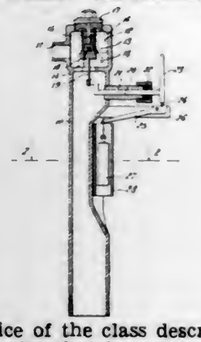
1. A device for dusting powdered material on livestock comprising a hopper having a plurality of outlets in its bottom wall, a sliding dispenser located beneath the bottom wall and having a plurality of trapping cavities, some of which will align with some of the outlets in a first position of the dispenser and others of which will align with others of the outlets in a second position, all of said cavities being misaligned with said outlets in a third position which is such as to discharge the dusting material, and means for operating said sliding dispenser so arranged that it may operate the dispenser to either the first position or to both the first and second positions and then to the third position, whereby different quantities of dusting material are discharged for the two operating positions described, said last mentioned means comprising a pull member attached to one end of the dispenser, a spring attaching the other end of the dispenser to a fixed member and stops for limiting the movement of the dispenser in either direction.

2,316,933
GATE VALVE
Joseph Chaplin, Baltimore, Md.
Application April 15, 1941, Serial No. 388,677
1 Claim. (Cl. 251—167)



A gate valve comprising a body having an entrance end and an exit end, a casing secured to said body and having an opening in line with the entrance and exit ends of said body, a gate movable up and down in said casing to open and close the opening in the body portion and having an opening therein to register with the opening in body portion, a removable lining in the gate opening, a gasket surrounding the outer surface of said body portion, a metal ring surrounding the outer surface of the body back of said gasket, pins connected to the said metal ring and projecting outside of the body, a yoked arm on the outer ends of each of said pins, threaded pins secured at their inner ends to the said body, a sprocket wheel on each of said threaded pins, a sprocket wheel mounted above said first named sprocket wheels and having a wheel secured thereto, and a chain connecting the first-named sprocket wheels with the last named sprocket wheel to turn the latter and move the pins and ring to force the gasket against or away from the gate.

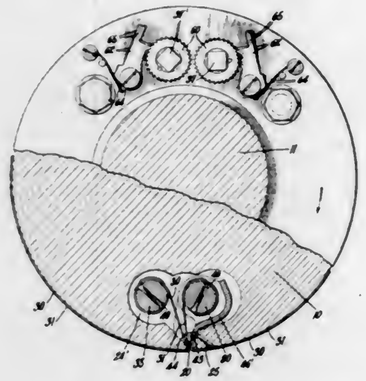
2,316,934
BARREL FILLER
Richard C. Corson, Olean, N. Y., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application January 17, 1942, Serial No. 427,137
2 Claims. (Cl. 226—127)



2. In a device of the class described having a filling pipe, a valve chamber communicating with said filling pipe, means to admit fluid to said chamber, a normally closed valve controlling communication between said pipe and said chamber, holding means to maintain said valve in open position, a float, and means actuated thereby to release said holding means; the improvement which comprises, a filling pipe of generally uniform cross section having a portion of the wall thereof near the upper end thereof bent inwardly to form a recess to receive a float chamber, and a float chamber of uniform cross section in said recess and extending parallel to said pipe, said float chamber being open at both ends, said recess and said float chamber being of such dimensions that the chamber is predominantly within the general cross section of the pipe, said recess being gently sloped at each end of said chamber toward the walls of the pipe beyond the ends of the chamber, said float being disposed in said float chamber.

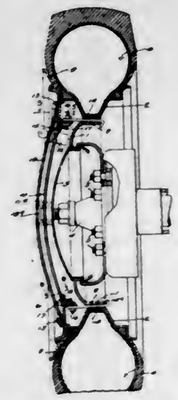
2,316,935
PRINTING PRESS
Curtis S. Crafts, Oak Park, Ill., assignor to The Goss Printing Press Company, Chicago, Ill., a corporation of Illinois
Original application June 10, 1938, Serial No. 212,860. Divided and this application March 6, 1941, Serial No. 382,045
4 Claims. (Cl. 101—415.1)

1. A blanket cylinder for printing presses including in combination a rotatable cylinder body having a narrow slot therein opening into an enlarged cavity within the cylinder body, projecting pins for holding a sheet in said slot, a plurality



of rollers within the cavity to which a sheet end may be attached, and a jaw for pressing the sheet over said pins and holding it firmly on said pins, said jaw and one of the rollers being mounted concentrically.

2,316,936
ANTITHEFT DEVICE
Bemiss N. Davis, New Orleans, La.
Application June 9, 1942, Serial No. 446,335
8 Claims. (Cl. 70—259)

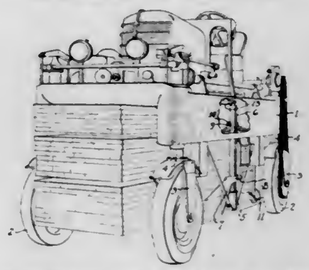


1. For automobile wheels including rims and pneumatic tires disposed thereon, guard means comprising an annular plate forming an auxiliary rim member proportioned to overlie a portion of a tire outside the rim when applied upon the outer face of the wheel coaxially with the rim, a bar diametrally spanning the inner periphery of the auxiliary rim and secured at its ends thereto, two retaining members adapted to extend through the wheel and engage in the rear thereof against forward displacement, means for securing the bar at its opposite ends to the respective retaining members, means for preventing access to the securing means to remove the same, and means to lock the access preventing means.

2,316,937
TREATMENT OF ELECTROLYTES FOR THE DEPOSITION OF MANGANESE
Reginald S. Dean, Washington, D. C., assignor to Chicago Development Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application January 7, 1939, Serial No. 249,731
3 Claims. (Cl. 204—105)

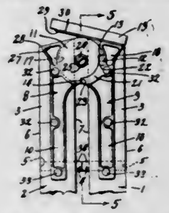
1. The method of electrodeposition of manganese from solutions of salts thereof which comprises providing an aqueous solution containing manganous sulphate, ammonium sulphate substantially in excess of the manganous sulphate and a small proportion of hydroxylamine sulphate, introducing said solution into the catholyte compartment of a diaphragm cell, said cell being provided with cathodes and anodes, and passing a current between said anodes and cathodes to electrolytically deposit manganese in the form of a metal onto the cathodes.

2,316,938
SHOE CONTROL MECHANISM FOR STRADDLE TRUCKS
Henry N. Dimick, Portland, Oreg., assignor to Willamette Hyster Company, Portland, Oreg., a corporation of Oregon
Application April 14, 1941, Serial No. 388,420
11 Claims. (Cl. 212—141)



1. In a straddle truck having a frame, a pair of grappling members pivotally mounted on said frame in predetermined fixed relation in position for engaging and disengaging a load, means for moving said grappling members between load engaging and load disengaging positions while maintaining said predetermined fixed relation, and means for selectively changing said predetermined fixed relation prior to said movement to accommodate said grappling members to a load of changed dimensions.

2,316,939
LADDER
Donald De Luca, Glendale, Calif., assignor to David S. Garber, Van Nuys, Calif., as trustee
Application December 3, 1940, Serial No. 368,326
1 Claim. (Cl. 228—27)



In a ladder of the folding type including a pair of ladder sections, the combination of a

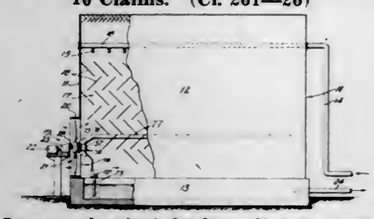
pair of complementary hinged members having elongated strap sections secured to the opposite side members of the ladder sections, each hinged member having an integral disc section and the integral disc sections of the pair of hinged members on each side of the ladder overlying one another, one of said disc members of each pair having a centrally disposed integral bearing boss adapted to fit within a bearing bore formed in the other disc section to provide a bearing pivot, the disc sections having complementary cutout stop sections providing spaced stop shoulders adapted to limit pivotal movement of said sections around said boss and thereby limit opening movement of said ladder sections to a predetermined angle, said stop shoulders being offset on the same side of said one disc member as said bearing boss, whereby the said stop shoulders and bearing boss are similarly disposed with respect to a common plane perpendicular to the hinged axis, said ladder having a top plate thereon extending across the upper ends of both said ladder sections, and one of said hinged members having a top plate-supporting section lying under and secured to said top plate, and the other hinged member having a flat plate-supporting surface adapted to support one-half of said top plate when said ladder sections are in open position at said predetermined angle with respect to each other.

2,316,940

BLOWER CONTROL FOR MECHANICAL DRAFT COOLING TOWERS

David B. Dewey, Pasadena, and George W. Meyer, Los Angeles, Calif., assignors, by mesne assignments, to The Fluor Corporation, Ltd., Los Angeles, Calif., a corporation of California

Application February 2, 1942, Serial No. 429,274
10 Claims. (Cl. 261—26)



1. In a mechanical draft cooling tower having walls forming a cooling chamber, and means for passing water through said chamber; the combination comprising a blower having a rotating hub with variable pitch blades and operating to cause air to flow through said chamber in intimate contact with the water therein, a motor for driving said blower, temperature-responsive means operable to vary the pitch of said blades and carried by said hub, and means for directing a portion of said water in heat transferring relation with said temperature-responsive means to vary the rate of air flow through said chamber in accordance with changes in the water temperature and independently of the speed of said motor.

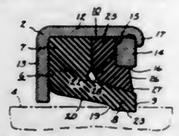
2,316,941

OIL SEAL

Howard M. Dodge, Wabash, Ind., assignor to The General Tire & Rubber Company, Akron, Ohio, a corporation of Ohio

Application April 19, 1941, Serial No. 389,391
9 Claims. (Cl. 288—3)

1. An oil retaining device to seal a space between a housing and a shaft, comprising an inwardly opening annular metal casing adapted to be fixedly held in oil-tight contact within said housing, said casing having a cylindrical portion adapted to contact the housing, an annular radial backing portion, an inwardly extending annular restraining member having a substantially radial portion and an axially extending portion, means for holding said restraining member in spaced relation with said radial backing portion, a centrally apertured molded packing ring of oil-resistant rubberlike material having a substantially radial annular portion disposed within said casing and bearing against said backing portion of said casing, an axially extending frusto-conical portion integral with said radial annular portion, a molded pressure ring of a flexible oil-resistant synthetic rubber compound disposed in the re-entrant angle between said axially extending portion and said



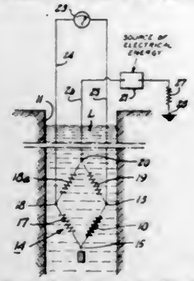
radial portion of said packing ring and having a portion which bears against both said inwardly extending annular restraining member of said casing and said radial annular portion of said packing ring and a portion which bears against the outer surface of said axially extending frusto-conical portion of said packing ring, said axially extending portion of said centrally apertured packing ring being inclined from adjacent said annular radial portion toward the shaft and having adjacent its free end a sealing surface adapted to contact the shaft, said pressure ring having an axially extending portion molded on and strongly attached to said axially extending portion of said inwardly extending annular restraining member of said casing, whereby outward movement of said pressure ring on said inclined inner surface is restrained by said annular restraining member.

2,316,942

APPARATUS FOR MEASURING TEMPERATURES IN BOREHOLES

Henri-Georges Doll, Houston, Tex., assignor to Schlumberger Well Surveying Corporation, Houston, Tex., a corporation of Delaware

Original application December 27, 1937, Serial No. 181,879. Divided and this application May 6, 1941, Serial No. 392,075. In France January 7, 1937
8 Claims. (Cl. 73—362)



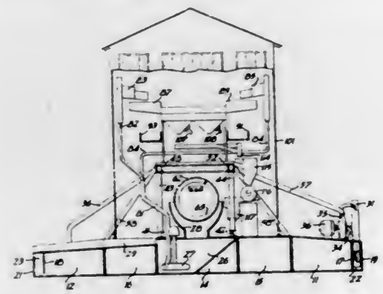
3. Apparatus for obtaining indications of temperatures in a bore hole, comprising a temperature-responsive resistance element lowered into the bore hole, an electrical network connected to said resistance element and forming a Wheatstone bridge having at least four apices, at least one of which is disposed in the bore hole with said resistance element and is connected to ground therein, a source of electrical energy at the surface of the earth, an electrical circuit connecting said source to the apex of the bridge opposite said grounded apex and to a ground point at the surface of the earth, electrical indicating means at the surface of the earth, and a second electrical circuit connecting said indicating means to the other two opposite apices of the bridge.

2,316,943

PLACER DREDGE

Harry F. England, Prairie City, Oreg.

Application February 10, 1940, Serial No. 318,335
15 Claims. (Cl. 209—44)



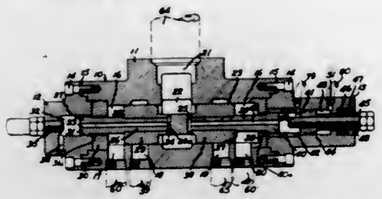
3. A dredge of the character described comprising: a hull formed on one side with a wash water compartment extending substantially the full length thereof, the outer common side of said hull and compartment being perforated over substantially its entire length to form a wash water screen; a trommel carried by said hull; nozzles located within said trommel; and a pump having its intake in communication with said wash water compartment and its delivery end in communication with said nozzles.

2,316,944

VALVE

Walter Ernst, Mount Gilead, Ohio, assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del., a corporation of Delaware

Application December 22, 1941, Serial No. 423,972
16 Claims. (Cl. 137—144)



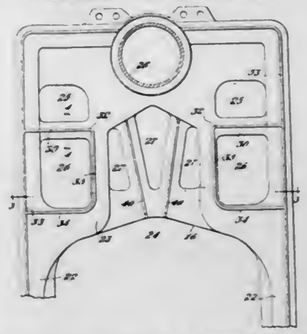
1. In combination in a valve, a casing having a longitudinal bore therein with an inlet port, an outlet port and two service ports, a valve member reciprocable in said bore for controlling said ports, and fluid operable means operable to shift said valve member so as to cause the latter selectively to connect one of said service ports with said inlet port, while simultaneously connecting the other service port with said outlet port, or to effect fluid connection between said outlet port and one of said service ports, while simultaneously preventing fluid connection between said other service port and said inlet port.

2,316,945

BOILER

Franklin A. Ferguson and Edgar C. Desjardins, Westfield, Mass., assignors to The H. B. Smith Company, Incorporated, Westfield, Mass., a corporation of Massachusetts

Application August 3, 1940, Serial No. 350,856
7 Claims. (Cl. 122—225)



1. A boiler comprising a plurality of vertical sections assembled in contact along the top and side edges and spaced apart within said edges, each section, in advance of the rear section, comprising water legs and a horizontal compartment connecting said legs and enclosing therewith the fire box on three sides from which box gases rise into the spaces between the sections, and having pairs of flues through said compartment at right angles thereto and arranged one above the other, the mouths of the lower flues being enclosed at their bottom and sides by beads projecting outwardly from the surfaces of the compartments and by beads at the edges of the sections, which flues, when the sections are assembled, register to form passages extending longitudinally through the boiler, and nipples connecting the compartments of the sections, a casing adjoining the front section so as to provide a connecting duct between the passages formed by the upper and lower flues, the passage formed by the lower flues being in communication with the smoke stack whereby the gases rising from the fire box into the spaces between the sections enter the upper flues and travel forwardly through the upper passage, downwardly through said connecting duct and rearwardly through the lower passage to the smoke stack, and fins carried by said sections which deflect the gases toward said upper flues.

2,316,946

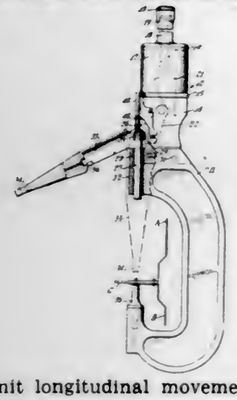
RIVETING YOKE

Howard R. Fischer, Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y., a corporation of New Jersey

Application November 8, 1941, Serial No. 418,313
11 Claims. (Cl. 78—48)

1. In a riveting or like machine, the combination of a yoke having opposed ends adapted to receive the work therebetween, relatively movable work engaging jaws at the opposed ends of said yoke, a holder for one of said jaws pivotally mounted for movement into and out of a position of alignment with the other of said jaws and shiftable relatively to said yoke longitudinally of

said other jaw, and latching means acting when in effect to retain said holder in aligned position



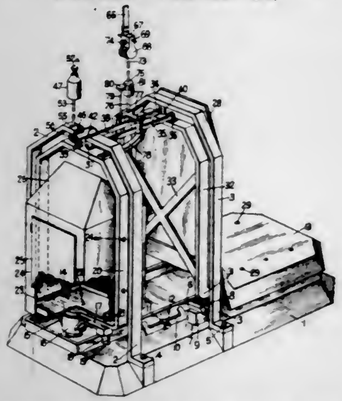
and to limit longitudinal movement thereof in one direction.

2,316,947

WEIGHING SCALE

Thomas B. Flanagan, Columbus, Ohio, assignor to The Exact Weight Scale Company, Columbus, Ohio, a corporation of Ohio

Application July 29, 1941, Serial No. 404,533
9 Claims. (Cl. 265—54)



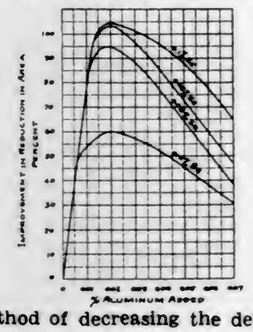
1. A weighing scale of the platform type comprising a longitudinally extending base, a longitudinally extending lever member fulcrumed on said base at a point substantially midway between the ends thereof for movement in a vertical plane, an inverted-U-shaped upstanding stationary supporting member disposed transversely of said base at one end thereof and having the lower ends of its legs secured to said base, an inverted-U-shaped upstanding stationary supporting member disposed transversely of said base substantially in the same transverse plane as the fulcrum for the lever and having the lower ends of its legs secured to said base, said supporting members being disposed parallel to each other and both extending upwardly to the same extent a considerable distance above the base, an outrider element at each end of the lever extending transversely of the lever and being pivotally connected thereto, an L-shaped platform supporting member for supporting a commodity-receiving platform, said L-shaped supporting member having a horizontally disposed portion which is secured to one of the outrider elements and having an upstanding vertical portion of substantially inverted-U-shape which extends transversely of the lever and is normally disposed within the stationary support disposed intermediate the ends of the base, said upstanding vertical portion extending upwardly to a point adjacent the upper end of said stationary support within which it is normally disposed, a commodity-receiving platform of L-shape secured to said L-shaped support, said platform having an upstanding back which extends upwardly beyond said inverted-U-shaped support but is spaced laterally therefrom, a platform-supporting member for supporting a weight platform, said weight platform-supporting member having a horizontal portion secured to the other of the outrider elements and having an upstanding vertical portion which extends transversely of the lever and is normally disposed within the stationary support secured to the end of the base and extends upwardly to a point adjacent the upper end of said last-mentioned stationary support, a weight-receiving platform secured to the horizontal portion of said weight platform support, said weight-receiving platform including a dust-proof housing for receiving the weights, a check rod structure for maintaining said platforms in substantially horizontal position regardless of the position of said lever, said check rod structure embodying a pair of check rods, one of said check rods having one of its ends connected to the upper end of said stationary support disposed intermediate the ends of the base member and having its opposite end pivotally connected to the upper end of the vertical portion of said weight platform supporting member, the other of said check rods having one of its ends pivotally connected to the upper end of said stationary supporting member at the end of the base and its opposite end pivotally connected to the vertical portion of the L-shaped supporting member for the commodity-receiving platform, said check rod members extending longitudinally of the lever member and being disposed in substantially parallel relationship to each other, a housing supported on the upper ends of said stationary supports, indicating mechanism disposed within said housing, and means for connecting said indicating mechanism to the upper end of the vertical upstanding portion of one of said platform-supporting members.

2,316,948

ALUMINUM-TREATED CAST STEEL

Albert Paul Gagnebin, Fair Haven, N. J., assignor to The International Nickel Company, Inc., New York, N. Y., a corporation of Delaware

Application July 17, 1941, Serial No. 402,752
In Canada May 18, 1940
12 Claims. (Cl. 75—58)



1. A method of decreasing the deleterious effect of aluminum upon the ductility of cast steels which comprises deoxidizing a molten mass of steel with aluminum, treating the molten mass of steel with about 0.05% to 0.6% of at least one desensitizing agent from the group consisting of selenium and tellurium, and casting the thus-treated molten steel whereby aluminum-treated cast steels characterized by improved ductility are produced.

2,316,949

METHOD OF PLASTICIZING SYNTHETIC RUBBER

Benjamin S. Garvey, Akron, Ohio, assignor, to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application March 26, 1940, Serial No. 326,055
15 Claims. (Cl. 260—36)

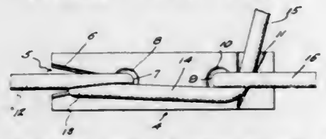
1. A method of increasing the plasticity of a rubbery polymer prepared by the polymerization of a material consisting predominately of a conjugated butadiene hydrocarbon, which comprises treating sai drubbery polymer with an aryl mercaptan.

2,316,950

TENSION ADJUSTER FOR CLOTHESLINES OR THE LIKE

Charles Goeller, Elizabeth, N. J.

Application August 17, 1942, Serial No. 455,156
3 Claims. (Cl. 211—119.15)



3. As a new article of manufacture, a rope-end coupling and tautening device comprising an elongated body having rope holes in its intermediate portion, a V-shaped kerf in one end, and a V-shaped depression at the opposite end, the depression being at approximate right angles to the kerf.

2,316,951

PROFILOMETER

Adolph Grauer, New York, N. Y.

Application May 1, 1942, Serial No. 441,396
10 Claims. (Cl. 33—23)



1. A profilometer comprising a support frame having a track along the length thereof, a chart mounting carriage adapted to ride along said track, an upstanding follower and marking structure having a roller support upon said frame, said chart mounting carriage and said follower structure having a speed reducing transmission therebetween to cause one of said elements to move horizontally relative to the other at a speed but a predetermined fraction of that at which said carriage is moved along the track.

2,316,952

SCAFFOLD UNIT

John C. Halferty, Evansville, Ind., assignor to The Steel Scaffolding Company, Inc., Evansville, Ind., a corporation of Indiana

Application November 13, 1942, Serial No. 465,431
5 Claims. (Cl. 304—4)

1. An integral scaffold unit comprising a pair of vertical legs connected at one end by a horizontal beam, an intermediate leg spaced from one of said pair of legs an amount sufficient to afford traffic space therebetween and spaced from the other leg a lesser amount sufficient to afford



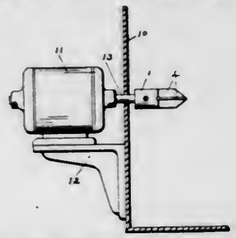
standing room and connected to said other leg by a plurality of vertically-spaced horizontal rungs, and bracing means between one of the first-mentioned legs and the beam so placed as not to unduly restrict the said traffic space.

2,316,953

POTATO DRESSING APPARATUS

Joseph W. Hammond, Wolcott, N. Y., assignor to Olney & Carpenter, Inc., Wolcott, N. Y., a corporation of New York

Application November 1, 1941, Serial No. 417,542
1 Claim. (Cl. 146—106)



In a potato dressing apparatus the combination of a cylindrical base, two thin cutting blades extending out from said base, the edges of which cutting blades extend forward parallel to the axis of the base, each of said cutting blades being cut away partly along the middle line thereof so that the one cutting blade can nest into the other cutting blade and stand at right angles thereto, said blades tapering on the forward end to a point in line with the axis of the cylindrical base, grooves extending at right angles across the face of the base into which the rear edges of the blades fit, the blades and base being rigidly fastened together, a shaft on which said base is mounted and with which the base and cutting blades rotate.

2,316,954

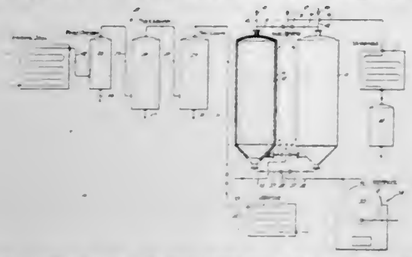
METHOD OF TREATING PETROLEUM HYDROCARBONS

William T. Hancock, Long Beach, Calif., assignor to Hancock Oil Company of California, Long Beach, Calif., a corporation of California

Application June 9, 1939, Serial No. 278,230
5 Claims. (Cl. 196—28)

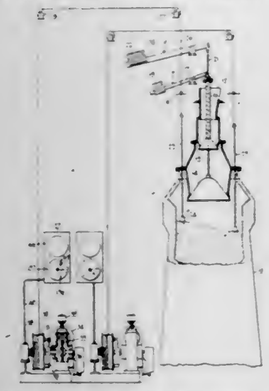
1. The process of refining petroleum hydrocarbons that includes, passing heated hydrocarbons through a body of adsorptive material contained in a treating zone and impregnated with a salt of the group consisting of zinc chloride and alu-

minum chloride, recharging the adsorptive material with said salt while said material remains in the treating zone, by discontinuing the flow of hydrocarbons through said zone, vaporizing a quantity of the salt in a heating zone and passing the vapors into said material, condensing the va-



pors directly on the surface and within the pores of the material while maintaining the material in heated condition to promote uniformity of the salt condensation throughout the body of material, and thereafter again passing the hydrocarbons through said material.

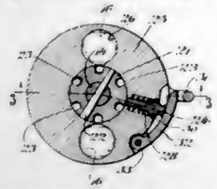
2,316,955
STOCK LINE INDICATOR
Arthur Edward Handy, Lynbrook, N. Y., assignor to Otis Elevator Company, New York, N. Y., a corporation of New Jersey
Application December 31, 1942, Serial No. 470,902
9 Claims. (Cl. 33—126.5)



1. In a blast furnace installation; a stock level indicating rod; a hoisting drum for said rod; driving mechanism for said drum; means connecting said driving mechanism to said drum for relative rotative movement; and means responsive to relative rotative movement of said driving mechanism and said drum for controlling the operation of said driving mechanism.

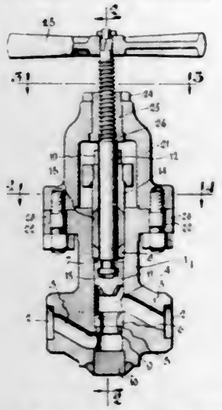
2,316,956
VALVE LOCKING DEVICE
Harry Eugene Heath, Tulsa, Okla., assignor to Stanolind Pipe Line Company, Tulsa, Okla., a corporation of Maine
Application September 13, 1940, Serial No. 356,590
3 Claims. (Cl. 70—180)

1. A lock for a valve stem comprising a relatively fixed housing having a bore of three diameters forming three chambers, a valve stem extending into said housing, a locking mechanism within said housing including a lock plunger slidable within the said bore, a boss on said plunger, a spring in the intermediate chamber engaging said boss and normally urging said lock plunger away from said valve stem, a retainer ring in the outermost chamber adapted to restrict the outward movement of the plunger, a locking lever carried by said fixed housing and



engaging the outer end of said plunger for holding the plunger in its locking position, a collar fixed to said valve stem adapted to engage said locking plunger for locking the stem against rotation when said locking plunger is in the depressed position and a means adapted to retain the elements in the locking position.

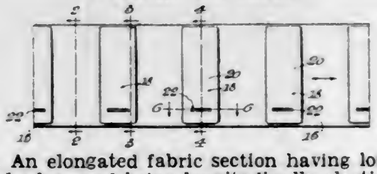
2,316,957
VALVE
Frederick H. Hehemann, Cincinnati, Ohio, assignor to The Lunkenheimer Company, Cincinnati, Ohio, a corporation of Ohio
Application July 30, 1941, Serial No. 404,685
1 Claim. (Cl. 251—50)



A valve of the character disclosed, comprising: a body having a central counter-turned bore therethrough and lateral ports intersected by said central bore providing a passage through the body, a seat ring interposed in said central bore intervening between said lateral ports, having its underside bearing upon an annular shoulder and inwardly of the shoulder annularly consolidated with the body, a valve head guidingly movable in said central bore cooperating with the seat ring, a valve operating stem translatable within said central bore and extending therebeyond, having its end within the bore removably coupled to said valve head and screw threaded for a portion of its length extending beyond said bore, a stuffing box bushing concentric with the valve stem within the said central bore and seated against an annular shoulder, a stuffing box gland engaged within said central bore and adjustably fixed to said body, a packing within said bore about the stem and intermediate of said bushing and gland, a yoke straddling said stuffing box gland and removably fixed to said body, traversed

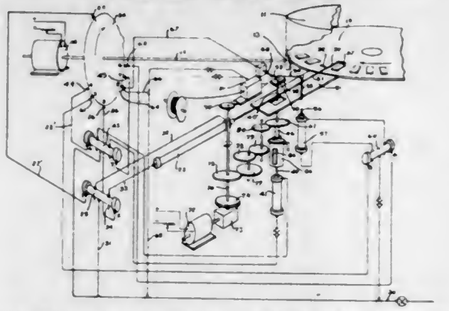
by said valve stem and having a screw-threaded engagement therewith, the stem having an annular shoulder at the base of the threaded portion for engagement with the yoke to limit the valve unseating movement of the stem, and a plug engaged into the lower end of said central bore to seal the same and exteriorly consolidated with said valve body.

2,316,958
GARTER AND FABRIC BAND
Henry M. Herbener, Thomasville, Ga.
Application November 13, 1940, Serial No. 365,511
7 Claims. (Cl. 2—313)



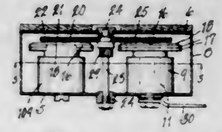
1. An elongated fabric section having longitudinal edges and being longitudinally elastic, said fabric section having transverse spaced pockets extending throughout the major portion of the width of the fabric section, the opposite ends of each pocket being permanently closed and disposed adjacent to the opposite longitudinal edges of the fabric section, each pocket having opposite sides elastic longitudinally of the fabric section and the spaces between the pockets being elastic longitudinally of the fabric section, each pocket having one side provided with a transverse slot disposed adjacent to and spaced from one end of the pocket, said side having a relatively short portion disposed between the slot and the adjacent end of the pocket and a long portion disposed between the slot and the opposite end of the pocket and extending throughout the major portion of the length of the pocket, and a stiffening rib having a length substantially equal to the interior length of the pocket for insertion on said pocket, the said relatively short portion being adapted to be stretched over the adjacent end of the rib when the rib is inserted into the pocket through the slot and substantially engages the end of the pocket remote from the slot.

2,316,959
APPARATUS FOR COATING ARTICLES
Ray A. Hinkley and John Leland Miller, Corning, N. Y., assignors to Corning Glass Works, Corning, N. Y., a corporation of New York
Application May 17, 1939, Serial No. 274,290
14 Claims. (Cl. 91—12.2)



14. In an apparatus for applying a non-circular band of coating material to an article, a support for the article, a support having a spray gun arranged to direct coating material against a portion of the article surface, and mechanical means for rotating one of said supports at varying speeds about an axis passing through a portion of the article about which the band is to be applied to progressively present substantially the same amount of surface area of the article per unit of time to coating material issuing from said gun.

2,316,960
MOTOR
Homer H. Ingersoll, Kalamazoo, Mich., assignor to Kalasign Company of America, Kalamazoo, Mich.
Application August 3, 1940, Serial No. 350,417
1 Claim. (Cl. 172—278)



In an alternating current motor having a shaded pole stator, a rotor comprising a sheet of non-magnetic metal and a sheet of magnetic metal with an interposed sheet of non-conductive material mounted to rotate with the non-magnetic metal adjacent the stator and the magnetic metal on the side of said non-magnetic metal opposite said stator.

2,316,961
RAILWAY TRAFFIC CONTROLLING APPARATUS
Ralph R. Kemmerer, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application July 22, 1941, Serial No. 403,502
19 Claims. (Cl. 246—3)



4. In combination with a stretch of track over which traffic may move in either direction, said stretch being divided into a plurality of track circuit sections, a traffic direction control relay, means effective when said relay is operated for cascading current of a checking code from one to the other end of said stretch over the track sections to thereby check the unoccupied condition of said stretch, means effective when said checking code is received at said other end for cascading current of a proceed code from said other end to said one end of the stretch over said track sections, an entrance signal for said one end of the stretch, and means effective when said proceed code is received at said one end for clearing said entrance signal.

2,316,962
CONTACT PARASITICIDE
George E. Lynn, Fred W. Fletcher, and Gerald H. Coleman, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application February 18, 1942, Serial No. 431,341
4 Claims. (Cl. 167—30)

1. An agricultural parasiticide comprising as an active toxicant a compound selected from the group consisting of cyclohexyl cyclohexenes and cyclohexyl lower-alkyl-cyclohexenes.

2,316,963
COCCIDICIDE
Graydon S. McKee, Washington, Wilbert Moody Wilson, Beaver, and Harry S. Johnson, Pittsburgh, Pa.
Application May 15, 1939, Serial No. 273,720
6 Claims. (Cl. 167—14)

1. A coccidicidal preparation containing sodium nitrite.

5. The herein described method of disinfecting an area purposed for animal occupation against infestation by the protozoan coccidium which consists in destroying the coccidia adjacent the surface of such area by the lethal action of sodium nitrite introduced on the surface thereof.

2,316,964
MASTIC COMPOSITION AND METHOD OF PREPARING SAME
Paul Vincent McKinney and Milo Glenn Mayberry, Pittsburgh, Pa., assignors to The Pure Oil Company, Chicago, Ill., a corporation of Ohio
No Drawing. Application October 23, 1939. Serial No. 300,896
5 Claims. (Cl. 260—18)

1. The method of preparing a mastic composition which comprises mixing with sulfurized polymer, prepared by heating a mixture of sulfur and hydrocarbon polymer resulting from the selective polymerization by means of catalytic clay of gum-forming and color-imparting bodies in petroleum hydrocarbon distillates, to a temperature sufficiently high within the range of 90° to 150° C. for a period of time, between 4 and 15 hours, sufficient to produce a chemical reaction product containing from 15 to 45% by weight of sulfur which upon cooling forms a hard solidified mass, a factice, and filler at a temperature above the melting point of said sulfurized polymer until a homogeneous mixture is obtained.

2,316,965
METHOD OF REMOVING WEAKLY ACIDIC BODIES FROM HYDROCARBON FLUIDS
Timothy L. McNamara, Arlington Heights, and Lawrence M. Henderson, Winnetka, Ill., assignors to The Pure Oil Company, Chicago, Ill., a corporation of Ohio
No Drawing. Application December 28, 1940, Serial No. 372,204
6 Claims. (Cl. 196—30)

1. The method of removing weakly acidic bodies from hydrocarbon fluids which comprises contacting said fluids with aqueous alkali metal hydroxide solution containing reaction products of alkali metal hydroxide and acid oil which has been washed with at least 5 times its volume of water, in an amount sufficient to enhance the ability of the solution to remove acidic bodies from said fluid.

2,316,966
METHOD FOR REMOVING ORGANIC ACIDIC SUBSTANCES FROM HYDROCARBON FLUIDS
Timothy L. McNamara, Arlington Heights, and Lawrence M. Henderson, Winnetka, Ill., assignors to The Pure Oil Company, Chicago, Ill., a corporation of Ohio
No Drawing. Application December 30, 1940, Serial No. 372,348
8 Claims. (Cl. 196—30)

1. In a method for removing organic acidic substances from hydrocarbon fluids the step which comprises contacting said fluids with alkali solution containing a product prepared by separating from high boiling tar acids at least a portion thereof which reacts with aqueous alkali solutfon.

2,316,967
OIL BASE DRILLING FLUID AND METHOD OF REGENERATING THE SAME
George Miller, San Marino, Calif.
No Drawing. Application June 24, 1941, Serial No. 399,510
6 Claims. (Cl. 252—8.5)

1. A process of maintaining an oil base drilling fluid substantially free of water during drilling operations, which includes routine addition thereto of substantial amounts of unslaked calcium oxide whereby the water content of the drilling fluid is maintained at substantially zero.

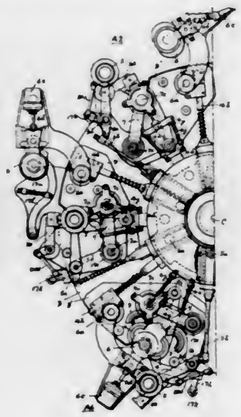
2,316,968
OIL BASE DRILLING FLUID
George Miller, San Marino, Calif.
No Drawing. Application August 22, 1941, Serial No. 407,905
4 Claims. (Cl. 252—8.5)

1. An oil base drilling fluid, comprising an oil, a finely divided weight material, a settling inhibitor, and an air-blown asphalt capable of imparting both plastering properties and satisfactory gel properties to the drilling fluid at temperatures in excess of 200° F., and having a melting point of 260 to 310° F. and a penetration of 14 to 6 at 25° C.

2,316,969
GLASS SHAPING MACHINE
William Bell Mitchell, Bradford, England, assignor to The Mitchell Glass Company Limited, Bradford, England
Application June 29, 1939, Serial No. 281,810
In Great Britain June 30, 1938
13 Claims. (Cl. 49—5)

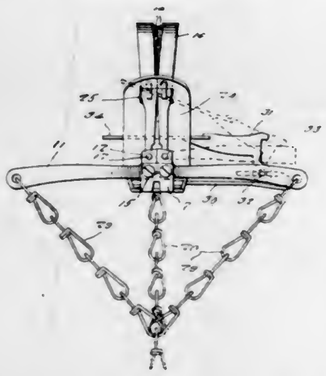
12. In combination in a rotating glass forming machine, a rotatable table, means for rotating said table, cooperating molds carried by said table comprising a sectional neck ring mold, a sectional parison mold and a sectional finishing mold, means for actuating the sections of said neck ring mold to open and close the same and hold said neck ring mold in a fixed position relatively to said table when closed, means for actuating the sections of said parison mold to open and close the same and to hold said parison mold in alignment with said neck ring mold when closed, means for delivering a charge of glass to the aligned molds, means for actuating the sections of the finishing mold to open and close the same, means for moving the finishing mold to and from a position of alignment with said neck ring mold, and mechanisms for actuating all said means, whereby said neck ring mold cooperates

with both said parison mold and said finishing mold in the forming of a glass article, the neck-ring mold starts to open while the finishing mold is in alignment therewith and starts to close during the movement of the finishing mold from alignment with the neck-ring mold preparatory to receiving a charge of glass whereby the article-



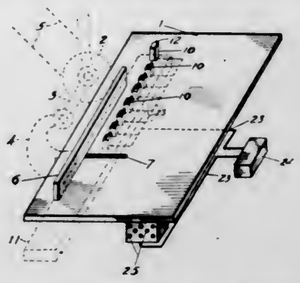
forming cycle of the neck ring and the parison molds overlap that of the cooperating finishing mold and the finishing mold completes its cycle and delivers one article after the cooperating neck-ring mold and the parison mold receive a charge of glass in initiating the next succeeding article-forming operation.

2,316,970
ANIMAL TRAP
Earl W. O'Neil, Port Henry, N. Y.
Application May 23, 1941, Serial No. 394,939
3 Claims. (Cl. 43—88)



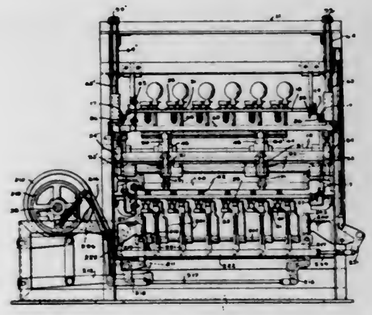
1. An animal trap comprising a base, a pair of levers pivoted to the base and projecting outwardly from opposite sides thereof, a pair of spring actuated jaws pivoted at one end on the levers and pivoted at their opposite ends on the base, setting and releasing means for the jaws, and an anchoring connection for the levers operable upon a pulling force being exerted on the trap to increase the closing pressure of the jaws after the jaws have been released.

2,316,971
MEASURING BOARD AND CUTOFF STOP
Frank Sylvester Overacker, Harry Grover Thorn, and David Earl Wark, Klickitat, Wash.
Application April 26, 1940, Serial No. 331,712
1 Claim. (Cl. 143—168)



A cutting table of the class described comprising in combination, a table having a plurality of rectangular holes transversely therethrough, a plurality of gauge rectangular blocks mounted on the table and operating vertically in said holes in predetermined and restricted alignment, for providing a measuring means with a straight flat contact surface for the material to be cut on the table, a plurality of coils for operating the blocks in one direction, circuit means for controlling the operation of the coils and blocks and a pin operating through each of the blocks transversely between two of its faces to hold the gauge block above the surface of the table when the material to be cut is moved against one of these faces and projects the pin through the block to so hold the block.

2,316,972
COATING APPARATUS
Leander N. Pond, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York
Application March 7, 1941, Serial No. 382,245
18 Claims. (Cl. 117—4)



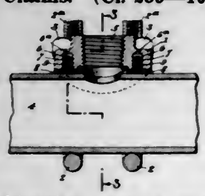
2. In a machine of the character described, groups of article chucks, groups of nozzles for directing fluids into hollow articles held by said chucks, means for moving said chucks into register with the nozzles of the respective nozzle groups in succession, means for moving the nozzles toward articles which have been brought into register therewith, separate means for supplying fluid to the respective nozzles and devices for at will selectively disabling said last means.

2,316,973
FEEDING MECHANISM FOR SHAKER CONVEYERS
Charles A. Pratt, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application December 1, 1941, Serial No. 421,141
2 Claims. (Cl. 198—220)



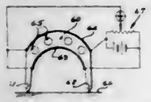
1. In a shaker conveyer, a conveyer trough section, an extensible trough section, friction feeding means actuated by movement of the conveyer for extending said extensible trough section, and one of said trough sections carrying a power-operated extensible thrusting member thereon having one-way ratchet feeding engagement relative to the other of said trough sections for positively extending said extensible trough sections through a predetermined forward stroke, and other one-way ratchet means between said trough sections for automatically holding said extensible trough section against retraction while said thrusting member is being retracted for a repeated forward stroke, and common control means for rendering both of said ratchet means ineffective at will to permit retraction of said extensible trough section.

2,316,974
SADDLE GASKET
Roger E. Risley, Bradford, Pa., assignor to Dresser Manufacturing Company, Bradford, Pa., a corporation of Pennsylvania
Application December 2, 1941, Serial No. 421,266
5 Claims. (Cl. 285—108)



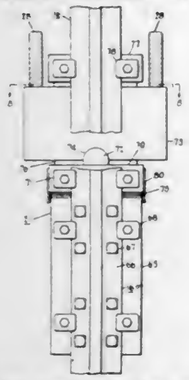
1. The combination with a saddle having a saddle flange provided with sockets closed at their outer ends and disposed laterally with respect to the branch pipe aperture therein, and a gasket of elastic material having integral ears of greater diameter than that of said sockets and held under lateral compression in said sockets, said ears being each provided with a longitudinal passage closed at its inner end to receive a tool for elongating it and reducing its diameter and thereby venting the occluded air in said socket.

2,316,975
GAUGE
Arthur C. Ruge, Cambridge, Mass.
Original application September 16, 1939, Serial No. 295,207. Divided and this application March 11, 1942, Serial No. 434,178
8 Claims. (Cl. 33—143)



1. An electrical strain sensitive gauge comprising a frame having a flexible member and relatively movable specimen engaging portions whereby said flexible member is variably strained in accordance with said relative movement, and a continuous solid filament of electrical conducting material bonded throughout its effective length to said variably strained flexible member so as to follow fully the strains thereof and the electrical resistance of said filament varying in accordance with changes of strain therein, whereby changes in resistance of said filament is an indication of the extent of relative movement between said specimen engaging ends of said member.

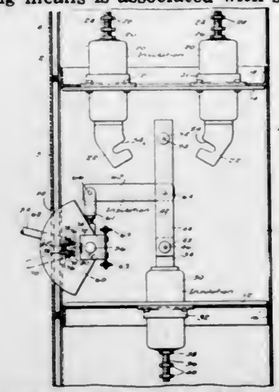
2,316,976
CAR LOCKING DEVICE
Eric Albert Sahlin, Harrington Park, N. J., assignor to Otis Elevator Company, New York, N. Y., a corporation of New Jersey
Application November 6, 1942, Serial No. 464,929
7 Claims. (Cl. 187—76)



1. In an elevator installation in which an elevator car is movable in the elevator hatchway and in which a car locking device is provided for supporting the car at a landing, said device comprising; a stationary member mounted in the hatchway adjacent the car and having a fulcrum; a stop member pivotally supported on said fulcrum; and a pair of extendible members carried by the car adapted when extended to engage said stop member, one on each side of said fulcrum, to support the car.

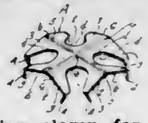
2,316,977
CIRCUIT CONTROLLER
Gordon F. Sauers, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 9, 1941, Serial No. 414,292
16 Claims. (Cl. 200—169)

1. In a switch, a pair of spaced contact means, movable contact means adapted to be moved into and out of engagement with said spaced contact means, respectively, means for locking said movable contact means at a position intermediate said spaced contact means, said locking means including parts for preventing movement of said movable contact means in opposite directions, respectively, actuating means adapted to be removably associated with said movable contact means in two different positions and cooperable with said parts of said locking means in said different positions, respectively, whereby when said actuating means is associated with said movable contact means in one position, it is operative to release said locking means to permit actuation of said movable contact means only between said intermediate position and a position wherein said movable contact means is in engagement with one of said spaced contact means, and when said actuating means is associated with said movable



contact means in the other of its different positions it is operative to release said locking means to permit actuation of said movable contact means only between said intermediate position and the position wherein said movable contact means is in engagement with the other of said spaced contact means.

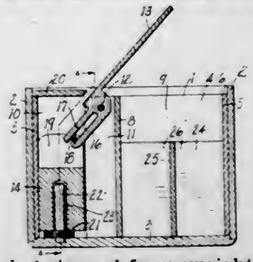
2,316,978
REINFORCING CLAMP
Leroy O. Schneeberger, St. Louis, Mo.
Application October 31, 1941, Serial No. 417,369
2 Claims. (Cl. 217—19)



1. A reinforcing clamp for crossed partition walls comprising a single bendable member of sheet material having an initial contour substantially approximating a pattée cross with the arms at their inner portions of substantially no greater width than the width of partition walls to which the clamp is to be applied and at their outer ends widened out to relatively greater width and terminating in sharp points, said member being bent to provide intersecting ridges with the ridges extending medially of the arms and said arms each having the widened end portions bent down as spaced tapering finger claws and the sharp points bent to project angularly inwardly as penetrating points.

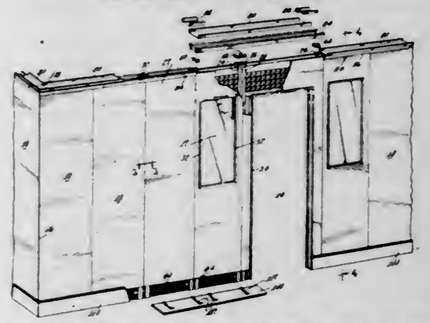
2,316,979
DISPENSING CONTAINER
Robert C. Shipley, Kalamazoo, Mich.
Application August 1, 1942, Serial No. 453,216
12 Claims. (Cl. 206—1.5)

12. In a dispensing container, a receptacle open at the top, a lid pivotally mounted within said receptacle to lie within the upper edges thereof when closed, a weight slidably supported within said receptacle and operatively connected to said lid, said weight acting to open said lid when the receptacle is in upright position and to close it when the receptacle is inverted, and a spring acting on said weight to urge it to lid closing position, the spring being of insufficient tension to sustain the weight in cover closing position when



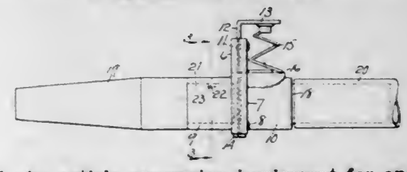
the receptacle is turned from upright position to an approximately horizontal position.

2,316,980
WALL ASSEMBLY
Louis C. Sigloch, Yonkers, and Charles W. Lund, Brooklyn, N. Y., assignors to Johns-Manville Corporation, New York, N. Y., a corporation of New York
Application September 1, 1939, Serial No. 292,976
13 Claims. (Cl. 20—4)



1. A wall assembly comprising panels in edge abutting relationship and each including means extending beyond the ends of the panels proper adjacent their longitudinal edges, unitary cup-like means receiving said first-named means, and means passing through said first-named means and a wall of each said cup-like means for maintaining said panels in said edge abutting relationship.

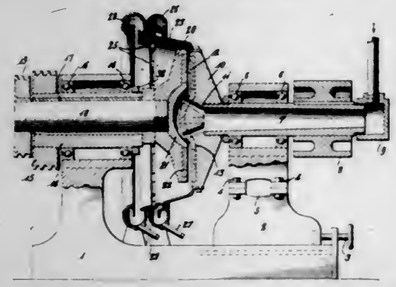
2,316,981
ARTICLE RECOVERING IMPLEMENT
Lester C. Smith, West Hartford, Conn., assignor to The Spencer Turbine Company, Hartford, Conn., a corporation of Connecticut
Application November 30, 1942, Serial No. 467,463
3 Claims. (Cl. 294—64)



1. An article recovering implement for operation by suction and comprising a flat valve body with a hub projecting from one side thereof and a support projecting from its opposite side substantially in alignment with said hub, an opening extending through said hub, valve body and support for the attachment of a nozzle, a valve

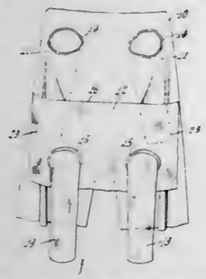
plate mounted for edgewise sliding movement within said body and having a hole adapted to register with the opening through said body, a notch formed in one edge of said valve body and along which said valve plate extends, a thumb piece projecting from one end of said valve and arranged to pass into said notch when the valve is opened, and a stop to limit the movement of said valve plate.

2,316,982
APPARATUS FOR GRINDING AND SEPARATING ORES
Leroy A. Wilson, Enterprise, Utah
Application April 15, 1938, Serial No. 202,337
2 Claims. (Cl. 83—10)



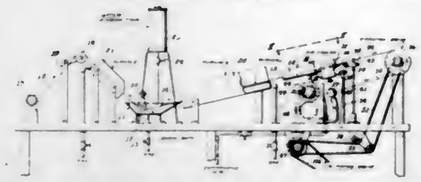
1. An ore treating device comprising a pair of opposed grinding faces mounted for rotation on substantially parallel shafts, a centrifuge bowl affixed to one of said faces and enclosing the peripheries of said faces, one of said shafts being hollow with the bore thereof tapering outwardly toward the treating face mounted on said shaft throughout at least a portion of the length thereof, a conduit for admitting ore to the tapered portion of said bore, and means to independently rotate said faces.

2,316,983
GARMENT CONSTRUCTION
William Wulf, New York, N. Y.
Application May 17, 1940, Serial No. 335,664
1 Claim. (Cl. 2—97)



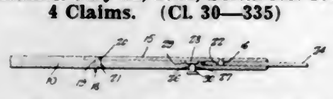
A method of forming a detachable innerlining for a coat or the like, comprising the steps of stitching the parts of the innerlining together on the wrong side, stitching the parts of a lining for the innerlining on the wrong side, stitching the bottom edge of the lining to the innerlining below the armholes, turning the lining upwards and telescoping the sleeves thereof into the sleeves of the innerlining, tacking the two linings together at the seams near the arm pits and sewing the two linings together.

2,316,984
APPARATUS FOR COATING WIRE
William Gould Brockel, Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 10, 1939, Serial No. 278,409
3 Claims. (Cl. 91—55)



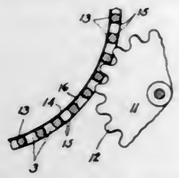
1. Apparatus for coating wire, comprising a borax bath, a furnace and a cooler comprising a compressed air manifold having air jet holes so spaced that the cooling air increases in volume from the entering end to the discharge end of said cooler, and means for drawing wire successively through said bath, furnace and cooler, whereby it is coated, said coating is fused thereon, and the coated wire cooled at an accelerated rate, so that it may then be spooled without injury to the coating.

2,316,985
HANDLE
Anton Niedermayer, Philadelphia, Pa.
Application July 21, 1941, Serial No. 403,449
4 Claims. (Cl. 30—335)



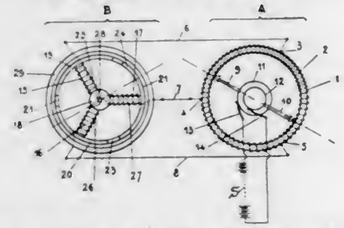
1. A knife handle having a longitudinal groove in one side, opening through the front end of the handle and deepened at the front end to form a blade shank receiving socket, a leaf spring fixed at its rear end to the handle and received in said groove, means on the free end of the leaf spring for releasably locking a blade shank in said socket, and means for deforming the free end of the leaf spring out of the groove to release the locking means from a blade shank.

2,316,986
BULB GRADING MACHINE
Victor Lee Parker, Cedar Falls, Wash.
Application January 30, 1940, Serial No. 316,362
2 Claims. (Cl. 209—86)



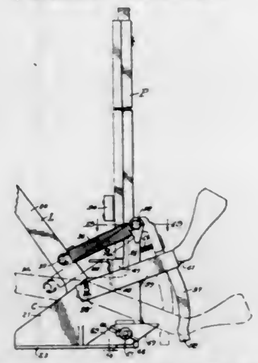
1. A grader for bulbs having flattened ellipsoidal shapes, comprising: a perforated drum, means for rotating said drum, and a toothed wheel arranged adjacent the exterior wall of said drum and so placed and constructed that the teeth thereof will enter into the perforations in said drum and release any object that may become lodged therein; said perforations tapering inwardly from both sides of the drum whereby upon movement of a bulb into a tapered perforation the bulb will be orientated with its major axis coincident with the axis of the perforation and the inside taper being circular and conical.

2,316,987
ELECTRIC DEVICE FOR DISTANT INDICATION
Henri Pittet, Blere-La-Croix, France; vested in the Alien Property Custodian
Application March 6, 1941, Serial No. 382,037
In France February 14, 1940
3 Claims. (Cl. 177—351)



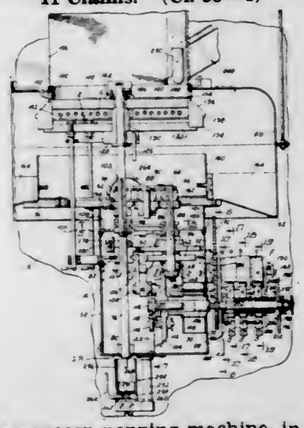
1. An electric indicating device for distant indication and the like, including a receiver adapted to cooperate with a transmitter, said receiver comprising a stationary group of electromagnetic cores radiating from a common center and exteriorly having arcuate pole pieces which together form a cylinder, a rotatably mounted annular polarized magnet surrounding said cylinder, there being coils upon said cores adapted to be connected to the transmitter, and an arcuate dial member secured to and rotatable with said annular polarized magnet exteriorly of and concentrically with said cylinder.

2,316,988
STAPLING MACHINE
Albert H. Schmidtke, St. Joseph, Mich., assignor, by mesne assignments, to The Greif Bros. Cooperage Corporation, Cleveland, Ohio, a corporation of Delaware
Application February 12, 1941, Serial No. 378,601
7 Claims. (Cl. 1—49)



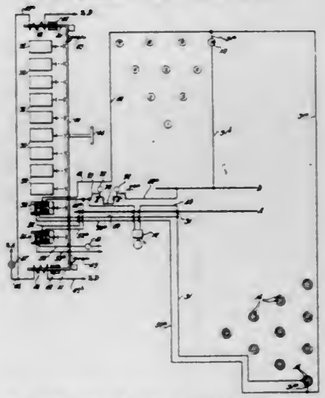
1. In a barrel stapling device, the combination of a casing having a base arranged to rest upon the head of a barrel and engage the work at the inner side thereof, a vertical post rising from the base and having means for forming a magazine for holding a vertical stack of staples, clamping means carried by the casing and arranged to engage the work at the outer side thereof for gripping the work between it and the casing, said clamping means including an operating lever operable at the outer side of the work, a driver slidable in the casing and arranged to move a staple outwardly from the magazine through the work, and a separate operating lever pivotally mounted on the casing at the inner side of the work for actuating the driver.

2,316,989
POPCORN MACHINE
Ray W. Scott, Detroit, Mich.
Application October 17, 1941, Serial No. 415,343
11 Claims. (Cl. 53—4)



1. In a popcorn popping machine, in combination, a griddle, a beater having a radial arm lying adjacent and in contact with the surface of said griddle, said arm having one edge beveled toward the surface of the griddle and the other edge extending substantially normal to the surface of the griddle, means to rotate said beater arm slowly in one direction for rolling unpopped corn in contact with the surface of the griddle and the upper surface of said arm, and means to rotate said arm more rapidly in the opposite direction to push popped corn off the griddle.

2,316,990
BOWLING ALLEY
Ellsworth F. Seaman, Washington, D. C., and Jesse B. Lunsford, East Falls Church, Va.
Original application March 25, 1938, Serial No. 198,116. Divided and this application May 1, 1940, Serial No. 332,798
4 Claims. (Cl. 273—50)



4. In a bowling alley, a foul signaling device

comprising a pair of depressible parallel arranged rollers extending across the bowling alley in relatively closely spaced relation and projecting slightly above the level of the alley, an electric circuit, a signaling member adapted to be actuated by an electric current interposed in said electric circuit, and two pairs of normally open switches, the pairs being arranged in series in said circuits and the switches of each pair being arranged in parallel, the switches of one pair underlying opposite ends of one roller in position to be closed upon depression of either or both ends thereof and the switches of the other pair being arranged in like manner with respect to the other roller, whereby upon simultaneous depression of either or both ends of both rollers the signaling member will be actuated.

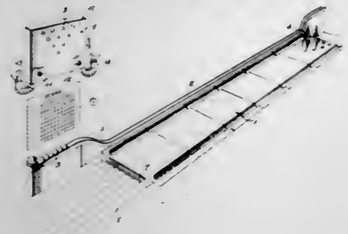
2,316,991

BOWLING ALLEY

Ellsworth F. Seaman, Washington, D. C., and Jesse B. Lunsford, East Falls Church, Va.

Original application May 1, 1940, Serial No. 332,798. Divided and this application October 19, 1942, Serial No. 462,586

5 Claims. (Cl. 273—50)



1. In a bowling alley, a loft detecting device comprising, a normally closed circuit including a signaling device, a plurality of means for directing light beams across the alley at spaced intervals in a position to be sequentially intercepted by a ball rolling down the alley, photoelectric means responsive to the simultaneous impingement of all of said light beams thereon for maintaining said circuit open, and means including said photoelectric means responsive to the sequential interception of said light beams for maintaining said circuit open, whereby when the light beams are not sequentially intercepted the circuit including the signaling device is normal and said device is actuated to indicate that the ball has not followed the proper path for it.

2,316,992

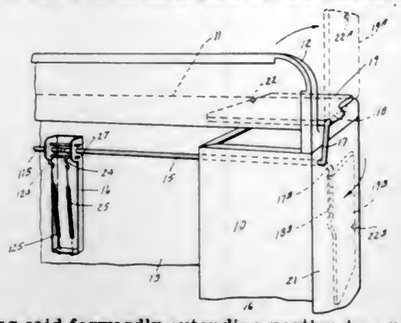
TOP COVER CONSTRUCTION FOR STOVES

Alvin G. Sherman, Grosse Pointe, Mich., assignor to Globe American Corporation, Kokomo, Ind., a corporation

Application July 25, 1940, Serial No. 347,351

3 Claims. (Cl. 126—214)

1. In a stove having rear, top and side portions and a cover plate adapted to hang adjacent one side portion of the stove in a position of non-use and to overlie a part at least of the top portion in a position of use, a support for said plate comprising a rod having a portion pivotally mounted on the stove and extending horizontally adjacent the rear of said stove, and having a forwardly bent portion in a plane perpendicular to the axis of said horizontal portion, said forwardly bent portion pivotally carrying said cover plate, an arm secured to said horizontally extending portion, and a tension spring connected to said arm and urging said support about the axis of said horizontally extending portion in a direction to



bring said forwardly extending portion to a position parallel with said side portion of the stove and closely adjacent said side portion.

2,316,993

CORRUGATED GLASS GLAZING UNIT

Laurence T. Sherwood, Connellsville, Pa., assignor to Pennsylvania Wire Glass Company, Philadelphia, Pa., a corporation of Pennsylvania

Application July 20, 1940, Serial No. 346,469

2 Claims. (Cl. 20—56.5)



1. A prefabricated self-draining dust-excluding corrugated glass glazing unit comprising two sheets of corrugated glass of substantially the same size and shape arranged face to face in spaced relation with the corrugations ranging in the direction of the length of the sheets, and strips of cushion like glass fiber mat interposed between the sheets and arranged at the margins thereof, the longitudinal strips being impervious to dust and the interstices between the fibers in the transverse strips being sufficiently small to exclude dust and large enough to pass water and means for binding the strips and the glass of the corrugated sheets together.

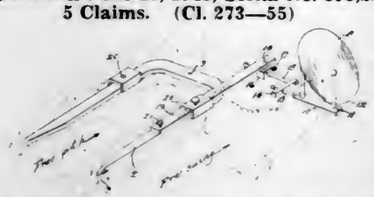
2,316,994

FOOTBALL KICKING TRAINER

Fred P. Silva, Los Angeles, Calif.

Application June 16, 1941, Serial No. 398,220

5 Claims. (Cl. 273—55)



1. A football kicking trainer including a holder

whereby to retain a placed ball in the usual kick receiving position, a stance foot guide consisting of a flat toe line bar having rearwardly extending side shanks spaced to form a foot sole spot rear of the said bar, and a forwardly extending rod mounted for axial adjustment on and as to the desired shank, and a means for laterally adjusting the holder as to the said rod.

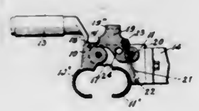
2,316,995

QUICK RELEASE GUN HOLDER

Arvid Smith, Los Angeles, Calif.

Application May 7, 1941, Serial No. 392,399

1 Claim. (Cl. 224—1)



A gun holder including two semi-tubular jaw members to be closed together, each having a channel-like body portion at one side, said body portions being pivotally connected at their tops and bottoms, a handle rigid with one of said body portions for manually moving said jaw member to open position, a supporting bracket on the other body portion, a spring connected at one end to one of said jaw members and at its other end connected with body portion of said other jaw member, between the top and bottom pivotal connections, and positioned to move across the line of the pivots of said body portions, whereby to yieldingly hold said jaw members in open or closed position when moved by said handle, and a latch means pivotally mounted on top of one body portion and extended across and into engagement with the other body portion for holding said jaw members in closed, holding position, and spring means operating to move said latch means into holding position in engagement with the movable body portion having the handle.

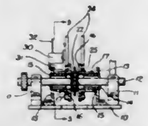
2,316,996

CUTOFF SAW

Donald Joseph Smith, Vancouver, British Columbia, Canada, assignor to Reed-Prentice Corporation, Worcester, Mass., a corporation of Massachusetts

Application April 15, 1940, Serial No. 329,780

4 Claims. (Cl. 143—32)



2. A cut-off saw comprising a base, a cutter bar having a hub at its inner end, means on the base for rotatably supporting the bar hub, a suitably supported shaft extending through the hub without engagement with said hub, means for rotating the shaft, a sprocket secured to the shaft in line with the cutter bar, a saw chain extending around the bar and over the sprocket, said saw chain being moved over the bar when the shaft and sprocket are rotated, and a handle connected to the bar adjacent the pivot end thereof, said handle projecting outwardly at an angle to the bar, whereby said handle may be moved back and forth to raise and lower the cutter bar.

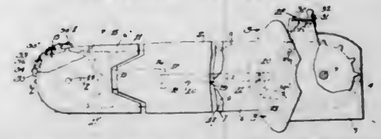
2,316,997

TENSIONING MEANS FOR CHAIN SAWS

Donald J. Smith, Vancouver, British Columbia, Canada, assignor to Reed-Prentice Corporation, Worcester, Mass., a corporation of Massachusetts

Application August 29, 1940, Serial No. 354,645

5 Claims. (Cl. 143—32)



1. In a chain saw construction, a frame, a saw chain extending around and guided by the frame, said frame having a main section and an outer section movable with respect to said main section, a bar extending through said main section and connecting with the end section, and a spring adjacent the end of the main section of the frame remote from the outer section, said spring acting on said bar for urging said end section away from said main section and thereby applying a tension to the saw chain.

2,316,998

WATER RESISTANT COMPOSITION MATERIAL AND METHOD OF MAKING SAME

Nathaniel L. Smith, Los Angeles, Calif., assignor to Process Holdings Company, a corporation of Oregon

No Drawing. Application October 26, 1939, Serial No. 301,471

10 Claims. (Cl. 106—159)

3. The process of making a water resistant porous insulating product which comprises treating an aqueous slurry consisting essentially of finely divided inert mineral material and having intermixed therewith a water soluble gelatinized vegetable binder and a fibrous material in an appreciable amount sufficient to form a cohesive end product with a water soluble resinate soap, a water soluble metal salt capable of reacting with said soap to form a precipitatable compound, and ammonia in amount sufficient to form a water soluble complex with said metal salt, aerating said slurry, spreading said slurry to the desired shape, and drying the mass to liberate the ammonia and precipitate the precipitatable compound.

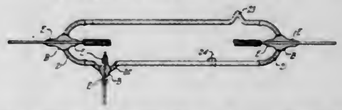
2,316,999

QUARTZ TUNGSTEN SEAL

Charles D. Spencer, Cleveland Heights, Ohio, assignor to General Electric Company, a corporation of New York

Application July 29, 1941, Serial No. 404,535

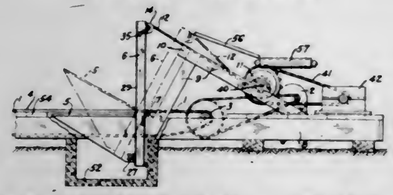
5 Claims. (Cl. 250—27.5)



1. The combination with a vitreous envelope and a metal member penetrating its wall through a sealing body of vitreous material which is of substanstantially lower coefficient of expansion than the metal member and is fused into the vitreous envelope wall, and is also fused about and adherent to said member, said sealing body having a thickness around said metal member that is many-fold that of the member and being thus under relatively high inward-and-outward

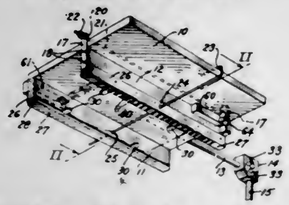
tensile stress; of reduced sleeve extensions of said sealing body inside and outside the envelope wall, each said sleeve extension coating and adhering to said member and extending therealong a substantial distance with a vitreous thickness around the member not greater substantially than the thickness of said member, whereby the inward-and-outward tensile stresses in each sleeve extension are relatively uniform and low as compared with those in said main sealing body.

2,317,000
TILTABLE LUMBER HOIST
Jesse J. Tallman, Fort Bragg, Calif.
Application September 29, 1941, Serial No. 412,725
8 Claims. (Cl. 214—8.5)



1. In a lumber hoist, the combination of a plurality of vertical straight guide columns independently pivoted with respect to one another upon a common framework, hoisting arms traversable along said guide columns and making a fixed angle therewith, means secured to said hoisting arms arranged to produce tilting of said guide columns through a predetermined angle prior to movement thereon of said hoisting arms.

2,317,001
BOOK HOLDER
Edouard Thys and George L. Sclater-Booth, Sacramento, Calif., assignors to Thys & Miller, Sacramento, Calif., a copartnership consisting of Edouard Thys and Albert K. Miller
Application August 12, 1942, Serial No. 454,484
6 Claims. (Cl. 45—82)



1. In a reading stand, the combination of a backboard, a shelf secured adjacent one edge thereof, an adjustable shelf thereon, a connector extending between said shelves and spaced outwardly from said backboard, runners, and means secured adjacent the faces of said shelves for supporting said runners thereon whereby the latter may be moved toward or away from said connector.

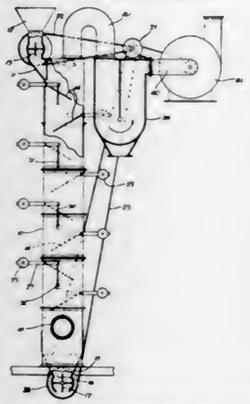
2,317,002
TOOTHBRUSH
George Ulvick, Minneapolis, Minn.
Application August 4, 1940, Serial No. 351,372
3 Claims. (Cl. 15—135)

1. In combination, a toothbrush portion having a shank, a shoulder on said shank, an axial longitudinal passage through said shank extending to the bristles, a separable handle portion adapted to form a reservoir for dentifrice and having a substantially rectangular transverse cross-sectional formation and formed with longitudinally extending narrow side walls which have a comparatively thick rigid wall for-



mation, and longitudinally extending wide walls formed in said handle adapted to provide flexible means in said side walls of said handle for pumping the dentifrice from said handle to the bristles.

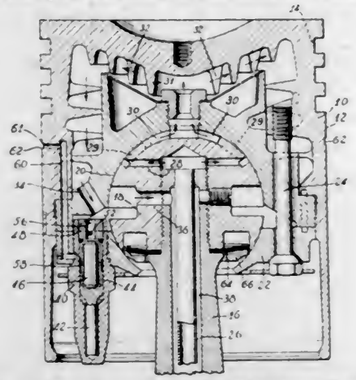
2,317,003
DRYING APPARATUS
Gustave Andre Vissac, Vancouver, British Columbia, Canada
Application September 18, 1941, Serial No. 411,414
4 Claims. (Cl. 34—172)



1. Drying apparatus comprising a vertical casing, inclined baffles pivotally supported adjacent their upper ends at opposed sides of the casing with the free lower end of each baffle overlapping each adjacent baffle at the opposite side, means for resiliently retaining each baffle at a predetermined angle; each baffle including a shaft journalled in the sides of the casing, one end of said shaft projecting beyond the casing wall, a lever fixedly mounted on said shaft end approximately midway between its ends, one end of said lever lying substantially along side the baffle, means for limiting the upward movement of said end of the lever, and means for limiting the upward movement of the opposite end of the lever; means for supplying wet granular material to the top of the casing, material supplied to the casing being adapted to cascade downwardly over the baffles, means for directing hot air upwardly around the baffles in the casing, and means for removing dried material from the bottom of the casing.

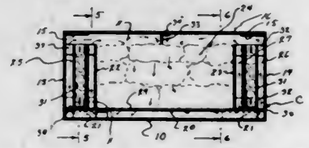
2,317,004
LUBRICATING PISTON ENGINE
August Gunnar Ferdinand Wallgren and Kaleb Emil Evrell, Eskilstuna, Sweden
Application November 23, 1940, Serial No. 366,850
In Sweden December 13, 1939
12 Claims. (Cl. 309—6)

7. A piston having a passage formed therein, said passage including two sections, one of which leads to the outer cylindrical surface of the piston, means for supplying lubricant under pressure to the other section, and throttling means interposed between said sections for restricting flow of lubricant therethrough, said throttling means including a member having a bore therein and a plunger reciprocably mounted in said bore with permanently open clearance space be-



tween said plunger and said member, said plunger having an axial passage therethrough to equalize pressure at opposite ends thereof, one of said sections being connected to one end of said bore and the other section being connected to an intermediate point of said clearance space.

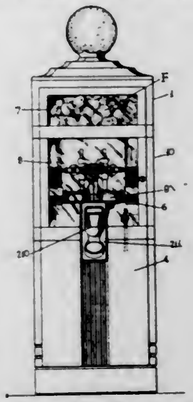
2,317,005
SHIPPING CARTON
Nathan Wasserman, South Milwaukee, Wis.
Application April 14, 1941, Serial No. 388,476
6 Claims. (Cl. 62—91.5)



1. A shipping carton comprising, a bottom wall, end and side walls, and cover flaps, a false bottom plate in said carton held in spaced relation to the bottom wall and having openings therein for the circulation of air therethrough, and transverse partitions extending from one side wall to the other in spaced relation to the end walls forming a main food compartment and end auxiliary refrigerant receiving compartments, said partitions terminating short of the upper end of the carton and resting upon said false bottom.

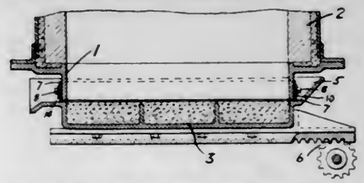
2,317,006
FRUIT JUICE MACHINE
William A. Weightman and Walter Hurleman, Philadelphia, Pa., assignors, by mesne assignments, to Sealdsweet Sales Association, Tampa, Fla., a corporation of Florida
Original application August 10, 1937, Serial No. 158,380. Divided and this application September 15, 1939, Serial No. 295,032
7 Claims. (Cl. 225—21)

1. In a fruit juice extracting machine, a cabinet for housing the machine, a pair of cup dispensers located at opposite sides of the cabinet each having the usual release levers to release one cup at a time at one operation of a lever, a main frame supporting the machine in the cabinet, a main shaft mounted in said frame, means operating said release levers alternately to release a cup from the dispensers alternately, said means comprising a cam geared to said main shaft, a pair of cam followers engaging said cam, and each held against the cam by a spring, and connections from said cam followers to the respective release



levers, the cam having a sudden drop off at which the release levers are actuated to release a cup, and the cam followers being arranged at substantially diametrically opposite points on the cam, whereby a cup is released at each half revolution of the cam, but from the dispensers alternately.

2,317,007
SEALING MEANS FOR ASH HOPPER GATES
Joseph K. Weniger, Philadelphia, Pa., assignor to Beaumont Birch Company, Philadelphia, Pa., a corporation of Pennsylvania
Application June 27, 1939, Serial No. 281,353
2 Claims. (Cl. 221—144)

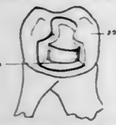


1. Means for effectively sealing the space between a movable ash hopper gate part and its relatively fixed frame part against air pressure which consists of the combination of said gate and frame parts, of a strip of heat resisting resilient material interposed edgewise and in stressed condition between the edges of the frame and gate parts to provide a wiping contact closure between them and connected to one of said parts, said strip disposed endwise at the sides of the gate in the direction of its relative movement in respect to the frame and crosswise at the gate ends, a reenforcement in contact with the strip at the root of the strip, fastening devices holding said strip in sealing position, and slots provided in the strip and cooperating with the fastening devices.

2,317,008
DENTAL RESTORATION
Wilbert A. Werner, Western Springs, Ill.
Application May 29, 1941, Serial No. 395,716
7 Claims. (Cl. 18—55.1)

1. The method of making dental restorations

of the class described which comprises preparing a pattern by solidifying a material in the dental restoration form, then solidifying another material on the pattern to form a mold with a mold cavity therein corresponding to the pattern, then



desolidifying and removing the pattern from the mold cavity, then injecting and solidifying another material in the mold cavity, and then desolidifying and removing the mold from the solidifying material last mentioned.

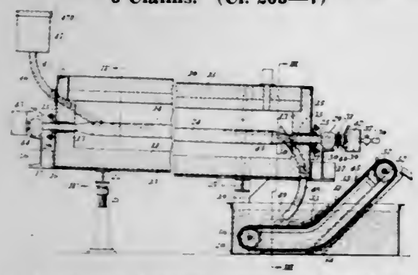
2,317,009

APPARATUS FOR SUBJECTING CYLINDRICAL MEMBERS TO HEAT TREATMENT

Lee Wilson and Floyd Olmstead, Cleveland, Ohio, assignors to Lee Wilson Sales Corporation, Cleveland, Ohio, a corporation of Ohio

Application June 10, 1941, Serial No. 397,406

5 Claims. (Cl. 263—7)



1. A heating furnace comprising a refractory-lined enclosure, a pair of inclined tubes extending through the furnace, journal bearings outside the furnace engaging the ends of the tubes and supporting them rotatably in closely spaced, generally parallel relation, means supplying heat to the interior of said tubes, a delivery chute, adapted to direct work pieces into the groove between said tubes near one end thereof and a discharge chute near the other end of the tubes adapted to receive the pieces after they have traveled along the tubes.

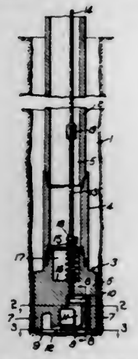
2,317,010

BOREHOLE DEFLECTING TOOL

William F. Wingard, Baltimore, Md.

Application July 25, 1940, Serial No. 347,440

8 Claims. (Cl. 255—1.6)



8. In combination with a rotatable drill bit and a hollow rotatable stem therefor, of a braking means reciprocally mounted within said bit, eccentric to the central vertical axis thereof, means for depressing said brake means to engage the bottom surface of the hole being bored by said bit, during rotation thereof, to provide a temporary pivot for said rotatable bit, eccentric to its previous axis of rotation, and means normally acting to hold said brake means out of engagement with the bottom surface of the hole being bored.

2,317,011

β-(p-METHOXYPHENYL) n-PROPYL DIMETHYLAMINE

Eugene H. Woodruff, Kalamazoo, Mich., assignor to The Upjohn Company, Kalamazoo, Mich.

No Drawing. Application August 3, 1940, Serial No. 351,140

1 Claim. (Cl. 167—65)

A therapeutic agent for producing bronchodilator effects comprising essentially β-(p-methoxyphenyl) n-propyl dimethylamine.

2,317,012

β-p-METHOXYPHENYLPROPYL BENZYLAMINE

Eugene H. Woodruff, Kalamazoo, Mich., assignor to The Upjohn Company, Kalamazoo, Mich.

No Drawing. Application April 4, 1941, Serial No. 386,861

1 Claim. (Cl. 260—570.9)

A physiologically active therapeutic agent capable of producing bronchodilator effects comprising essentially a β-p-methoxyphenylpropyl benzylamine of the group consisting of β-p-methoxyphenylpropyl benzylamine and salts thereof.

2,317,013

β-m-METHOXYPHENYLPROPYL BENZYLAMINE

Eugene H. Woodruff, Kalamazoo, Mich., assignor to The Upjohn Company, Kalamazoo, Mich.

No Drawing. Application April 4, 1941, Serial No. 386,862

1 Claim. (Cl. 260—570.9)

A physiologically active therapeutic agent capable of producing bronchodilator effects comprising essentially a β-m-methoxyphenylpropyl benzylamine of the group consisting of β-m-methoxyphenylpropyl benzylamine and salts thereof.

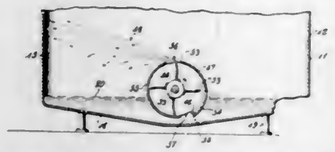
2,317,014

APPARATUS FOR WASHING AND RINSING DISHES, SILVERWARE, AND THE LIKE

Donald E. Yochem, Columbus, Ohio, assignor to L. S. D., Inc., Dayton, Ohio, a corporation of Ohio

Application July 11, 1941, Serial No. 402,006

10 Claims. (Cl. 299—62)



1. In a dish and silverware washing and rinsing machine, a housing having a bottom portion for collecting fluids, a rotary impeller extending horizontally of the housing adjacent its bottom to receive fluid therefrom and project it into the housing, means for partially enclosing the impeller mounted for angular movement about the axis of and relative to the impeller, said means comprising an elongated transversely curved fluid deflector portion and an elongated transversely curved guard portion opposed to said deflector portion, said deflector and guard portions extending longitudinally of the impeller and being spaced at their adjacent longitudinal edges to provide opposed fluid inlet and outlet openings, and means for angularly moving the deflector and guard assembly about its longitudinal axis so that the fluids projected through said outlet opening by the impeller will be caused to traverse the housing from one side to the other as a result of movement of the deflector portion relative to the periphery of the impeller.

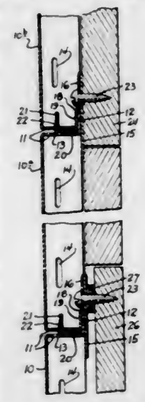
2,317,015

FASTENING MEANS FOR METAL PANELS

Francis E. Allen, Alameda, Calif.

Application December 16, 1940, Serial No. 370,282

7 Claims. (Cl. 189—88)



1. In fastening means for metal panels having flanged edges with slots formed therein, a member adapted to be secured against a wall, a portion extending therefrom to enter one of said slots, and a tongue bent from said portion to form a wedge in the slot.

2,317,016

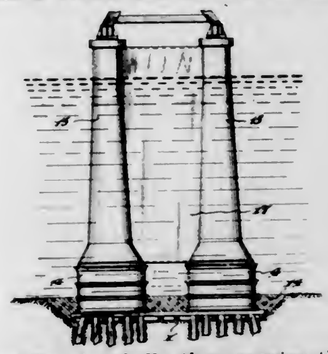
BRIDGE FOUNDATION AND METHOD OF MAKING SAME

Herschel H. Allen, Towson, Md.

Application October 20, 1939, Serial No. 300,482

4 Claims. (Cl. 61—50)

1. A method of erecting a pier or like foundation consisting of excavating a trench in the bottom of a river bed, temporarily arranging pile dolphins at the corners of the trench, taking a perforated buoyant mat, fixing the required number of pier base shell members on the buoyant mat about the perforations, floating the mat into a position above the trench, adjustably connecting the mat to the pile dolphins to ensure of an accurate positioning of the mat, driving a guide pile through one of the perforations in the mat, applying weight to the mat to sink the latter along the guide pile so that the mat rests properly in the prepared trench, then removing the protruding upper part of the guide pile, then driving plumb and batter piles through other perforations in the mat, then partially back-filling around the mat and the base shell members thereon, then arranging pier shells with their lower portions slightly telescoped within the base shell members, then filling the base shell members with a Tremie seal of concrete, then unwatering the pier shells, then capping the piles, then arranging anchoring and reinforcing material within the shells, and finally filling the shells with concrete with the latter filling engaging the capped upper ends of the piles.



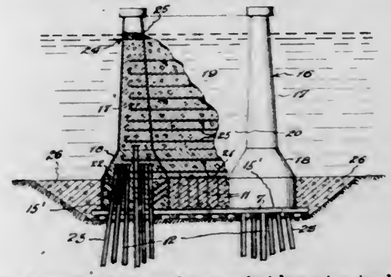
2,317,017

PIER AND METHOD OF CONSTRUCTING THE SAME

Herschel H. Allen, Baltimore, Md.

Application October 31, 1940, Serial No. 363,753

2 Claims. (Cl. 61—52)



1. A method of making a bridge pier including excavating a trench in the bottom of a river bed, temporarily arranging pile dolphins at the corners of the trench, floating a perforated buoyant mat into a position above the trench, adjustably connecting the buoyant mat to the pile dolphins to ensure an accurate positioning of the mat, driving guide piles at desired points through perforations in the mat, applying diaphragm pier supports to the mat to serve as weights to facilitate sinking of the mat along the guide piles so that the mat rests properly in the prepared trench, then removing the upper part of the guide piles, then driving plumb and batter piles through perforations in the mat in such manner as to leave the upper portions projecting above the mat, then floating a pier shell having spaced and diaphragm connected leg portions and sinking the same so that the lower ends of the leg portions enclose the upper projecting ends of the piles and contact the mat while the diaphragm portion between the leg portions rests on the supports on the mat, then effecting a pour of Tremie concrete within the lower portion of the leg portions so as to form a base and to bond the leg portions to the piles, then effecting a second pour of Tremie concrete on the first pour and about the upper projecting ends of the piles,

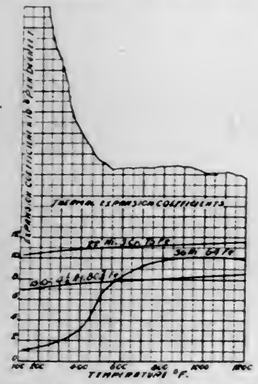
applying reinforcing material within the pier shell, and finally completely filling the pier with cementitious material.

2,317,018

ELECTRICAL RESISTOR OF THERMOSTATIC LAMINATED METAL

Clarence F. Alban, Pontiac, and Stanley R. Hood, Detroit, Mich., assignors to W. M. Chace Company, Detroit, Mich., a corporation of Michigan

Application February 13, 1941, Serial No. 378,812
10 Claims. (Cl. 297—15)



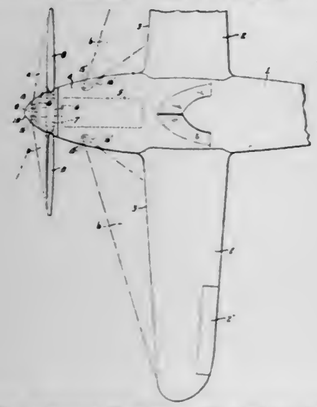
1. An electrical resistor of laminated thermostatic metal comprising high and low expanding laminae, the high expanding lamina being an alloy containing about 15% chromium, about 4.25% aluminum, about .5% manganese, and the balance iron, the low expanding lamina being a nickel-iron alloy comprising essentially nickel in an amount falling within a range of from 35% to 42% by weight and the balance iron.

2,317,019

DE-ICING DEVICE FOR AIRPLANE PROPELLERS, WINGS, AND THE LIKE

James Dobson Altemus, Roslyn, N. Y.

Application January 27, 1941, Serial No. 376,125
3 Claims. (Cl. 244—134)



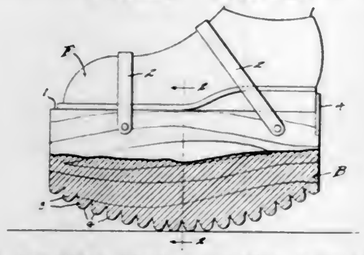
1. The combination with the supporting plane and propeller of an airplane, of a source of electromagnetic infra-red radiant heat rays carried by the airplane and means for directing electromagnetic heat rays, emanating from said source, on the leading edges of at least one of the propeller and supporting plane members said means including a concentrating lens disposed in front of said source composed of a material which is highly transparent to infra-red rays developed by such source.

2,317,020

WALKING BLOCK

James G. Banister, Chicago, Ill.

Application March 15, 1941, Serial No. 383,633
2 Claims. (Cl. 36—7.5)



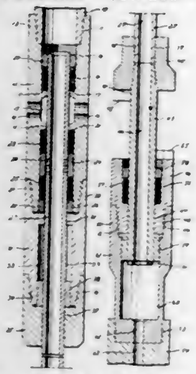
1. A walking block comprising a body having a flat top surface on which the foot of a person is to be positioned, means carried by the front portion and by the rear portion of the body for disposal over the toe portion and instep portion of the foot for securing the body to said foot, and outstanding ridges carried by the bottom surface of the body from end to end and disposed transversely of the body, the outer contacting portions of said ridges defining a curvature lengthwise of the body and a curvature transversely of the body to allow forward, backward and lateral rocking of the walking block, said ridges also providing means to vibrate the walking block when in use, each of said ridges being substantially V-shaped in form in cross section.

2,317,021

BY-PASS AND RELEASING MEANS

Ross Bassinger, Houston, Tex.

Application February 5, 1940, Serial No. 317,232
5 Claims. (Cl. 166—1)



5. A device, of the character described, for detachably connecting a conductor with a well tool including, an upper body adapted to be secured to the conductor, a lower body adapted to be secured to the well tool, an elongate member mounted in the upper body so as to be incapable of rotative movement relative thereto, said member extending into the lower body and

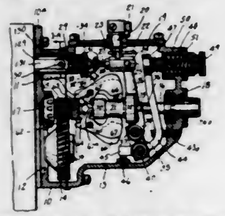
having a splined connection therewith, said splined connection being adapted to be disengaged upon longitudinal movement of the member within the lower body, a clutch member carried by said lower body and providing a stop for retaining said elongate member in connection with the lower body, and a coacting clutch member secured to the elongate member and adapted to engage the first clutch member when the splined connection is disengaged so as to effect the rotation of said first clutch member relative to the lower body and the release of the upper body, elongate member and clutch members from said lower body and well tool.

2,317,022

WIDE RANGE CENTRIFUGAL GOVERNOR

Walter E. Benjamin, Anderson, Ind., assignor to Pierce Governor Company, Anderson, Ind., a corporation

Application May 15, 1942, Serial No. 443,112
11 Claims. (Cl. 264—15)



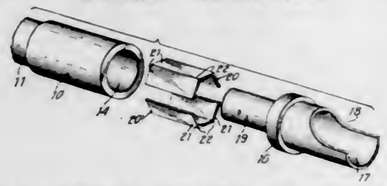
1. In a governor for Diesel engines having a fuel pump with a control member, the combination of a plurality of dissimilar weight means, a shaft responsive to engine speed for rotating said means to subject same to centrifugal force, a control member subject to weight means movement under centrifugal force, a lever operatively interposed between said control members, means normally constraining the lever to predetermined position in opposition to said weight movement, another lever, means normally constraining same to predetermined position, said second lever being responsive to the centrifugal movement of one of the weight means, following the preceding lever response, and means operatively connecting both levers together for first mentioned lever operation initially independent of the second mentioned lever and conjoint operation.

2,317,023

SPRING CONTACT FOR ELECTRIC CONNECTIONS

Stanley P. Bird, Verona, N. J., assignor to Breeze Corporations, Inc., Newark, N. J.

Application December 22, 1941, Serial No. 424,032
4 Claims. (Cl. 173—363)



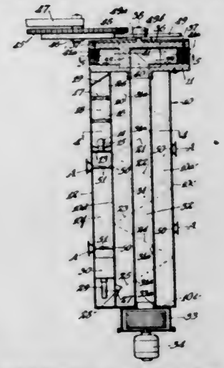
1. An electrical connector comprising a conductive socket and a conductive plug, each having means for engagement with the end of a conductor, and semi-tubular conductive springs of polygonal cross section interposed between said socket and plug to effect electric transmission therebetween when in engagement.

2,317,024

FIRE ALARM APPARATUS

Jerome J. Bliss, Minneapolis, Minn., assignor to Ray-O-Matic Fire Guard Company, Minneapolis, Minn., a corporation of Minnesota

Application April 22, 1940, Serial No. 330,972
3 Claims. (Cl. 177—311)



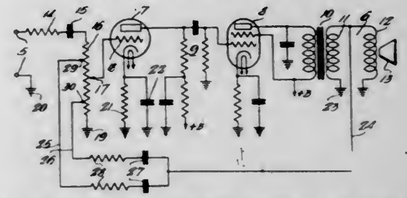
1. Smoke-detecting apparatus comprising, structure providing spaced, parallel, mutually facing, elongated light-reflective surfaces, a light source situated and arranged to project a beam of light on one of said surfaces near one end of said pair thereof at such an angle that said beam will be reflected alternately by said respective surfaces to follow a zigzag course toward the remaining end of said pair, light-responsive means situated to receive said multiply reflected beam and arranged to cause production of a signal responsive to diminution of the strength of the received beam, an elongated duct positioned to intersect a plurality of the successively reflected portions of said beam, the walls of said duct being apertured at each intersection thereof with said beam to enable projection of said beam through said duct to cross the interior space thereof, and means for producing a flow of sampled air longitudinally through said duct and preventing contact of the sampled air with said light reflective surfaces.

2,317,025

VOLUME CONTROL CIRCUIT

Donald S. Bond, Philadelphia, Pa., assignor to Radio Corporation of America, a corporation of Delaware

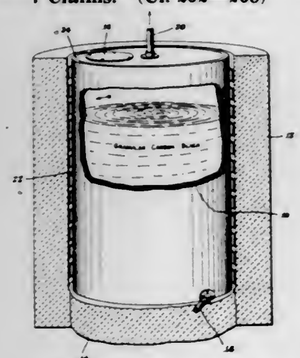
Application July 29, 1939, Serial No. 287,370
4 Claims. (Cl. 179—171)



1. In a signal amplifier circuit, the combination of a volume control potentiometer device for said circuit, an inverse feedback circuit, a plurality of inverse feedback tap connections for said last-named circuit with said volume control device at intermediate points thereon providing different degrees of inverse feedback at different predetermined attenuation levels, and means in certain of said inverse feedback connections for imparting a frequency characteristic thereto,

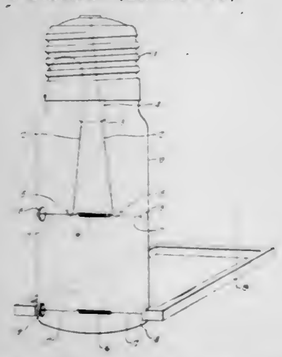
thereby to impart to said circuit tone compensation conjointly with variation in signal attenuation.

2,317,026
CARBON BLACK PRODUCT AND PROCESS OF MAKING THE SAME
Owen J. Brown, Jr., Boston, and Walter R. Smith, Cambridge, Mass., assignors to Godfrey L. Cabot, Inc., Boston, Mass., a corporation of Massachusetts
Application June 14, 1938, Serial No. 213,606
7 Claims. (Cl. 252—268)



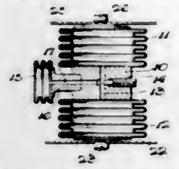
1. The process of making highly adsorptive carbon black having a fast filter rate, which includes the steps of converting the dry flocculent carbon black of commerce into dense free-flowing granules containing no extraneous binder, and then subjecting the granules to the action of an oxidizing gas stream at a temperature above 1700° F. while maintaining the free-flowing characteristics of the granules.

2,317,027
MULTIPLE FILAMENT ELECTRIC LAMP
Henry E. Butler, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application April 18, 1942, Serial No. 439,602
8 Claims. (Cl. 176—26)



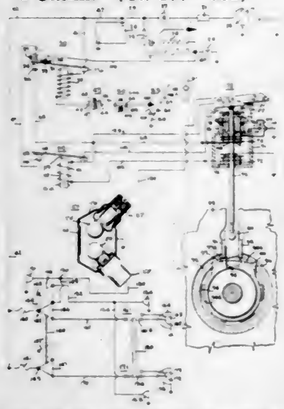
3. An electric incandescent lamp comprising a bulb, a pair of lead-in wires extending into said bulb and having hook-shaped end portions, a filament supported by said hook-shaped lead-in wire end portions without being secured thereto, and a second filament in said bulb spaced from said lead-in wire end portions and physically separate from said first-mentioned filament and capable of being transferred bodily onto said hook-shaped lead-in wire end portions to replace said first-mentioned filament.

2,317,028
ACCELEROMETER
Ralph R. Chappell, Richmond, Va., and Rutger B. Colt, Baltimore, Md., assignors to Bendix Aviation Corporation, Bendix, N. J., a corporation of Delaware
Application August 6, 1941, Serial No. 405,720
6 Claims. (Cl. 264—1)



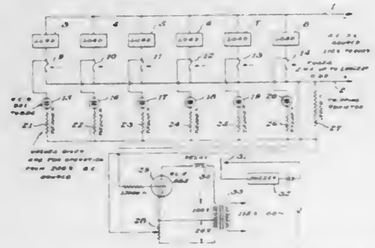
1. An acceleration responsive device for determining the acceleration of an aircraft, comprising a weighted mass, a plurality of fluid damping means comprising a pair of oppositely disposed bellows supporting said mass therebetween in a predetermined position and containing a fluid for constraining movement of said mass during normal flight of said craft, means providing a fluid passage between said bellows, and metering means for regulating the rate of flow of said fluid through said passage, said mass being adapted to move against the constraining action of said damping means during acceleration of said craft so that the amount of said movement is proportional to the amount of acceleration.

2,317,029
INDICATING SYSTEM FOR OVERDRIVE CONTROL
Edward M. Claytor, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application June 6, 1941, Serial No. 396,843
1 Claim. (Cl. 177—311)



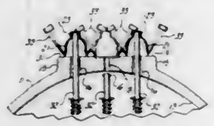
A visual indicator for use on automobiles comprising a lamp housing providing a translucent screen to be illuminated, a lamp within the housing for projecting upon the screen a brilliant color readily observed in the day-time, another lamp within the housing for projecting upon the screen a light of subdued color whereby, when both lamps are burning at night, the screen will show a combined color much less brilliant than that given by the first lamp alone, which combined color may be observed at night with pleasing effect, means operable in response to a condition of the automobile for causing the first lamp to burn, and means responsive to the turning-on of the lamps of the automobile for causing the second-mentioned lamp to burn.

2,317,030
FUSE INDICATING SYSTEM
John D. Colvin, Indianapolis, Ind., assignor to Radio Corporation of America, a corporation of Delaware
Application July 21, 1939, Serial No. 285,738
2 Claims. (Cl. 177—311)



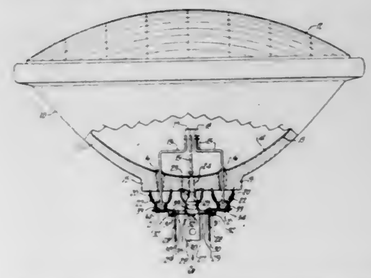
1. The combination of electrical circuit terminals, a plurality of load devices, a plurality of fuses each connected between said terminals in series with a different one of said load devices, a plurality of glow discharge tubes, a plurality of current-limiting resistors for said tubes, a circuit providing a connection through one of said resistors and one of said tubes in series across each of said fuses, thereby to cause the different tubes to respond to a voltage change resulting from the parting of a different one of said fuses, a common resistor in shunt with all of said fuses through the several tube circuits, and a control tube having input electrodes connected with said resistor to receive a control potential therefrom in response to current flow therethrough.

2,317,031
ELECTRIC LAMP AND METHOD OF MANUFACTURE
Carl A. Cotman, Parma, and Daniel K. Wright, Cleveland Heights, Ohio, assignors to General Electric Company, a corporation of New York
Application July 12, 1941, Serial No. 402,120
17 Claims. (Cl. 176—2)



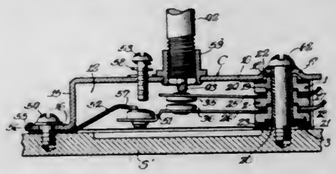
16. A mount structure for electric lamps comprising a glass body having a plurality of openings through the wall thereof, a plurality of closed metal thimbles mounted on the exterior of said glass body over the said openings therein and having their edge portions hermetically sealed to the glass of said body around said openings, and rigid inner lead members extending through said openings and having outer end portions disposed within portions of said thimbles, the said portions of said thimbles being of appreciably larger size than the size of the said outer end portions of said inner leads, said inner leads being secured within said thimbles but out of direct contact therewith and in exact predetermined lateral relation to a reference portion of the said glass body independent of the lateral relation of said thimbles to the said reference portion of said glass body.

2,317,032
TERMINAL STRUCTURE FOR ELECTRIC LAMPS
Carl A. Cotman and Daniel K. Wright, Cleveland Heights, Ohio, assignors to General Electric Company, a corporation of New York
Application April 9, 1942, Serial No. 438,348
9 Claims. (Cl. 176—32)



1. An electrical device comprising a glass envelope having a plurality of metal terminal elements mounted exteriorly of said envelope and each provided with a cylindrical extension, and a base structure for said device comprising an insulator member and a plurality of metal contact prongs rigidly secured to said insulator member, said contact prongs having integral eyelets fitting over the said extensions on said terminal elements and being rigidly secured thereto.

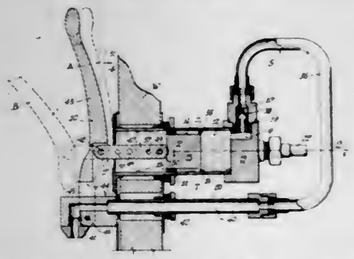
2,317,033
THERMOSTAT STRUCTURE
Kenneth B. Dafforn, Dover, Ohio, assignor to Knapp-Monarch Company, St. Louis, Mo., a corporation of Missouri
Application April 14, 1941, Serial No. 388,536
6 Claims. (Cl. 200—138)



1. A thermostat structure comprising a channel shaped casing having its web turned down at one end and spanning the distance between the flanges of the casing and terminating in a mounting ear located in a plane substantially parallel to the web of the casing, a pair of spring arms, a contact carried by each spring arm, means adjacent the other end of said casing for mounting said spring arms so that they are biased to disengage each other comprising a tubular rivet, said spring arms having enlarged openings to receive said tubular rivet, a first spacer between the web of said casing and one of said spring arms, a second spacer between said spring arms, a third spacer below the other

spring arm, said spacers having central hubs receiving the openings of said spring arms and prongs located spaced from said hubs, said spring arms and the web of said casing having openings to receive said prongs for positioning said spring arms against rotation on said tubular rivet, a screw through said tubular rivet entering a surface from which heat is received to operate the thermostat, an adjusting nut secured to the web of said casing, an adjusting screw threaded therein and engaging said one of said spring arms to effect engagement of the contact thereof with the contact of said other spring arm, a bimetal element for moving said other spring arm away from said one spring arm when the bimetal element is warped by heat, said bimetal element being mounted against said ear, a screw through said ear and said bimetal element into said surface from which heat is received, said other spring arm carrying an insulating button for engagement by said bimetal element to separate the contact of said other spring arm from the contact of said one spring arm at the operating point of the thermostat, and a stop screw threaded through said web of said casing and engaged by said insulating button to permit separation of the contact of said one spring arm from the contact of said one spring arm when said adjusting screw is adjusted to a minimum position, said bimetal element being notched to clear said stop screw and a spring being provided under the head of said stop screw to retain it in its adjusted position.

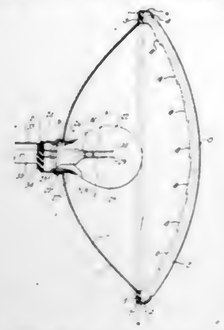
2,317,034
PISTON RING FOR MIXING VALVES
Albert A. Dalkin, Chicago, Ill., assignor to A. Dalkin Co., Chicago, Ill., a corporation of Illinois
Application August 10, 1942, Serial No. 454,256
2 Claims. (Cl. 309—23)



1. A piston ring adapted to roll in sealing engagement between a piston and cylinder, said ring being made of rubber in which a torsional strain has been set up to destroy the tendency of the rubber ring to assume a normal position of equilibrium when rolled on a cylindrical surface frictionally embraced by the ring.

2,317,035
ELECTRIC LAMP
Junius Dana, University Heights, Ohio, assignor to General Electric Company, a corporation of New York
Application March 28, 1941, Serial No. 385,672
7 Claims. (Cl. 176—34)

2. An electric lamp comprising a bulb having a neck portion and a base enclosing said neck portion and secured thereto by a composite basing cement having portions of different compositions, one of said portions being of a composition providing a bond of the required mechanical strength between said base and bulb to hold said parts together and the other of said portions being of a



composition providing a hermetic seal between said base and bulb.

2,317,036
COLLAPSIBLE DISPLAY STAND
Charles Doering and Henry H. Doering, Chicago, Ill.
Application February 11, 1939, Serial No. 255,992
7 Claims. (Cl. 211—132)



2. In a merchandise display stand, the combination with a plurality of merchandise supporting frames, of detachably interconnected standards detachably engaging and disengaging certain of said merchandise supporting frames and other of said standards being pivotally connected to certain of said merchandise supporting frames to support said merchandise supporting frames in operative position and permit the collapsing thereof to inoperative position, and means for resiliently locking said standards in operative supporting position.

2,317,037
JAR OR CAP WRENCH
Joseph L. Donovan, Duluth, Minn.
Application August 26, 1940, Serial No. 354,208
3 Claims. (Cl. 81—3.43)

1. A jar wrench or holder of the class described comprising a hollow handle having a plurality of spaced transverse slots in one side thereof, a longitudinal slot in said side extending from the free end of the handle to the uppermost slot and intersecting all intermediate slots, a transverse slot in the other side of said handle adjacent the upper end thereof, a rectangular opening in said other side spaced from said transverse slot, a flexible spring metal band having means at one end for engaging said transverse slot and adapted to pass through said rectangular opening, and a T-shaped flat metal catch one end of which is bent and attached to the free end of said band, and the main body portion of which is adapted to engage any transverse slot, a reduced free end issuing from said main body portion and adapted to slide in said longitudinal



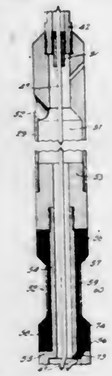
slot upon depression of said main body portion within said hollow handle

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2,317,038
PARAFFIN SOLVENT
William H. Ellinger, Smith, N. Mex.
No Drawing. Application April 25, 1941, Serial No. 390,426
5 Claims. (Cl. 141—1)

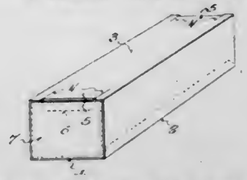
1. The method of removing paraffin from a tubing wall comprising softening the paraffin and subjecting the same to contact with bentonite, permitting the bentonite to mix with the paraffin, and thereafter removing the mixture from the tubing.

2,317,039
METHOD AND APPARATUS FOR DETERMINING WATER LEAKAGES INTO WELLS
George H. Ennis, Long Beach, Calif., assignor of one-half to Robert V. Funk, Long Beach, Calif.
Application September 25, 1939, Serial No. 296,449
12 Claims. (Cl. 175—182)



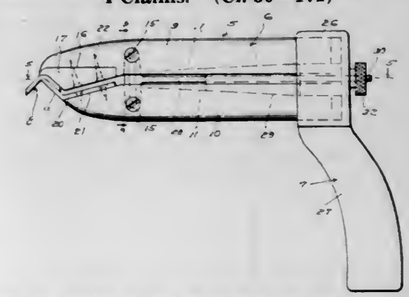
1. A method of testing a well, in which there is a flow of fluid, for entry of water thereinto, comprising: making a test to determine the location of a body of water in the well; introducing a conditioning solution into said body of water; and immediately thereafter testing consecutive portions of said body of water.

2,317,040
PAPER CARTON
Albert S. Ethridge, Milwaukee, Wis., assignor to Hummel & Downing Company, Milwaukee, Wis.
Application March 17, 1941, Serial No. 383,751
1 Claim. (Cl. 229—9)



In a carton embodying an open top box and a telescopic casing therefor of the same length as the box; a locking means for the box and casing comprising tongues extending beyond the ends of one wall of the casing, the ends of said casing being longitudinally slit a predetermined distance upon opposite sides of the tongues forming tabs in conjunction therewith, said tongues being folded downwardly and engaging the inner end walls of the box, whereby the same is held against sliding movement with relation to said box.

2,317,041
SCRAPER
Christian Ericksen, Brooklyn, N. Y.
Application January 12, 1942, Serial No. 426,542
4 Claims. (Cl. 30—171)



4. A holder for a scraper blade comprising a pair of elongated body members opposed side by side, means connecting said members together for relative rocking movement to move the ends of the members at one end of the holder toward each other, and a pair of clamping elements on said ends, respectively, for cooperative clamping action under such movement of said ends to grip a blade therebetween, said elements having clamping faces oblique to the longitudinal axis of the holder, one of said elements being a plate, and the other element having a face lip overhanging an edge of the plate.

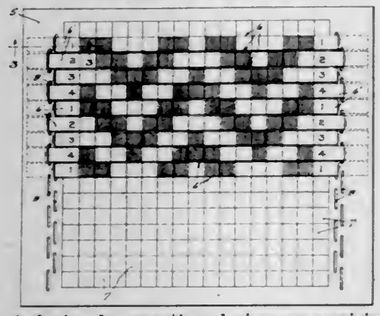
2,317,042
REVOLVABLE TABLE
Avery Evans, Dunnville, Ontario, Canada
Application June 26, 1942, Serial No. 448,614
1 Claim. (Cl. 311—33)



A revolving table comprising a fixed supporting member, a rotating top mounted on said sup-

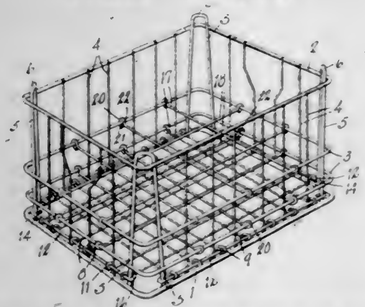
porting member, an annular rack bar secured to the underside of said top, an operating lever hinged at one end to said supporting member to swing in a vertical and horizontal plane with respect to the underside of said top, and a dog carried by said lever adapted to engage said rack bar upon upward movement of said lever whereby said top is rotated upon horizontal movement of the lever.

2,317,043
CREATION OF DESIGN PATTERNS
Lewis E. Eyman, Seattle, Wash.
Application May 31, 1941, Serial No. 396,063
3 Claims. (Cl. 35—26)



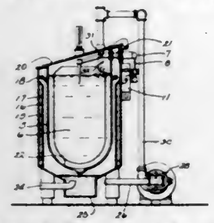
1. A device for creating designs comprising the combination of a mounting board; and a set of parallel-sided strips on each of which are a row of uniform but contrastingly marked squares and which are arranged to be applied, one strip contiguous to another, over the board to have the squares line up in columns both transversely and longitudinally of the board, the set being characterized in that different arrangements are provided as between the contrastingly marked squares of the several strips to permit the portrayal of various block-patterns by the act of changing the sequence in which the different arrangements are applied to the board.

2,317,044
BOTTLE AND LIKE CRATE
Arnold T. Faulkner, Battle Creek, Mich., assignor to United Steel and Wire Company, Battle Creek, Mich., a corporation of Michigan
Application September 20, 1939, Serial No. 295,698
14 Claims. (Cl. 220—19)



1. In a bottle crate, the combination of bottom, top and vertically spaced intermediate frame members, upright side and end members welded to the inner sides of said frame members, including downwardly diverging corner members disposed at the corners of the crate and welded to the inner sides of said frame members, the portions of said corner members below the bottom intermediate frame member being inclined outwardly, a bottom unit fixedly associated with said frame and upright members comprising sets of spaced parallel members disposed in crossed relation and welded together at their crossing points and disposed above and resting upon said bottom frame member, said bottom members extending from the interior of the crate outwardly and terminating in eyes disposed outwardly beyond said upright members, individual retaining rods arranged through said eyes on the outer sides of said upright members and having retaining members at the ends thereof engageable with certain of said upright members, the diverging relation of said corner members acting to prevent upward movement of said retaining rods engaged therewith, and vertically spaced partition units disposed interiorly of the crate, each comprising sets of spaced parallel members disposed in crossed relation and welded together at their crossing points, the ends of said partition members terminating in loops engaged with and closed upon the intermediate frame members, said partition units coacting to provide a plurality of bottle receiving compartments.

2,317,045
APPARATUS FOR PRODUCTION OF ARTIFICIALLY CULTURED BUTTERMILK
Harold S. Fielder, La Grange, Ill., and Latour O. Ott, Los Angeles, Calif., assignors to Cherry-Burrell Corporation, Wilmington, Del., a corporation
Original application December 1, 1937, Serial No. 177,400. Divided and this application February 28, 1940, Serial No. 321,170
4 Claims. (Cl. 99—264)



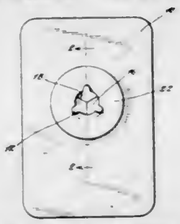
1. A device of the character described comprising a vat having a circulation pipe connected between a discharge point of said vat and a point above the level of a normal batch of contents therein, and a pump for circulating through said pipe the material of the batch, said pump and said pipe being of such capacities as to subject the material being circulated to violent impact upon the discharge of the material from said pipe.

2,317,046
ANCHORING MEANS FOR SANITARY DRINKING CAPS
Paul Nelson Fleming, Hagerstown, Md.
Application March 14, 1941, Serial No. 383,445
1 Claim. (Cl. 215—100)



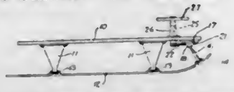
As an article of manufacture, a sanitary drinking cap having an outer flat wall, a flange carried by the outer edge of said wall and adapted to overhang the bead of the neck of a bottle, said wall having a central aperture inset from the outer edge of the cap to provide a wide flat lip-abutment portion entirely surrounding the aperture, an open-sided spout partly surrounding said aperture and protruding outwardly of the flat wall adjacent the edge of the aperture, the open-sided spout defining a vent opening longitudinally of one side of the spout over which the upper lip of a user may extend, the flat-abutment portion adjacent the open side of the spout being also adapted to be engaged by the lip of a user in a valve-like manner to control the flow of liquid out through the spout and into the mouth of the user, an inset annular neck formed around said central aperture upon the opposite face of said flat wall relative to said spout and adapted to fit into the neck of a bottle for anchoring the cap upon the neck of a bottle and for directing the contents of a bottle through said spout.

2,317,047
SHEET FASTENING MEANS
Harley K. Foote, Chicago, Ill., assignor to Foote & Van Wie, Incorporated, Chicago, Ill., a corporation of Illinois
Application September 21, 1942, Serial No. 459,217
11 Claims. (Cl. 24—153)



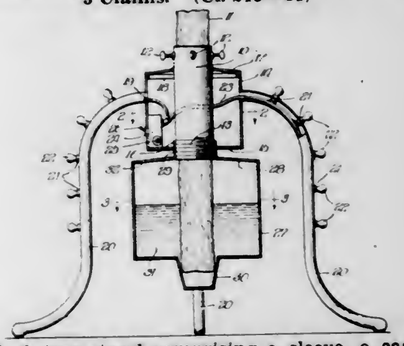
1. A composite sheet assembly comprising a first sheet having a substantially circular opening positioned therein, a second sheet having a plurality of radially spaced, upwardly and outwardly extending tongues integral therewith and formed by channel-shaped slits in said second sheet, score lines in said second sheet extending outwardly from the ends of said slits and meeting at points remote from said tongues, and a plurality of tabs defined by additional slits extending inwardly from said meeting points of the score lines and meeting each other, said tabs being integral with said tongues whereby pressure exerted on said tabs to bend them out of the plane of the second sheet along the score lines serves also to lift the tongues out of the plane of the second sheet in the opposite direction, said tongues registering with said opening and overlying the inner edges of said first sheet adjacent the opening whereby said sheets are secured together and relative rotation of said sheets about the center of said opening is permitted.

2,317,048
SLED
Olaf Fosbak, Bella Coola, British Columbia, Canada
Application December 12, 1940, Serial No. 369,890
6 Claims. (Cl. 280—21)



1. A sled comprising a supporting frame having legs, runners pivotally connected to the legs, the forward end of each runner being curved upwardly and flaring laterally towards the outer end thereof, a stem projecting upwardly and rearwardly from each curved end adjacent its outer end, means pivotally connecting the stems together, and means for moving the connecting means laterally to tilt the runners in unison.

2,317,049
CHRISTMAS TREE STAND
Stephen Ginka, Chicago, Ill.
Application September 21, 1942, Serial No. 459,157
3 Claims. (Cl. 248—44)



2. A tree stand comprising a sleeve, a casing upon said sleeve in a rigid vertically adjustable relation therewith, a plurality of legs in rigid engagement with said casing, and a receptacle carried by the lower end of said sleeve, a tree being adapted to extend through said sleeve into said receptacle for being vertically supported thereby, the lower end of said receptacle being above the lowermost terminations of said legs.

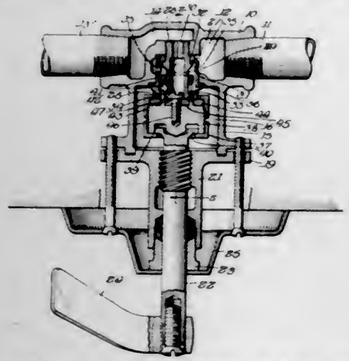
2,317,050
BREAKING PETROLEUM EMULSIONS
Paul M. Goodloe and Henry G. Berger, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application May 3, 1941, Serial No. 391,708
6 Claims. (Cl. 252—333)

1. The process of breaking petroleum emulsions of the water-in-oil type, which comprises treating the emulsion with a water soluble, oil insoluble mahogany sulfonate.

2,317,051
MIXING VALVE CONSTRUCTION
Christopher Groen, Oak Park, Ill., assignor to A. Y. McDonald Mfg. Co., Dubuque, Iowa, a corporation of Iowa
Application December 1, 1941, Serial No. 421,087
2 Claims. (Cl. 277—18)

1. A mixing valve comprising a body having hot and cold water receiving chambers therein and having a discharge chamber, an inner valve seat having a passage longitudinally thereof which connects the hot water receiving chamber and the discharge chamber in said valve body, an outer cylindrical valve seat in concentric arrangement with said inner seat having inlet ports communicating with the said cold water receiving chamber, the said outer valve seat being in spaced relation with said inner seat throughout a substantial portion of its length whereby a water-receiving passage is formed between said seats, the outer valve seat having an internal flange adjacent its free end and the inner valve seat having an external flange therearound on its free end, the said flanges being spaced apart

whereby an annular discharge passage is formed between the two valve seats at the ends thereof, a valve member in the discharge chamber having a cylindrical extension thereon which extends into said discharge orifice between the valve seats at the ends thereof and in sliding engagement with the opposed faces of the valve



seats defining the discharge orifice, the said extension having openings in its side walls, a member on said valve member extending into the longitudinally extending passage in said inner valve member, and means whereby the said valve member is moved into and out of engagement with the said valve seats.
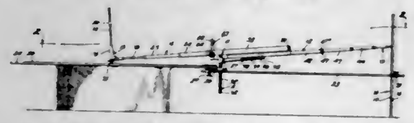
2,317,052

DRAWING INSTRUMENT

Addison Hehr, West Los Angeles, Calif.

Application April 5, 1941, Serial No. 387,001

12 Claims. (Cl. 33—18)



1. A drawing instrument comprising a universal mounting means, a scribing arm extending in one direction from the mounting means, an extensible and contractible tracing arm extending in the other direction from the mounting means comprising telescopically engaged sections of polygonal transverse cross section related for relative longitudinal movement without relative turning movement, the arms being connected for movement on the mounting means, a normally generally vertical tracing stem terminating at its lower end in a tracing point, and a part on the tracing arm shiftable on the tracing stem so that the scribing and tracing arms are pivoted about a vertical axis at the mounting means when the tracing point is moved along the lines of a subject drawing, the non-rotative engagement of said sections assuring pivoting of the arms as a unit during said movement of the point.

2,317,053

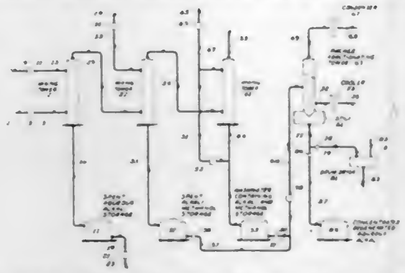
ALKALI TREATMENT OF HYDROCARBON OILS

Lawrence M. Henderson, Winnetka, Ill., assignor to The Pure Oil Company, Chicago, Ill., a corporation of Ohio

Application February 2, 1939, Serial No. 254,142

9 Claims. (Cl. 196—32)

1. A process of treating untreated hydrocarbon oil containing mercaptans boiling above and below the boiling point of methanol which comprises contacting said oil in a primary treating zone with sufficient aqueous alkali solution whereby the removal of substantially all mercaptans the boiling points of which are not substantially above the boiling point of methanol is effected, separating said oil and said alkali solution, then contacting the oil in a second treating zone with substantially anhydrous alkali methanol effecting removal of mercaptans, the boiling points of which are higher than the boiling point of methanol, as mercaptides in the alkali methanol solution, separating said oil from said alkali methanol, recovering the methanol from the spent alkali methanol by fractional distillation thereof and recycling the methanol to the process.



2,317,054

METHOD OF TREATING PETROLEUM OILS

Lawrence M. Henderson, Winnetka, and George W. Ayers, Jr., Chicago, Ill., assignors to The Pure Oil Company, Chicago, Ill., a corporation of Ohio

No Drawing. Application April 6, 1940, Serial No. 328,242

14 Claims. (Cl. 196—30)

1. A step in the process of removing mercaptans from petroleum oils comprising contacting said oils with aqueous alkali metal hydroxide reagent containing reaction products prepared by contacting light petroleum distillates obtained from crude oils containing organic acidic constituents including naphthenic acids, phenols and thiophenols with aqueous sodium hydroxide solution under conditions to react sodium hydroxide with organic acidic constituents present in said distillates, followed by steam stripping the aqueous sodium hydroxide solution of hydrolyzable constituents and concentrating the stripped solution to a content of not less than approximately 15% of reaction products.

2,317,055

METHOD FOR REMOVING ORGANIC ACIDIC SUBSTANCES FROM HYDROCARBON FLUIDS

Lawrence M. Henderson, Winnetka, George W. Ayers, Jr., Chicago, and Donald C. Bond, Northbrook, Ill., assignors to The Pure Oil Company, Chicago, Ill., a corporation of Ohio

No Drawing. Application December 30, 1940, Serial No. 372,354

15 Claims. (Cl. 196—30)

1. In a method for removing organic acidic substances from hydrocarbon fluids, the step which comprises contacting said fluids with aqueous solution containing free alkali in an amount effective to remove acidic substances from said fluids, rosin in the form of its reaction product with alkali metal hydroxide and in sufficient amount to enhance the ability of the solution to extract said acidic substances from said fluids, and a solventizer for the rosin reaction product.

2,317,056

METHOD FOR REMOVING ACIDIC CONSTITUENTS FROM ORGANIC LIQUIDS

Lawrence M. Henderson, Winnetka, and Donald C. Bond, Northbrook, Ill., assignors to The Pure Oil Company, Chicago, Ill., a corporation of Ohio

No Drawing. Application September 2, 1941, Serial No. 409,272

10 Claims. (Cl. 196—30)

1. The method of removing weakly acidic substances from an organic liquid which comprises contacting said liquid with an aqueous solution containing alkali metal hydroxide and the reaction product of alkali and yacca gum.

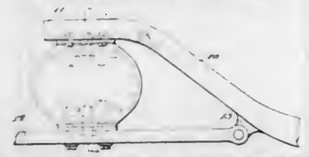
2,317,057

PNEUMATIC SPRING

Tracy A. Higby, Boise, Idaho

Application August 30, 1941, Serial No. 409,072

3 Claims. (Cl. 267—65)



1. A pneumatic spring, comprising two spaced movable plates, a pneumatic casing between the plates with oppositely disposed openings closed by said plates, cups for clamping the pneumatic casing to the plates, resilient bumper elements within the cups and extending into the pneumatic casing, and means passing through the plates, cups and resilient bumper elements for drawing the bumper elements tightly within the cups for clamping the pneumatic casing to the plates.

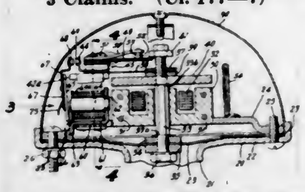
2,317,058

HORN MOTOR AND RELAY UNIT

Robert H. Hill, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application April 30, 1940, Serial No. 332,592

3 Claims. (Cl. 177—7)



1. A horn-motor and relay unit comprising a horn base, an electromagnet carried by the base, a U-shaped frame mounted on the base, a stack of parts mounted upon the yoke of said frame, said stack including a circuit breaker to be actuated by said electromagnet, terminal plates, insulators and a bracket carrying additional contact, a relay core and coil disposed between the sides of the frame and under the yoke, a core frame supporting the core and mounted on the horn base, and a relay armature supported by the core frame and carrying a contact for engaging the said additional contact.

2,317,059

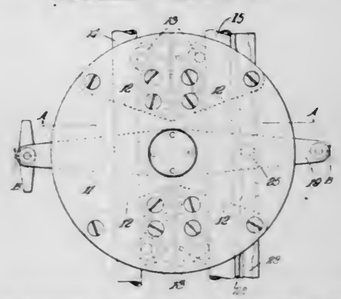
SIGHTING APPARATUS FOR USE ON AIRCRAFT AND FOR LIKE PURPOSES

Louis Massey Hilton, Stanmore, and John Hetherington, West Ealing, London, England, assignors to The Fairey Aviation Company Limited, Hayes, Middlesex, England

Application March 28, 1940, Serial No. 326,538

In Great Britain May 24, 1938

6 Claims. (Cl. 33—46)



1. A sighting apparatus for aircraft and the like comprising a support, a first sighting device, a second sighting device, means mounting said first and second sighting devices for angular sighting movement relative to said support and to each other, and means coupling said sighting devices and said support whereby predetermined angular sighting movement of one of said devices relative to said support produces proportional predetermined angular movement of the other of said devices relative to said one device, the first of said devices comprising a sight for normal movement of a target, the second of said devices comprising a sight for avoidance movements of a target.

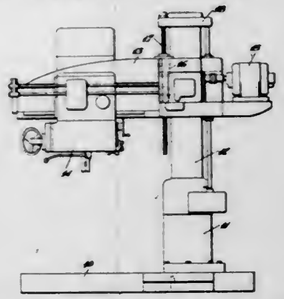
2,317,060

SAFETY DEVICE FOR RADIAL DRILL ARM ELEVATING SCREWS

William G. Hoelscher, Cincinnati, Ohio, assignor to The American Tool Works Company, Cincinnati, Ohio, a corporation of Ohio

Application April 29, 1942, Serial No. 440,954

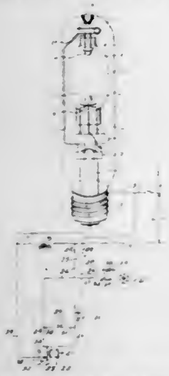
8 Claims. (Cl. 77—28)



1. A mounting for the elevating screw of a radial drill including the elevating screw and the cap mounted on the top of the column of the drill, said mounting comprising a pair of clutch elements consisting of collars, one mounted on the cap and traversed by the screw and the other fixed to the upper end of the screw, said collars including cooperating clutch teeth, the upper end of the elevating screw being plain where it traverses the cap, a lateral thrust ball bearing fixed in the cap about said screw and a sleeve fixed to

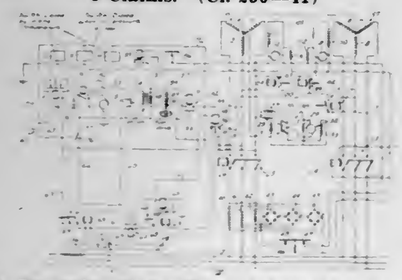
the screw and slidably traversing the inner race of the bearing, said screw having clearance within the bore of the cap.

2,317,061
ELECTRIC LAMP
George E. Inman, East Cleveland, Ohio, and Wayne C. Smitley, Jackson, Miss., assignors to General Electric Company, a corporation of New York
Application January 10, 1941, Serial No. 373,974
2 Claims. (Cl. 176—122)



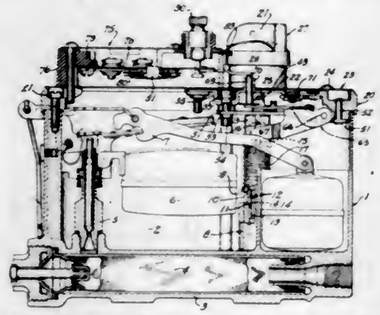
1. In combination, a flood-flash lamp comprising a sealed envelope containing a pair of operating electrodes and a gaseous filling comprising a metallic vapor and a gas capable of emitting radiation in a spectral range complementary to that of said vapor, said gas having a higher excitation potential than said vapor, means for supplying electrical energy to said lamp in sufficient amount to maintain a normal discharge therein, the pressure of said vapor being sufficiently high that it carries substantially all the discharge current and the radiation emitted by the lamp is characteristic of the said vapor alone, and means for temporarily supplying to said lamp, while it is operating normally an abnormally high surge of electrical energy many times the amount normally supplied so that the electron energies are raised to a value sufficiently high to simultaneously excite both the vapor and the gas which emit a flash of blended radiation.

2,317,062
ALTERNATOR CONTROL SYSTEM
Fred Jervis, Los Angeles, Calif., assignor, by mesne assignments, to Bardco Manufacturing & Sales Company, Dayton, Ohio, a corporation of California
Original application May 3, 1941, Serial No. 391,741. Divided and this application July 3, 1942, Serial No. 449,583
5 Claims. (Cl. 290—41)



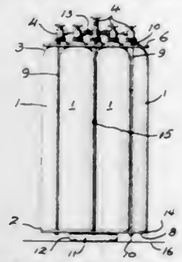
4. In conjunction with an internal combustion engine, the combination of: an electric switch adapted to be closed by the presence of a predetermined condition dangerous to the continued operation of said engine; a normally closed relay switch having its operating coil connected to said electric switch; and electromagnetic means connected to said relay and permitting the operation of said engine when energized.

2,317,063
CONVERSION OIL CONTROL DEVICE
Roy W. Johnson, Milwaukee, Wis.
Application April 4, 1940, Serial No. 327,789
8 Claims. (Cl. 137—21)



1. An oil control device of the character described comprising a casing having a liquid supply chamber provided with an outlet, a metering valve for regulating flow through said outlet, means for biasing said metering valve toward open position with a predetermined force, a manually operable control knob axially and rotatively mounted on the casing in operative relationship to the valve, a rotary cam fixed to said knob, a spring interposed between said casing and said cam and urging said cam and knob toward said valve with a force greater than said predetermined force, an abutment for said cam, a supporting arm for said abutment mounted within the casing, and a valve operator connected to the knob and abutting with the valve to move said valve toward closed position as said knob and cam are moved axially upon being rotated.

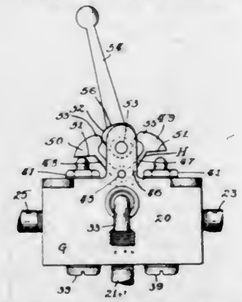
2,317,064
TANK TRUCK
William Josephian, Oakland, Calif.
Application January 14, 1942, Serial No. 426,725
7 Claims. (Cl. 280—1)



2. A truck for handling a plurality of cylindrical tanks comprising a base plate, means for holding a plurality of cylindrical tanks in fixed upright position on the top of said plate, and a basal member fastened to the bottom of said plate and having a circular periphery centrally located with respect to the periphery of said

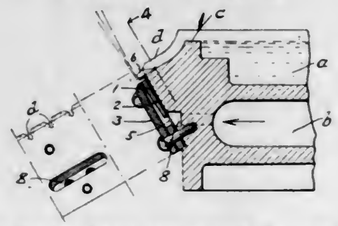
plate to support said truck in upright stable position, said truck having a second stable position when tilted to rest on both of said peripheries only.

2,317,065
VALVE
Edward S. Kaelin, Los Angeles, Calif., assignor to Frederick C. Kingston, Los Angeles, Calif.
Application July 24, 1940, Serial No. 347,159
1 Claim. (Cl. 277—20)



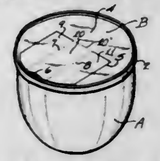
In a valve actuating assembly having a body and pairs of normally depressible valve actuating elements, a rocker yoke tiltingly journaled on said body between its ends and having a pair of upwardly and outwardly extending arms each having a head on its outer end, each head having an inwardly protruding cam bearing shoulder face and being broadened laterally sufficiently to provide a lower face of sufficient area to depress a pair of said valve actuating elements, a unitary double cam having a pair of opposed cam surfaces connected by a gradually curved locking surface, said cam being tiltingly poised on said body below and between said heads to condense the structure to within limited space and with its opposed cam surfaces and locking surface juxtaposed and cooperating with said cam bearing shoulder faces of the rocker yoke to tilt the rocker yoke and cause the depression of either one or the other of said pairs of valve actuating elements when the cam is tilted on said body, each of said opposed cam surfaces and said locking surface being so shaped that toward the extreme movement in either tilting direction of the yoke said yoke is locked against unintentional return movement, and means for tilting said double cam on its bearing to cause the functioning of the rocker yoke.

2,317,066
SPRAYING MACHINE
John O. Kahl, Philadelphia, Pa., assignor to Acme Gear & Machine Company, Philadelphia, Pa., a corporation of Pennsylvania
Application October 17, 1940, Serial No. 361,488
2 Claims. (Cl. 299—86)



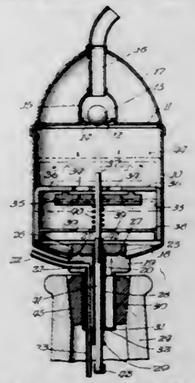
1. A spray device comprising, in combination, three plates arranged face-to-face and of which the center one is provided with facial channels opening through its edge and openings through the plate communicating with the other end portions of the channels, and of which one side plate is imperforate, and of which the other side plate extends above the first two plates and is provided inside of its margin with gutters extending into line with and spaced from the outlets of the channels, and means for supplying fluid to the gutters and air to the channels.

2,317,067
CONTAINER
Henry E. Knaust, St. Louis, Mo., assignor to Vita Sales Corporation, St. Louis, Mo., a corporation of Missouri
Application October 2, 1939, Serial No. 297,529
3 Claims. (Cl. 229—1.5)



1. A container-lid comprising a body-member shaped and contoured to closurewise fit a particular container, a tab hingedly joined at an end to the body-member for folding, and flaps hingedly joined to the tab along its opposite side margins for folding, the tab and said flaps being normally disposed flatwise with respect to the body-member and abnormally foldable to extend at right-angles to the body-member, the flaps being, when the tab is in such latter position, foldable to extend in approximate parallel relation one with the other and to engage at their inner end with the body-member.

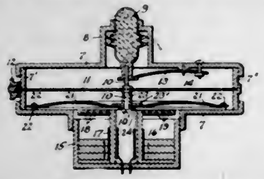
2,317,068
LIQUID MEASURING DEVICE
Vincent S. Kucki, Chicago, Ill.
Substituted for abandoned application Serial No. 266,973, April 10, 1939. This application June 24, 1941, Serial No. 399,519
12 Claims. (Cl. 221—98)



1. In a liquid measuring device for combination with a liquid supply container, a casing having means whereby it may be attached to the container, said casing having a liquid supply inlet and a discharge outlet, valve means for controlling said outlet, means for controlling said inlet, a freely movable piston in said casing, there

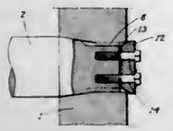
being an opening through said piston whereby liquid on one side thereof will pass to the other side, and a valve device for controlling the opening in the piston, the last said valve device being movable with the piston when the latter is moved in one direction to close and maintain the opening in the piston closed, and movable independently of the piston in the same direction with and in advance of the piston when the piston is moving in the opposite direction, whereby to permit liquid to flow through the opening in the piston to the other side thereof.

2,317,069
TONE EQUALIZING MECHANISM
Charles R. La Mar, Long Beach, Calif.
Application August 27, 1941, Serial No. 408,462
5 Claims. (Cl. 181—31)



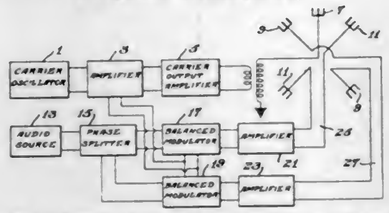
1. In a sound reproducing mechanism of the character referred to, a body having a chamber therein, a diaphragm element supported across said chamber at opposite sides thereof and adapted to be vibrated in its middle area, a second diaphragm connected in its middle to the middle of said first diaphragm element at a space therefrom to vibrate therewith, said second diaphragm having its outer edge resting on a part of said body but free to move in one direction relative to its middle area under increased volume, whereby said auxiliary diaphragm functions to cushion or reduce excessive vibrations transmitted to said first diaphragm.

2,317,070
SHAFT AND HUB CONNECTION
Robert G. Le Tourneau, Peoria, Ill., assignor to R. G. Le Tourneau, Inc., a corporation
Application December 23, 1941, Serial No. 424,145
1 Claim. (Cl. 287—53)



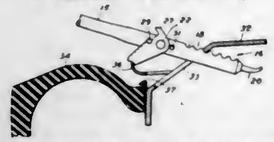
In a shaft and hub connection, the hub having a bore, said bore having a single straight portion and intermediate its ends, the bore at opposite ends of said straight portion increasing in diameter toward the corresponding ends of the hub as conical tapers, one end of the shaft projecting into said bore from one end and being formed with an integral taper and a straight portion no longer than the straight portion of the bore matchingly engaging the adjacent bore taper and said straight portion of the bore respectively, complementary straight splines and grooves cut in the straight portions of the hub and shaft, an initially separate taper head seated in the other end of the bore in matching engagement with the other bore taper, and means removably connecting said head and the adjacent end of the shaft in tensioned and rigid relation.

2,317,071
ANTENNA CIRCUIT MODULATION SYSTEM
David G. C. Luck, Merchantville, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Original application December 30, 1938, Serial No. 248,567. Divided and this application January 31, 1942, Serial No. 429,004
4 Claims. (Cl. 250—17)



1. An antenna modulation system including in combination means for creating a rotating carrier frequency field, a source of modulation currents of the character required for the simultaneous transmission of a band of frequencies, means for deriving a current of single side band frequencies from said source, and means for establishing an omnidirectional field including said single side band frequencies.

2,317,072
TIRE TOOL
Claude W. Martin, Gold Hill, Oreg.
Application April 18, 1941, Serial No. 389,149
5 Claims. (Cl. 157—6)

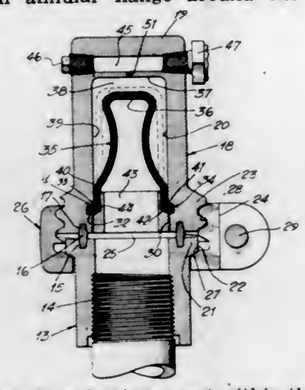


1. In a tire changing tool of the character described, a bar, a fulcrum arm near an end of the bar, a removable prying point in said end of the bar, a side of the bar having spaced notches between said end of the bar and said fulcrumed arm for engagement with the disc of a tire wheel for exerting a turning moment on the end of the fulcrum arm, and adjustable means to hold said fulcrum arm at an acute angle with respect to the bar end in the direction toward the exertion of pressure by the fulcrum and on the side of the bar opposite from said notches.

2,317,073
HIGH PRESSURE DIAPHRAGM UNIT FOR FLUID PRESSURE GAUGES
Walter R. Martin, Long Beach, Calif., assignor to Martin-Decker Corporation, Long Beach, Calif., a corporation of Delaware
Application September 10, 1941, Serial No. 410,277
4 Claims. (Cl. 137—156)

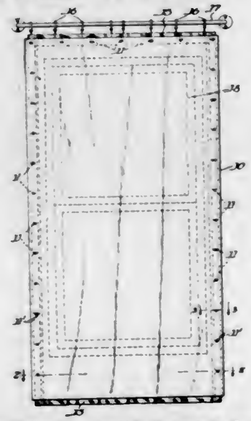
1. A high pressure diaphragm unit of the class described, comprising a lower tubular section, a cylindrical dome disposed thereabove, said dome having a cylindrical recess within it in longitudinal alignment and direct communication with the upper end of the lower tubular section, a partition wall across the upper end of the dome and forming a space thereabove having a passageway leading from the recess in the upper end of the dome through the partition and into said space, a discharge conduit connected with said space, means detachably connecting the dome to the

tubular member and sealing the same, a deformable pressure cup having a closed upper end and a cylindrical side wall, the lower end of the cup having an annular flange around the mouth



thereof, the dome having a seat within the recess to receive said flange, and a retaining ring threaded into the mouth of the recess to clamp the flange of the cup in sealed relation to the wall of the dome.

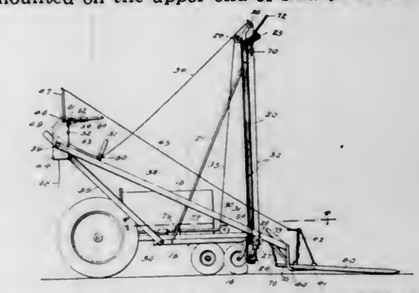
2,317,074
BLACKOUT
Lucia G. Mida, Chicago, Ill.
Application February 21, 1942, Serial No. 431,779
5 Claims. (Cl. 160—124)



1. The combination with drapery for a window, of an opaque member separably securable to and entirely supported by said drapery and at least as large as the window opening.

2,317,075
LOAD LIFTING AND DUMPING MACHINE
Eldo McFarland, Sterling, Kans.
Application March 31, 1942, Serial No. 437,064
5 Claims. (Cl. 214—139)

1. In a machine of the class described, a supporting frame, a vertical track rising from and rigidly secured to said frame, said track having a forwardly directed upper end, a boom guide engaged with said track to first move upwardly thereon and to then move forwardly entirely from said forwardly directed track end, a boom connected near its front end with said boom guide, means on said frame movably supporting the rear end of said boom, a normally lowered carriage slidable vertically on said track and having a boom support upon which said boom rests, actuating means operatively connected with said carriage for raising it to lift said boom, and operatively connected with said boom for forwardly sliding this boom upon said boom support when said carriage is fully raised, a latch mounted on the upper end of said track and en-

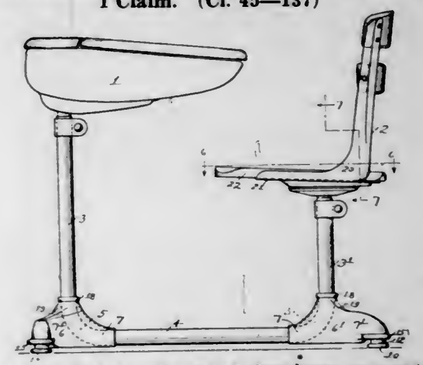


gageable with said carriage to support the latter against accidental descent when said boom guide leaves said forwardly directed track end during forward sliding of said boom, said latch having a releasing member movable rearwardly to release said latch, and a trip on said boom to strike and actuate said latch releasing member when said boom guide again engages said forwardly directed track end upon rearward return of said boom.

2,317,076
ACID RESISTANT CONTAINER
John Jay Mick, Needham, and Ralph Edwin McCurdy, Wellesley, Mass., assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application August 2, 1940, Serial No. 350,066
2 Claims. (Cl. 206—2)

1. In an asphaltic composition battery box structure normally subject to attack by battery acids contained therein, an acid-resistant surface coating tenaciously affixed thereon and comprising a homogenous mixture comprising a copolymer of vinyl acetate and vinyl chloride together with polymerized coumarone.

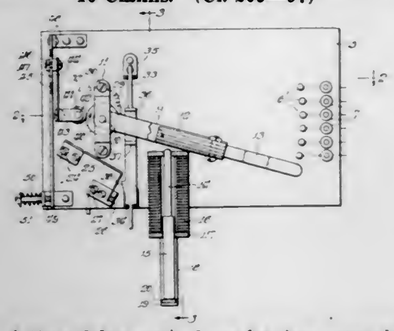
2,317,077
FURNITURE SUPPORT
Erving B. Morgan, Grand Rapids, Mich., assignor to American Seating Company, Grand Rapids, Mich., a corporation of New Jersey
Application July 21, 1941. Serial No. 403,310
1 Claim. (Cl. 45—137)



A foot for an elongated furniture support of

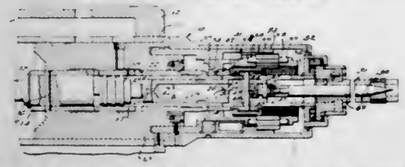
the class described which has a vertical upper portion, a horizontal lower portion and a portion intermediate said portions, said foot being rigidly secured on the support and consisting of a metallic sheet bent to form a plurality of cross-sectionally arched horizontally diverging branches one of the branches being secured to said horizontal portion and the other branches being bent inwardly adjacent their lower edges to form sockets, and downwardly extending toe pieces securely held in the sockets.

2,317,078
TIME DELAY MECHANISM
Thomas J. Mudon, Chicago, Ill., assignor to Safe Delay Switch Corporation, Chicago, Ill., a corporation of Illinois
Application May 12, 1941, Serial No. 393,098
10 Claims. (Cl. 200—97)



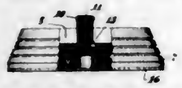
1. A time delay control mechanism comprising an actuating arm, a horizontal pivotal support for said arm, a contact carried by said arm, a series of contacts arranged in the path of said first named contact to be engaged thereby as the arm moves about its pivot in a substantially vertical plane, a solenoid for lifting said arm upward past said contacts, and a creeping element and track element in engagement with each other, one element being fixed to the arm, and means supporting the other element in pressure engagement with the first named element whereby the drop of said arm is delayed and governed by the rate at which the creeping element moves on the track element.

2,317,079
HONING MACHINE
Douglas T. Peden, Ann Arbor, Mich., assignor to Micromatic Hone Corporation, Detroit, Mich., a corporation of Michigan
Application April 7, 1941, Serial No. 387,157
4 Claims. (Cl. 51—184.3)



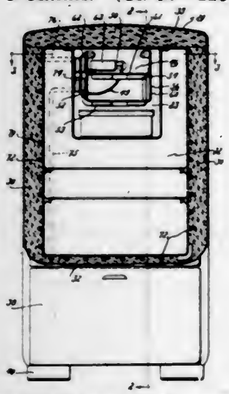
3. In a honing device, a tool having a plurality of honing stones, mechanism for expanding and contracting said stones, a piston for moving said mechanism for also expanding and contracting said stones, and means operated by said piston for locking said piston against movement by said mechanism when the latter is operated to expand and contract said stones.

2,317,080
CUSHION SUPPORT FOR FURNITURE
Harry Phillips, Greenwich, Conn.
Application May 8, 1941, Serial No. 392,500
2 Claims. (Cl. 45—137)



1. A cushion support for furniture, comprising a pad of resilient material cupped to receive a furniture leg and having a downwardly tapering seat and a tapered pin of resilient material wider at the top than at the bottom and entered in said downwardly tapering seat.

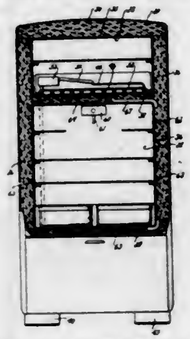
2,317,081
REFRIGERATING APPARATUS
Lawrence A. Philipp, Detroit, Mich., assignor to Nash-Kelvinator Corporation, Detroit, Mich., a corporation of Maryland
Application November 25, 1940, Serial No. 366,990
5 Claims. (Cl. 62—116)



1. Refrigerating apparatus comprising a cabinet having an inner liner forming a food compartment, a secondary refrigerant evaporator surrounding a major portion of said liner for the absorption of heat through walls thereof, a casing within the food compartment to provide a freezing zone, a primary refrigerating system including a freezing portion within said freezing zone and including a condensing portion associated therewith, and a secondary condenser associated with said primary system for condensing evaporated refrigerant in the secondary evaporator in such a manner that the secondary evaporator operates at a temperature for cooling the air in the food storage compartment to the desired temperature with little if any moisture forming on the inner walls of said liner and said freezing portion being arranged and operated to cool the exterior walls of said casing somewhat below the temperature of the liner walls so that moisture forms chiefly if not entirely on the exterior walls of said casing.

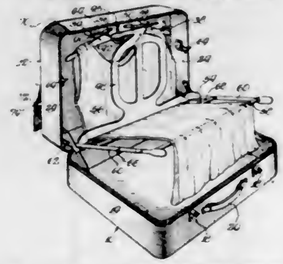
2,317,082
REFRIGERATING APPARATUS
Lawrence A. Philipp, Detroit, Mich., assignor to Nash-Kelvinator Corporation, Detroit, Mich., a corporation of Maryland
Application December 6, 1940, Serial No. 368,845
1 Claim. (Cl. 62—116)

Refrigerating apparatus comprising an insulated cabinet having two sheet metal liners arranged to provide two compartments for the storage of food, a secondary refrigerant coiled evaporator secured to the exterior of one of said liners, a secondary refrigerant coiled condenser arranged on a single plane and secured to the exterior of the second liner, a primary refrigerant



coiled evaporator arranged on a single plane in contact with the interior of said second liner directly opposite said secondary condenser and a sheet metal plate arranged to provide a support for objects to be frozen and to removably secure said primary refrigerant evaporator to said second liner.

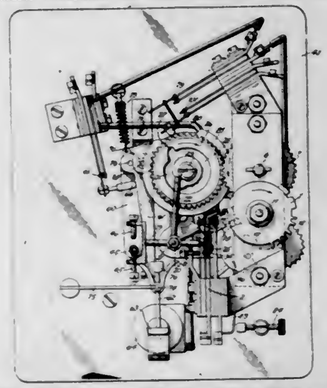
2,317,083
LUGGAGE CONSTRUCTION
Joseph H. Plotkin, Chicago, Ill., assignor to Oshkosh Trunks and Luggage, Oshkosh, Wis., a corporation of Wisconsin
Application April 28, 1941, Serial No. 390,806
5 Claims. (Cl. 190—41)



5. In a luggage case having garment hangers supported therein, a follower panel therein extending substantially from top to bottom thereof, said follower panel having at its lower end a breaker strip portion extending substantially the full width of the case, about which garments carried on the hangers are folded in packing, a pair of arms pivoted at the sides of said case, and a rod carried by said arms and swingable thereon into the upper portion of the case, said rod being adapted to have portions of garments which extend beyond said breaker strip portion folded over it.

2,317,084
SIGNAL SYSTEM
Charles E. Potter, Richmond Heights, and James W. Kendall, St. Louis, Mo.; said Kendall assignor to said Potter
Application June 6, 1941, Serial No. 396,802
12 Claims. (Cl. 177—382)

1. In a signal device having a transmitter and an actuator for said transmitter, the combination comprising a member movable in response to conditions to be supervised, an electric circuit, an electromagnet in said circuit, a thermostatic switch in said circuit, an electric heating element in the circuit and positioned to heat said thermostatic switch, an armature for the electromagnet, a control switch for the circuit, and means connected to said movable member and blocked by said armature under the influence of the electromagnet for first closing the switch and then upon operation of the thermostatic switch and release of the armature by the electromagnet to move said actuator, arranged whereby upon initial movement of said member in response to conditions to be supervised said means will first operate the control switch to close the circuit and energize the electromagnet thereby holding its armature to block said means until the thermostatic switch under influence of the electric heating element in said circuit opens the circuit causing release of the armature and permitting further operation of said means to move said actuator for the transmitter.



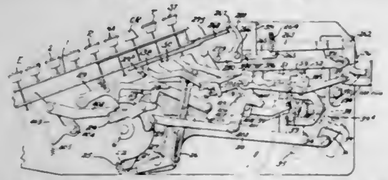
2,317,085
HOLDER ATTACHMENT FOR DRIVING TOOLS
Earl Raby, Kansas City, Mo.
Application April 25, 1941, Serial No. 390,269
2 Claims. (Cl. 145—52)



1. In a tool of the character described, a shank provided with a groove; a coil spring circumscribing the shank and slidable longitudinally thereabout, the coil at one end of the spring comprising a detent engageable in said groove to limit outward movement of the spring; and a holder movable with the spring, said groove being formed to present a shoulder having the face substan-

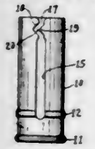
tially perpendicular to the face of the shank and an inclined shoulder whereby to stop the movement of the spring along the shaft in one direction and allow its movement along the shaft in the opposite direction upon application of relatively slight pressure, said holder having a loop therein circumscribing the shank at the other end of the coil spring, said spring having bearings adjacent each end thereof slidably engaging the holder.

2,317,086
CALCULATING MACHINE
Ernest Racz, Detroit, Mich., assignor to Burroughs Adding Machine Company, Detroit, Mich., a corporation of Michigan
Application April 22, 1939, Serial No. 269,386
7 Claims. (Cl. 235—60)



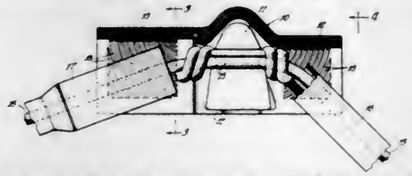
1. A machine of the class specified, having a motor operated driving means, drive control means for causing said motor operated driving means to drive said machine through cycles of operation, differential actuator means, a registering mechanism cooperable with said differential actuator means for entry of amounts into and withdrawal of totals from said registering mechanism, total-taking control means to cause said registering mechanism to control said differential actuator means in total-taking cycles of operation of said machine, addition-subtraction control means to condition said registering mechanism for operations of either positive or negative algebraic character, means controlled by said registering mechanism in accordance with the algebraic character of the total contained therein to enable said total-taking control means when conditioned for total taking with a total of one algebraic sign in said registering mechanism to condition said motor operated drive means to give said machine a cycle of operation but to disable said total-taking control means from conditioning said motor operated means while said registering mechanism contains a total of the opposite algebraic sign, and manually operable means for conditioning said addition-subtraction control means for an operation of said opposite algebraic character and conditioning said motor operated driving means to give said machine a cycle of operation to take the total of said opposite algebraic character from said registering mechanism.

2,317,087
COSMETIC CONTAINER
Frederick R. Reutter, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut
Application July 31, 1940, Serial No. 348,663
9 Claims. (Cl. 206—56)



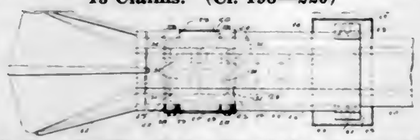
1. In a cosmetic container, the combination of a container body having a longitudinal slot and an open end, a carrier movable to and fro in said body, an operating member on the cup extending through said slot, and means disposed crosswise of said slot and forming one edge of an angular V shaped slot conjoined with said longitudinal slot, the apex of said V shaped slot adapted to receive said operating member and retain said carrier cup in a set position within said body.

2,317,088
COUPLING FOR LINEMEN'S PROTECTIVE DEVICES
George F. Salisbury, Kenilworth, Ill., assignor to W. H. Salisbury & Co., Chicago, Ill., a corporation of Illinois
Application September 25, 1941, Serial No. 412,245
3 Claims. (Cl. 174—5)



1. A coupling for linemen's protective devices comprising a tubular length of resilient material associated with one of said devices and adapted to receive a tubular end of another of said devices, said length being slit along one side, spaced ribs of resilient material on the inside of said length, said ribs extending on curves across the sides of the length whereby to present surfaces substantially at right angles to the axis of the received end of said second device regardless of the acute angle between the said two devices, said ribs being compressible on said received end to resist separation of the devices.

2,317,089
FEEDING MECHANISM FOR SHAKER CONVEYERS
Charles J. Schafer, Denver, Colo., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application September 19, 1941, Serial No. 411,545
13 Claims. (Cl. 198—220)

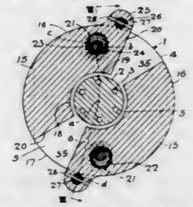


1. In a feeding device for shaker conveyers, a reciprocating trough section, an extensible trough section, and means for moving said extensible trough section relative to said reciprocating trough section including an electric magnet adapted to be selectively energized during certain strokes of the conveyer to attract and cause movement of said extensible trough section with respect to said reciprocating trough section.

2,317,090
TORSIONAL VIBRATION DAMPER
Paul S. Vaughan, Auburn, N. Y., assignor to American Locomotive Company, New York, N. Y., a corporation of New York
Application December 11, 1941, Serial No. 422,493
7 Claims. (Cl. 74—574)

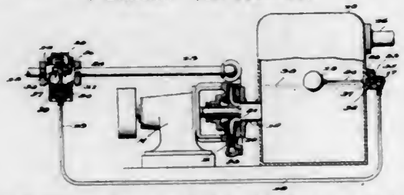
1. A device for reducing torsional vibrations

in a rotating shaft comprising a member adapted to be carried by said shaft for rotation therewith, with its axis of rotation in line with the axis of said shaft, said member having a curved portion of fixed radius from its said axis; a lever-like member serving as a weight associated with said carried member to rotate therewith; an element carried by said lever-like member in engagement with said curved portion for movement therealong, said engagement providing a fulcrum for said lever-like member for limited



rotation thereabout, each of said members being provided with a curved surface of variable distance from said axis of rotation and having its center line parallel to said axis of rotation, said curved surfaces being curved in directions opposite to each other and disposed to provide a space therebetween; and a roller disposed in said space and engaging said curved surfaces, said roller being of a sharper curvature than said curved surfaces, said roller and fulcrum being located on the same side of and spaced from the center of gravity of said lever-like member.

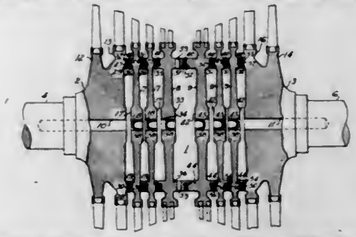
2,317,091
PUMP CONTROLLING MECHANISM
Harold E. Adams, South Norwalk, Conn., assignor to Nash Engineering Company, South Norwalk, Conn., a corporation of Connecticut
Application August 2, 1940, Serial No. 349,956
7 Claims. (Cl. 103—97)



3. In pumping mechanism of the type having a pump, a source of liquid supply, and means for admitting liquid from the said source to the pump, discharge means for the pump including a pressure controlled throttle valve, the improvement which comprises a controlled by-pass connecting the pressure control chamber of the throttle valve to said discharge means and to said source of liquid supply and liquid level controlled means associated with the source of liquid supply and controlling the flow of pumped liquid through said by-pass to cause variation in the unbalance of the pump differential pressure on the pressure controlled throttle valve to control the discharge means in accordance with variations in the level of the liquid in the source of supply.

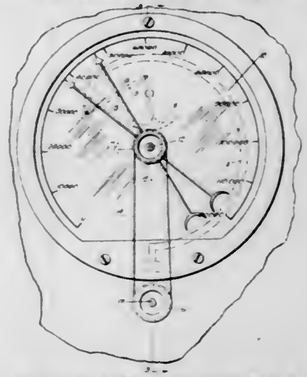
2,317,092
WELDED SPINDLE CONSTRUCTION
Robert C. Allen, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application August 2, 1941, Serial No. 405,137
9 Claims. (Cl. 253—39)

1. A builtup turbine rotor comprising two rotor forming members, said members having opposed portions provided with laterally extending projections concentrically disposed with respect to the axis of the rotor, said projections presenting opposed irregular surfaces including abutting positioning surfaces and axially spaced side surfaces surrounding and forming with an



exposed portion of one of said positioning surfaces a circumferentially extending concentric groove having a laterally enlarged inner portion, a chill ring disposed in and substantially filling the laterally enlarged inner portion of said groove, and weld metal deposited in and substantially filling the remaining outer portion of said groove.

2,317,093
MATERIALS TESTING EQUIPMENT
Robert F. Blanks, Denver, Colo., assignor, by mesne assignments, to Baldwin Locomotive Works, a corporation of Pennsylvania
Application October 11, 1932, Serial No. 637,298
8 Claims. (Cl. 265—12)

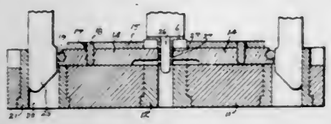


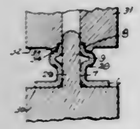
1. An apparatus for determining a predetermined rate of load change applied to a test specimen in a materials testing machine comprising, in combination, a plurality of indicating members adapted to have similar paths of movement in relatively close relation for purposes of common visible comparison, means for driving one of said indicating members at a predetermined rate of speed, and means whereby the other member is adapted to be driven in response to the test load, whereby the relative positions of said members may be used to determine the rate of applying load to the specimen.

2,317,094
METHOD OF MANUFACTURING LOCK NUTS
Raymond O. Chaffee, Belmont, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application October 17, 1941, Serial No. 415,392
4 Claims. (Cl. 10—86)

1. The method of manufacturing a lock nut

having a threaded body portion, a threaded end portion and resilient folded portions therebetween which comprises taking a blank having a body portion, an end portion and a pair of opposed connecting elements joining said portions,





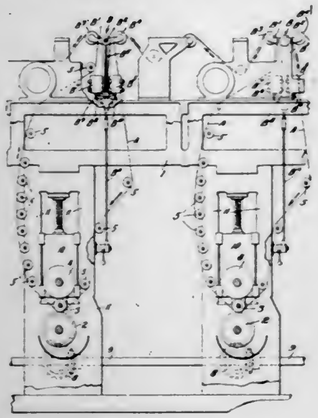
forming a pair of spaced indentations in the metal of each of said connecting elements so as to stiffen said respective elements at said indentations, and compressing the blank axially causing each of said connecting elements to bow outwardly at a point intermediate said indentations.

2,317,095

METHOD AND MEANS FOR MAINTAINING REGISTER IN MULTIUNIT PRESSES

Curtis S. Crafts, Oak Park, and Christoper V. Knell, Glen Ellyn, Ill., assignors to News Syndicate Co., Inc., New York, N. Y., a corporation of New York

Application December 27, 1940, Serial No. 372,020
7 Claims. (Cl. 101—152)



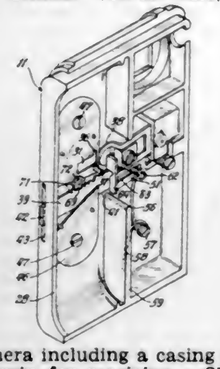
1. A method of maintaining register in a multi-unit, rotary, web printing press in which a web-moving means is associated with each unit, which consists in utilizing inequalities in the tensions of the reaches of the web at the intake and discharge sides of a unit to cause a gradual change in the peripheral speed of the web-moving means of the unit to restore said tensions to equality, and in maintaining the peripheral speed of the web-moving means at the value which it had on the restoration of equality for so long as such equality continues.

2,317,096

MOTION PICTURE CAMERA

Henry S. Dunn, Chicago, Ill., assignor to Candid Camera Corporation of America, Chicago, Ill., a corporation of Illinois

Application July 16, 1941, Serial No. 402,587
7 Claims. (Cl. 88—18.4)



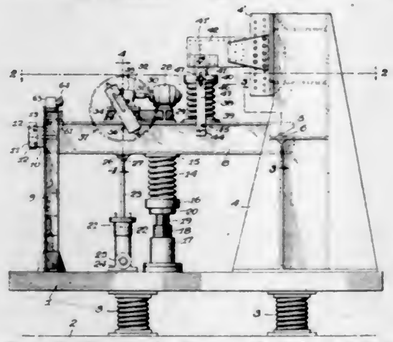
1. In a camera including a casing with a compartment therein for receiving a film magazine having a shutter movable over an exposure aperture, and means for advancing the film in said magazine including a claw member for entering said magazine through said aperture, the combination with a movable cover for said compartment of a control means for said shutter and claw member including a spring-pressed plunger engageable with said cover, a movable arm having one end thereof operatively engageable with said claw member, and engageable with said plunger at the opposite end thereof, means retaining said claw member and movable arm under tension, means connecting said plunger and shutter, said cover on movement to a closed position engaging and moving said plunger to open said shutter and move said arm against the tension thereon to permit movement of said claw member into said aperture, and means for locking said cover in a closed position, with said cover on being unlocked being automatically opened by said plunger which moves to close said shutter and permit the one end of said arm to retract said claw member from said aperture.

2,317,097

FATIGUE-TESTING MACHINE

Rupen Eksergian, Lansdowne, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania

Application August 3, 1940, Serial No. 350,854
12 Claims. (Cl. 73—51)



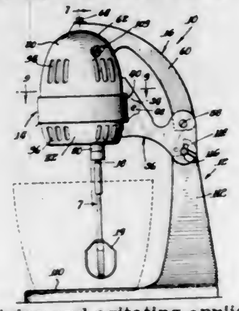
1. In a device for testing materials, a substantially rigid base, a stationary securing means for attachment to a point of a specimen to be tested, said means being rigidly supported by said base, a substantially rigid member pivotally supported by said base, means for imparting oscillatory motion to said member about its pivot, and a means in the nature of a spring being carried by said member and being adapted for attachment to another point of the specimen.

2,317,098

MOTOR

James J. Gough, Chicago, Ill., assignor to Chicago Electric Manufacturing Company, Chicago, Ill., a corporation of Illinois

Application July 29, 1940, Serial No. 348,268
13 Claims. (Cl. 172—36)



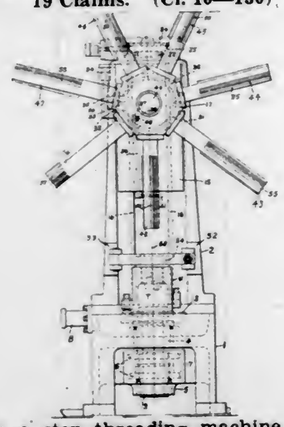
1. In a mixing and agitating appliance, a driving unit comprising a motor, a pair of opposed shells embracing the motor, a clamping band operatively engaging said shells for holding the shells in operative position about the motor, and opposed brackets interengaged with said shells and holding extremities of said clamping band in operatively tensioned position about the shells.

2,317,099

STEP THREADING MACHINE

William F. Groene and Harold J. Siekmann, Cincinnati, Ohio, assignors to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio, a corporation of Delaware

Application June 11, 1942, Serial No. 446,631
19 Claims. (Cl. 10—130)



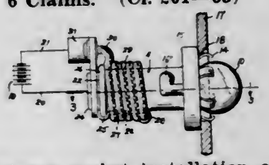
19. In a step threading machine for breech rings, a frame, a rotatable and axially movable work spindle carried in said frame, means for effecting the rocking and axial movement of said spindle, a tool carriage movable relative to said work spindle, a tool turret rotatable and indexable on said carriage, a series of cutting taps carried by said turret and adapted to be presented to working position relative to said work piece by said turret, and supporting means on said frame for engaging said tap adjacent to the work piece being cut so as to steady said tap during its cutting operation on a work piece on said work spindle.

2,317,100

SOCKET DEVICE

Charles L. Hall and George F. Cram, Detroit, Mich., assignors to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts

Application April 16, 1941, Serial No. 388,894
6 Claims. (Cl. 201—63)



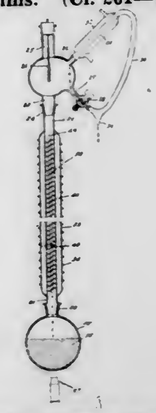
1. A resistance socket installation comprising a sheet metal socket formed at one end for the reception of an electrical device, an electrical circuit for said socket including a base contact within said socket for said device and a resistance coil wrapped around the body of the socket, one end of the coil being electrically connected to said socket and the other end being insulated therefrom and connected to a source of electrical energy.

2,317,101

RECTIFYING COLUMN

Herbert S. Lecky, West Lafayette, Ind., assignor to Purdue Research Foundation, West Lafayette, Ind., a corporation of Indiana

Application July 6, 1940, Serial No. 344,254
3 Claims. (Cl. 261—79)



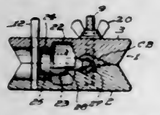
1. In a rectifying column having means for connecting the lower part to a still-chamber and the upper part to a condenser, a helical permeable member for supporting a film of reflux liquid which by reason of the permeability of said helical permeable member is exposed over both its upper and lower sides to vapor ascending in a helical path provided by said helical permeable member, and means for closing the inner and outer sides of said helical path.

2,317,102
COTTON DISPENSER
Albert S. McKaig, Jr., New Orleans, La., assignor to Owens-Illinois Glass Company, a corporation of Ohio
Application November 14, 1940, Serial No. 365,695
1 Claim. (Cl. 206—63.5)



An sanitary package for sterilized cotton, comprising a transparent hollow container having a body portion, a horizontal shoulder formed at the top and inwardly of said body portion, a reduced neck and neck opening formed above said shoulder, a cover for said neck opening, and a flexible dispenser disk consisting solely of a single flat sheet of paper having a central opening with slits extending radially from the opening in said disk, said slits forming therebetween bendable resilient portions that reseal the contents of said package after use, said disk being positioned in contact with the lower side of said shoulder and of such diameter as to frictionally engage the side of the body and be supported against said shoulder solely by friction.

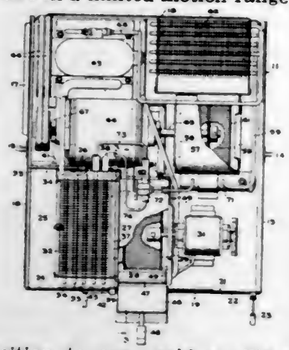
2,317,103
MANUFACTURE OF DENTAL CROWNS
Ida L. Meier, Philadelphia, Pa.
Application August 14, 1940, Serial No. 352,540
7 Claims. (Cl. 18—55.1)



1. A method of making a molded ceramic dental crown which comprises forming a ceramic mix to substantially the shape of the finished crown on an enlarged scale, compacting the mix by forcing into it a substantial replica of the tooth stub to which the crown is ultimately to be attached and then subjecting it to baking heat while maintaining its external periphery substantially free from contact with extraneous objects.

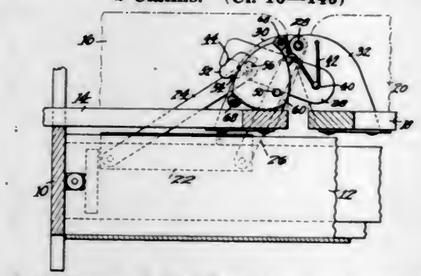
2,317,104
AIR CONDITIONING
Paul B. Moore, York, Pa., assignor to York Ice Machinery Corporation, York, Pa., a corporation of Delaware
Application December 17, 1941, Serial No. 423,393
6 Claims. (Cl. 62—129)

1. The combination with an air conditioner including a refrigerative evaporator and a fan for drawing air in contact with said evaporator and discharging it into a room; flow directing means controlling the discharge from said fan, said means being adjustable to vary the direction of discharge into the room and having a limiting position in which such discharge is closed; a normally closed damper controlling a secondary discharge from said fan leading to a point exterior to the room; and means operable by motion of the flow directing means to its closed position and effective in a limited motion range near said



closed position to open said auxiliary damper from its normal closed position.

2,317,105
HINGE GUARD FOR SOFA BEDS
Herbert W. Neunherz, Gardner, Mass.
Application September 17, 1941, Serial No. 411,189
2 Claims. (Cl. 16—146)



1. A device of the class described comprising a support, pivoting seat and back rest elements on the support, latching means therefor comprising a hinge leaf for each element, a flange on at least one hinge leaf, means forming an aperture in said one hinge leaf, said aperture being located a predetermined distance from the flange, a plate having a pin therein for entry into said aperture to secure the plate to said one hinge leaf, means for spacing the plate and said one hinge leaf, said last named means and the pin locating said plate in predetermined parallel relation to said one hinge leaf and its flange, a flange on the plate spaced from the first named flange a predetermined distance by said plate spacing means and the pin, a frame member for the seat element having a width to fit between the flanges, a free-ended lever on the other hinge leaf, a notch in the lever to receive the pin to latch the hinge leaves together, said lever being selectively movable to disengage the pin and notch, said plate flange guarding the free end of the lever during a part of its movement adjacent the frame member, said lever being located in a plane intermediate the plate and one hinge leaf.

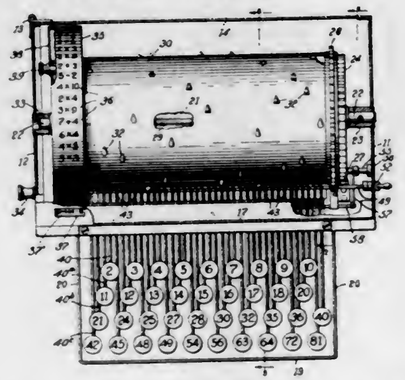
2,317,106
SPEED DRILL
Arthur A. Nummelin, Inglewood, Calif.
Application October 1, 1941, Serial No. 413,230
2 Claims. (Cl. 77—7)

1. A magazine feed for the tubular shank of a drill bit comprising a stationary part having a passage communicating with the shank, a stem rising from said stationary part, a rotary part mounted on the stem and having a plurality of chambers disposed concentrically around the stem and adapted to contain bits for entering the pas-



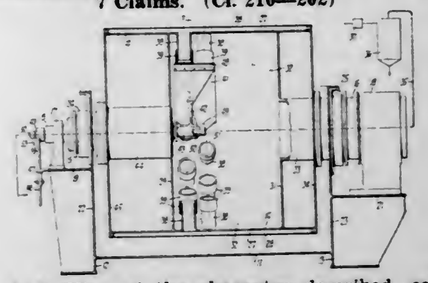
sage when the chambers are aligned therewith, a cap secured to the stationary part, and a stop carried by the cap and releasably engaging the rotary part to secure the latter against movement.

2,317,107
EDUCATIONAL DEVICE
Clark R. Oesch, Atwater, Ohio
Application June 15, 1942, Serial No. 447,051
6 Claims. (Cl. 35—22)



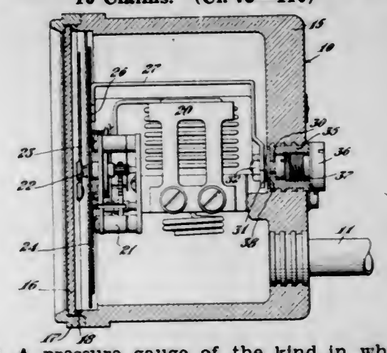
1. A machine of the class described including a housing having a sight opening, a cylinder rotatable within said housing, the cylinder having a series of indicia constituting problems around one portion of its periphery in position to be successively displayed through said sight opening as the cylinder is rotated, a plurality of keys each having thereon the answer to one of said problems, movable pawls operated by said keys, means for normally holding the pawls in contact with the cylinder, and a series of longitudinally and circumferentially spaced lugs upon said cylinder for engagement with said pawls for intermittently rotating the cylinder, said lugs being so located that in any position of the cylinder only the pawl of the key bearing the answer to the problem displayed through said sight opening will be in operative position relative to one of said lugs.

2,317,108
FILTER
William H. Oliver, Oakland, and Merrill C. Orswell, Tujunga, Calif., assignors to Oliver United Filters Incorporated, Oakland, Calif., a corporation of Nevada
Application November 8, 1939, Serial No. 303,428
7 Claims. (Cl. 210—202)



1. A filter of the character described, comprising: a rotary drum; a filtrate compartment formed on the surface of said drum; a filtrate outlet depending from said compartment into said drum and arranged to rotate therewith; a stationary shoe fixed within said drum; and a sleeve of resilient material secured to said filtrate outlet with its open free end arranged for sliding and sealing engagement with the outer surface of said shoe without any substantial distortion of said sleeve.

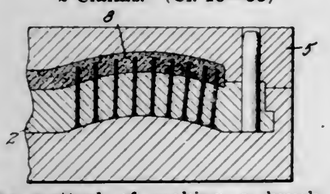
2,317,109
PRESSURE GAUGE
Frederick G. Oxland, Bridgeport, Conn., assignor to Manning, Maxwell & Moore, Incorporated, Bridgeport, Conn., a corporation of New Jersey
Application November 26, 1941, Serial No. 420,489
10 Claims. (Cl. 73—110)



3. A pressure gauge of the kind in which a casing houses a stationary dial having an annular row of graduations, a movable pointer cooperable with said graduations, a movement mechanism including a rotary spindle to which the pointer is fixed, and pressure motor means for actuating the movement mechanism, characterized in that the dial has therein an arcuate slot coaxial with the dial, and further characterized in that a normally stationary plate is arranged behind but closely adjacent to the slotted portion of the dial, the forward surface of said plate having juxtaposed visually distinctive areas so located that their common boundary extends transversely of and is visible through the slot, a supporting arm to one end of which said plate is secured, a pivot stud secured to the other end of said arm, said stud being coaxial

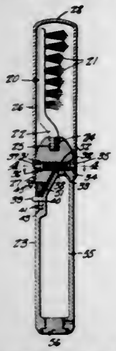
with the dial, a bearing for the stud carried by the casing, means whereby the stud may be turned, and means normally operative to retain the stud and arm in adjusted position.

2,317,110
METHOD OF MAKING BRUSHES
Earl R. Person, Leominster, Mass., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application August 4, 1938, Serial No. 223,102
2 Claims. (Cl. 18—55)



2. The method of making a brush, which consists in providing a die part having perforations extending therethrough, inserting in the perforations tufts of bristles extending through the perforations and projecting beyond them, placing the die part against a second die part having a surface spaced from the first die part to limit the projection of the bristles, beyond the first die part, for evening the extent of the projecting ends of the bristles in the die, removing the second die part, replacing it by a third die part having a surface similar to the second die part farther from the surface of the first die part to allow a plastic material to cover the ends of the bristles, and filling the cavity between the two die parts with a plastic material.

2,317,111
TOOTHBRUSH COVER FASTENER
Ludwig F. Perwas, New York, N. Y.
Application August 5, 1941, Serial No. 405,543
3 Claims. (Cl. 292—38)

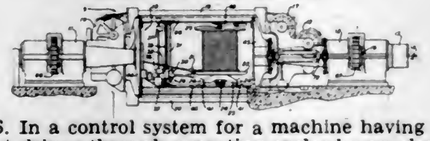


1. In a device including a body member and a cover having an open end receiving one end of the said body, a latch means for holding the cover securely associated with the body comprising studs slidably disposed in a transverse passage provided in the mentioned end of the body, the opposite ends of the passage being of reduced diameter to receive the shank portions of the studs and opening through opposite sides of the body and into recesses in the inner surface of the cover, spring means interposed between the studs for normally urging the shank portions thereof into the recesses of the cover, a manually operable slide element mounted in an external slot of the body located beyond the attached end of the cover, a flexible connection having its opposite ends attached to the said studs and a flexible tie member arranged in a duct extending from the slot to substantially the middle of the said passage, one end of the tie member being attached to the slide element and the opposite end thereof being connected to the said flexible connection, the said spring means normally acting through the medium of the said connection and tie member to hold the slide at the adjacent end of the said slot.

2,317,112
CLEANING COMPOSITION
Wilbur Bennett Pings, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 16, 1940, Serial No. 361,449
6 Claims. (Cl. 252—153)

1. A composition for use in dry cleaning and in degreasing metals which comprises a liquid chlorinated aliphatic hydrocarbon dry cleaning solvent and from 0.01 to 10%, by weight, of an N-hydroxyalkylamide of an aliphatic monobasic monocarboxylic acid of at least nine carbon atoms, said amide having the hydroxyl on a carbon not more than one carbon removed from the amido nitrogen and having in the hydroxyalkyl group not more than two carbon atoms.

2,317,113
CONTROL SYSTEM FOR MACHINES
Lester O. Reichelt, Cranford, and Daniel V. Waters, Flemington, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application July 31, 1941, Serial No. 404,886
22 Claims. (Cl. 57—58)

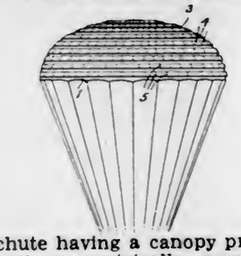


6. In a control system for a machine having a part driven through operating cycles by an electric motor, in combination, means to effect running of the motor at a predetermined maximum speed to drive the part at a predetermined maximum speed, means to effect deceleration of the motor and the part to predetermined minimum speeds, means to stop the part, a unit driven by the motor at speeds variable with those of the part, and means controlled by the unit to render the stopping means effective to stop the part after the said minimum speed of the part and unit have been reached.

2,317,114
METHOD OF PRODUCING PIGMENTED ENAMEL ARTICLES
Jacob E. Rosenberg, Pittsburgh, Pa., assignor to Homelaya, Incorporated, a corporation of Pennsylvania
No Drawing. Application October 28, 1940, Serial No. 363,143
1 Claim. (Cl. 117—53)

The method herein described of producing one-coat enameled iron articles of red and yellow color adequately bonded to the iron, which consists in spreading upon the surface of the iron article to be enameled a vitrifiable coating that carries an iron-eroding content of sodium antimonate, spreading upon such coating still in unfired condition a second coating that carries as a pigment a cadmium selenide, and firing the article so coated, whereby the iron-eroding content has unimpaired bonding effect and the unreacted pigment colors the surface of the fired article.

2,317,115
PARACHUTE
Tamis C. Schenk, Richmond Hill, N. Y., assignor to Richmond Screw Anchor Company, Inc., Brooklyn, N. Y., a corporation of New York
Application January 15, 1942, Serial No. 426,830
1 Claim. (Cl. 244—145)

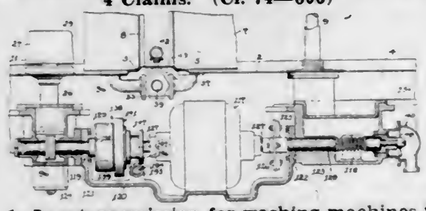


A parachute having a canopy provided with a plurality of concentrically arranged flexible bands secured to its outer surface and arranged in spaced relation thereon, said bands being spaced from one another at distances no greater provide loops adapted to be distended by air flow than the width of each of the bands, the bands being transversely stitched at spaced points to over the outer surface of the canopy and decrease the air pressure thereover, the transverse stitchings of one band being disaligned relative to those of the adjacent bands whereby the loops in each band are arranged in staggered relation to those in the adjacent bands.

2,317,116
SYNTHETIC RESIN AND THE PREPARATION THEREOF
John L. Sheridan, Long Island City, N. Y., assignor to Custodis Construction Company, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application July 24, 1940, Serial No. 347,143
11 Claims. (Cl. 260—46)

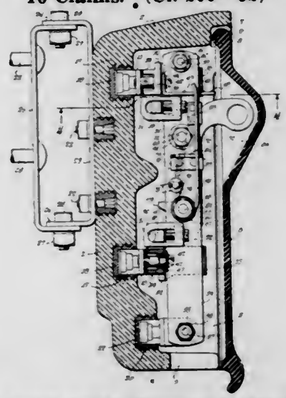
1. A method for preparing resins comprising reacting cashew nut shell liquid with an aldehyde in the presence of a benzene sulfonic acid and a benzene sulfonyl chloride.

2,317,117
WASHING MACHINE
Anton C. Schmelzer, Cleveland, Ohio
Application November 29, 1939, Serial No. 306,590
4 Claims. (Cl. 74—606)



1. In a transmission for washing machines two parallel shafts, a gear box including gearing for one of said shafts, a second gear box including gearing for the other one of said shafts, an elongated U-shaped bracket having its flanges secured to said gear boxes, and an electric motor supported by said bracket, the opposite ends of the shaft of said motor being extended toward the flanges of said bracket and coupled with one of the elements of each of the two gearings.

2,317,118
QUICK-BREAK DISCONNECT SWITCH
William O. Schultz, South Milwaukee, and Alwin G. Steinmayer, Milwaukee, Wis., assignors to Line Material Company, South Milwaukee, Wis., a corporation of Delaware
Application June 16, 1939, Serial No. 279,414
16 Claims. (Cl. 200—62)

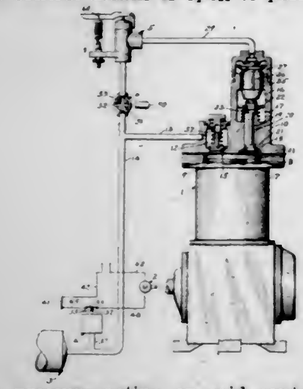


1. In a quick-break disconnect switch the combination with a main switch comprising a pair of spaced terminals and a pivotally-mounted switch bar connecting said terminals, of an auxiliary switch electrically connecting said terminals and including a catch associated with one of said terminals and a resilient member engageable at one end with said catch and secured at the other end on said bar, said member comprising a wire having a coiled portion intermediate its ends and relatively in closer proximity to the last-mentioned end than the other, and a pin on said bar about which said portion is coiled, said catch comprising a hook-like wedge portion normal to the plane of movement of said bar, whereby upon movement of said bar to open position said member will be withdrawn from said catch subsequent to the opening of a circuit through said bar.

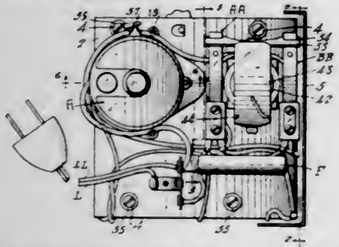
2,317,119
COMPRESSOR CONTROL SYSTEM
Roy R. Stevens, Forest Hills, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application May 31, 1941, Serial No. 395,901
3 Claims. (Cl. 230—4)

1. In a fluid compressor system, in combination, a reservoir, a fluid compressor for supplying fluid under pressure to said reservoir, means for driving the compressor, control means responsive to variations in the pressure of fluid in said reservoir for loading or unloading the compressor, a fluid pressure discharge communication leading from the compressor, a fluid conducting passage connected to said communication, through which fluid under pressure is supplied from said compressor to said reservoir and to said control means, switch means interposed in said passage intermediate said reservoir and said discharge

communication and responsive to fluid in the reservoir for automatically controlling said driving means to start or stop the compressor, and manually operated valve means interposed in said passage, said means having one position in which the passage between the reservoir, the compressor and the control means is open to permit variations in pressure acting on said control means to load or unload the compressor and having another position in which said passage is closed at a point intermediate the control means and the compressor and reservoir for effecting the operation of said control means to load the compressor and to render the switch means operative to start and stop the compressor.

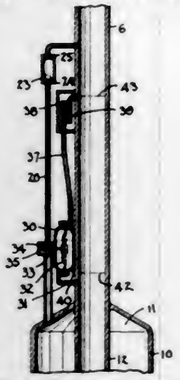


2,317,120
ELECTRIC TIMING SWITCH
Victor E. Tamburr and Lawrence L. Neidenberg, Newark, N. J., assignors to Industrial Timer Corp., Newark, N. J., a corporation of New Jersey
Application September 10, 1941, Serial No. 410,266
10 Claims. (Cl. 161—1)



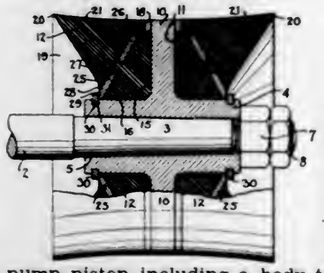
1. An electric timing mechanism comprising a timing switch, gearing to move said switch into one of two positions upon movement of said gearing in one direction, an electric motor for driving said gearing, said gearing including a plurality of cooperative elements one of which is capable of being engaged with and disengaged from another to start and stop respectively said movement of said switch, said motor including a stator and a rotor having an armature and which is movable axially in opposite directions relatively to said stator to locate said armature in and out of the magnetic field of said stator respectively, said rotor being moved in one of said directions by magnetic influence of said stator upon said armature as the stator is energized to start the motor, said one gearing element being connected to and movable with said rotor to engage said other gearing element upon movement of said rotor in said direction to move said switch into said one position, means for moving said rotor in the other direction upon deenergization of said stator to disengage said one gearing element from the other, and means for actuating said switch into its other position upon said disengagement of said one gearing element from the other gearing element.

2,317,121
GAS LIFT INTERMITTER
Maurice Bowman Thomas, Houston, Tex.
Application November 2, 1940, Serial No. 364,041
6 Claims. (Cl. 103—231)



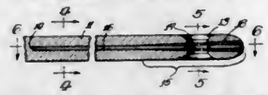
1. An intermitter for wells comprising an intermitter chamber, a flow tubing extending thereinto, means to allow the inflow of well liquid to said chamber and tubing, means to introduce fluid pressure to the top of said chamber to expel the well liquid from said chamber through the tubing, and a control device for said means including a fluid weight pressure mechanism operable upon variation in the weight of the column of liquid accumulating in a relatively short section of the tubing.

2,317,122
PUMP PISTON
Alexander S. Volpin, Houston, Tex.
Application June 11, 1942, Serial No. 446,571
9 Claims. (Cl. 309—4)



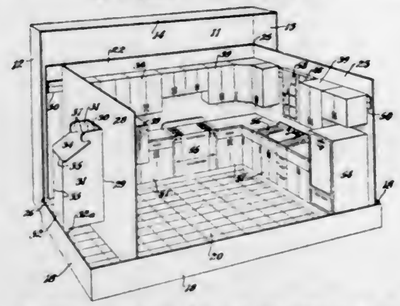
1. A pump piston including a body to receive the pump rod, an outstanding flange on said body, a flexible sealing member on each end of said body and abutting said flange, means to hold each of said members in position including a reenforcing and retainer plate of frusto conical configuration embedded in each of said members and having its inner surface facing said flange, said plate extending to the end area of the member, and a lock ring to clamp said plate and the resilient material thereon to said body and against said flange.

2,317,123
TOOTHBRUSH
Harold Warp, Chicago, Ill.
Application April 27, 1939, Serial No. 270,395
2 Claims. (Cl. 40—10)



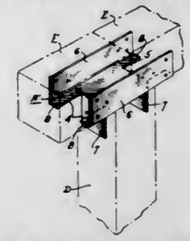
1. A brush comprising a brush head, an elongated handle composed of transparent material, an elongated and flat recess formed in said handle extending longitudinally thereof and opening through the free end of said handle, said recess at its outer end flaring slightly outwardly to form a wedge shaped opening to the recess, an elongated flat strip insertable within said recess, said strip conforming at its outer end to the shape of the end of said handle, a major portion of said strip being originally blank to provide for the inscription of identifying indicia by the owner of the brush, and a coating of plastic sealing compound carried by the end of said strip, said coating growing progressively heavier as the end of the strip is approached and being operable upon insertion within the flared opening of said recess to conform, under the application of manual pressure, to the flared opening of said recess and conjointly with the end of said strip closing and sealing the recess against the entry of moisture.

2,317,124
DEMONSTRATION SET
Marshall B. Adams, Warren, Ohio, assignor to Mullins Manufacturing Corporation, Salem, Ohio, a corporation of New York
Application February 24, 1941, Serial No. 380,139
10 Claims. (Cl. 35—16)



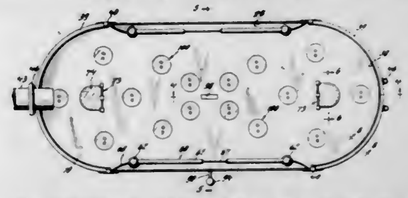
1. A demonstration set for representing a portion of a room in miniature including a rectangular box container having a bottom wall, a back wall, and a lid hinged to said back wall, said lid being adapted when opened to extend in the same plane as said back wall, a floor member having a portion secured to the inside of said back wall and a hinged portion adapted to fold within the box when closed and to rest flat on the lid when opened, a two-leafed foldable wall member having a first leaf secured to the inside of the bottom wall and a second leaf adapted to unfold at right angles thereto when the lid is in open position, another wall member adapted to be enclosed within the box, foldable means on said other wall member for movably supporting the same on and at right angles to said floor member when the floor member is unfolded, a plurality of foldable equipment models contained within the box and adapted to be folded to three-dimensional shapes, and hangar means on the wall members below the tops thereof for hanging said equipment models at desired positions on said wall members.

2,317,125
POST CAP
George F. Barnett, San Francisco, Calif.
Application July 2, 1941, Serial No. 400,789
3 Claims. (Cl. 20—95)



1. A post cap comprising a channel shaped member having a pair of upwardly extending side flanges and a web portion and said web having spaced apart pairs of cuts at each end to form a pair of end flanges of less width than the web and bent downwardly from the web and at right angles thereto.

2,317,126
GAME
Carl Biderman, New York, N. Y.
Application March 21, 1941, Serial No. 384,452
3 Claims. (Cl. 273—85)

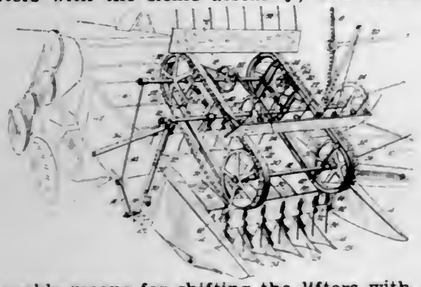


3. An elongated game board for a game employing a moving member and playing sticks therefor, said board having a goal opening in each end section spaced from the end of the board, a goal structure associated with each goal opening comprising a plurality of upright posts secured on the forward edge thereof in spaced relationship, and a curved wall extending along the rear edge thereof, a guard rail extending around the marginal edge of the playing board, a supplemental guard rail extending along, but spaced from, two opposed longitudinal edges of the board, the opposed terminals thereof being curved and extending outwardly to the edges of the board to provide means for guiding the moving member to the center of the board after it has been moved through an end section, and an elongated playing-stick confining bar positioned above the supplemental guard rail for permitting movement of such stick longitudinally of the board but restraining upward movement thereof.

2,317,127
PICKUP ATTACHMENT FOR HARVESTER-THRESHERS
Warren E. Bowling, Gardner, Kans.
Application August 7, 1941, Serial No. 405,804
7 Claims. (Cl. 56—219)

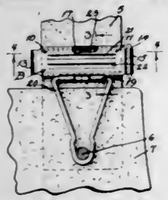
1. In a harvesting machine of the character

described having a sickle assembly and a conveying means along one side thereof, the combination of a plurality of V-shaped lifters along the opposite side of the sickle assembly with the legs thereof in straddling relation with the sickle assembly and spaced an appreciable distance therefrom; a plurality of links joining the lifters with the sickle assembly; and manually



operable means for shifting the lifters with respect to the sickle assembly, said means for shifting the lifters comprising a shaft common to all the lifters, a link connecting the shaft with one leg of each lifter respectively, and means for rotating the shaft about its axis to rock the first mentioned links and shift the lifters, said first mentioned links being pivotally joined to the sickle assembly.

2,317,128
BUCKLE
Fred Braun, Milwaukee, Wis.
Application November 27, 1941, Serial No. 420,648
2 Claims. (Cl. 24—258)



2. A buckle comprising, a body portion formed from a single sheet of resilient sheet metal including a pair of companion gripping jaws and a connecting bight portion, means detachably connecting the jaws at their outer ends, one of said jaws being provided with inwardly directed flanges, inwardly directed flanges formed on the longitudinal edges of the other jaw arranged out of longitudinal alinement with the first-mentioned flanges for lying between said flanges, a pair of spaced struck-in ribs formed on one of the jaws between its flanges, and a single struck-in rib formed on the other jaw between its flanges for movement between the first-mentioned ribs when the jaws are in their clamping position.

2,317,129
LINE GUIDE FOR FISHING RODS
James Arthur Brown, Baldwin Park, Calif.
Application February 26, 1942, Serial No. 432,497
3 Claims. (Cl. 43—24)

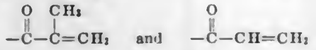
1. A line guide for a fishing rod comprising a band having its opposite end portions reverted with its free extremities lapping, a threaded member disposed through the side of the band opposite to the lapping extremities and through said lapping extremities, a nut threaded upon said member for coaction with the overlapping extremities, and an eye member within the band to one side of the threaded member, a portion of the band at the opposite side of the threaded



member being adapted to encircle the rod, the threaded member and nut coacting to effectively clamp the eye member in place and to clamp the device to the rod.

2,317,130
POLYMERIZABLE UNSATURATED METHYLENE COMPOUND AND RESIN COMPRISING POLYMERS THEREOF
Loring Coes, Jr., Brookfield, and Carl E. Barnes, Worcester, Mass., assignors, by mesne assignments, to E. I. du Point de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application February 28, 1939, Serial No. 258,958
4 Claims. (Cl. 260—83)

4. A synthetic resin obtained by polymerizing an aromatic diamine from the group consisting of the phenylene, toluylene, diphenyl, and naphthalene diamines, in which all of the amino groups contain as a substituent a group from the class consisting of



groups.

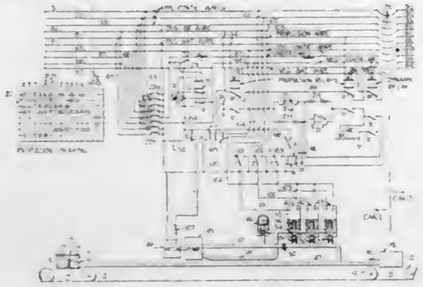
2,317,131
FILM AND FILAMENT FORMATION
Rollin F. Conaway, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 31, 1940, Serial No. 372,675
10 Claims. (Cl. 18—54)

1. Process for preparing shaped objects of cellulose derivatives with decreased fusibility and solubility in organic solvents which comprises forming a solution in an organic solvent of a hydroxyl-containing cellulose derivative and from one to twenty per cent, based on the cellulose derivative, of a monomeric alkyl ether of dimethylolurea into a shaped article, evaporating the solvent from said shaped article and baking the same until the produrt is insolubilized.

2,317,132
BRAKE SYSTEM
Earle S. Cook, Wilkinsburg, and Douglas R. Borst, Pitcalrn, Pa., assignors to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application December 31, 1940, Serial No. 372,592
57 Claims. (Cl. 303—3)

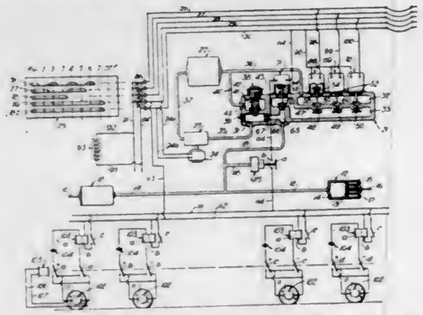
1. Brake apparatus for exerting a braking force on an element to be braked, said apparatus comprising a communication for containing liquid under pressure, a pump for supplying liquid under pressure to said communication, a choke element interposed between said communication and said pump for controlling the rate of supply of liquid into said communication from said pump, a plurality of choke elements so arranged as to individually or collectively in different combinations release liquid from said communication at a

plurality of different rates, means for selectively rendering one or more or all of said plurality of choke elements effective or ineffective to release liquid from said communication whereby to cause to be established in said communication a differ-



ent pressure for each combination of said plurality of choke elements in effect or not in effect, and means controlled according to the pressure in said communication for controlling the degree of application and the release of the brakes.

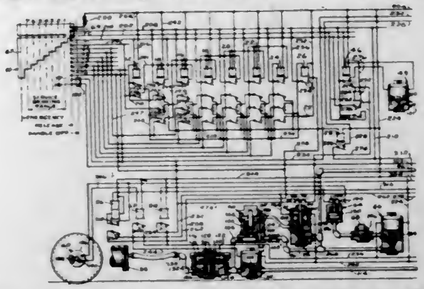
2,317,133
BRAKE CONTROL MEANS
Claude M. Hines, Pittsburgh, and Douglas R. Borst, Pitcairn, Pa., assignors to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application November 29, 1941, Serial No. 420,998
22 Claims. (Cl. 303—21)



1. In a vehicle brake equipment of the hydraulic type having brake means applied to different degrees and released in accordance with a hydraulic control pressure, the combination of control means operative to so control the hydraulic pressure as to effect a rapid reduction in the degree of application of the brakes associated with a wheel of the vehicle, and means responsive only to the rotative deceleration of said wheel at a rate exceeding a certain rate for effecting operation of said control means.

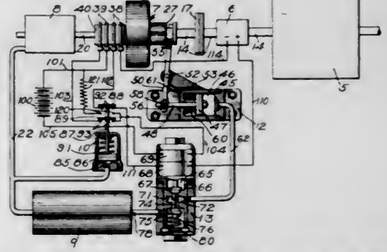
2,317,134
ELECTROPNEUMATIC BRAKE
Joseph C. McCune, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application February 24, 1934, Serial No. 712,733
55 Claims. (Cl. 303—24)

1. In a vehicle brake apparatus, the combination with a brake cylinder, of a controller device having a plurality of braking positions, a plurality of timing relays, each of said relays corresponding to one of said braking positions, means controlled by said relays for controlling the supply of fluid under pressure to said brake cylinder, and means whereby operation of said controller device causes sequential operation of a number



said relays corresponding to the position to which said controller device is operated to effect a supply of fluid under pressure to said brake cylinder, the last of said relays to operate effecting a lapping of said supply.

2,317,135
DRIVE MECHANISM
Philip L. Crittenden, Edgewood, and Claude M. Hines, Pittsburgh, Pa., assignors to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application June 21, 1941, Serial No. 399,056
10 Claims. (Cl. 172—239)

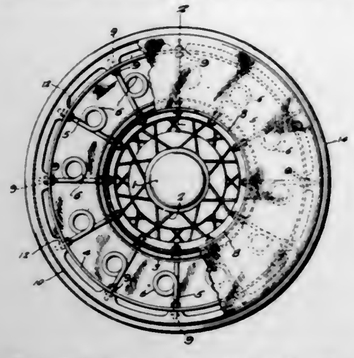


1. In an electromagnetic transmission equipment, in combination, a driving member, a driven member normally spaced therefrom, electromagnetic drive means adapted normally to transmit magnetic torque between said driving member and said driven member, and auxiliary drive means responsive to deenergization of said electromagnetic drive means for effecting frictional engagement of said driving member and said driven member.

2,317,136
SPRING WHEEL
William E. Dailey, Chicago, Ill.
Application June 17, 1942, Serial No. 447,411
2 Claims. (Cl. 152—261)

1. A vehicle wheel comprising an inner annular band, a transversely flat felly surrounding said band and spaced therefrom, resilient spokes at each edge of the band and felly having threaded ends extending through said edges, pairs of clamping nuts on said ends of the spokes clamping the band and felly therebetween, a transversely dished one-piece tire supporting rim surrounding said felly and spaced therefrom, edge ears on said rim bent inwardly therefrom and secured flat against the outer side of the felly

by said bolts and nuts thereon, said ears spacing the rim from the felly, and a solid tire of sub-



stantially oval form transversely fitting in said dished rim.

2,317,137
POLYSTYRENE PLASTIC
David A. Fletcher, Bloomfield, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 21, 1939, Serial No. 295,914
6 Claims. (Cl. 260—23)

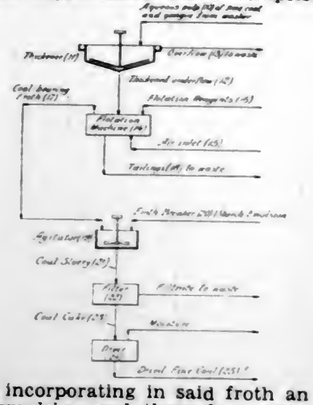
2. Process of preparing a polystyrene plastic characterized by a nacreous sheen, which comprises forming a plastic mixture essentially consisting of 100 parts of polystyrene and 0.5–10.0 parts of an aluminum salt of an aliphatic acid of 12–18 carbon atoms, inclusive, and thereafter applying to said mixture an orienting force, said aluminum salt being employed in an amount sufficient to give said plastic a nacreous sheen.

2,317,138
GRANULAR POLYMERIZATION OF ETHANOID MONOMERS
David A. Fletcher, Bloomfield, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 23, 1940, Serial No. 346,995
7 Claims. (Cl. 260—23)

1. In the granular polymerization of an ethenoid monomer from the group consisting of vinyl esters, styrene, and esters of acrylic and methacrylic acids, the steps comprising dispersing said ethenoid monomer in water containing a dispersing agent, initiating polymerization of said monomer, and adding to said dispersion during the peak period of the evolution of heat by the polymerization reaction a lubricant of acidic character from the group consisting of the saturated aliphatic acids containing 12–18 carbon atoms, inclusive.

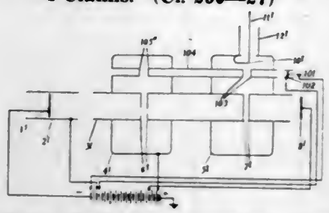
2,317,139
FROTH BREAKING
Philip Morhiser Frantz, Pueblo, Colo., assignor to The Colorado Fuel and Iron Corporation, Denver, Colo., a corporation of Colorado
Application July 20, 1939, Serial No. 285,488
14 Claims. (Cl. 252—321)

9. In a process involving the aeration of an aqueous mineral-bearing pulp in the presence of a collecting agent to form a froth comprising air-filled bubbles coated with the collecting agent to which the mineral particles are adhering and the separation of said froth from said pulp, the improvement which comprises subse-



quently incorporating in said froth an aqueous starch emulsion and thereafter subjecting the resultant product to filtration.

2,317,140
ELECTRON DISCHARGE APPARATUS
William Thomas Gibson, London, England, assignor to International Standard Electric Corporation, New York, N. Y.
Application December 16, 1941, Serial No. 423,164
In Great Britain May 28, 1940
4 Claims. (Cl. 250—27)

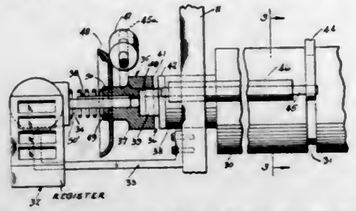


1. Electron discharge apparatus comprising first and second hollow resonators having two sets of aligned apertures, means for producing a main electron beam, means for directing said main electron beam through one set of aligned apertures in the direction from said first resonator to said second resonator so that the said beam is velocity modulated in traversing said first resonator and is bunched on arrival at said second resonator and yields energy thereto, and means for producing an auxiliary electron beam and for directing it through the other set of aligned apertures in the direction from said second resonator to said first resonator whereby said auxiliary electron beam is velocity modulated and feeds back energy from said second resonator to said first resonator.

2,317,141
YARDAGE MEASURING DEVICE
Herman Walter Gilbert, Kew Gardens, N. Y.
Application April 23, 1941, Serial No. 389,948
7 Claims. (Cl. 33—132)

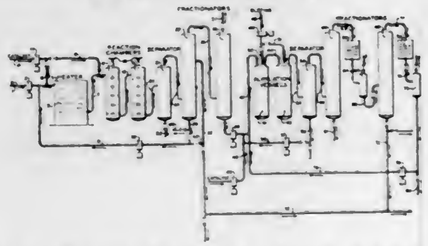
1. In a machine of the class described having guiding means for the cloth including a frame, a drum rotatively mounted on said frame at a location over which said cloth passes and said drum having a peripheral groove over which said cloth will extend, a yardage register having a rotative operator shaft, a transmission connecting said drum and operator shaft and including a

clutch having parts with engaging gripping faces which are capable of being opened to disconnect said drum and operator shaft, a finger movably supported on said frame and adapted to rest on said cloth which is over said peripheral groove, means for urging said finger into said peripheral groove when the end of said cloth moves off said drum, and means for opening said clutch when said finger moves into said peripheral groove, comprising a cam on one of said parts of said



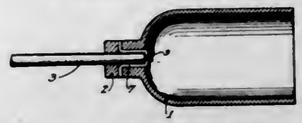
clutch for opening up said parts when actuated by moving laterally, a rod connected with said finger to move when the finger moves, and a member on said rod to move radially inwards of said cam for actuating said cam upon movement of said rod, said cam being in the form of a disc having a laterally curved edge portion, and said member engaging said curved edge portion and forcing said cam laterally when moving radially inwards.

2,317,142
MANUFACTURE OF MOTOR FUEL
Arthur R. Goldsby, Beacon, N. Y., assignor, by mesne assignments, to The Texas Company, New York, N. Y., a corporation of Delaware
Application April 27, 1939, Serial No. 270,338
8 Claims. (Cl. 196—10)



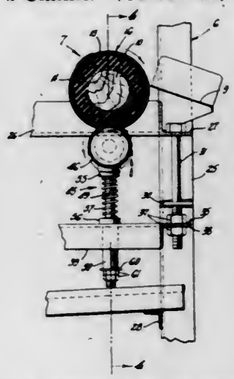
6. In the manufacture of aviation gasoline of high anti-knock rating, wherein isobutane is alkylated with a low-boiling olefin in the presence of an alkylation catalyst under alkylating conditions to produce hydrocarbon reaction products, the improvement which comprises fractionating and stabilizing the hydrocarbon reaction products to separate hydrocarbons boiling above the aviation gasoline boiling range and also to separate normally gaseous hydrocarbons to thereby produce a resulting stabilized alkylation gasoline having 10% and 50% boiling points above those required to meet commercial aviation gasoline specifications, and then blending with the said stabilized alkylation gasoline a low-boiling fraction consisting essentially of normally liquid saturated hydrocarbons of largely isoparaffinic character and of high anti-knock value, which is the product of catalytic isomerization of a paraffinic hydrocarbon charging stock of higher molecular weight than butane but boiling below about 220° F., said low-boiling fraction having substantially lower 10% and 50% boiling points than required to meet said commercial aviation gasoline specifications, whereby an aviation gasoline of high anti-knock value is obtained which meets said commercial aviation gasoline volatility specifications.

2,317,143
CARBON ELECTRODE ASSEMBLY
Lynn Goodale, Newark, N. J., assignor to Federal Telephone and Radio Corporation, a corporation of Delaware
Application August 27, 1942, Serial No. 456,314
13 Claims. (Cl. 250—27.5)



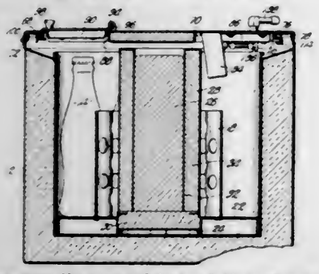
1. An electrode assembly comprising an electrode provided with a hole to receive a lead member, a lead member disposed in said hole, key means disposed in said electrode adjacent to said hole, and a weld connecting said lead member with said key means whereby said lead member is secured to said electrode.

2,317,144
WATER ELIMINATOR
Robert S. Grant, Dunedin, Fla., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application July 6, 1942, Serial No. 449,947
2 Claims. (Cl. 34—95)



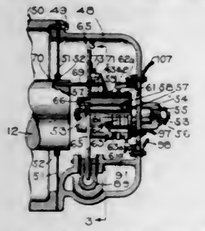
1. In a water eliminator the combination of: an absorbent roller having a hard cylindrical core surrounded by a layer of sponge rubber the thickness of which constitutes from 30% to 40% of the radius of said roller, said roller also including a layer of absorbent fabric one edge of which is fastened to said rubber layer and said fabric then wound spirally about said rubber layer; a hard roller of smaller diameter than the aforesaid absorbent roller; means for pressing said hard roller against said absorbent roller so as to continuously effect a substantial compression of said absorbent fabric between said hard roller and said rubber layer causing said fabric and said layer to conform to said hard roller to wring water from said absorbent fabric when said absorbent roller rotates and so as to form sharp bends in said absorbent fabric where the latter enters and leaves contact with said hard roller; means for rotating said absorbent roller; and means for bringing fruit into contact with said absorbent roller while the latter is rotating so that said fruit has rolling contact with said absorbent roller.

2,317,145
PORTABLE BOTTLE VENDOR
Joseph E. Hagstrom and Olaf C. Olsen, Kansas City, Mo., assignors to C. Earl Hovey, trustee, Kansas City, Mo.
Application October 25, 1940, Serial No. 362,734
13 Claims. (Cl. 312—36)



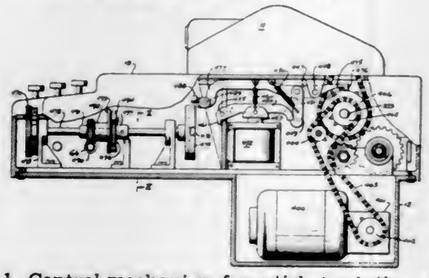
1. In a vending machine of the character described a closed case having an opening in the top thereof; a rotatable plate closing said opening and provided with a delivery opening; an operating lever on the plate; a rack for packages being vended comprising a plurality of stalls arranged in a circumscribing path below the delivery opening; a notched track on the case around the rotatable plate; a slide mounted on the plate having a portion thereof movable to and from a position projecting into the respective notches to prevent rotation of the plate; and coin controlled means for withdrawing said portion of the slide from within the notches.

2,317,146
WHEEL SLIP RESPONSIVE MEANS
Claude M. Hines, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application March 29, 1941, Serial No. 385,887
11 Claims. (Cl. 200—52)



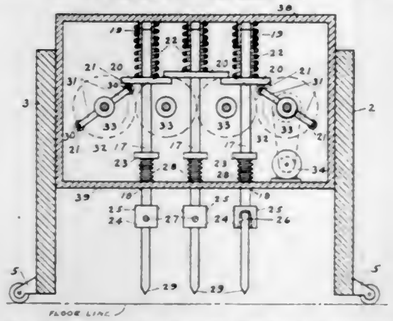
1. Apparatus for detecting the rate of change of speed of a railway car wheel-and-axle assembly having an axle journal casing, comprising in combination, an end casing adapted to be secured to the axle journal casing in place of the usual end cover, a relatively thin member of non-magnetic electric-current-conducting material rotatably mounted on said end casing in coaxial alignment with the axle of the wheel-and-axle assembly, means providing a driving connection between the axle of the wheel-and-axle assembly and said member permitting a limited degree of rotative movement of said member with respect to the axle, magnetic means carried by said end casing in associated relation with said member in a manner to cause eddy currents to be produced in said member upon rotation thereof whereby a retarding effect is exerted resisting rotation of the member, and means operated in response to the rotative movement of said member with respect to the axle when the rate of rotative deceleration of the axle exceeds the rate of rotative deceleration produced on said member by said magnetic means.

2,317,147
CONTROL FOR TICKET PRINTING AND ISSUING MACHINES
Thomas A. Keen, San Mateo, and James Kilburg, Redwood City, Calif., assignors, by direct and mesne assignments, of one-half to Hannah M. Smith, Chicago, Ill., and one-half to said Thomas A. Keen
Original application August 7, 1939, Serial No. 288,840. Divided and this application October 9, 1940, Serial No. 360,392
7 Claims. (Cl. 192—139)



1. Control mechanism for a ticket printing and issuing machine or the like which comprises, a clutch, a lever normally holding said clutch disengaged and pivotable to a position permitting clutch engagement, and a rotatable drum receiving an end of said lever in its clutch engaging position and retaining it in such position, said drum having a notch in its periphery whereby the lever will be released upon rotation of the drum to a point where the notch registers with said lever.

2,317,148
MASONRY CHIPPING MACHINE
Thomas H. Larsen, Washington, D. C.
Application April 13, 1942, Serial No. 438,684
5 Claims. (Cl. 125—7)

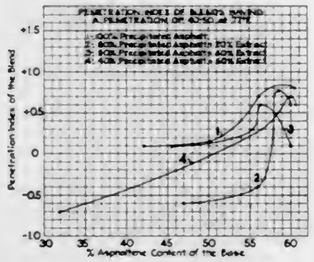


1. A machine of the class described comprising in combination, a frame, a tool carriage mounted on the frame, a plurality of plungers mounted on the carriage and reciprocable therein, a mechanism for operating the plungers, cutting tools secured to the plungers for roughening and keying surfaces struck thereby, means on the plungers and casing for allowing the plungers and tools to rebound resiliently, means for tilting the carriage in the frame for operating the tools in divers planes and directions, a plurality of kickplates mounted on the plungers, and a plurality of hammerheads actuated by said mechanism for striking the kickplates and causing the plungers and tools thereon to reciprocate against surfaces to be roughened and keyed.

2,317,149
MANUFACTURE OF VINYL RESINS
Theodore R. Lemanski, Belleville, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application April 1, 1942, Serial No. 437,225
2 Claims. (Cl. 117—100)

1. In the manufacture of polyvinyl acetate in finely divided form where said polyvinyl acetate is prepared in finely divided form suspended in an aqueous vehicle, the steps comprising coating the particles thereof with sebacic acid before drying them and then drying said particles at an elevated temperature.

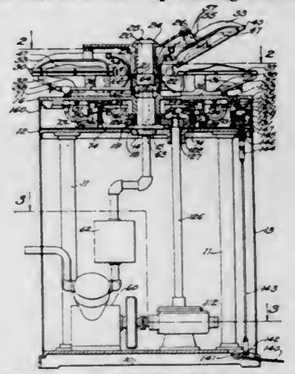
2,317,150
ASPHALT MANUFACTURE
Lawrence L. Lovell and Donald C. Isted, Wood River, and Roman Leo Ortynsky, Alton, Ill., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application May 12, 1941, Serial No. 393,002
10 Claims. (Cl. 196—74)



1. In the process of manufacturing asphalts wherein a precipitated asphalt is oxidized and blended with a flux, the improvement comprising blowing with air as the sole oxidizing agent a precipitated asphalt to produce a blown asphalt having an asphaltene content of 45% to 65%, said precipitated asphalt having an asphaltene content under 20% and a resin content over 40%, and being obtained from a crude oil short residue having a viscosity over 300 S. S. U. at 210° F., and blending said blown asphalt with a flux having a high dispersing power for asphaltenes.

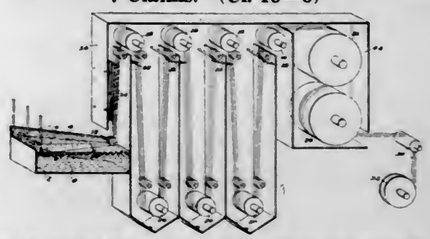
2,317,151
SHOE PRESSING MACHINE
Kenneth W. Macdonald, Watertown, Mass., assignor to Compo Shoe Machinery Corporation, Boston, Mass., a corporation of Delaware
Application January 31, 1942, Serial No. 429,060
8 Claims. (Cl. 12—37)

1. In a shoe pressing machine, the combination comprising a rotatable carrier having a plurality of shoe pressing devices thereon each comprising a shoe receiving box having a last supporting member and a cover hinged thereto, a flexible shoe upper receiving diaphragm attached to said member, a flexible sole engaging diaphragm attached to said cover, said diaphragms contacting around a shoe placed therebetween and forming a flexible shoe enclosing pad when said cover is closed, vacuum producing means common to all of said pressing devices, conduits connecting each of said pads to said vacuum producing means, a valve in each of said conduits movable to positions connecting its associated pad with said vacuum producing means or to the atmosphere, means for driving said carrier to present each pressing device in turn at an operating station, manually controllable means for allowing said driving means to become operative, means for causing said driving means to become inoperative when a pressing device reaches said operating station, means



operable by movement of said carrier for closing the covers of said pressing devices as they move away from said operating station, means operable by movement of said carrier for subsequently moving said valves to connect their associated pads with said vacuum pump, means operable by movement of the carrier for returning said valves to disconnect the pads in said pressing devices from said vacuum pump and to connect them to the atmosphere as they again approach said operating station, and means operable by movement of the carrier for opening said pressing device covers.

2,317,152
APPARATUS AND METHOD FOR THE MANUFACTURE OF ARTIFICIAL FIBERS
Joseph L. Costa, Woonsocket, and William Harlow Kahler, Saylesville, R. I., assignors to Manville Jenckes Corporation, Manville, R. I., a corporation of Delaware
Application April 29, 1940, Serial No. 332,278
7 Claims. (Cl. 18—8)



6. A machine for the continuous production of yarn of regenerated cellulose at a rate in excess of seventy-five yards per minute comprising a coagulating tank provided with spinnerets for the formation of filaments adapted to be gathered into a yarn, a heating unit adapted to produce a gaseous atmosphere of a temperature in excess of 500° C. in the immediate vicinity of said yarn, a plurality of compartments, driven rolls in said compartments adapted to pass said yarn through said

compartments rapidly and continuously in free flights between said rolls, and shower heads in said compartments adapted to direct hot treating liquids into contact with said free flights of yarn.

2,317,153

PROCESS FOR THE ELECTRODEPOSITION OF MANGANESE

Reginald S. Dean, Washington, D. C., assignor to Chicago Development Company, Chicago, Ill.

No Drawing. Application July 14, 1938, Serial No. 219,163

5 Claims. (Cl. 204—105)

5. A process of electrolytically depositing manganese which comprises conducting the electrolysis in a non-diaphragm cell, having an insoluble anode, the electrolyte consisting essentially of an aqueous solution of an alkylolamine and at least about 5 grams of manganese in the form of manganese sulphate per liter and the current density being at least about 2 amperes per square decimeter.

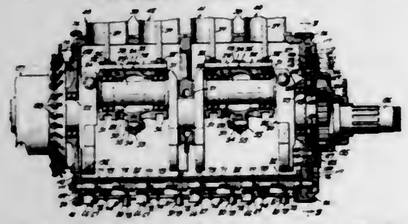
2,317,154

INTERNAL COMBUSTION ENGINE

Walter S. Taber, Honolulu, Territory of Hawaii

Application May 7, 1941, Serial No. 392,353

3 Claims. (Cl. 74—51)



1. In an internal combustion engine, having a crank shaft, a tubular member adapted for rotary mounting on the crank pin of the shaft, a pair of annular axially spaced flanges on the exterior of the said member at each end, the said flanges having aligned bores at circumferentially spaced intervals, a plurality of circumferentially spaced projections on the exterior of the tubular member intermediate its ends, each projection having a bore therethrough axially of the member, and a pivot rod extending through the aligned flange and projection bores with its end portions extending through the bores of the pair of flanges at each end and its center portion extending through the bore of the projection.

2,317,155

POLYMERIC IMINOETHER HYDROHALIDES

Donald Drake Coffman and Frank C. McGrew, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application September 4, 1940, Serial No. 355,413

21 Claims. (Cl. 260—2)

1. Process for preparing polymeric iminoether hydrohalides which comprises reacting, under anhydrous conditions at a temperature below 50° C., a hydrogen halide having a boiling point below —50° C. with a polynitrile free from groups reactive, at the reaction temperature, with the nitrile group and free from groups, other than the nitrile groups, reactive at the reaction temperature with —YH groups, wherein Y is a chalcogen of atomic weight less than 33, and an organic compound having a plurality of —YH groups attached, through different, only singly bonded, hydrogen bearing carbon atoms to an organic radical free from groups reactive, at the reaction temperature, with —YH groups and, apart from the —YH groups, with nitrile groups.

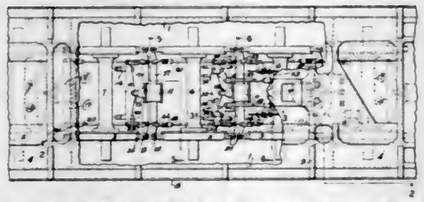
2,317,156

RAILWAY VEHICLE STRUCTURE

James C. Travilla, Jr., Philadelphia, Pa., and Edwin C. Jackson, Clayton, Mo., assignors to General Steel Castings Corporation, Granite City, Ill., a corporation of Delaware

Application March 17, 1941, Serial No. 383,672

6 Claims. (Cl. 188—56)



1. In a railway vehicle, a frame having a series of adjacent rigid axle receiving openings, wheel and axle assemblies journalled in said openings, brake rigging for each assembly comprising hangers supporting brake heads and beams at opposite sides thereof, power means mounted on said frame at one side of the assembly, live truck levers fulcrumed intermediate their ends from the beam at the side of said assembly where said power means is positioned, dead truck levers supported from said frame and fulcrumed from the other of said beams, pull rods connecting the lower ends of the live and dead levers at opposite ends of the assembly, and a cylinder equalizer connected at its mid-point to said power means and at its opposite ends to said live truck levers.

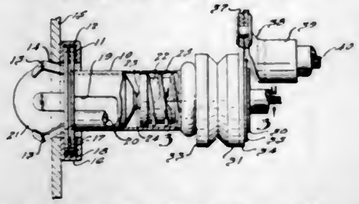
2,317,157

RESISTANCE SOCKET FOR SIGNAL LAMPS

Edmond F. Webb, Franklin Village, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware

Application April 22, 1942, Serial No. 440,059

4 Claims. (Cl. 201—63)



1. A lamp socket and resistance element assembly including a socket portion comprising a sheet metal tubular casing having on one end a lamp bulb receiving opening and means for detachably mounting said assembly on a support, a sleeve extending axially from the opposite end of said casing having a passage communicating with the interior of the latter for accommodating a conductor wire, and a resistance element mounted on and surrounding said sleeve and having an outwardly extending flange on the end thereof remote from said casing, a resistance element mounted on and surrounding said sleeve, and a terminal unit comprising a mounting disc

disposed between said latter flange and said resistance element and having means thereon for connection with a second conductor member.

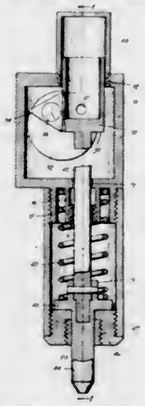
2,317,158

FLEXIBLE SHAFT HAMMER

Miles R. Westover, Alton, Ill.

Application July 9, 1941, Serial No. 401,628

10 Claims. (Cl. 125—33)



1. In a mechanism of the kind described, a rotatable drive shaft, a reciprocable member adapted to be reciprocated by rotation of the drive shaft, and force transmitting means between the two comprising a rotary member on one adapted to engage the other with a surface contact, and the other having a surface thereon to be contacted, said rotary member comprising a rotatable element eccentrically mounted upon the drive shaft and rotatable about an axis eccentric to the drive shaft axis and having a surface adapted to engage with the reciprocating member, said axis being positioned to describe, during the rotation, a circle that intersects the surface to be contacted during some point in the reciprocation of the latter.

2,317,159

WRITING DEVICE

Maurice A. Weil, Providence, R. I., assignor to Rhode Island Laboratories, Inc., West Warwick, R. I., a corporation of Rhode Island

No Drawing. Application October 13, 1941, Serial No. 414,865

2 Claims. (Cl. 250—81)

1. A luminous plastic writing stick, composed of 50 to 100 parts by weight of Japan wax, 25 to 75 parts of ozokerite, 50 to 300 parts of paraffin and 25 to 250 parts of petroleum jelly and a small amount of a luminous sulphide.

2,317,160

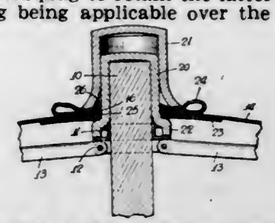
REMOVABLE UMBRELLA COVER

Samuel Weinberg, Elmhurst, N. Y.

Application March 12, 1943, Serial No. 478,864

3 Claims. (Cl. 135—34)

1. An umbrella-recovering device for removable application to an umbrella frame, comprising an element of umbrella-covering fabric provided with a central opening having a reinforced edge, a tubular plug projecting outwardly through said opening and having an enlarged inner end abutting against said reinforced edge, a cup-shaped ferrule snugly fitted over the projecting part of said plug to retain the latter in position, said plug being applicable over the end of the



umbrella stick, and means for securing the cover at its periphery to the ribs of the umbrella frame.

2,317,161

METHOD OF FINISHING GEARS

Winfred A. Witham, East Rochester, N. Y., assignor to Gleason Works, Rochester, N. Y., a corporation of New York

Original application January 28, 1936, Serial No. 61,237, now Patent No. 2,295,148, dated September 8, 1942. Divided and this application October 9, 1940, Serial No. 360,445

16 Claims. (Cl. 90—1.6)



1. The method of finishing one member of a pair of tapered gears which comprises employing a tool of tapered gear form that has the opposite sides of its teeth grooved longitudinally to provide cutting edges which extend longitudinally of the teeth, all of which are inclined to the tops of its teeth on both sides of its teeth and to the lines of contact between said teeth and the tooth surfaces of the gear to be shaved when the tool and gear are rotated in mesh, positioning the tool in engagement with the gear so that the tool and gear axes have the same relative positions as the axes of the gear being finished and of its mate when the pair are in mesh, and rotating the tool in engagement with the gear while effecting a relative depthwise movement between the tool and gear to finish the teeth of the gear to the desired depth.

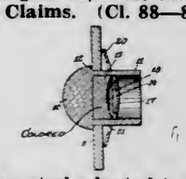
2,317,162

LIGHT REFLECTING STUD

Howard B. Wood, New York, N. Y., assignor to Lumelite Corporation, New York, N. Y., a corporation of New York

Application August 23, 1940, Serial No. 353,831

9 Claims. (Cl. 88—82)



1. A reflecting stud adapted to be positioned in an aperture formed in a panel and comprising a head permitting the passage of light rays therethrough and adapted to be exposed on the front surface of said panel, said head having a circumferential shoulder adapted to be seated on the front face of the panel, a hollow skirt permitting the passage of light rays therethrough and extending from the rear face of said head, and means to permit the passage of light rays imping-

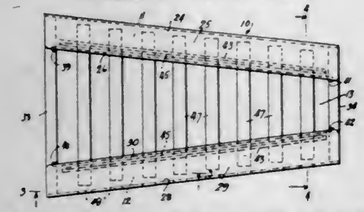
ing on the rear of the stud through the wall of said skirt only and present a ring of light to an observer.

2,317,163
LAMP SOCKET
William R. Young, Fairfield, Conn., assignor to General Electric Company, a corporation of New York
Application May 8, 1942, Serial No. 442,153
3 Claims. (Cl. 173—328)



1. A socket for use with an electric lamp having spaced contact prongs comprising a housing formed of a plurality of laminations made of insulating material, said housing having two spaced parallel slots extending inwardly from an edge of the housing through all the laminations for receiving and guiding contact prongs of a lamp, at least one lamination having a pair of slots and forming together with adjacent laminations two channels, a pair of terminals projecting into said channels, spacing means between another pair of laminations, a pair of contacts located in the space formed between the last mentioned pair of laminations, and means supporting the contacts in said space and electrically connecting them to the respective terminals.

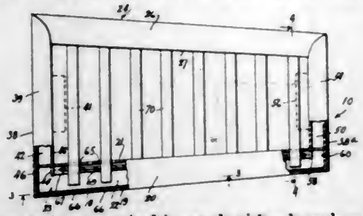
2,317,164
XYLOPHONE
Harry Zimmerman, New York, N. Y.
Application October 7, 1942, Serial No. 461,092
11 Claims. (Cl. 84—403)



1. A xylophone or other similar musical instrument, comprising a pair of spaced apart interconnected tubular housings, said housings each having openings in their inner side walls, the openings in the wall of one housing being opposed to the openings in the wall of the other housing, a cord supported in each housing and extending longitudinally thereof above the bottom of the openings, and a musical member extending through each pair of oppositely disposed openings and resting upon the cords.

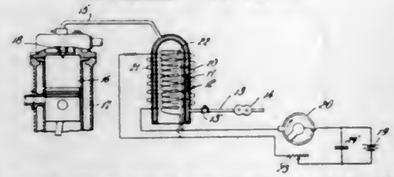
2,317,165
XYLOPHONE
Harry Zimmerman, New York, N. Y.
Application October 7, 1942, Serial No. 461,093
8 Claims. (Cl. 84—403)

1. A xylophone or the like comprising a pair of spaced apart inter-connected hollow housings forming side chambers, a pair of hollow housings between the ends of the first mentioned housings and forming end chambers, the side chambers each having openings in their inner side walls arranged in opposed relation, a vibration-dampen-



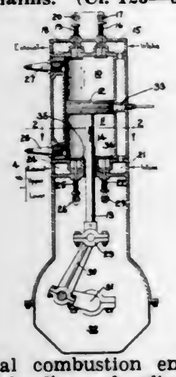
ing element supported in each side chamber above the bottom of the openings therein, and a musical member extending through each pair of oppositely disposed openings and resting upon the vibration-damping elements.

2,317,166
PUMPING DEVICE
Victor R. Abrams, Maplewood, N. J.
Application August 15, 1939, Serial No. 290,195
12 Claims. (Cl. 103—1)



1. A pumping device comprising a casing forming a chamber, means forming an inlet and an outlet for said chamber, valves in said inlet and said outlet permitting fluid to flow into and out of said chamber through said inlet and said outlet, means formed of magneto-strictive material for varying the capacity of said chamber, and a member adapted to be energized to create a varying magnetic field through said means formed of magneto-strictive material to cause said means to expand and contract to vary the capacity of said chamber.

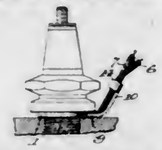
2,317,167
INTERNAL COMBUSTION ENGINE
Bernard M. Baer, Grand Rapids, Mich.
Application February 23, 1942, Serial No. 431,983
3 Claims. (Cl. 123—63)



1. An internal combustion engine having a pair of oppositely disposed cylinders the opposite ends thereof each being provided with an

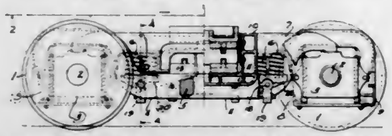
intake and an exhaust valve, a piston having a piston rod alternately oppositely reciprocable within each cylinder and each piston defining a chamber within its cylinder on its opposite sides, the chambers of both cylinders at their like ends each having a piston rod bearing embracing its reciprocable piston rod, and a spark plug for each defined chamber of each cylinder for firing charges of fuel compressed in cycles within each chamber, cycle means for admitting a charge of fuel into one chamber of one cylinder as the products of combustion are exhausted from the other chamber thereof and at the same time firing a charge of fuel in a chamber of the other cylinder as a charge is compressed in the other cylinder, thereafter repeating the remaining three cycles as to both chambers of each cylinder.

2,317,168
THERMOCOUPLE
Arthur Thomas Ball, Jr., Tariffville, Conn.
Application February 6, 1941, Serial No. 377,643
5 Claims. (Cl. 136—4)



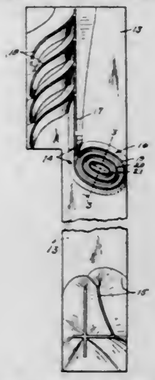
1. A thermocouple comprising a temperature responsive ring having holes extending directly through the ring from its outer to its inner circumference, thermocouple wires having their contact ends fixed in two of said holes close to the inner circumference of the ring, insulation for the wires extending from said contact ends to and beyond the outer circumference of the ring, and a bendable support secured to the wires and having prongs fixed within the two remaining holes in the ring upon opposite sides of the thermocouple wires, said support being bendable with the wires to different positions without disturbing the original position of the wires within the ring.

2,317,169
RAILWAY TRUCK
Harry R. Bartell, University City, Mo., assignor to General Steel Castings Corporation, Granite City, Ill., a corporation of Delaware
Application January 27, 1941, Serial No. 376,021
6 Claims. (Cl. 105—186)



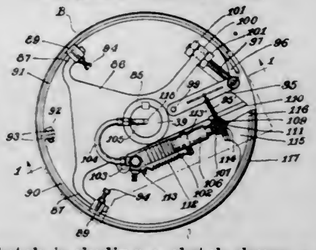
1. In a railway truck, spaced wheeled axles with journal boxes, an equalizing bar structure extending between the boxes on the same side of the truck, a truck frame having wheel pieces and transverse transoms extending between said wheel pieces, a truck bolster between said transoms, rollers carried by said transoms and supporting said bolster for movement of the latter transversely of the truck, upright coil springs on said bar structures at points spaced longitudinally of the truck and supporting said wheel pieces, and leaf springs extending longitudinally of the truck between said coil springs and carried by said bar structures and supporting said wheel pieces at points abreast of said bolster, the intermediate portion of each wheel piece being offset outwardly of the truck from its end portions to accommodate transverse movement of the bolster, and a bracket extending downwardly and inwardly from the offset portion of the wheel piece to clear the bolster, when the latter is moved towards that side of the truck, and resting upon the leaf spring over the longitudinal center line of the bar structure.

2,317,170
TYPEWRITING MACHINE
Ralph J. Bastow, Geneva, and John R. Coburn, Syracuse, N. Y., assignors to L. C. Smith & Corona Typewriters, Inc., Syracuse, N. Y., a corporation of New York
Application July 24, 1941, Serial No. 403,890
12 Claims. (Cl. 197—36)



1. A character type for a typewriting machine comprising a type face including a plurality of nested narrow endless raised portions spaced closely together and graduated in altitude in decreasing order from the innermost to the outermost one of said raised portions.

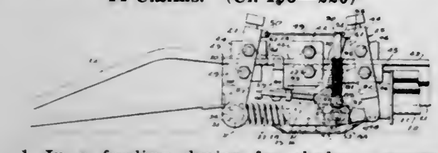
2,317,171
CLUTCH
Ola L. Berby, Duluth, Minn., assignor to Clyde Iron Works, Duluth, Minn., a corporation of Maine
Application March 28, 1940, Serial No. 326,403
3 Claims. (Cl. 192—85)



1. A clutch including a clutch drum, a support concentrically rotatable with respect to said drum, an expandable member supported by said support, a pair of cam races connected to the ends of said expandable member to expand the same when actuated, one of said cam races being relatively wide and the other thereof being relatively narrow, a pair of axially spaced cam rollers engaging said relatively wide cam race, a relatively smaller diameter cam roller coaxial with,

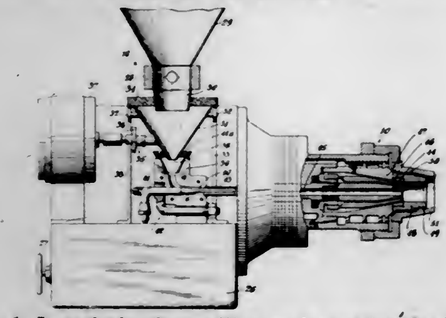
and between, said pair of cam rollers and engageable with said relatively narrow cam race, and means for urging said cam rollers along said cam surfaces to expand said expandable member.

2,317,172
FEEDING MECHANISM FOR SHAKER CONVEYERS
Ernst R. Bergmann, Evergreen Park, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application September 18, 1941, Serial No. 411,386
14 Claims. (Cl. 198—220)



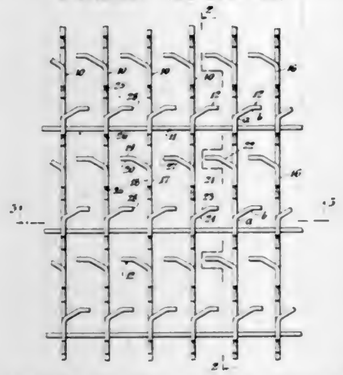
1. In a feeding device for shaker conveyers, two trough sections, one of which is extensible with respect to the other, and means for extending or retracting said extensible trough section with respect to said other trough section including two opposed carrier members connected with one trough section adjacent their lower ends and having gripping means carried thereby and adapted to have gripping engagement with the other trough section, means for urging each of said carrier members to a gripping position, to cause reciprocable movement of one trough section with the other, and selectively operable control means operatively connected with each of said carrier members above their lower ends, for moving either of said carrier members to a released position, to permit said other carrier member to cause movement of said extensible trough section relative to said other trough section.

2,317,173
APPARATUS FOR MELTING POWDERED MATERIALS
Purling A. Bleakley, Toledo, Ohio, assignor to The Bleakley Corporation, Toledo, Ohio, a corporation of Delaware
Application February 1, 1940, Serial No. 316,725
4 Claims. (Cl. 91—12.2)



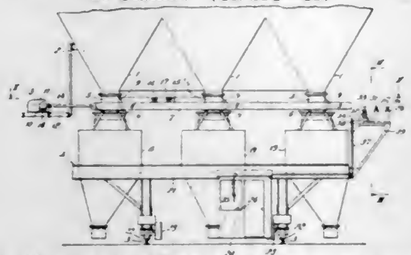
1. In a device for melting and spraying finely divided non-metallic substances the combination of a base member; a carriage supporting said base member for pivotal movement; a gun for melting and spraying pulverulent material mounted on said base member, said gun comprising a nozzle having a passageway for said granular material, a second nozzle substantially concentric with said passageway for delivering fuel gas, and a third nozzle concentric with said second nozzle for delivering additional combustion supporting gas having a portion projecting beyond the end of the first mentioned nozzle and forming a combustion chamber for the fuel gas in which said material is melted, means supported on said base member for receiving said granular material, and an aspirator for withdrawing said material from said receiving means and blowing the material through said passageway.

2,317,174
GRATING STRUCTURE
Herbert H. Bunker, Jersey City, N. J., assignor to Kerlow Steel Flooring Company, Jersey City, N. J., a corporation of New Jersey
Application February 28, 1941, Serial No. 381,014
3 Claims. (Cl. 189—82)



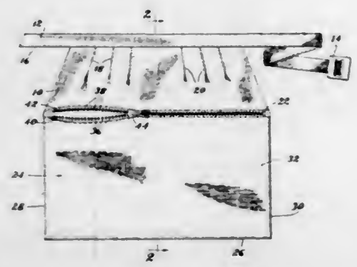
1. A grating structure formed of intersecting and joined girder bars and cross-bars, said girder bars having laterally extending offsets spaced at intervals along the girder bars and extending upwardly above the plane of the upper edges of the girder bars to form an undulating floor surface for the grating structure, said offsets being bent out from the girder bars on substantially vertical lines of fold.

2,317,175
GATE OPERATING CONTROL
Theodore A. Burdick, Flushing, N. Y., assignor to Semet-Solvay Engineering Corporation, New York, N. Y., a corporation of New York
Application August 2, 1940, Serial No. 349,851
10 Claims. (Cl. 214—41)



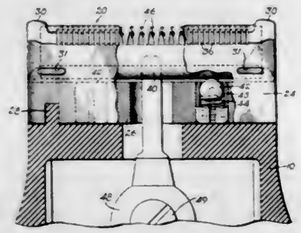
1. Material handling apparatus comprising a material delivery hopper having a discharge orifice, a movable receptacle for receiving discharged material, means for moving said receptacle, means to open and close the discharge orifice when the receptacle is in receiving position, control means to effect closing of the orifice when the receptacle is moved from receiving position, and means to prevent operation of the receptacle moving means while the discharge orifice is open.

2,317,176
CONTAINER BAG AND OUTER GARMENT
Marie A. Byrd, Boston, Mass.
Application May 14, 1941, Serial No. 393,360
1 Claim. (Cl. 2—48)



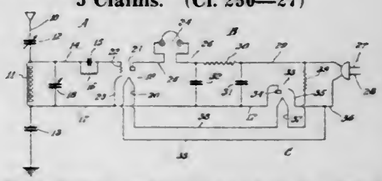
As an article of manufacture, a combined garment and bag comprising a skirt portion of substantially rectangular formation and formed of a length of fabric turned over intermediate its ends and sewn together at its edges to form a bag having front and rear flaps free of each other between said sewn edges and presenting an access opening at the upper edge of the bag, a waist protector portion formed of a piece of fabric attached to said rear flap and extending a substantial distance above said skirt portion, means on said waist protector portion for securing same about the waist of a wearer, said waist portion and means being insertible in said bag portion, and means for closing said access opening with or without said waist portion and means therein.

2,317,177
DRY SHAVER
Louis C. Carissimi, Fairfield, Conn., assignor to Remington Rand Inc., Buffalo, N. Y.
Application August 3, 1940, Serial No. 350,327
20 Claims. (Cl. 30—43)



16. In a dry shaving head of the type comprising an outer member having a curved shearing portion and a relatively movable inner member having shearing elements formed by slots extending at an oblique angle across the shearing portion of the outer member, the combination of a plurality of shearing elements formed by rows of rectangular perforations in the shearing portion of said outer member, the perforations in each row being offset longitudinally with relation to the perforations in the other rows to align transversely with the oblique angle of the shearing elements of said inner member, and a plurality of combing and shearing bars formed by rows of slots extending from the shearing portion into the adjacent side portions of said outer member.

2,317,178
ELECTRONIC CIRCUITS
Harry G. Cisin, Brooklyn, N. Y.
Original application April 26, 1938, Serial No. 204,359, now Patent No. 2,251,114, dated July 29, 1941. Divided and this application November 10, 1939, Serial No. 303,733
5 Claims. (Cl. 250—27)

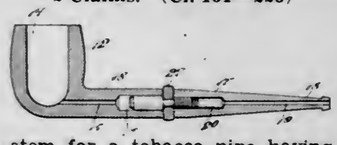


1. In a device of the character described, the combination with an amplifying unit embodying an output, an input, a thermionic vacuum tube, and a return line, of a filter, connections between said filter and said amplifying unit, means connecting said filter with one terminal of a source of either alternating or direct current, an electronic rectifying unit having an anode and a cathode, connections between said anode and said amplifying unit through said return line, connections between said cathode and the other terminal of said source, whereby said cathode is isolated from said return line and is maintained substantially at ground potential, and the potential impressed upon said anode substantially equals the voltage drop across said rectifying unit, means for energizing said rectifying unit, and connections including said means between one side of the source and said filter, and between the other side of the source and the cathode of said rectifying unit, whereby said energizing means is maintained at a potential below that of the current at the source.

2,317,179
ZINC ALLOY
John R. Daesen, Oak Park, Ill.
No Drawing. Application September 18, 1940, Serial No. 357,313
15 Claims. (Cl. 148—11.5)

1. A zinc alloy containing copper from 2 to 5%, and from .02 to .50% of at least one of the group of grain refining high melting point elements consisting of beryllium, zirconium, titanium, vanadium, chromium, columbium, molybdenum, tantalum, tungsten and uranium, the remainder being substantially all zinc.

2,317,180
PIPESTEM
Armand Daignault and Alfred Nolet, Fall River, Mass.
Application November 28, 1941, Serial No. 420,830
2 Claims. (Cl. 131—225)



1. A stem for a tobacco pipe having a bore therein, wherein said stem has a central axial bore therethrough, said stem bore being threaded at one end, a tubular member having a shoulder thereon intermediate the ends and threads on said member extending from said shoulder to one end thereof and engaging the threads on the stem, a washer freely rotatably and slidably

mounted on said tubular member on the side of said shoulder opposite from the threaded portion and adapted to abut said shoulder, a diametrically expansible sleeve on the same side of the shoulder and adapted to engage the device bore and extending along said tubular member and engageable by said washer, and means at the opposite end portion of said member responsive to movement toward the washer for expanding the diameter of said sleeve whereby holding of the member stationary by the engagement of the washer with the sleeve or member and rotating the stem relative to the member will cause lateral expansion of the sleeve to maintain the stem in fixed relation to the bore of the device.

2,317,181

UREA - FORMALDEHYDE - TRIETHANOLAMINE HYDROCHLORIDE CONDENSATION PRODUCT

Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

No Drawing. Application August 9, 1939, Serial No. 289,280

3 Claims. (Cl. 260—70)

1. A heat-hardenable molding composition comprising a filler and a heat-hardenable resinous condensation product of ingredients comprising the following components in the stated molar ratios: 1 mole urea, from 1½ to 2½ moles formaldehyde and not exceeding substantially ¼ mole triethanolamine hydrochloride, said molding composition curing rapidly at molding temperature and having more plasticity during molding than a similar composition wherein an equivalent molar amount of mono- or di-ethanolamine hydrochloride is used in the preparation of the resinous condensation product but which otherwise is the same.

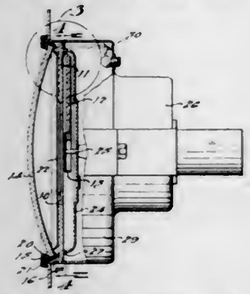
2,317,182

INDICATING INSTRUMENT

John B. Dickson, Highland Park, and Thomas L. Holbrook, Detroit, Mich., assignors to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware

Application January 16, 1941, Serial No. 374,658

11 Claims. (Cl. 240—2.1)



1. An indicating instrument comprising a transparent dial including an indicia bearing portion, a cup-shaped member having said dial placed across the open end thereof, a source of light within said cup-shaped member, a backing member behind said dial and having its edge close to but spaced from the periphery of said dial so as to prevent direct illumination of the rear surface of all but a peripheral portion thereof, a prismatic extension on the front surface of said dial adjacent said peripheral portion, the apex of said extension projecting forwardly beyond the front surface of said indicia bearing portion, said extension comprising a reflecting surface so arranged as to transmit light through the plane of said dial toward the central portion thereof and a second surface so arranged as to transmit light externally of said dial, a movable pointer arranged to travel across a surface of said dial and to be illuminated by light transmitted from said second surface, and a positioning member for said dial having a groove receiving the apex of said extension.

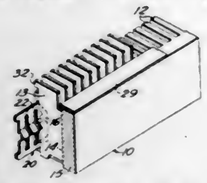
2,317,183

TYPEWRITING MACHINE

William A. Dobson, Wethersfield, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware

Application December 10, 1940, Serial No. 369,467

1 Claim. (Cl. 197—70)



In a typewriter carriage stop mechanism, a rack bar of channel form having the flanges thereof transversely slotted to present matching rows of comb teeth for slidably mounting a plurality of stops, each flange having a groove disposed longitudinally of the bar, an elongate resilient stop-detenting strip straddling the bar channel with its longitudinal edges retained in the flange grooves, the flange grooves being open at at least one end of the bar to facilitate assembly, and means at said bar end for releasably obstructing endwise withdrawal of the detenting strip.

2,317,184

PHOTOGRAPHIC MATERIAL AND PROCESS OF MANUFACTURING SAME

Paul Dreyfuss, Brussels-Forest, Belgium, assignor, by mesne assignments, to Chromogen, Incorporated, a corporation of Nevada

No Drawing. Application October 3, 1939, Serial No. 297,770. In Great Britain October 13, 1938

19 Claims. (Cl. 95—6)

1. The process for the manufacture of a colloid layer for photographic purposes, said process comprising the incorporation into said colloid layer of at least one photographically adaptable soluble acid substance and of a precipitant for said acid substance, said precipitant being a polymeric condensation product obtained from a formaldehyde compound, from dicyandiamide and from a compound selected from the group consisting of inorganic nitrogenous bases, aliphatic nitrogenous bases, cyclic nitrogenous bases, and salts of such bases.

2,317,185

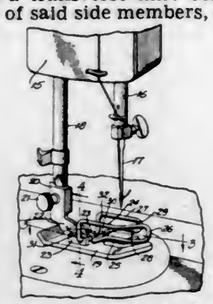
SEWING MACHINE NEEDLE GUARD

Marshall N. Dunlap and Grant Fortney, Chicago, Ill.

Application April 10, 1940, Serial No. 328,820

6 Claims. (Cl. 112—261)

1. A needle guard for sewing machines of the type having a pivoted presser foot, made from a single length of wire bent to form skeleton side members disposed respectively on opposite sides of the needle, a transverse limb connecting the lower portions of said side members, and a transverse pivot extending between said side members in rear of said transverse limb and adapted to replace the pivot pin of the presser foot.



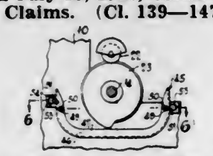
2,317,186

GREASE GUARD FOR LOOMS

William H. Fowler, East Marion, N. C.

Application July 16, 1942, Serial No. 451,147

2 Claims. (Cl. 139—147)



1. In combination with a loom frame having a cam shaft and a pick cam on said shaft, a grease guard disposed below said cam, said guard being U-shaped when looking at the face of said cam and also being U-shaped in cross section, horizontally projecting pins extending from said frame for removably supporting said guard, and spring means for releasably holding said guard on said pins.

2,317,187

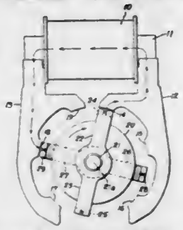
DYNAMOELECTRIC MACHINE

Leonard Griffiths, Coventry, England, assignor to General Electric Company, a corporation of New York

Application August 14, 1941, Serial No. 406,761

In Great Britain January 14, 1941

7 Claims. (Cl. 171—209)



5. A dynamo-electric machine including a coil member and a core member magnetically coupled therewith, said core member having spaced apart pole faces arranged on each side of said coil, and a magnet having a plurality of spaced apart pole pieces adapted to cooperate magnetically with said pole faces upon relative rotation therebetween, said pole faces having a pole pitch substantially two-thirds of the pitch of said pole pieces and said pole faces on one side of said coil being arranged substantially an odd number of thirds of the pitch of said pole pieces from pole faces on the other side of said coil such that the number of flux reversals through said coil for each revolution being equal to three times the number of pole pieces and twice the number of pole faces.

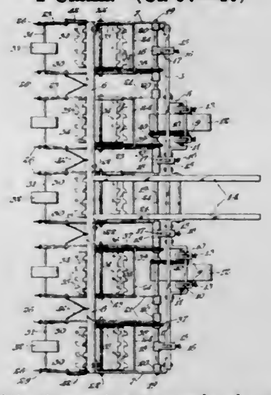
2,317,188

CULTIVATOR

Carl Chris Hanson, Albert Lea, Minn.

Application August 3, 1940, Serial No. 350,756

1 Claim. (Cl. 97—40)



In a cultivator, a transversely elongated frame having a front cross member and a spaced rear cross member, a pair of frame supporting wheels mounted for vertical adjustment on said front cross member, a transverse drive shaft extending across said frame and vertically adjustable thereon, a drive connection between one of said wheels and said drive shaft, a plurality of transversely spaced cultivator members pivotally connected to said shaft and having rotary portions with drive connections to said drive shaft, a plurality of guard plates beside said cultivator members and also pivotally connected to said shaft, ground engaging wheels for supporting said cultivator members, said wheels being rotatably connected with said guard plates, and flexible movement limiting means connected between said rear frame member and said guard plates.

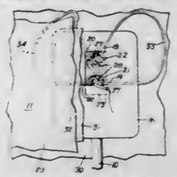
2,317,189

WIRING DEVICE

Myron G. Heiser, Cedar Grove, N. J., and John M. von Bergen, Bridgeport, and William A. Bogg, Fairfield, Conn., assignors to General Electric Company, a corporation of New York

Application January 9, 1942, Serial No. 426,210

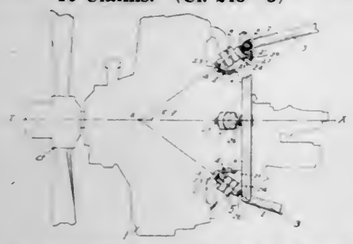
9 Claims. (Cl. 219—46)



1. In combination, a wired fabric including two layers of fabric and a pair of flexible conductors, means for supplying power to said conductors comprising a second pair of conductors, a strain relief comprising a body of resilient insulating material including flexible flange portions extending from at least two sides of said body, said body being positioned between the layers of said

fabric, means extending through said fabric and said flanges for securing said body in fixed relation to said fabric, said body being shaped to provide a recess therein, the ends of both said pairs of conductors extending into said recess with each conductor of one pair being electrically connected with a different conductor of the other pair, and means for closing said recess and maintaining the ends of said conductors in spaced insulated relation.

2,317,190
MOUNTING
Richard C. Henshaw, Erie, Pa., assignor to Lord Manufacturing Company, Erie, Pa., a corporation of Pennsylvania
Application October 5, 1940, Serial No. 359,916
10 Claims. (Cl. 248—5)

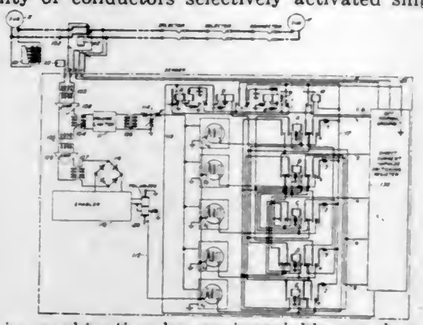


1. In a mounting assembly, a vibratory body having induced torsional vibrations and vibrations transverse thereto, a mounting means attached thereto for supporting the body comprising a series of mounting units arranged about the axis, members having opposing faces and a resilient element secured between and to the faces and having portions subjected to shear with an edgewise movement of the members, the face contours having variations varying the shear fredom of the element between the members, the contour variations making the resistance of the element in one edgewise direction of movement of the members greater than the resistance to the movement in another edgewise direction, the contour variations being disposed with relation to each other to make the torsional resistance greater than the resistance to vibrations transverse to the torsional vibrations.

4. A mounting comprising members having opposing spherical faces and a resilient element secured between and to the faces and having portions subjected to shear with an edgewise rocking movement of the members, the face contours having variations varying the shear freedom of the element between the members, the contour variations placing the major portion of the element in unobstructed free shear relation in one edge direction and making the resistance of the element in one edgewise direction of movement of the members greater than the resistance to movement in another edgewise direction.

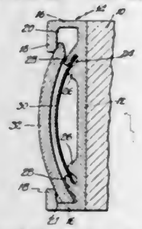
2,317,191
TELEPHONE SYSTEM
Bernard D. Holbrook, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application January 24, 1941, Serial No. 375,713
10 Claims. (Cl. 179—18)

1. In a telephone system, a sender therefor which is adapted for the registration of wanted designations, comprising a plurality of channel detectors each adapted to pass a specific frequency therethrough of a plural frequency pulse designating a digit or character, a relay in each channel detector responsive to the frequency passed through said channel detector, and a plurality of conductors selectively activated singly



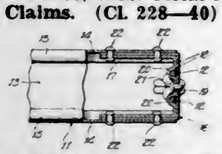
or in combination by an invariable number of said relays when operated, to indicate the digit or character designated by the number of frequencies in said plural frequency pulse.

2,317,192
PRICE TICKET MOLDING
Leo Hopp, New York, N. Y.
Application September 18, 1941, Serial No. 411,334
3 Claims. (Cl. 40—16)



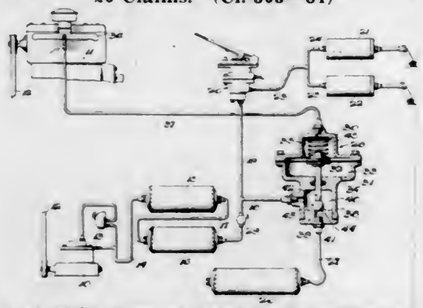
1. A molding of the type described comprising in combination, a main body portion of elongated form, a retaining flange extending along each side edge of the body portion, a pair of spaced price ticket retaining grooves extending longitudinally of the body portion, each of said grooves being spaced with respect to its respective retaining flange, and a transparent price ticket protector carried by the retaining flanges, said price ticket protector being of arcuate cross-sectional form and of a transverse dimension to permit of one of its side edges to be positioned behind each of said retaining flanges and yet be retained in position thereby, and means for securing the price ticket protector against removal from the molding.

2,317,193
CHAIN LADDER
Harold P. Hopp, Englewood, N. J., and Edward Kunzelman, Mount Vernon, N. Y., assignors to H. K. Metal Craft Manufacturing Co., New York, N. Y.
Application June 26, 1942. Serial No. 448,550
6 Claims. (Cl. 228—40)



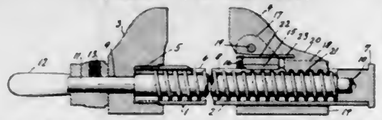
1. In a chain ladder in combination, a rung or step of inverted channel form and stiles in the form of link chains, and means for securing each end of the rung or step to its respective stile, said securing means comprising a pair of nested U-shaped clips for clamping one of the links of the stile, means for securing the clips in their link clamping position, and means for securing the clips to the side walls of the rung or step.

2,317,194
BRAKE MECHANISM
Homer D. Humphrey, Pittsburgh, Pa., assignor to Bendix-Westinghouse Automotive Air Brake Company, Pittsburgh, Pa., a corporation of Delaware
Application March 24, 1941, Serial No. 384,970
20 Claims. (Cl. 303—84)



1. A fluid pressure system comprising an engine, a fluid compressor driven by said engine, a plurality of reservoirs for receiving fluid pressure from said compressor, and means for preventing the flow of fluid pressure from one of said reservoirs when the engine is rendered inoperative.

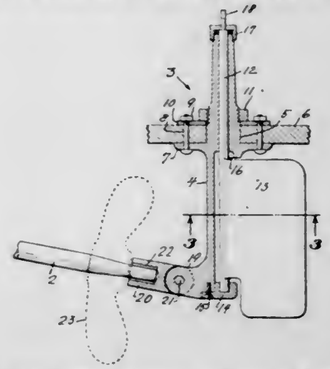
2,317,195
CLAMP
George Eddie Husted, San Francisco, Calif.
Application January 24, 1941, Serial No. 375,738
1 Claim. (Cl. 144—303)



In a clamp of the character described, a jaw mounting for a tube having a narrow, elongated slot in the upper surface thereof and having a screw mounted therein, the jaw mounting comprising a sleeve slidable on the tube and bearing on the surface of the latter to the edges of the slot for holding the sleeve against tilting movement and for insuring a smooth riding fit, a pair of ears projecting from the front section of the sleeve on opposite sides of the slot, a jaw member having pivotal support between the ears and having a rear extension adapted to be received in the slot with a threaded portion adapted for engagement with the screw, the jaw member having a notch where the rear extension joins the front section, and a leaf spring having one end secured upon the sleeve between the ears and extending into the notch for urging said threaded portion into engagement with the screw.

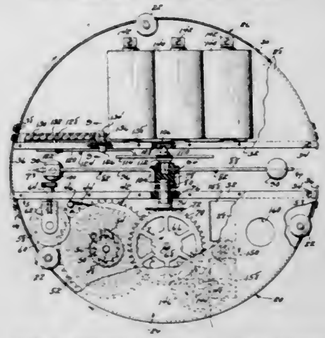
2,317,196
COMBINATION STRUT
George Eddie Husted, San Francisco, Calif.
Application May 19, 1941, Serial No. 394,076
3 Claims. (Cl. 114—169)

1. A combination rudder and propeller strut for the keel of a boat having a hole therein, comprising a sleeve mounted vertically in said hole substantially midway of its length so as to present an upper portion above the keel and a lower portion below the keel, a flange on the sleeve positioned to bear against the bottom of the keel, a plate superimposed on the keel in registering relation to the flange, means for clamping the plate and the flange upon the keel, the upper portion of the sleeve having a bore dimensioned to form a bearing for the upper end of a rudder



shaft, the lower portion of the sleeve having an enlarged bore to receive the lower end of the rudder shaft and having a portion cut away to provide space for the rudder blade to pass therethrough with freedom of sidewise swinging movement, a removable bearing plate at the bottom of the sleeve to support the lower end of the shaft, an ear projecting forward from the lower end of the sleeve and opposite the bearing plate, and an end bearing member for a propeller shaft pivoted to the ear.

2,317,197
EYE EXERCISER
Arthur E. Jacobson, Alexandria, Minn.
Application August 14, 1942, Serial No. 454,847
12 Claims. (Cl. 128—76.5)



1. An eye exercising device comprising a circular track, a rotor guided by the track and having a rotary driving means arranged in tractive engagement with said track, a motor carried by said rotor, a driving connection between the motor and said means, lamps, a support for said lamps mounted for rotation on said rotor about an axis at right angles to the axis of rotation of the rotor, a driving connection between the motor and said support, an electric circuit connected with said lamps, and a switch means connected

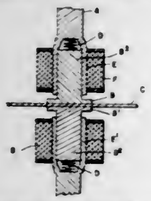
in the circuit and carried by said rotor and actuated through rotation of said support for intermittently energizing the lamps.

2,317,198
SHEET METAL FORMING EQUIPMENT
Cass S. Kasper, Detroit, Mich., assignor to The Midland Steel Products Company, Cleveland, Ohio, a corporation of Ohio
Application February 23, 1940, Serial No. 320,349
12 Claims. (Cl. 113—33)



1. A sheet metal former comprising a press having a slide and a bed having complementary dies, one on the slide and the other on the bed, a pair of aligned, opposed reciprocatory mandrels mounted on opposite ends of the bed, and means connected with the slide for moving said mandrels in unison in opposite directions to project them into the work upon descent of the slide, said means being yieldable after predetermined movement of the mandrels whereby said mandrels remain stationary during bottoming of the dies.

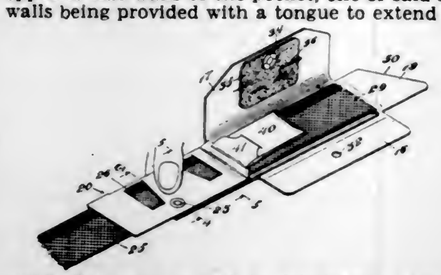
2,317,199
ELECTROMAGNETIC SOUND RECORDER
Harry M. Kirschbaum, Detroit, Mich.
Application April 21, 1941, Serial No. 389,693
2 Claims. (Cl. 179—100.2)



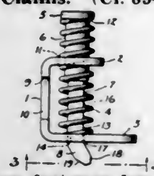
1. An electromagnetic sound recorder comprising a tape of magnetizable material, pole members having unlike poles on directly opposite sides of said tape and in axial alignment with each other, a loop core member having axially aligned tubular portions at its opposite ends for receiving said pole members and together therewith and the intermediate tape forming a single substantially closed magnetic circuit, and an energizing coil surrounding one of said tubular portions adapted to be supplied with an undulatory current corresponding to the sound to be recorded.

2,317,200
SEWING CASE
Robert C. Kinney, Malden, Mass.
Application February 13, 1941, Serial No. 378,784
10 Claims. (Cl. 223—107)

1. A sewing case comprising a body portion, flaps on opposite sides of the body to fold toward each other with one overlying the other, and a yarn-holding pocket extending at one end of the body foldable over the inner surface of the body and beneath said flaps, said pocket being formed by doubling sheet material upon itself and with the free edges secured to each other to provide opposite side walls of the pocket, one of said side walls being provided with a tongue to extend beneath the yarn to aid in frictionally holding said yarn in said pocket.



2,317,201
FASTENER
Carl J. Koenig, Kenmore, N. Y., assignor of one-third to Paul O. Mix, Cleveland, Ohio, and one-third to Clarence Hanks, Euclid, Ohio
Application May 25, 1942, Serial No. 444,317
6 Claims. (Cl. 85—5)

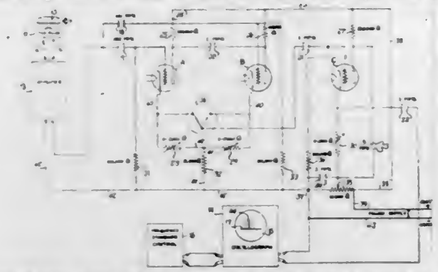


1. A temporary fastener for bringing holes in superimposed plates into substantially concentric registration with each other, comprising in combination, a substantially J-shaped support, a guide flange part of said support, a foot flange part of said support, a web part of said support connecting said guide flange with said foot flange, a tool land on said web, a plunger mounted in said support and extending thru apertures in said guide flange and said foot flange parts thereof, a cap part of said plunger forming the upper extremity thereof and providing a tool land on the top thereof, a rod part of said plunger depending from said plunger cap, a pin part of said plunger depending from said rod, a stub part of said plunger pin in angular relation therewith and extending from the lower end thereof, a spiral spring disposed in the plunger rod housing aperture in said support guide flange and having its axis substantially parallel with the plane of said support web part, an upper spring seat disposed on the under side of said plunger cap, a lower spring seat disposed on the upper side of said support foot flange and outwardly of the plunger housing orifice therein and said spring yieldingly normally maintaining said plunger upwardly of said support, and an inner elbow curve at the junction of said plunger pin and stub and engaging the edge of the orifice in said support foot flange for arresting the upwardly directed motion of said plunger under the force of said spring.

2,317,202
APPARATUS FOR TIMING IMPULSES
Walter Kohlhagen, Elgin, Ill., assignor to Waterbury Clock Company, Waterbury, Conn., a corporation of Connecticut
Application February 21, 1940, Serial No. 320,048
15 Claims. (Cl. 73—52)

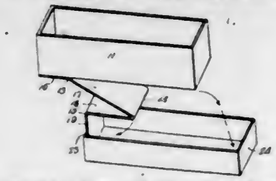
1. An apparatus for timing impulses including in combination: an electrical pick-up device

constructed and arranged to respond to each beat of a timpiece-unit; an indicator; an electrical circuit interconnecting the said electrical pick-up device and the said indicator; a pair of interacting electronic-discharge gas tubes both connected by the said electric circuit to the said pickup-device for activation thereby; means



causing the said pair of electronic-discharge tubes to assume an out-of-phase relationship with respect to each other and causing one thereof to act as a snuffer for the other; and a third electronic-discharge gas-tube connected to the said electric circuit and in position to be actuated by one of the said pair of tubes and to actuate the said indicator.

2,317,203
DISPLAY BOX
Maurice Kurhan, Brookline, Mass.
Application April 15, 1941, Serial No. 388,587
2 Claims. (Cl. 206—44)



1. A display box of the character described, comprising a box body, a cover telescoping thereon, and a hinge member interconnecting the box and its cover, the hinge member consisting of a plurality of relatively foldable, substantially rigid sections, one endmost section being attached to the box bottom and the other endmost section being attached to an end wall of the cover, so that the hinge member is disposed against the bottom and one end wall of the closed box, an intermediate section of said hinge member being foldable upon itself and movable to bracing position to support the box in its display position, with the fold of said intermediate section engaging the inside of the inverted cover and with one end of the box body resting in the inverted cover.

2,317,204
PICTURE HANGER
Fred Lowenthal, Brooklyn, N. Y.
Application November 11, 1942, Serial No. 465,223
4 Claims. (Cl. 248—29)

3. An article of the character described comprising, a picture frame backing sheet provided with a slot extending inwardly from one of its edges, said slot being of inverted T-shape and having a vertical and a horizontal portion, the vertical portion of the slot opening at the edge of the backing sheet, a suspension member of strip form having head portions at its opposite ends disposed on opposite faces of the backing sheet, said heads being connected by an integral neck portion slidable through the horizontal portion of the slot and having its withdrawal out of the



slot prevented by the heads, the head on the outer face of the backing constituting a suspension element.

2,317,205
METHOD OF WORKING METALS
Rudolf Lowit, Auburn, Maine, assignor to Callite Tungsten Corporation, Union City, N. J., a corporation of Delaware
No Drawing. Application March 6, 1940, Serial No. 322,574
12 Claims. (Cl. 117—49)

1. The process of coating a metal of the group consisting of molybdenum, tungsten, chromium, nickel, iron, cobalt, tantalum and manganese, and their alloys, with carbon which comprises treating the metal with a solution containing potassium permanganate and applying the carbon onto the treated surface.

2,317,206
EDUCATIONAL TOY
Sidney H. Major, Storm Lake, Iowa
Application May 19, 1941, Serial No. 394,195
2 Claims. (Cl. 35—31)



1. An educational toy comprising an elongated holder open at its ends and having a flat wall extending throughout its length, a plurality of sets of cards of predetermined different lengths, the cards of each set being readily distinguishable from cards of the other sets, selected cards of certain of said sets being removably fitted into said holder from one end thereof in edge to edge engagement with each other and covering the surface of said wall for a predetermined distance from the said end of the holder, said cards bearing indicia cooperating to form an arithmetical problem to be solved, and a single card from another set removably fitted into the holder and being of a length adapting it to exactly cover the remaining uncovered portion of the surface of the wall and bearing indicia representing the answer to the problem, the last mentioned card having its outer end edge terminating in registry with the adjacent end edge of the holder, and the outermost one of the first mentioned cards having its outer end edge in registry with the adjacent end edge of the holder.

2,317,207
COMBINATION HAIR AND HAT FASTENER
Mildred Marck, San Diego, Calif.
Application November 19, 1941, Serial No. 419,771
6 Claims. (Cl. 132—65)

5. A combination hair and hat fastener formed of a single piece of resilient material folded upon itself intermediate its ends to form opposing

members, one forming a clamping member and the other a fastening pin, a resilient loop formed at the point of folding a said resilient material from which loop said opposing members extend parallel with each other, both of said members being curved and their opposite ends being free, the free end of the fastening pin being tapered



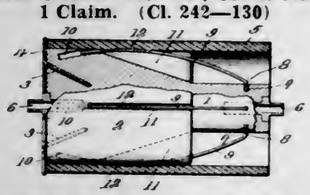
to form a sharp point bent outwardly from the clasping member, said fastening pin being bent intermediate its extremities to form a saddle adapted to seat itself in the fabric of the hat, and the clasping member being disposed in relation to the fastening pin so that the greater part of its area will press the hair against the fabric of the hat.

2,317,208

SELF-LOCKING ARBOR FOR SUPPORTING TUBES FORMING HEADLESS SPOOLS OR THE LIKE

George B. Markle, Jr., Hazleton, Pa., assignor to Freeland Spool and Bobbin Corp., Hazleton, Pa., a corporation of Pennsylvania

Application October 29, 1941, Serial No. 417,028
1 Claim. (Cl. 242—130)



As a new article of manufacture, a wooden arbor comprising a wooden barrel having an enlarged portion at one end for supporting a spool, a disc secured to the end of the enlarged portion forming a stop for the spool when placed thereon, gudgeons secured in the ends of the barrel, the enlarged portion being provided with longitudinal slots terminating in obliquely arranged inwardly extending bores the small portion of said barrel being provided with radial bores, bowed spring wires having angle, ends mounted in the radial bores working in the slots and having therein ends slidably mounted in the oblique bores presenting inclined faces to facilitate the placing of the spool thereon the wires being provided with serrated portions for engaging a spool or the like.

2,317,209

IMPREGNATED FIBROUS MATERIALS

Wilbert B. McCluer, Ralph W. Hufferd, and Frank J. Philippbar, Bradford, Pa., assignors to Kendall Refining Company, Bradford, Pa., a corporation of Pennsylvania

No Drawing. Application August 3, 1940, Serial No. 351,180
6 Claims. (Cl. 117—158)

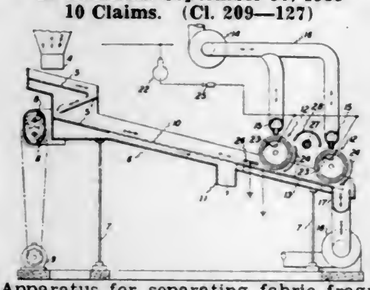
1. A composition of matter comprising fibrous material impregnated with a chemical condensation product derived from a high molecular weight viscous material which has been precipitated from a warm solution of a paraffin base oil residuum in a normally gaseous hydrocarbon solvent having from two to four carbon atoms, said precipitated viscous material comprising a natural chemically unmodified constituent of said paraffin base oil residuum.

2,317,210

METHOD AND APPARATUS FOR SEPARATING TEXTILE MATERIAL FROM RUBBER

Thomas Jerome Masse, Alexandria, near Sydney, New South Wales, Australia

Application August 22, 1940, Serial No. 353,780
In Australia September 30, 1939
10 Claims. (Cl. 209—127)



1. Apparatus for separating fabric fragments from rubber fragments comprising a flat repelling electrode, at least one rotatable collector electrode which is positioned above said repelling electrode and which consists of a cylindrical metal core and a wrapping of dielectric material on said core, means for establishing a high tension unidirectional electrostatic field between said electrodes, means for passing a mixture of fabric fragments and rubber fragments on said repelling electrode into said field, and a felt encasement which externally covers said wrapping and inhibits the acquisition by fabric fragments attracted to said collector electrode of an electric charge of the same polarity as that of said collector electrode.

2,317,211

METHOD OF HARDENING CYLINDERS, PUMP LINERS, AND THE LIKE

Tom Holland Nelson, Villanova, Pa., assignor to Harrisburg Steel Corporation, Harrisburg, Pa., a corporation

No Drawing. Application March 3, 1939, Serial No. 259,680
2 Claims. (Cl. 148—21.5)

1. The method of hardening steel and testing the same for depth of hardness which consists in hardening the piece of steel at a surface thereof, providing a cross section of the piece of steel substantially normal to the hardened surface and tempering the steel at this cross section so that the same will develop at said cross section one color throughout the portion of greatest hardness and a contrasting color throughout the remaining portion at said cross section.

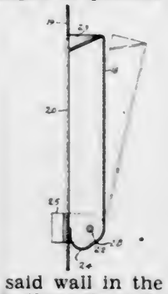
2,317,212

FOOD STORAGE RECEPTACLE FOR REFRIGERATORS

Delbert F. Newman, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application April 24, 1940, Serial No. 331,443
4 Claims. (Cl. 220—35)

1. A food storage receptacle for use in refrigerator cabinets or the like, a wall of said receptacle being provided with an opening, a closure member for said opening, means adjacent said opening for pivotally supporting said closure member on said wall, said member having a laterally extending marginal flange engaging said wall adjacent said opening in the closed position of said member, said flange adjacent said supporting means having an arcuately extending portion at the free edge thereof, said arcuate portion being arranged to provide continuous en-



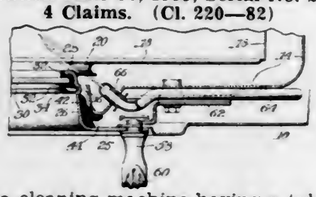
gagement with said wall in the vicinity of said supporting means throughout the range of movement of said closure member, and means associated with said receptacle and said closure member for urging said arcuate portion into engagement with said wall, said urging means acting along a line extending through said pivotal support and the area of engagement between said arcuate portion and said wall so that said closure member will remain in any desired position within said range of movement.

2,317,213

CLEANING MACHINE

Wallace F. Oliver, South Bend, Ind., assignor to Bendix Home Appliances, Inc., South Bend, Ind., a corporation of Delaware

Application June 30, 1939, Serial No. 282,108
4 Claims. (Cl. 220—82)



1. In a cleaning machine having a tub formed with an opening therein, the combination of a door pivoted adjacent said opening to close the same, said door comprising an annular ring having a flanged portion at its inner edge, a circular sheet of transparent material fitting in said flanged portion, an annular sealing ring having a groove therein receiving the edge of said sheet and engaging said flanged portion, and a sheet metal ring of curved cross-section engaging the annular ring and the sealing ring at spaced points and resiliently pressing the sealing ring against said sheet.

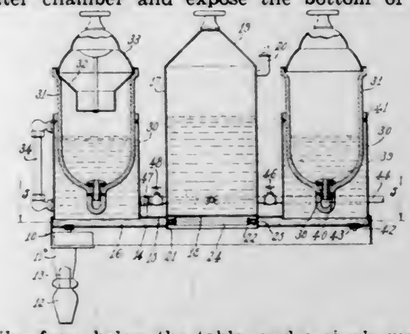
2,317,214

COFFEE-MAKING APPARATUS

Peter Pappas, New Haven, Conn.

Application October 31, 1941, Serial No. 417,263
7 Claims. (Cl. 53—3)

1. A coffee-making apparatus, comprising a table having a shallow hollow top providing a water chamber, a bottomless urn supported on the upper member of the table top whereby its interior communicates freely with said chamber, a boiler supported upon the table beside the urn, the side walls of the boiler extending downwardly through the table top to be surrounded by the water chamber and expose the bottom of the



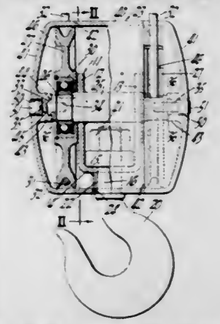
boiler from below the table, and a single means for supplying heat to said chamber and to the lower exposed side of the boiler bottom between the side walls of the latter.

2,317,215

HOOK BLOCK

Humphrey F. Parker, Kenmore, and Erford E. Robins, Tonawanda, N. Y., assignors to Columbus McKinnon Chain Corp., Tonawanda, N. Y., a corporation of New York

Application March 17, 1942, Serial No. 435,066
11 Claims. (Cl. 254—193)



11. A hook block for cable hoists, comprising a yoke, a shaft carried by the yoke, a hook suspended from said yoke, the ends of said shaft extending beyond said yoke and carrying sheaves thereon, a projection at each end of the shaft formed with oppositely arranged flattened surfaces, a three part casing, comprising a central part and two cover parts, means carried by said casing parts for keeping them in axial alignment, each of said cover parts being provided with a hub having a centrally arranged lateral slot in its face for non-rotative engagement with one of said projections, a sleeve carried by said yoke and surrounding the stud of said hood, said sleeve engaging an aperture formed in said central part, and clamping means engaging said shaft ends and said cover parts for centralizing said cover parts and securing them to said shaft.

2,317,216

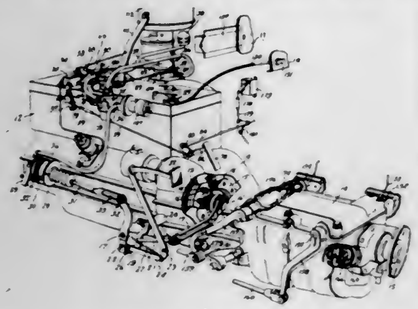
MOTOR VEHICLE POWER TRANSMISSION CONTROL

Clyde R. Paton, Birmingham, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan

Application June 23, 1941, Serial No. 399,407
20 Claims. (Cl. 192—.01)

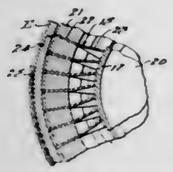
1. A pressure control mechanism for a clutch

power shift device comprising a valve housing having openings connected with atmosphere and vacuum, compound valve means reciprocable in the housing for controlling the pressure for the shift device, said valve means including a sleeve having a bleed hole therein, and a choke sleeve in the casing in which the valve sleeve operates, said choke sleeve having relatively large open-



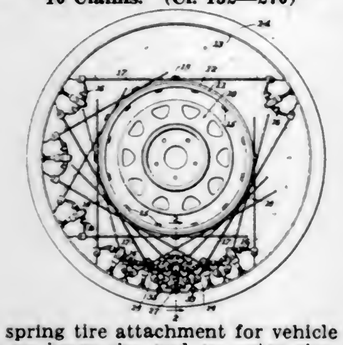
ings in communication with the opening in the valve housing connected with atmosphere, said large openings being adapted to be closed by said valve sleeve only during the latter portion of the clutch engagement movement, said valve means sleeve having restricted passage means continuously in communication with the opening in the valve housing connected with atmosphere.

2,317,217
FLUID COUPLING
Gordon R. Pennington, Bloomfield Hills, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Original application May 12, 1941, Serial No. 393,057. Divided and this application October 20, 1941, Serial No. 415,711
1 Claim. (Cl. 103—115)



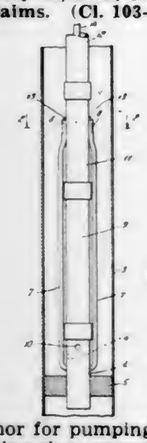
A rotatable fluid power-transmitting structure comprising a pair of annuli spaced one within the other concentrically with the axis of rotation of said structure, a plurality of vanes extending outwardly from the inner annulus to the outer annulus, the inner and outer ends of the vanes being connected respectively to the inner and outer annuli, said vanes being relatively circumferentially spaced to form fluid passages therebetween extending through said structure in the general direction of its axis and also continuously between said annuli, the other annulus acting to stress the vanes inwardly toward the inner annulus, each of said vanes having an outer planar fluid passage-forming portion lying in a plane perpendicular to said axis and an inner fluid passage-forming portion contiguous to its said outer planar portion, the said inner portion of each of said vanes being warped relative to the outer planar portion so as to impart rigidity to said structure including resistance to deflection of said vanes under said stress.

2,317,218
SPRING WHEEL ASSEMBLY
Philip C. Pezzella, Brooklyn, N. Y.
Application May 25, 1942, Serial No. 444,409
10 Claims. (Cl. 152—270)



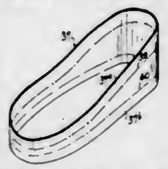
1. A spring tire attachment for vehicle wheels having an inner rim and an outer rim, a plurality of leaf springs pivotally connected at their mid-points to the outer rim, a plurality of spokes fastened to the inner rim and connected to the ends of said leaf springs, means to prevent the flexing of said leaf springs beyond a predetermined maximum, and means connected between the inner rim and the outer rim to limit the axial movement between the inner and outer rims.

2,317,219
PRODUCTION OF PETROLEUM
John L. Porter and Irving R. Funk, Long Beach, Calif., assignors to Richfield Oil Corporation, a corporation of Delaware
Application July 16, 1940, Serial No. 345,730
5 Claims. (Cl. 103—203)



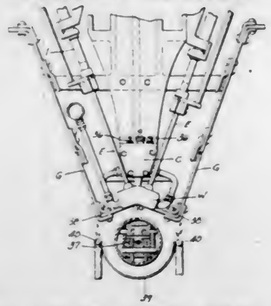
1. A gas anchor for pumping wells comprising a nipple, a packing ring surrounding the exterior of the lower portion of the nipple, the upper end of the nipple being adapted to be secured to the intake port of a pump chamber, a partition within the nipple above the packing ring to prevent direct passage of fluids through the nipple, a tube positioned with its wall and principal axis outside the wall of the nipple and with its principal axis generally parallel to that of the nipple, the lower end of said tube communicating with the interior of the nipple below the partition and above the packing ring, the upper end of the tube extending a substantial distance above the partition and being ported for lateral discharge of fluids from the tube into the space exterior of an extension of the nipple, the wall of the nipple being provided with an opening above the partition.

2,317,220
METHOD OF MAKING SHOE PLATFORMS
Christy Reggie, Waynesville, N. C.
Application August 5, 1942, Serial No. 453,666
6 Claims. (Cl. 12—146)



1. That method of making a shoe platform, the steps of which comprise cutting a planar blank from a piece of stretchable material, forming said blank into a tubular member having substantially the same perimeter as the perimeter of the shoe platform base, and then securing said tubular member around the perimeter of the platform base.

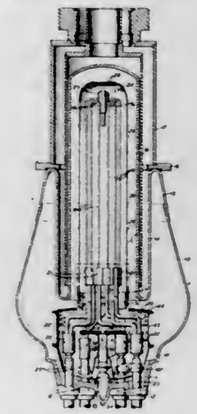
2,317,221
WELDING APPARATUS
Ernest Riemenschneider, Jackson, Mich., assignor to The Midland Steel Products Company, Cleveland, Ohio, a corporation of Ohio
Application December 18, 1940, Serial No. 370,612
10 Claims. (Cl. 219—6)



1. In apparatus for welding tubing, means for feeding tubing lengthwise thereof; an elongated welding head extending lengthwise of the tubing for a considerable distance and forming an enclosure spaced above the same to exclude air and to provide a welding zone and means at opposite sides of the head for directing continuous vertical walls of moving air at and coextensive with opposite sides of the tubing between the same and the head to confine and exclude atmosphere from the welding zone and whereby the welding zone can be viewed through said walls of air.

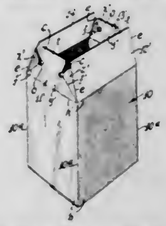
2,317,222
ELECTRON DISCHARGE DEVICE
Victor L. Ronci, Brooklyn, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application March 20, 1941, Serial No. 384,255
4 Claims. (Cl. 250—27.5)

1. An electron discharge device comprising an enclosing vessel having a hollow insulating portion and a metallic wall extending within said insulating portion, an anode joined to the inner end of said wall, a cathode and a grid within said vessel, leading-in conductors for said cathode and grid sealed in a wall portion of said insulating portion at regions opposite the junction of said anode and said metallic wall, a support mounted on said insulating portion, and a unitary thermal and electrostatic shield mounted on said support and substantially enclosing



said leading-in conductors, said shield comprising a portion encompassing said leading-in conductors, a metallic baffle adjacent said junction and extending transversely between it and said wall portion and a metallic member mounted between said wall portion and said metallic baffle.

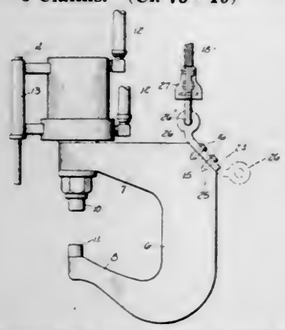
2,317,223
END FLAP CONSTRUCTION FOR CARDBOARD CONTAINERS
George Rottman, Brooklyn, N. Y.
Original application October 20, 1939, Serial No. 300,294. Divided and this application March 28, 1941, Serial No. 385,598
1 Claim. (Cl. 229—37)



A box having an end closure comprising four sides and four end flaps each integrally connected to its adjoining end flaps along fold lines, defining a portion of the lateral edges respectively, two of said end flaps forming an opposed pair being long enough to overlap, and each being without line of fold within its body, the other two of said end flaps each being of substantially the same length as the overlapping flaps but cut away along its upper lateral edges leaving the outer lateral edges of said first mentioned pair of end flaps free, said other end flaps also each having lines of fold extending upwardly and inwardly at an angle from their lower corners and terminating respectively in circular cut-outs, the said cut away portions at the upper lateral edges of said other flaps respectively being tapered downwardly and inwardly and also terminating in said circular cut-outs respectively, one of said overlapping end

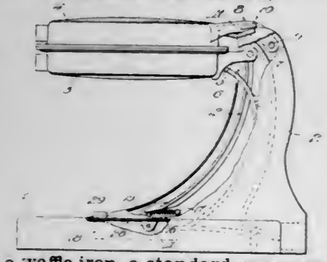
flaps together with the adjoining folded over portions forming a pocket for the reception of the end of the other overlapping end flap.

2,317,224
PORTABLE RIVETER SUSPENSION
Andrew E. Rylander, Detroit, Mich., assignor to The Midland Steel Products Company, Cleveland, Ohio, a corporation of Ohio
Application April 3, 1940, Serial No. 327,596
3 Claims. (Cl. 78—19)



1. Tool suspension comprising a tool having a beveled corner with a pair of tapped holes therein, a reversible bracket having registering holes seated upon said corner and secured thereto with a pair of screws, and said bracket having one end extended beyond the corner of the tool in the direction of said beveled corner and there provided with a perforated portion disposed to suspend the tool in different positions.

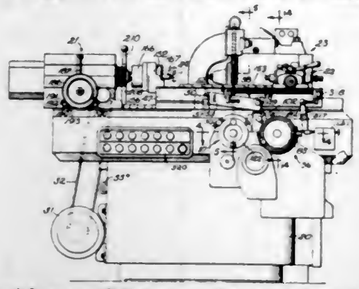
2,317,225
WAFFLE IRON
Earl M. Schara, Webster Groves, Mo.
Application May 2, 1941, Serial No. 391,488
7 Claims. (Cl. 53—10)



1. In a waffle iron, a standard, upper and lower members between which batter is placed for cooking, supported from the top of the standard, the supporting means for the lower member being a hinge at the edge of the latter member permitting the same to drop away from the upper member, an arm fixed to the said lower member in the vicinity of the hingt and extending freely down through the standard, and a releasable catch cooperating with the lower end of said arm to hold the lower member up.

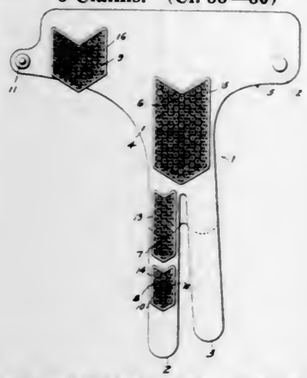
2,317,226
MACHINE TOOL
Harold N. Seyferth, East Detroit, Mich., assignor to Ex-Cell-O Corporation, Detroit, Mich., a corporation of Michigan
Application August 3, 1940, Serial No. 350,338
34 Claims. (Cl. 51—95)

18. In a grinding machine, the combination of work and tool supports, a rotatable grinding tool on the tool support, means including an electric motor for effecting a relative infeeding movement of the supports toward each other to engage the



tool with a workpiece on the work support, and means including another electric motor for effecting a quick-retract motion of said supports away from each other in a direction opposite to that for said infeed movement.

2,317,227
HAND SIGNAL FOR MOTORISTS
George T. Sherwood, Los Angeles, Calif.
Application December 3, 1941, Serial No. 421,472
3 Claims. (Cl. 88—80)

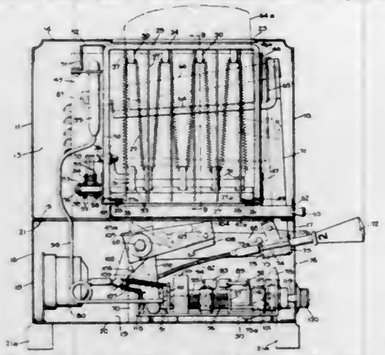


1. In a signal of the kind described, a hand harness provided with means whereby it is attachable to the hand in an overlying relation both to the metacarpal portion of the hand and to at least one of the fingers thereof, a light reflecting member comprising an elongated battery consisting of a plurality of intimately associated miniature light reflecting lenses carried dorsally by the applied harness and a more distal light reflecting member comprising a battery similar to the first recited battery mounted upon said harness in a spaced relation to the first recited reflecting member, a joint of the hand intervening between said members when said harness is applied, thereby enabling the user by flexing such joint of the hand to vary the angular relation of said members to bring their adjacent ends into contiguity and form one continuous directional indication.

2,317,228
ELECTRIC HEATER
Jacob L. Shroyer, Oak Park, Ill., assignor to Edison General Electric Appliance Company, Inc., Chicago, Ill., a corporation of New York
Application August 8, 1934, Serial No. 738,973
37 Claims. (Cl. 219—19)

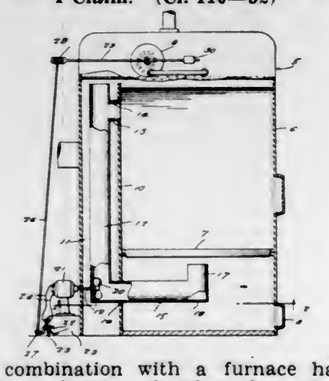
35. In a bread toaster, a timing mechanism

for terminating toasting of a bread slice, means comprising a single control member for initiating the toasting of a bread slice, connection means between said control member and said timing mechanism for controlling the operation of said timing mechanism, a bread slice holder mounted for movement between toasting and non-toasting positions, connection means connecting said holder with said single control member so that the holder is moved to its toasting position when said control member is operated



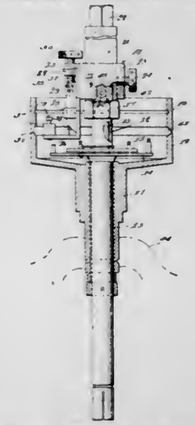
to initiate the toasting of said bread slice and to control the timing mechanism to start, and means for moving said connection means between said timing mechanism and control member away from said control member when the holder has been moved to said toasting position so that said control member can be operated to move said holder away from and return it to said toasting position while said timing mechanism is operating to measure the toasting interval without resetting said timing mechanism.

2,317,229
ATTACHMENT FOR FURNACES AND THE LIKE
Frederick A. Smith, Indianapolis, Ind.
Application June 24, 1941, Serial No. 399,542
1 Claim. (Cl. 110—52)



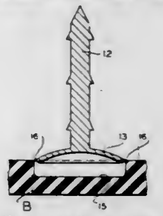
The combination with a furnace having a grate, a combustion chamber above the grate, an ash pit below said grate, and a jacket forming an air space at the back of the chamber and pit, of an L-shaped conduit having a leg vertically disposed in said space and open at its top to take air therein from said space, a right angled leg extending through the back of said ash pit and provided with an upstanding end located directly beneath the center of the ash pit for discharging air through said grate into said chamber, said right angled leg having a discharge aperture in its bottom in line with the upstanding end for permitting ashes falling from said grate into said end to fall into the ash pit, a neck adjacent the top of said vertical leg extending through the back of the combustion chamber and opening into the top of the latter to draw smoke and other products of combustion out of said chamber, and a motor operated fan in said conduit at the juncture of said legs for creating a down draft in the vertical leg and a forced draft through the right angled leg.

2,317,230
REGROOVING TOOL
William A. Smith, Philadelphia, Pa.
Application July 13, 1942, Serial No. 450,717
6 Claims. (Cl. 77—58)



1. A re-grooving tool for distributer housings comprising an adapter constructed for securement to the upper end of the distributer shaft, a collar on the adapter, a frame on the collar and carrying a cutter blade disposed at right angles to the wall of the housing of the distributer, and means movable in a plane parallel to the distributer shaft for effecting lateral movement of the cutter blade.

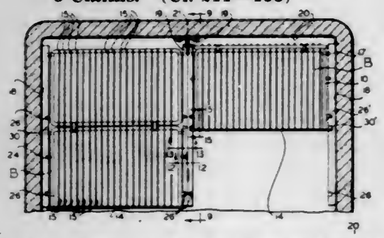
2,317,231
SELF-EMBEDDING NAILHEAD
Enoch Swedman, St. Paul, Minn., assignor to Seeger Refrigerator Company, St. Paul, Minn., a corporation of Minnesota
Original application September 3, 1936, Serial No. 99,315, now Patent No. 2,259,186, dated October 14, 1941. Divided and this application September 26, 1941, Serial No. 412,477
1 Claim. (Cl. 85—28)



A self-embedding nail screw comprising an elongated pointed shank, a relatively thin outwardly concaved disc-head portion being of the same thickness throughout its entire area, said concave disc-head having a sharp edge formed by a beveled surface converging in a direction opposite the shank extending around the entire periphery thereof, and said concave disc-head

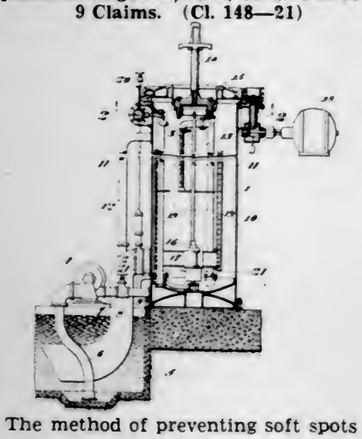
adapted to entirely flatten out when a slight pressure is exerted axially against said shank portion whereby said self-embedding anchoring means may be used in securing a relatively soft finishing molding at a joint.

2,317,232
SECTIONAL SLIDABLE SHELF
Enoch Swedman, St. Paul, Minn., assignor to Seeger Refrigerator Company, St. Paul, Minn., a corporation of Minnesota
Application October 20, 1941, Serial No. 415,717
8 Claims. (Cl. 211—153)



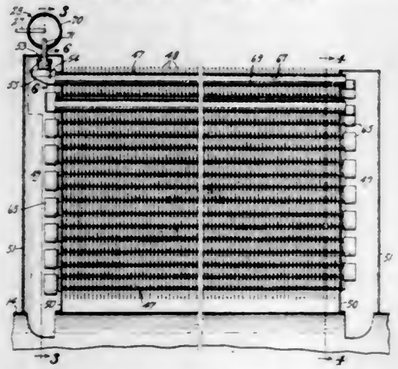
2. A slidable removable shelf for refrigerators including a series of rectangular shelf sections, each of which is formed by an endless peripheral wire frame, and a series of shelf wires parallelly disposed and rigidly secured to said wire frame, means hingedly connecting said sections together to form a complete shelf, track means for holding said shelf slidably positioned within a refrigerator compartment, said track including a pair of parallelly extending channels, lug means projecting from said frames of said sections and engaging in said track portions, and lug means projecting from the front shelf sections engaging on top of said track means, said track means having a horizontal portion adapted to support said shelf in a horizontal position and a vertical portion in close proximity to a vertical wall of the refrigerator compartment but spaced therefrom, whereby said shelf may be slid into a vertical position between the wall of the refrigerator compartment and said vertical portion of said track.

2,317,233
METHOD AND APPARATUS FOR HARDENING STEEL ROLLS
John A. Taylor, Bethlehem, Pa., assignor to Bethlehem Steel Company, a corporation of Pennsylvania
Application August 3, 1940, Serial No. 350,168
9 Claims. (Cl. 148—21)



6. The method of preventing soft spots due to scale on a heated metal roll or the like, which consists in taking the roll heated slightly above its critical temperature range, briefly subjecting the roll to a steam-producing scale-removing and flood-quenching fluid, withdrawing said steam-producing scale-removing and flood-quenching fluid from the roll surfaces and then completing the quenching operation by applying to the roll a continuous sheet spray.

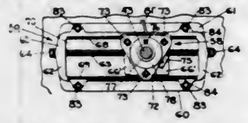
2,317,234
REFRIGERATION
Albert R. Thomas, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware
Application August 3, 1940, Serial No. 350,235
15 Claims. (Cl. 62—119)



11. An absorption refrigeration system employing only refrigerant and absorption liquid as the active fluid components and comprising a generator, a condenser, an evaporator and an absorber interconnected for flow of refrigerant and absorption liquid; the system being operable at a partial vacuum with the refrigerant vapor formed in said evaporator passing therefrom at a high velocity; the system being of the kind in which ebullition of liquid refrigerant tends to occur with vaporization of such liquid in the evaporator in producing a refrigerating effect; said evaporator comprising piping having an inlet at one level and an outlet at a lower level and into which liquid refrigerant is introduced at the inlet, said piping providing a path of flow for liquid in all regions of which the depth of liquid is at a minimum and just sufficient to permit liquid to flow past successive regions in the path of flow; and means to cause liquid flowing through said piping to spread over a substantial area to form a liquid film at the inner surface of the piping, so that practically all of the heat transfer is effected from the exterior of the piping through the latter directly to said liquid film to cause substantially all vaporization of liquid to take place from said film without ebullition and violent boiling of liquid and without the formation of vapor bubbles below a liquid surface level.

2,317,235
TAKE-UP MECHANISM FOR CONVEYER APPARATUS
Alexis W. Lemmon, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio
Application November 15, 1941, Serial No. 419,355
17 Claims. (Cl. 74—242.14)

1. Take-up mechanism comprising the combination with a wall bracket having an elongated rectangular opening therethrough, of a supporting plate having opposite parallel edges guided along elongated surfaces facing toward the back of the wall bracket, a front plate spanning said opening and engaging the front edges of the opening opposite the said rear elongated guiding surfaces, a journal bearing carried by said front plate, bolts for detachably securing



said front plate to said supporting plate to clamp the front plate in position to move bodily with said supporting plate and form an interlocking guiding connection between said bracket and said plates, and mechanism comprising a screw-threaded rod journalled in said wall bracket and extending through said supporting plate for moving the plates along said opening to effect adjustment of said journal bearing.

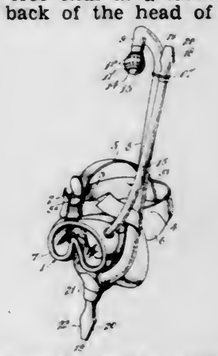
2,317,236
BREATHING APPARATUS FOR SWIMMERS
Charles H. Wilen and Alexandre Kramarenko, Nice, France; vested in the Alien Property Custodian
Application March 29, 1940, Serial No. 326,684
In France December 22, 1939
4 Claims. (Cl. 9—20)



1. A breathing apparatus for a swimmer engaged in under-water shooting of fish, comprising a rigid tube having a downward turn at one end and an automatic air-intake and outlet valve at the free end of the turn, the opposite end of the tube terminating in a T with a mouthpiece to go into the swimmer's mouth for breathing at one end of the arm of the T and a single saliva and water purging-valve at the opposite end of the arm of the T, the tube extending outwardly from the T and upwardly in close vicinity to the swimmer's ear, with means for fastening the tube to the head of the swimmer, the tube being of a length so the first-mentioned valve projects a distance above the water and above the head of the swimmer when the mouthpiece is in the swimmer's mouth and at least the entire face portion of his head is submerged.

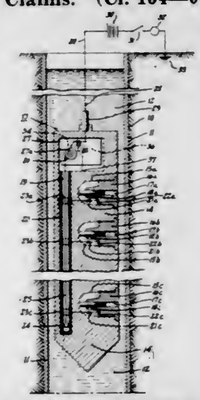
2,317,237
SWIMMER'S MASK
Charles H. Wilen, Brooklyn, N. Y.
Application November 16, 1940, Serial No. 365,915
6 Claims. (Cl. 9—20)

1. A combination seeing and breathing apparatus for a swimmer including a mask adapted to fit tightly around the face of the swimmer, with means for holding it in such position, the mask having a goggles portion located in front of the eyes of the swimmer and forming part of an air chamber, a pair of independently operating tubes extending from spaced openings leading from the interior chamber of the mask and terminating in free ends at a location above and beyond the back of the head of the swimmer



when the swimmer's head is partly or just going fully under the water, one of said tubes acting primarily as an air tube and having a valve at its free end normally open in the air but adapted to be closed by water pressure, while the other tube acts as an expiration tube, the free end of which has a one-way outwardly operating valve which is closed except when pressure is applied from within the interior of the mask as by an expiration on the part of the swimmer.

2,317,238
GUNFIRE CONTROL APPARATUS
Maurice Mennecier, San Fernando, Trinidad, British West Indies, assignor to Schlumberger Well Surveying Corporation, Houston, Tex., a corporation of Delaware
Application June 17, 1941, Serial No. 398,395
In France August 1, 1940
20 Claims. (Cl. 164—0.5)



1. Gun fire control mechanism for remotely controlling the firing of a plurality of explosive charges in a body adapted to be lowered into a well, comprising a plurality of igniting filaments in the body each having one terminal connected to ground, an insulated conduit associated with said body and having a plurality of contacts therein, each connected to the other terminal of a corresponding igniting filament, a contact

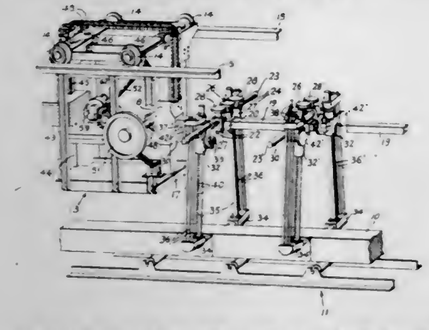
member in said conduit and adapted to engage said contacts successively, means, controllable from the surface of the earth, for actuating said contact member to cause it to engage only one or any desired number of said contacts successively as desired, a source of electrical energy having one terminal connected to ground, and an electrical connection between the other terminal of said source and said contact member.

2,317,239

BILLET NICKING MACHINE

August H. Yoch, Philadelphia, Pa., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York

Application January 9, 1942, Serial No. 426,155
11 Claims. (Cl. 266—23)



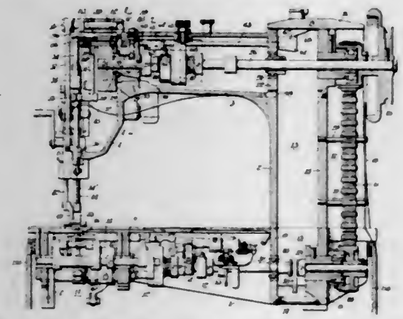
1. A billet nicking machine including a frame, a vertical guide on which the frame moves up and down, a support extending horizontally from the frame and parallel to the billet on which the machine operates, said support being movable as a unit with the frame, and a plurality of pairs of torch-holders on the support and spaced from one another lengthwise of the support.

2,317,240

LUBRICATING SYSTEM FOR SEWING MACHINES

Frederick F. Zeier, Fairfield, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey

Original application April 15, 1939, Serial No. 267,958. Divided and this application June 8, 1940, Serial No. 339,438
9 Claims. (Cl. 112—256)



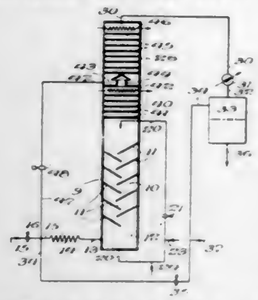
1. A sewing machine having a frame including a bed and an overhanging bracket-arm; a lubricant supply in said frame; a bearing bushing in said bracket-arm; an actuating shaft journaled in said bearing bushing; a reciprocatory needle-bar journaled in said bracket-arm and operated by mechanism including a crank fixed to said actuating shaft; means for conducting oil from said lubricant supply to said bearing bushing and to said needle-bar actuating mechanism including a vertical bore opening into the shaft bearing-surface of said bushing and a horizontal bore intersecting said vertical bore for conducting oil to said needle-bar actuating mechanism; and a metering device in said vertical bore operable to provide means for regulating the amount of oil distributed to the needle-bar actuating mechanism.

2,317,241

PRODUCTION OF ISOBUTANE

William A. Ackerman, Lansdowne, and William S. Bonnell, Oakmont, Pa., assignors to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware

Application October 18, 1940, Serial No. 361,788
8 Claims. (Cl. 260—683.5)



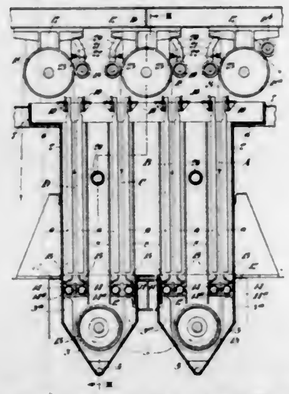
8. In a continuous process of isomerizing normal butane to isobutane, the steps which comprise establishing and maintaining a body of inert non-hydrocarbon liquid containing solid aluminum chloride dispersed therein, said liquid having a boiling point substantially higher than that of normal butane and lower than the temperature at which aluminum chloride exerts one atmosphere vapor pressure, maintaining said liquid body at such a temperature as to partially vaporize the aluminum chloride and inert non-hydrocarbon liquid contained therein, passing normal butane vapors into said liquid body to create a body of reaction mixture, conducting vapors from the body of reaction mixture so formed upwardly through a contacting zone, continuously withdrawing a portion of the hot reaction mixture from the body thereof, introducing the hot portion so withdrawn into said contacting zone in the path of said vapors, returning the said portion to the body of reaction mixture in counter-current contact with said vapors, cooling the vapors leaving the contacting zone to fractionally condense out all the aluminum chloride and substantially all the inert non-hydrocarbon liquid contained therein and returning the condensate so formed to said contacting zone in counter-current contact with said vapors, thereafter cooling said vapors to fractionally condense out all the inert non-hydrocarbon liquid and substantially all the normal butane contained therein, returning the condensate thus formed to the body of liquid reaction mixture, removing vapors containing isobutane free from aluminum halide and inert non-hydrocarbon material and substantially free from normal butane and recovering isobutane from the vapors so removed.

2,317,242

PLATING TANK FOR ELECTRODEPOSITION OF METALS ON METALLIC STRIP

William S. Allen, Pittsburgh, Richard A. Dimon, Dormont, and Ewart S. Taylerson, Pittsburgh, Pa., assignors to Carnegie-Illinois Steel Corporation, a corporation of New Jersey

Application April 28, 1939, Serial No. 270,702
1 Claim. (Cl. 204—206)



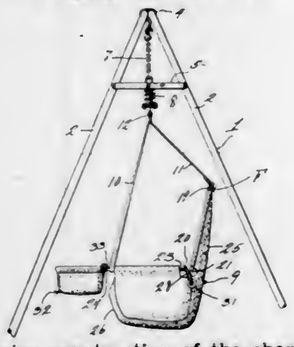
In a plating tank for electroplating metallic strip, means for establishing the strip as the cathode, means for moving the strip in a substantially vertical path, a plurality of spaced vertically extending anodes within said tank, means below the bottoms of said anodes for positively circulating the electrolyte upwardly on either side of the strip, said last-named means including a pair of spaced parallel horizontally extending pipes having on the adjacent sides thereof orifices for the distribution of electrolyte, and guard means between said last-named means and the bottoms of said anodes for preventing damage by the accidental dropping of the latter.

2,317,243

BABY SWING

Joseph C. Anderegg, Algoma, Wis., assignor to Algoma Net Company, Algoma, Wis., a corporation of Wisconsin

Application April 19, 1941, Serial No. 389,429
7 Claims. (Cl. 155—17)



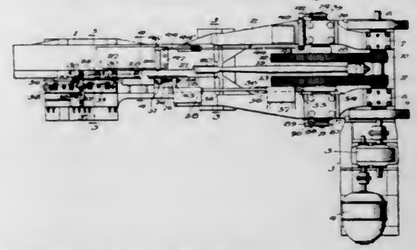
1. A swing construction of the character described, comprising a seat and a back, a hinge coupling between the seat and back, said coupling including a back carried portion and a seat carried portion, a stop forming a part of one portion and engageable by the other portion, said portion and the stop cooperating when in one relation to maintain the back in an upwardly and rearwardly inclined position with relation to the seat, said portions and stop being arranged to facilitate swinging the back rearwardly and downwardly to a folded position beneath the seat, a pair of suspension straps at each side of the seat, one strap of each pair being connected with the front part of the seat and the other strap of each pair being connected to the back, and a suspension means connected with the pairs of straps.

2,317,244

METHOD AND MACHINE FOR PROFILING MASSES OF MATERIAL

William H. Bailey, Pueblo, Colo., assignor to The Colorado Fuel & Iron Corporation, Denver, Colo., a corporation of Colorado

Application March 1, 1940, Serial No. 321,798
33 Claims. (Cl. 80—8)



1. The method of imparting a non-linear profile longitudinally of a generally cylindrical mass of material which comprises forming an intermediate portion of that part of the mass of material which is to be profiled so that the area of a cross-section normal to the length of the mass of material at said intermediate portion is less than the area of a like cross-section at the end portions of said part of the mass of material, and pressing the desired non-linear profile into that part of the mass of material which is to be profiled while said intermediate portion has a less cross-sectional area than said end portions, the shape of the profiling member, its relation during the pressing operation to the mass of material and the pressure under which the pressing of the profile into the mass of material takes place being such that material in said intermediate and end portions of the part of the mass of material being profiled is brought into longitudinal alignment.

2,317,245

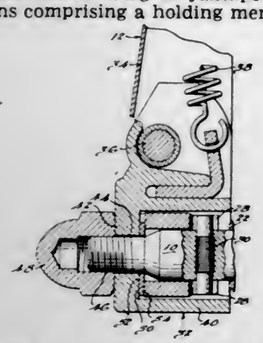
WINDSHIELD WIPER MECHANISM

Rupert B. Bell, Ann Arbor, Mich., assignor to King-Seeley Corporation, Ann Arbor, Mich., a corporation of Michigan

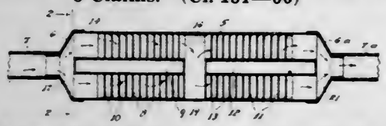
Application June 21, 1941, Serial No. 399,057
2 Claims. (Cl. 287—53)

2. In a connection between a shaft and an arm carried thereby and adapted to swing in a plane transverse to the axis of the shaft, the combination of a collar fitted over said shaft, one end of said collar having at least one notch therein which extends parallel to the axis of the collar and has side walls, said shaft having shoulder means projecting radially therefrom for reception in said notch in wedged relation between said side walls, said means and side walls when so wedged acting to form a releasable but positive non-rotative connection between the collar and shaft, the other end of said collar being formed as a holding surface, the end of the arm being of

cup-shaped form having an apertured base through which the end of the shaft projects, the inner surface of the base constituting a holding surface, said collar being received in said cup-shaped portion of the arm and the holding surface on the collar being in juxtaposed relation, and means comprising a holding member removably secured to the outer end of the shaft and advanceable therealong to apply pressure between said surfaces whereby to lock said arm against rotation relative to said collar and to force said shoulder means into said notch so as to hold said collar in non-rotative relation to the shaft.



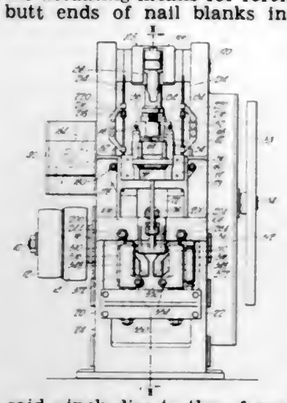
2,317,246
MUFFLER
Adolph G. Bergmann, Ansonia, Conn.
Application June 10, 1941, Serial No. 397,443
8 Claims. (Cl. 181—66)



1. A muffler of the character described comprising an elongated tubular casing containing therein a plurality of fins forming spiral passages through said casing; the ends of said fins being straight for a distance to provide straight passages leading into the spiral passages.

2,317,247
CUT NAIL MACHINE
Bruce N. Bletso, East Cleveland, and George H. Perkins, Cleveland, Ohio, assignors to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application July 23, 1942, Serial No. 452,098
24 Claims. (Cl. 10—30)

11. A cut nail machine comprising, in combination, feed means for intermittently advancing predetermined increments of flat ribbon-like nail stock to a shearing station, a shear at said station, an oscillating mounting for said shear, means for periodically oscillating said mounting in opposite directions to thus periodically vary the angularity of said shear, a power actuated member for reciprocating said shear in each of its angular positions whereby oppositely tapered nail blanks are cut in regular sequence from said intermittently advancing flattened stock, respective transfer elements, means for moving each transfer element to angularly disposed nail blank-receiving and discharging positions, respective means for orienting blanks discharged by each transfer element, respective pairs of coacting pinch dies having head defining recesses therein, respective heading dies, respective means for shifting said heading dies laterally into and out of alignment with the blank engaging zone of the pinch dies, and respective heading die actuating means for forcibly squeezing the butt ends of nail blanks into the recesses in said pinch dies to thus form upset nail heads on said blanks, and respective reciprocating means for positively ejecting the thus headed nails from said pinch dies after the heading dies have been shifted laterally out of line with the pinch die cavities.



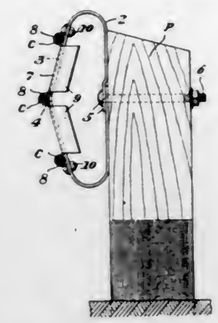
2,317,248
COMBINATION CABLE AND PLATE HIGHWAY GUARD
Alan E. Brickman, Monongahela, Pa., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application May 19, 1942, Serial No. 443,609
6 Claims. (Cl. 256—13.1)



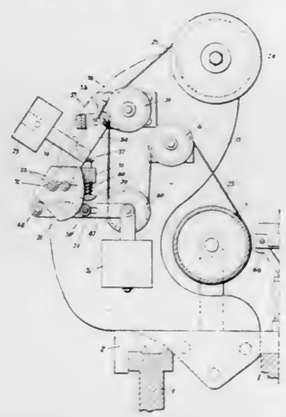
1. A highway guard comprising a series of spaced posts, resilient brackets secured to the roadside faces thereof, a plate guard rail element secured to said brackets in a plane spaced outwardly from the posts, and a cable guard rail element positioned by said brackets in a plane intermediate the respective roadside faces of said posts and said plate guard rail element.

2,317,249
HIGHWAY GUARD
Alan E. Brickman, Monongahela, Pa., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application May 20, 1942, Serial No. 443,786
5 Claims. (Cl. 248—66)

1. A device for supporting a plurality of highway guard cables comprising a body member having a vertically extending outer face portion against which guard cables are adapted to be disposed with the central portion of said outer face portion extending outwardly beyond the remaining portions thereof, a plate-like member conforming to the shape of said outer face portion, said plate-like member having a plurality of spaced apart substantially U-shaped notches arranged therein, said plate-like member adapted to hold the guard cables against the outer face portion of said body member with the guard cables adapted to be disposed in said notches, at least one of said notches being positioned opposite the outwardly extending central portion of said outer face portion, and means for holding said plate-like member in engagement with the outer face portion of said body member.

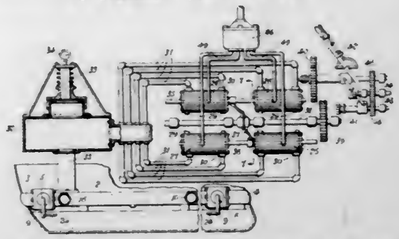


2,317,250
MEANS FOR WRAPPING FILAMENTS AROUND TUBES OR CYLINDERS
Walter Bridges, Chelsea, London, England
Application March 2, 1942, Serial No. 433,097
In Great Britain October 6, 1941
6 Claims. (Cl. 242—45)



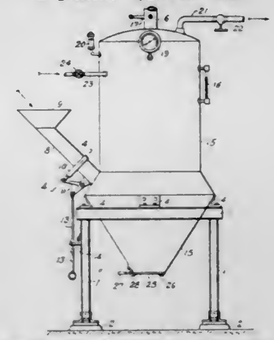
1. Apparatus for winding a filament drawn from a supply thereof on to a rotatable body comprising a rotatable drum, a brake associated therewith, a brake lever movable to vary the braking effort, a downwardly biased pulley lever associated with the brake lever to move it, a jockey pulley connected to the pulley lever, a cam on one of the two said levers, and a cam follower on the other lever, wherein the filament on its way from the supply to the body to be wound passes round the drum and under the jockey pulley so that variation in filament tension causes the pulley to rise and fall and the brake lever to rock to vary the braking effort.

2,317,251
SHIP CONTROL
Henry W. Brolus, Detroit, Mich., assignor of forty per cent to Robert G. Kitchen, Grosse Pointe Park, Mich.
Application January 28, 1941, Serial No. 376,320
6 Claims. (Cl. 115—12)



1. In combination with the hull of a ship, a source of compressed air, valved jets for selectively directing jets of air laterally to one or other side of the stern of the hull below the waterline, and adjustable deflector means moveable into the path of the lateral jets for deflecting the jets of air toward one end of the hull when desired.

2,317,252
METALLURGICAL FURNACE
David Cabarrocas y Ayala, Habana, Cuba
Application April 21, 1941, Serial No. 389,668
In Cuba April 4, 1941
1 Claim. (Cl. 13—23)

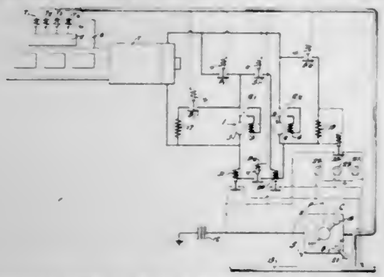


In a metallurgical furnace in which a water chamber is formed between inner and outer walls, sleeves of refractory material extending through said walls, an electrode arranged within each sleeve and composed of a metal tube bent in U-shape, means for circulating cooling water through said tube and means for passing an electric current through said tube whereby an arc may be formed between said electrodes in the tubes, said means including a connecting block having openings through which the side portions of the adjacent U-shaped tubes are arranged and said block being also arranged to abut the outer edge of the adjacent refractory sleeve so as to seal the sleeve.

2,317,253
DIESEL ELECTRIC DRIVE AND CONTROL SYSTEM
Stuart H. Cowin, Chicago, Ill., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application March 13, 1940, Serial No. 323,755
4 Claims. (Cl. 177—311)

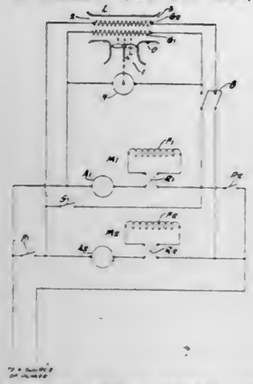
1. In a vehicle, a prime mover generator power

plant, output regulating means therefor, traction motors for driving the vehicle, electrical connections between the generator and the motors, separate overload current responsive means for the generator and for the motors, contactors for connecting the motors and the motor overload current responsive means in series relation with the generator or for also connecting the motors in parallel relation with the generator and for simultaneously connecting said generator overload current responsive means in series between the generator and one motor, separate alarm means operatively connected with each overload



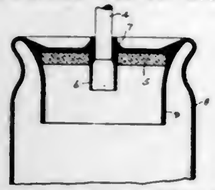
responsive means, and a manually operable controller for jointly and selectively controlling said power plant output regulating means and said contactors, said controller being selectively movable to any one of a plurality of control positions in each of two ranges to control the output of the power plant to a preselected value, one range of controller movement controlling the contactors for establishing the series motor circuit relation with the power plant generator and the other range of controller movement controlling the contactors for establishing the parallel motor circuit relation with the power plant generator.

2,317,254
DYNAMIC BRAKING SYSTEM
Stuart H. Cowin, Chicago, Ill., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application December 12, 1940, Serial No. 369,818
2 Claims. (Cl. 172—179)



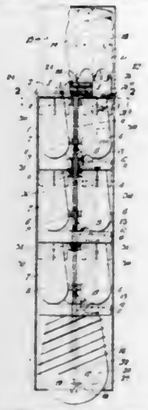
1. In a dynamic braking system for a vehicle, a plurality of dynamo-electric machines, each driven by an individual axle of the vehicle, separate means for imposing equal electrical loads on each of said machines to cause each to function as a generator and apply equal values of retarding torque to each axle of the vehicle, each of said means being adapted for absorbing and dissipating the energy generated by each machine and at least one of said means including a motor absorbing part of the generated energy, and a cooling fan driven thereby, and a duct enclosing all of said separate means and provided with openings for the passage of air in opposite directions upon either direction of movement of the vehicle and of the fan to cool said separate means, the air supplied by the fan being proportional to the energy generated and therefore the retarding torque on the vehicle axles.

2,317,255
SQUAWKER FOR TOYS
Orby B. Crowell, Toronto, Ontario, Canada, assignor to Viceroy Manufacturing Company Limited, Toronto, Ontario, Canada
Application June 18, 1941, Serial No. 398,515
2 Claims. (Cl. 46—179)



1. In a toy, a length of rubber tubing having flattened walls spaced apart to permit a flow of air therebetween, said tube having a cylindrical portion at one end, a disc having a central opening through which the cylindrical portion of the tube is inserted in spaced relation thereto, and a coating of rubber covering the outer side of said disc and encircling the cylindrical portion of the rubber tube and forming an elastic seal within the central orifice in the disc, the said rubber covering extending beyond the disc and adhering to the wall of the toy in a flexible air-tight seal.

2,317,256
BOMB DROPPING DEVICE ADAPTED TO BE DROPPED FROM AIRCRAFT
Juljan Bronislaw de Kurowski, London, England
Application November 20, 1940, Serial No. 366,485
In Great Britain November 21, 1939
4 Claims. (Cl. 102—2)

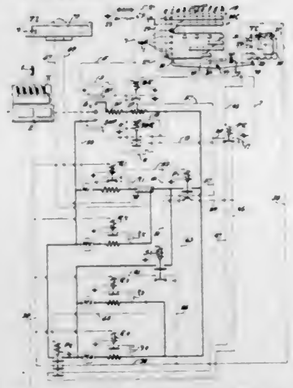


1. A device for dropping bombs from aircraft, comprising a container adapted to be launched from aircraft and having a bomb discharge aperture, a screw spindle fixed to the inside of said container and directed towards said aperture, a series of bomb carriers engaged with the screw thread of said spindle for screw movement along the same, detent mechanism associated with each carrier adapted to restrain said bomb carriers from movement along the said spindle, means in the container for putting said detent mechanism out of action, and a parachute attached to said container, adapted to hold the same in suspension with said discharge aperture facing downwards.

2,317,257
METHOD OF DYEING PHOTOGRAPHIC SILVER HALIDE EMULSIONS
John Dessauer, Irondequoit, N. Y., assignor to The Haloid Company, Rochster, N. Y., a corporation of New York
No Drawing. Application October 2, 1941, Serial No. 413,337
2 Claims. (Cl. 95—7)

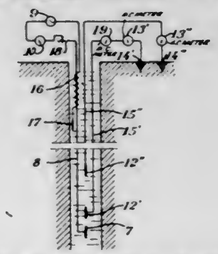
1. The method of dyeing a photographic silver halide gelatin emulsion which consists in mixing a dyestuff in one portion of the emulsion, mixing a mordant in another portion of the emulsion, then mixing the said two portions of emulsion together, dividing said last mentioned mixture into two substantially equal portions, mixing a dyestuff in one of said divided portions and a mordant in the other of said divided portions of emulsion, mixing said divided portions of emulsion together, and repeating said steps until the desired quantity of dye has been added to the emulsion.

2,317,258
TRANSITION CONTROL SYSTEM
Richard M. Dilworth, La Grange, Ill., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application November 4, 1940, Serial No. 364,162
4 Claims. (Cl. 177—311)



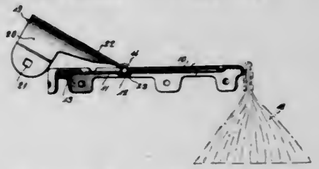
1. In a vehicle drive and control system comprising a plurality of electric driving motors, an electric generator for supplying power to the motors, a prime mover driving said generator, electrical connecting means between the generator and motors, said means including electrical indicating means, means for reducing the excitation of said motors, and switching means for connecting the motors in series-parallel and parallel circuit relations with the generator and for connecting the indicating means in each circuit relation, and a manually movable controller for controlling said motor excitation reducing means and said switching means, said controller being movable between the following control positions: (1) series-parallel, (2) series-parallel reduced motor excitation, (3) parallel and (4) parallel reduced motor excitation, whereby the motors may be respectively connected to the generator in circuit relations corresponding to the controller positions and said load current indicator rendered operative to indicate electrical variations for each circuit relation, said indicator having a dial on which the controller positions are marked and an element movable with respect to the dial in response to electrical variations for indicating the proper controller position for preselected ranges in electrical variations.

2,317,259
DEVICE FOR DETERMINING THE STRATA TRAVERSED BY DRILL HOLES
Henri Georges Doll, Paris, France, assignor, by mesne assignments, to Schlumberger Well Surveying Corporation, Houston, Tex., a corporation of Delaware
Application February 15, 1938, Serial No. 190,652
8 Claims. (Cl. 175—182)



1. A device for the determination of the strata traversed by a drill hole, comprising an electrode placed inside the drill hole, means for sending an electric current between this electrode and a reference point, a second electrode placed at a slight distance from the first electrode and connected by an insulated conductor to an apparatus for measuring potential differences placed at the surface of the ground and whose other terminal is earthed, and a third electrode placed at a distance from the first electrode greater than the distance separating the first two electrodes and also connected by an insulated conductor to another apparatus for measuring the potential differences and whose other terminal is earthed.

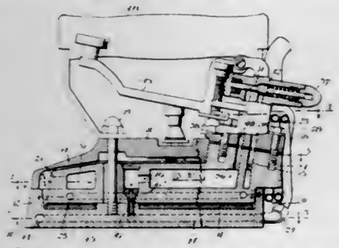
2,317,260
MOP
Paul J. Domenk, Chicago, Ill., assignor to Midway Chemical Co., Chicago, Ill., a corporation of New Jersey
Application May 4, 1942, Serial No. 441,693
4 Claims. (Cl. 306—19)



1. In combination, a head comprising a plate having an open struck-out bearing portion and complemental struck-out bearing portions between which the open bearing portion is disposed, a unitary socket and pintle, the pintle including portions journaled in the complemental bearing portions, and one of the complemental bearing

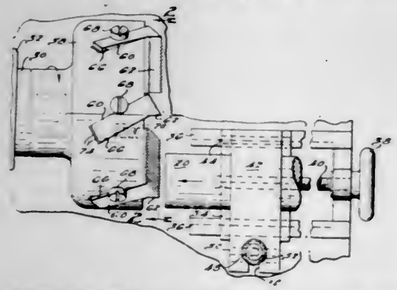
portions being displaceable on a line approximately parallel to the longitudinal axis of the pintle to expose the interior thereof to enable unitary application and mounting of the pintle with the socket on the head, said pintle being integral with the socket and having peripheral surfaces of approximately 360° within the complemental bearing portions.

2,317,261
PRESSING IRON
Samuel Dowinsky, New York, N. Y.
Application October 21, 1941, Serial No. 415,883
3 Claims. (Cl. 38—77)



1. A flat iron for steaming and pressing including a body consisting of a lower and an upper section, the lower section having a pressing surface, primary conduit means in said lower section to receive water for generation into steam, secondary conduit means in the upper section for continuing the generation of steam, a connection between the primary and secondary conduit means, primary and secondary steam expansion chambers in said upper section communicating with said secondary conduit means, heating means to heat said sections, passages in the lower section opening through said pressing surface and communicating with said secondary steam expansion chamber, and means to control the flow of steam from the primary to the secondary steam expansion chamber in order that steam may flow into said passages.

2,317,262
APPARATUS FOR MACHINING SERRATIONS IN METALLIC BODIES
Julius Dusevoir, Dearborn, Mich., assignor to Century Motors Corporation, Dearborn, Mich., a corporation of Michigan
Application November 12, 1941, Serial No. 418,678
7 Claims. (Cl. 29—105)



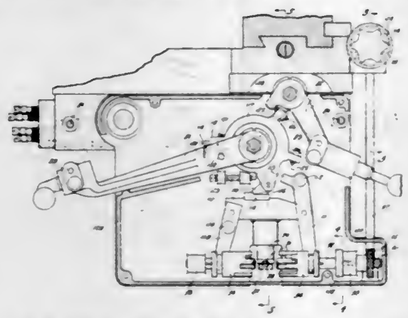
1. A cutting tool comprising, in combination, a rotatable head having a slot therein opening onto an axial end face of said head and onto a peripheral surface thereof with the general plane of thickness of said slot intersecting the axis of rotation of said head and disposed at an angle with respect thereto, and a cutter blade removably received within said slot and projecting axially beyond an axial face thereof, the outer end of said blade being serrated transversely of the cutting face thereof and said blade being provided with a face intersecting said serrated end surface on a line substantially radial with respect to the axis of rotation of said head.

2,317,263
TESTING DEVICE
John J. Eagan, Yonkers, N. Y.
Application September 15, 1942, Serial No. 458,433
4 Claims. (Cl. 175—183)



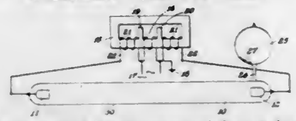
1. A testing device comprising a handle member, an opening in said handle member adjacent one end, two cables embedded in said handle member, one of said cables engaging a pin extending into said opening, a cut-out portion having a high point in the upper end of said handle member, an operating lever in said cut-out portion adapted to pivot on said high point, and a pin in said operating lever extending through said second-mentioned cable into said opening.

2,317,264
MACHINE TOOL
Karl J. Eberhardt, Cleveland, Ohio, assignor to The Warner & Swasey Company, Cleveland, Ohio, a corporation of Ohio
Application September 29, 1939, Serial No. 297,099
22 Claims. (Cl. 29—64)



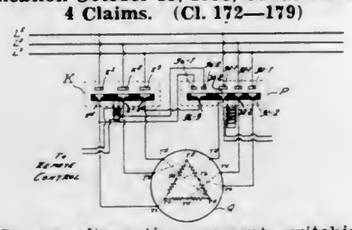
1. In a machine tool having a movable part, a power source, mechanism for connecting said part and said power source and including a clutch, a control lever therefor and change speed means, means operatively associated with said mechanism and including a member indexible to select or preselect the different rates of movement of said part and movable to actuate said change speed means to obtain the selected or preselected rate, and means operatively connecting said member with said control lever such that movement of said control lever from clutch disengaged position toward clutch engaged position first effects a movement of said member from an indexible position into a position to effect a rate change to the selected or preselected rate, then effects a movement of said member back to the indexible position while effecting an engagement of said clutch.

2,317,265
FLUORESCENT LAMP
William Foerste, Pelham Manor, and Eugene A. Quarrie, Scarsdale, N. Y.
Application July 26, 1940, Serial No. 347,590
4 Claims. (Cl. 176—122)



1. A fluorescent lamp comprising a transparent envelope of relatively short length filled with a rare gas and provided with end electrodes for effecting an electronic discharge therebetween through said gas, and a reservoir for an additional supply of the rarefied gas located outside the discharge region and permanently in open communication therewith in proximity to one of the electrodes.

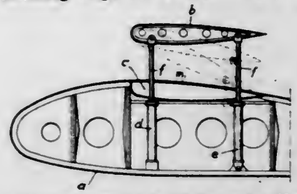
2,317,266
ELECTRIC SWITCHING SYSTEM
Paul T. Galt, Jr., Hartford, Conn., assignor to The Arrow-Hart & Hegeman Electric Company, Hartford, Conn., a corporation of Connecticut
Application October 13, 1938, Serial No. 234,836
4 Claims. (Cl. 172—179)



1. In an alternating current switching system, 3-phase power lines, a motor having windings connectible in delta or star formations to said lines, an electro-magnetic switch for connecting said windings in star formation including contacts connected to said lines and contacts connected to one end of each of said windings, said switch including a set of three contacts connected to the other ends of said windings, said three contacts being electrically separate in switch-open position and electrically common in switch-closed position, a second electro-magnetic switch for connecting said windings in delta formation, said switch having only three contacts connected to said lines, and only three other contacts engageable therewith and connected to said windings.

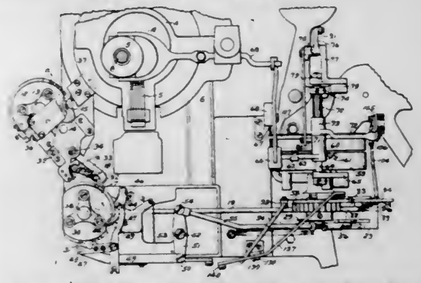
2,317,267
AIRCRAFT WING SYSTEM
Antoine Gazda, Neuilly-sur-Seine, France; vested in the Alien Property Custodian
Application March 15, 1940, Serial No. 324,197
In Switzerland February 8, 1940
4 Claims. (Cl. 244—43)

1. An aircraft wing system comprising a main wing having a recess in the anterior top surface thereof, means for increasing the lift of said main wing consisting of an auxiliary wing located in said recess having an exposed surface which is aligned with the surface of said main wing, telescoping means rigidly connected to said main wing and articulated to said auxiliary wing adjacent the leading edge thereof for moving the leading edge of said auxiliary wing relative to said main wing and telescoping means pivotally connected to said main wing and to said auxiliary wing adjacent the trailing edge thereof for moving the trailing edge of said auxiliary wing rela-



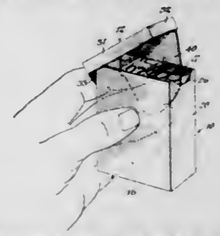
tive to said main wing and to vary the angle of incidence of said auxiliary wing when displaced relative to said main wing.

2,317,268
PATTERN CONTROL FOR KNITTING MACHINES
Isaac H. C. Green, Pawtucket, R. I., assignor to Hemphill Company, Central Falls, R. I., a corporation of Massachusetts
Application January 24, 1942, Serial No. 428,045
15 Claims. (Cl. 66—135)



1. In a knitting machine the combination of knitting instrumentalities and means for feeding yarns to be knitted in patterned relationship by said instrumentalities, pattern means operable independently and independently functioning throughout a plurality of courses of knitting to impart separate patterning movements to the instrumentalities for the purpose of causing repeated pattern figures to be knitted and another pattern means functioning upon the said first mentioned pattern means to start and stop them simultaneously at any desired course or courses throughout the pattern and to maintain timed relationship thereof.

2,317,269
CONTAINER
Charles J. R. Hammarstrom, Richmond Hill, N. Y.
Application October 16, 1941, Serial No. 415,241
3 Claims. (Cl. 229—44)



1. A container consisting of a hollow body open at one end and a cover which fits on the open end portion of said body, said cover having a

resilient extension on one end and a second separate extension on one side overlying one side wall of said body and the other side of the cover leaving the major portion of the other side wall of the body exposed, and means on said body engaged by said resilient extension to yieldingly hold said cover in closed position on said body, and to return said cover from an open position into its closed position, said second extension being manipulatable with fingers of one hand while the thumb of the hand is in contact with the opposite side wall of the body, to thereby flex the resilient extension and cause the cover to move to the open position.

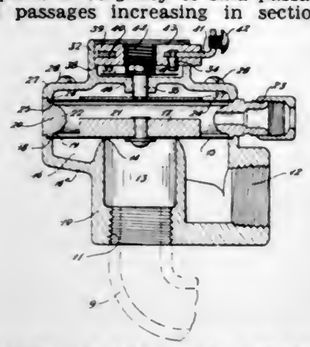
2,317,270
FLUID DISPENSING GUN
Mark Harris, Birmingham, Mich., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application March 2, 1940, Serial No. 321,844
7 Claims. (Cl. 221—47.4)



1. A manually operable fluid dispensing gun comprising a fluid reservoir, a collapsible impervious sack whose edges are fastened to the sides of the reservoir, a pressure head whose base is adapted to engage the rim of said reservoir, said pressure head terminating in a tubular extension, a nozzle slidable in said tubular extension, said nozzle also being provided with a ball check valve, resilient means urging said nozzle to slide out of said tubular extension, and a plunger held stationary with respect to the pressure head, the end of the plunger nearest the nozzle being normally spaced from the end of the nozzle to allow the access of fluid to the bore of the nozzle, but adapted to enter into and to create pressure within said bore when the nozzle is forced back into the tubular extension.

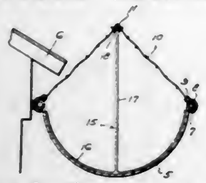
2,317,271
SNAP VALVE
Frank R. Higley and Vilynn O. Beam, Cleveland Heights, Ohio, assignors to The Bryant Heater Company, Cleveland, Ohio, a corporation of Ohio
Application September 9, 1940, Serial No. 356,011
6 Claims. (Cl. 137—153)

1. In a construction of the class described, a body member having a centrally positioned bottom pipe connection, a valve seat above said connection, a diaphragm mounted concentric therewith adapted to cooperate with said seat, said body having two branch passages around said seat and a second pipe connection with said body at the point of vergency of said passages, each of said passages increasing in sectional area



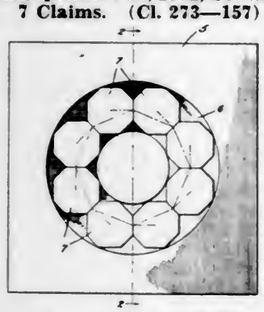
with approach to said second pipe connection, and a pressure chamber on the opposite side of said diaphragm.

2,317,272
SCREEN ATTACHMENT FOR EAVES TROUGHS
David W. Hughes, Susquehanna, Pa.
Application January 16, 1942, Serial No. 427,045
8 Claims. (Cl. 108—30)



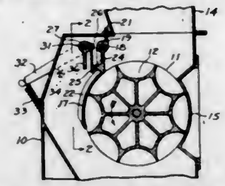
1. A support for the screen of an eaves trough comprising a base shaped to conformably fit in the bottom of said trough, and a post member rising from the base and adapted to support a screen at a point intermediate the side edges thereof.

2,317,273
PUZZLE
Harold W. Hutchison, Miami, Fla.
Application September 27, 1941, Serial No. 412,641
7 Claims. (Cl. 273—157)



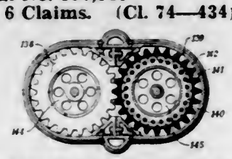
2. A puzzle comprising, a puzzle board having thereon a closed area and a plurality of congruent puzzle pieces of geometric shape, the shape of each piece being regular for the major portion of its periphery and slightly irregular for a minor portion, said area being too small to permit assembling the puzzle pieces within its confines except when the pieces are arranged with the irregular portion of each piece in contact with the periphery of an adjacent piece.

2,317,274
ROTARY FEEDER
Oscar A. Johnson, Worcester, Mass., assignor to Riley Stoker Corporation, Worcester, Mass., a corporation of Massachusetts
Application July 10, 1940, Serial No. 344,768
4 Claims. (Cl. 221—106)



1. A feeder comprising a substantially horizontal rotary drum having a plurality of pockets in its periphery, means to supply material to the upper portion of the drum, a series of fingers arranged side by side adjacent the down-running portion of the drum to form a seal, means supporting said fingers for movement toward and away from the drum, a member located adjacent the fingers and movable independently thereof, a series of springs connecting the fingers with the member and urging the fingers yieldably toward the drum, and means yieldably restraining said member against movement under the influence of the loading of said springs.

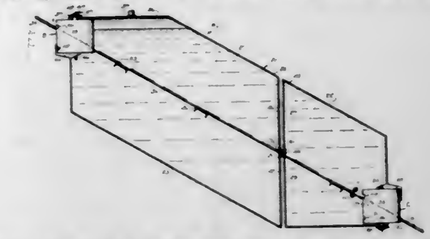
2,317,275
HYDRAULIC MOTOR GEAR
Phillip A. Kinzie, Denver, Colo.
Original application May 31, 1939, Serial No. 276,593. Divided and this application June 9, 1941, Serial No. 397,346
6 Claims. (Cl. 74—434)



1. A gear adapted for use in hydraulic motors of the character described comprising a metallic skeleton framework having horizontal and vertical members secured together, said vertical members being spaced around the periphery of the framework to form reinforcing members for gear teeth, and a resilient material secured to the periphery of the framework to form teeth and intermediate grooves.

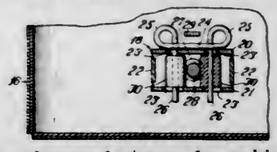
2,317,276
PRESSURE APPARATUS
Milton Knight, Perrysburg, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
Application December 14, 1939, Serial No. 309,136
9 Claims. (Cl. 154—2.70)

6. In apparatus for use in the compositing of laminated safety glass, an autoclave containing fluid under pressure, locks associated with the entrance and discharge ends of said autoclave and through which sandwiches to be treated may be passed into and subsequently discharged from the autoclave without materially affecting the pressure of the fluid therein, at least one of said locks comprising a substantially vertically arranged drum having an entrance and a discharge opening in substantially vertical alignment in one wall thereof, closure means for said openings engaging the walls of said drum, means for causing rotary movement of said drum to open and close said openings, means for building up fluid pressure within the drum, and sta-



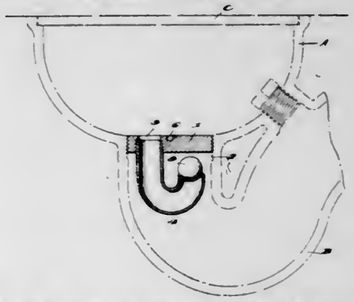
tionary means arranged within said autoclave and said locks and at an angle to the horizontal for supporting the sandwiches for movement therethrough.

2,317,277
CLOSURE FASTENER
Harvey G. Knuth, Elgin, Ill., assignor to Modern Steel Equipment Company, Geneva, Ill., a corporation of Illinois
Application December 16, 1940, Serial No. 370,386
5 Claims. (Cl. 292—15)



1. In a closure fastener for cabinet doors, a rectangular metal housing whose end walls are provided with bendable extensions, opposite side walls of the housing being provided with registering slots; a double looped spring wire whose ends are disposed in the same direction and normally flex toward each other, the intermediate looped portion of the spring wire being seated on the housing exterior with its ends disposed through the slots in the side walls; the housing exterior having an integral tongue adapted to overlap the intermediate portion of said spring wire to maintain the latter in place.

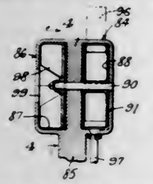
2,317,278
DRAIN TRAP
Uno L. Larson, Gary, Ind.
Application April 16, 1942, Serial No. 439,249
3 Claims. (Cl. 182—14)



1. A trap unit for use in a drain fitting having a liquid collecting bowl and a drain pipe leading from said bowl to discharge liquid by gravity from said bowl to a sewer, said trap comprising a disc externally screw-threaded to engage

with internal screw-threads in the upper portion of said drain pipe to secure said unit in proper position in said fitting, said disc being formed with a large drain perforation extending through its upper and lower faces, and the lower portion of the wall of said perforation being internally screw-threaded, in combination with a discharge pipe with its lower portion bent to form an elbow to contain a liquid-seal and having its upper end portion externally screw-threaded and in liquid and gas tight screw-thread engagement with the screw-threaded portion of the wall of said perforation, and a non-floating ball valve normally closing the free end of said discharge pipe against the escape of back-flow liquid or gas through said discharge pipe, all portions of said elbow of said discharge pipe lying within the vertical plane of said disc, and the diameter of said ball valve being appreciably greater than the distance between the lower face of said disc and the upper face of the free end of said discharge pipe to prevent the escape of said ball valve from operative relation to said discharge pipe.

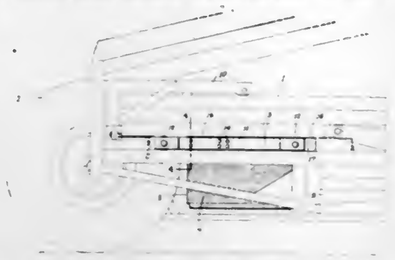
2,317,279
BLOWER FOR CLOTHES PRESSING MACHINES
Foster Laughlin, Dayton, Ohio
Application August 30, 1941, Serial No. 409,049
1 Claim. (Cl. 230—116)



A blower of the character described comprising a cylindrical housing, a standard formed integral with the housing and adapted to support the latter with its axis disposed horizontally, the said housing having one end completely closed and the opposite end closed with the exception of a restricted central opening, a transverse partition formed intermediate the ends of the housing and in registration with the partition dividing the interior into a steam chamber and an air chamber, an axially extending spindle rotatably journaled in the center of the partition having an end portion projecting into the steam chamber and an opposite end portion extending into the air chamber, the bottom of the steam chamber having an inlet, a steam supply pipe connected with the said inlet, the top of the said steam chamber having an exhaust outlet, a steam rotor wheel fixed on the spindle within the steam chamber for rotation by the steam admitted through the inlet, the said air chamber having an outlet nozzle at the lower portion thereof, and a fan fixed to the spindle within the air chamber adapted to draw air through the central end opening therein and discharge the same under pressure through the bottom outlet of the air chamber.

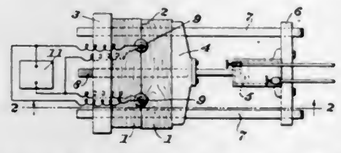
2,317,280
BOWL MOUNTING
Robert G. Le Tourneau, Peoria, Ill., assignor to R. G. Le Tourneau, Inc., a corporation of California
Application April 1, 1941, Serial No. 386,281
12 Claims. (Cl. 37—124)

9. In a scraper, a front bowl, a rear bowl disposed to telescope the front bowl, a scraper frame including side beams disposed alongside said bowls, and means independent of the front



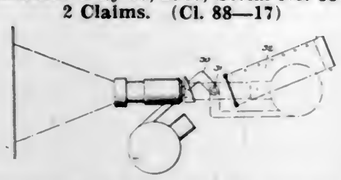
bowl non-tiltably supporting the rear bowl from said side beams for straight line movement relative to said front bowl.

2,317,281
EDGE GLUING PROCESS
George F. Linquist, Seattle, Wash., assignor to I. F. Laucks, Inc., Seattle, Wash., a corporation of Washington
Application April 9, 1942, Serial No. 438,334
7 Claims. (Cl. 144—309)



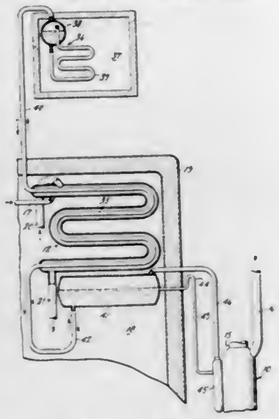
1. The method of uniting surfaces with a cold-setting glue whose rate of setting is accelerated by heat, which comprises applying external gluing pressure, maintaining said gluing pressure over the entire surface to be glued while simultaneously heat-setting a portion of the surface and then releasing the external pressure and permitting the remainder of the surface to cold-set while gluing pressure is maintained by the adhesion of the heat-set area.

2,317,282
MOVING PICTURE FILM AND PROJECTING APPARATUS
Miguel Lopez-Henriquez, New York, N. Y.
Application May 28, 1940, Serial No. 337,622
2 Claims. (Cl. 88—17)



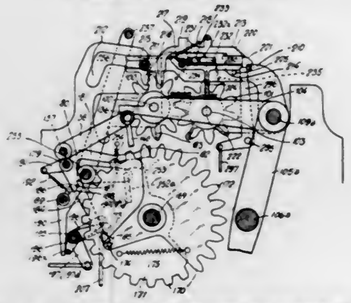
1. A projecting apparatus for projecting pictures on a screen from a substantially transparent film and from an opaque film including a unitary source of light, swingable means for supporting said source of light so that it will project a beam of light on to said film at an angle therto when projecting pictures from an opaque film or supporting said source of light so that it will project a beam of light through said film when the film is substantially transparent and means for focusing the light emanating from either of said films on said screen.

2,317,283
REFRIGERATION
Erik Sigfrid Lynger, Stockholm, Sweden, assignor, by mesne assignments, to Servel, Inc., New York, N. Y., a corporation of Delaware
Application June 22, 1938, Serial No. 215,111
In Germany July 6, 1937
28 Claims. (Cl. 62—125)



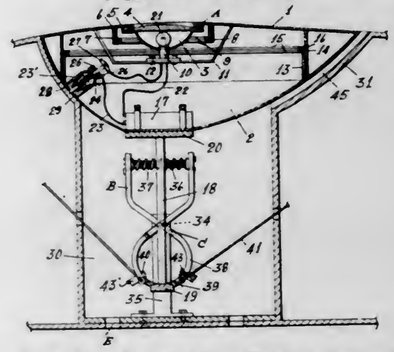
1. A method of heat transfer which includes simultaneously vaporizing liquid at a place of evaporation at an upper elevation and condensing vaporized fluid in a place of condensation at a lower elevation, collecting condensate at a place of accumulation, and intermittently stopping such vaporization of liquid and condensation of fluid and raising liquid condensate to said place of evaporation by trapping vapor above a surface level of accumulated condensate to exert force thereon, and thereafter releasing such trapped vapor to said place of condensation to terminate the raising of liquid condensate to said place of evaporation.

2,317,284
BOOKKEEPING MACHINE
Elis Magnus Magnusson, Stockholm, Sweden, assignor, by mesne assignments, to Ekonomiregister Inc., New York, N. Y., a corporation of New York
Application July 30, 1938, Serial No. 222,244
In Sweden July 8, 1936
7 Claims. (Cl. 235—60)



1. In accounting apparatus having a plurality of actuators, an adding and subtracting totalizer, mechanism movably supporting said totalizer for engagement with the actuators in different relations thereto for positive total taking, and for negative total taking, means to control the totalizer for a selected type of engagement, and means to select the type of engagement, and means controlled by the selecting means operating to enter a fugitive one in said totalizer when the amount contained therein is negative.

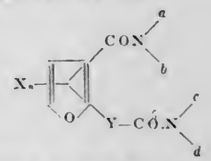
2,317,285
FLOAT FOR AIRCRAFT
Elmore B. Marple, Wichita, Kans.
Application June 15, 1942, Serial No. 447,059
3 Claims. (Cl. 9—9)



1. In a float for an aircraft, a concavo-convex wall for the lower portion of the float and a crowned wall to close the concavity of said lower portion of the float whereby an air chamber is formed, a concavo-reflector in the air chamber, said reflector having an electric lamp therein, a lens to cover the reflector, said lens reflector and its lamp being concentrically positioned in the said crowned upper wall, an electric supply to illuminate the lamp and a switch to make and break a circuit for the lamp, means to anchor the float visually connected to the aircraft, and means to disengage the anchor to free the float for its removal from the aircraft.

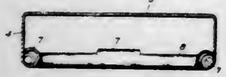
2,317,286
FURANE-DICARBOXYLIC-ACID-AMIDES AND THEIR MANUFACTURE
Henry Martin, Basel, Walter Baumann, Arlesheim, near Basel, and Hans Gysin, Basel, Switzerland, assignors to the firm J. R. Geigy A. G. Basel, Switzerland
No Drawing. Application December 20, 1940, Serial No. 371,050. In Switzerland December 2, 1939
7 Claims. (Cl. 260—345)

1. The amides of furane-dicarboxylic acids of the following general formula



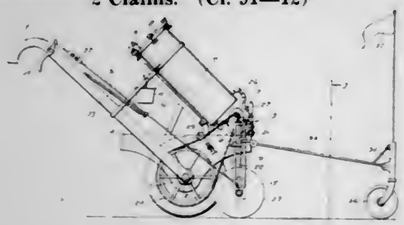
wherein X means a member of the group consisting of H and alkyl, Y means a member of the group consisting of CH_2 and the direct linkage, n being one to two, and a, b, c, d mean monovalent radicals selected from the group consisting of alkyl, cycloalkyl and aryl radicals of the benzene series, and the couples a b and c d mean divalent aliphatic radicals, prepared for use as therapeutics.

2,317,287
CLOSURE
Arnold R. McCombs, Lancaster, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania
Application July 1, 1938, Serial No. 216,870
2 Claims. (Cl. 215—44)



1. A closure cap having a top and dependent skirt portion, a bead formed on the lower edge of said skirt portion on the inside thereof, said bead being undistorted for its entire length and of the same cross-sectional shape and having portions of larger radii than other portions, said portions of larger radii being adapted to engage suitable projections on a container without interrupting the continuity of the bead.

2,317,288
ROAD MARKING MACHINE
Ross C. McCubbin, Auburn, Calif.
Application December 16, 1941, Serial No. 423,216
2 Claims. (Cl. 91—12)



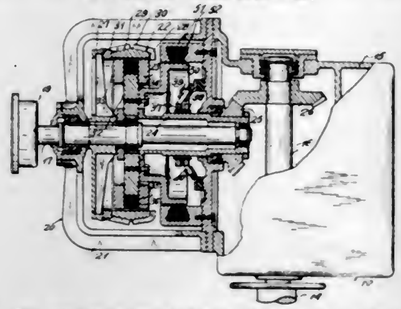
1. A road marking machine comprising a wheel supported platform, an arm projecting laterally from said platform, inverted forks mounted for vertical sliding movement on said arm, a pair of spaced, opposed discs rotatably mounted on the lower portions of said forks, springs connected to the forks for yieldingly urging the discs downwardly into engagement with the surface over which the machine is moving, a paint container mounted on the platform, a nozzle between the discs, and means connecting said nozzle to the container for receiving paint therefrom.

2,317,289
TABLE TYPE BOWLING APPARATUS
Walter P. McDonald, Oklahoma City, Okla.
Application April 16, 1941, Serial No. 388,837
3 Claims. (Cl. 273—129)



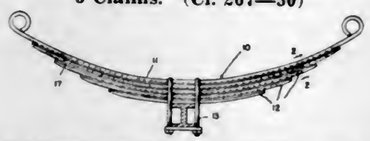
1. A ball driving mechanism for table type bowling comprising: an upright standard adapted to be attached to a table near one of its ends for suspending a ball striker in a position substantially over the longitudinal center line of the table; a ball striker; a fork having its upper end journaled in said standard to afford rotational movement about a substantially vertical axis; a wheel journaled between the tines of said fork; and an elongated suspension member suspending said striker from said wheel for swinging movement in any direction.

2,317,290
WINDING APPARATUS
Edwin J. McIlvried, Stow, Ohio, assignor to The Vaughn Machinery Company, Cuyahoga Falls, Ohio, a corporation of Ohio
Application October 10, 1939, Serial No. 298,839
4 Claims. (Cl. 242—45)



1. In winding apparatus of the character described, the combination of rotatable means upon which material is adapted to be wound, means for driving said rotatable means including an electromagnetic clutch, a member engaging the wound material and adapted to be moved thereby as the material builds up on said rotatable means, and means actuated by movement of said member for varying the magnetization of said clutch.

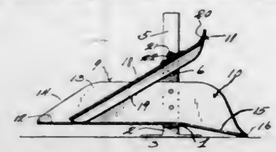
2,317,291
LINER OR SPACER FOR LEAF SPRINGS
Brouwer D. McIntyre, Monroe, Mich., assignor to Monroe Auto Equipment Company, Monroe, Mich., a corporation of Michigan
Application April 21, 1941, Serial No. 389,675
3 Claims. (Cl. 267—50)



1. In a leaf spring having superimposed spring leaves, one of the spring leaves having a longitudinally extending groove, a liner comprising an elongated relatively flat strip of fibrous material interposed between adjacent spring leaves and having a longitudinally extending rib at one side thereof extending into said groove to prevent lateral shifting movement of the liner relative to the grooved spring leaf, and a coating of material on said rib having a greater coefficient of friction than the fibrous strip and engageable with the base of the groove to prevent shifting movement of the liner relative to the grooved spring leaf in the direction of length of the latter.

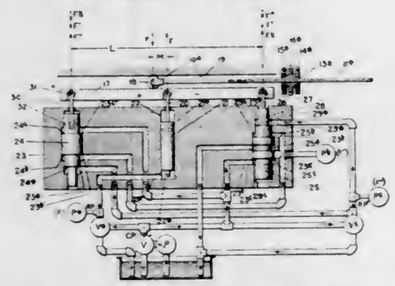
2,317,292
BAG LOADING OR FILLING DEVICE
Ralph W. E. Nash, Nashua, N. H.
Application August 19, 1941, Serial No. 407,481
6 Claims. (Cl. 226—18)

2. A container filling device, comprising an elongated horizontally disposed body having longitudinal side walls, a pair of fixed standards disposed upon opposite sides of the body, an elongated plate extending lengthwise over the body and disposed between said standards, and a pivotal coupling between said plate and the standards for oscillation of the plate on an axis extending transversely of the body, said pivotal coupling between the plate and the



standards being constructed and arranged to provide means to allow the plate to have free movement longitudinally of the standards whereby the plate and body are movable relatively toward and away from one another simultaneously with the oscillation of the plate on said axis.

2,317,293
COMPUTER MECHANISM
William H. Newell, New York, N. Y., assignor to Ford Instrument Company, Inc., Long Island City, N. Y., a corporation of New York
Continuation of application Serial No. 45,052, October 15, 1935. This application September 22, 1939, Serial No. 296,050
8 Claims. (Cl. 235—61)



1. A mechanism for effecting mathematical computations comprising two oppositely directed plungers operating upon a lever arm having a fixed length and constituting a couple, and means to produce a second couple in opposition to the first including an adjustable fulcrum for the lever arm and a hydraulic medium acted upon by one of the plungers and opposing the movement thereof in the direction induced by the moment of the first couple.

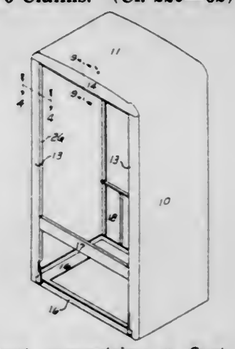
2,317,294
MAGNETIC MATERIAL
Ethan A. Nesbitt, Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Original application December 30, 1939, Serial No. 311,735. Divided and this application March 25, 1942, Serial No. 436,149
2 Claims. (Cl. 148—2)

1. A tough non-brittle magnetic article of high permanent magnet properties composed of an alloy comprising as essential constituents 30 to 52 per cent iron, 36 to 62 per cent cobalt, and 6 to 16 per cent chromium produced by heating the alloy to from 800° to 1300° C., cooling substantially below 600° C., forcibly elongating the material in the cold condition, thereafter maintaining it at around 500° C. to 800° C. for a period of time from several hours at the lower range to a much shorter time at the higher range and thereafter magnetizing it.

2,317,295
PERMANENT MAGNET AND PROCESS OF PRODUCTION
Ethan A. Nesbitt, Brooklyn, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application November 13, 1941, Serial No. 419,039
6 Claims. (Cl. 148—21.5)

1. For use as a magnet an alloy composed of 40 to 50 per cent iron, 10 to 20 per cent nickel, 20 to 40 per cent copper and 5 to 15 per cent vanadium.

2,317,296
CABINET STRUCTURE
Earl E. Nofzinger, Greenville, Mich., assignor to Gibson Electric Refrigerator Corporation, Greenville, Mich., a corporation of Michigan
Application December 4, 1939, Serial No. 307,381
6 Claims. (Cl. 220—62)



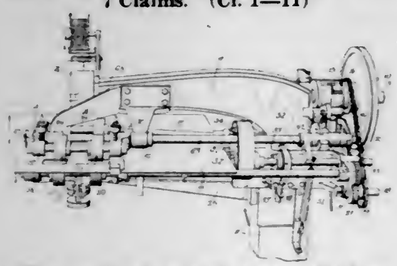
1. A cabinet comprising a first sheet metal blank having an elongated generally rectangular notch formed in one edge thereof and provided with recesses adjacent the opposite ends of said notch, said blank being bent at substantially right angles to the plane thereof along a longitudinal line extending in close proximity to the edge of the blank defining the inner margin of said notch to form laterally extending flange portions at the opposite sides of said notch, said blank also being bent along parallel transverse lines intersecting said notch in the region of said recesses to form a generally U-shaped configuration, and a second sheet metal blank in the form of a header having enlarged portions at its opposite ends, said header being positioned in said notch with the enlarged ends of the header disposed in said recesses to form the corners at the junction of the contiguous wall portions, the two blanks being permanently secured together.

2,317,297
DENTIFRICE
Allen Llewellyn Omohundro, Wilton, and Emil Conrad Fanto, Fairfield, Conn., assignors to McKesson & Robbins, Incorporated, Bridgeport, Conn., a corporation of Maryland
No Drawing. Application October 5, 1940, Serial No. 359,966
7 Claims. (Cl. 167—93)

1. A dentifrice comprising an oxygen-supplying

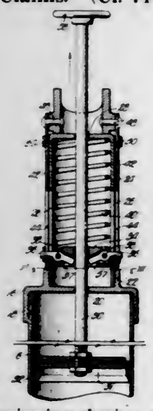
component chosen from the group consisting of peroxides, percarbonates, perborates of the alkali and alkaline earth metals and a complex compound containing hydrogen peroxide with salts of the alkali or alkaline earth metals which reacts with the water present during dentifrice use to liberate oxygen with the formation of an alkali; boric acid; and a solid straight chain hexahydric alcohol which will combine with the boric acid in the presence of the water present during dentifrice use to form a reagent of substantially greater acidity than the boric acid, the boric acid and alcohol being present in proportions appropriate to produce a predetermined alkalinity in the products of reaction of the reagent with said alkali.

2,317,298
STITCHING MACHINE
Walter R. Pabich and Herbert Tellfors, Chicago, Ill., assignors, by direct and mesne assignments, to Harris-Seybold-Potter Company, Cleveland, Ohio, a corporation of Delaware
Application July 22, 1940, Serial No. 346,836
7 Claims. (Cl. 1—11)



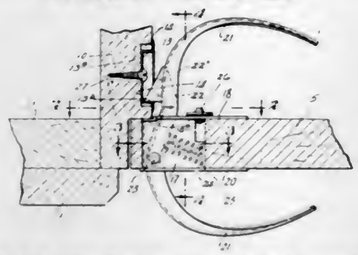
1. The combination with a wire stitching machine, a main drive shaft mounted on said frame, a stitching mechanism mounted on said frame and driven by said shaft for inserting staples in box blanks passing thereunder, box blank feeding mechanism including intermittently driven feed rolls mounted on said frame, a ratchet wheel and pawl mechanism driven by said shaft for actuating said feed rolls and advancing said box blanks in a step by step movement, and means actuated by said box blanks for varying the intermittent movement of said feed rolls.

2,317,299
CALKING GUN
Albert G. Peters, Kansas City, Mo.
Application November 16, 1940, Serial No. 365,933
4 Claims. (Cl. 74—169)



1. In a rod gripping device, a thimble having a closed end, a head in said thimble, said head and closed end having aligned openings for slidably receiving a rod, dogs pivoted on said head, yielding means for normally urging the dogs to gripping engagement with said rod and for moving said head and rod in one direction, and means attached to said dogs for releasing the dogs from engagement with the rod and for moving said head in the opposite direction against the action of said yielding means.

2,317,300
DOOR LATCH OF THE BORED-IN TYPE
Bert A. Quinn, St. Paul, Minn.
Application January 2, 1941, Serial No. 372,748
3 Claims. (Cl. 292—126)



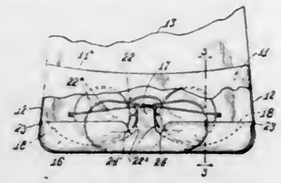
1. A lock mechanism comprising a tubular casing having opposite rounded side portions adapted to fit snugly within a cylindrical aperture in a door and intermediate flattened side portions, an anchoring escutcheon plate for one side of the door extending at right angles to and integral with adjacent ends of the flattened sides of the casing, a double-ended handle extending through the tubular casing and intermediately pivoted to the flattened sides thereof, said handle having a latch dog projecting therefrom at a point offset from the handle pivot, and a spring located within the casing and compressed between the handle and casing and exerting yielding force tending to render the latch dog operative.

2,317,301
PROCESS OF TREATING BUILDING MATERIALS
Anderson W. Ralston and Robert J. Vander Wal, Chicago, Ill., assignors to Armour and Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application April 3, 1941, Serial No. 386,680
10 Claims. (Cl. 117—123)

1. The process of rendering siliceous construction materials resistant to the passage of water therethrough which comprises treating such siliceous materials after formation thereof into their ultimate shape with amines chosen from the group consisting of aliphatic amines containing at least eight carbon atoms in an alkyl group thereof, and salts thereof.

2,317,302
SPECTACLE CASE AND INSERT THEREFOR
Morris B. Roth, Chicago, Ill.
Application August 23, 1941, Serial No. 408,041
3 Claims. (Cl. 206—5)

3. A one-piece elongated frame, adapted for insertion into a spectacle case to reinforce the latter, comprising a centrally located enlargement extending upwardly above the top plane of the frame to be embraced by the nose pads of a pair of spectacles when the latter are placed in the case and shallow longitudinal channels one on each side of said enlargement open along their upper extent to receive the margins of the spectacle lenses to prevent their being crushed, and

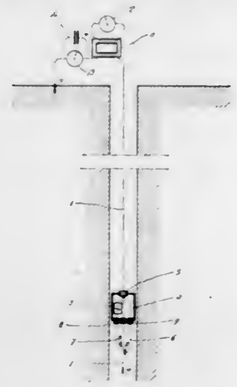


the ends of said frame terminating in relatively sharp edges to frictionally engage the inside face of the case ends when the frame is in place therein.

2,317,303
HETEROCYCLIC NITROGEN CONTAINING COMPOUNDS, AND PROCESSES FOR MAKING THE SAME
William L. Ruigh, Princeton, N. J., assignor to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey
No Drawing. Application December 7, 1940, Serial No. 369,138
10 Claims. (Cl. 260—297)

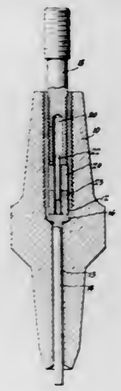
1. The process comprising treating the lithium derivative of α-picoline with an anhydride of an aliphatic acid.

2,317,304
APPARATUS FOR THE ELECTRICAL SURVEYING OF BOREHOLES
Conrad Schlumberger, Paris, France; Anne Marguerite Louise Doll, administratrix of said Conrad Schlumberger, deceased, assignor, by mesne assignments, to Schlumberger Well Surveying Corporation, Houston, Tex., a corporation of Delaware
Application May 11, 1935, Serial No. 21,072
In France April 5, 1935
29 Claims. (Cl. 175—182)



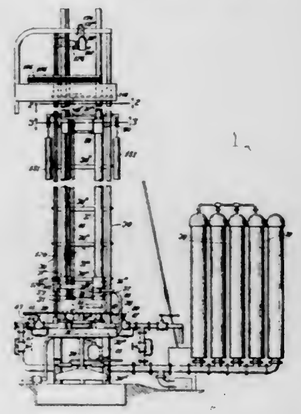
1. A device for measuring in a bore hole filled with liquid the electrical resistivity of the formations traversed by said bore hole, said device comprising a source of current adapted to be lowered into said bore hole in the neighborhood of the formation to be surveyed, two electrodes adapted to be submerged in said liquid and connected to the terminals of the source of current, and means for measuring the differences of potential created in the formations by said source of current.

2,317,305
INSULATOR SEAL
Karl Schwartzwalder and Robert W. Smith, Flint, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application July 5, 1941, Serial No. 401,222
4 Claims. (Cl. 123—169)



1. A ceramic body having a passageway therethrough, a recessed terminal in said passageway, a conductor in the passageway and in contact with the terminal through its recesses, said conductor having a low coefficient of thermal expansion, a fluid-tight seal of hard glass bonded to the conductor and the ceramic body, and a glass seal of greater plasticity than the first glass seal between the insulator and the terminal.

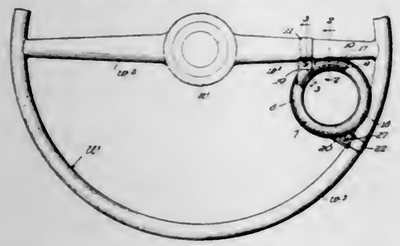
2,317,306
ROTARY DRILLING RIG
James E. Smith, Pittsburg, Tex.
Application June 22, 1940, Serial No. 341,868
9 Claims. (Cl. 255—22)



1. A rotary drilling rig of the character de-

scribed comprising a derrick composed of a plurality of vertically disposed uprights arranged in substantially semi-circular spaced relation and secured together by a plurality of vertically spaced tie-members, vertically disposed hydraulic cylinders arranged at opposite sides within the derrick and each provided with a piston; vertically arranged cylinder extensions at the upper ends of the cylinders; a plunger connected to each piston and slidable in each cylinder and cylinder extension; tubular sleeve members slidable on the cylinders and said cylinder extensions with their upper ends secured to said plungers; a rotor carrying table housing provided with a pipe receiving opening therethrough, said housing being secured to the lower ends of the tubular sleeves so as to travel vertically therewith; a swivel connection removably seated in the table housing opening in operative relation with the rotor so as to rotate therewith, the lower end of said swivel connection being adapted to effect operative relation with the drill pipe therebeneath; a fluid supply line for the swivel connection; a source of power medium supply for said rotor; and a pressure medium supply for said cylinders.

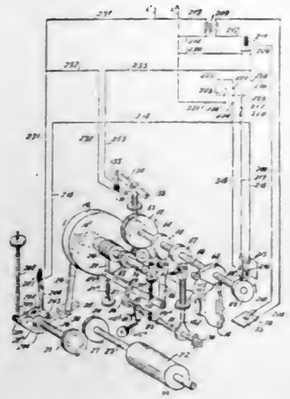
2,317,307
STEERING WHEEL ATTACHMENT
William H. Snow, Chicago, Ill.
Application June 21, 1941, Serial No. 399,047
9 Claims. (Cl. 74—557)



1. An attachment designed for use in spinning or freely rotating a steering wheel of the hub, spoke and rim type, and comprising a rigid finger receiving ring adapted to fit against the outer end of one of the spokes and the adjoining portion of the rim of the wheel, and releasable means for securing the ring in place including an outwardly extending lug on the ring and adjacent that portion thereof that is adapted to fit against the spoke, a split spoke surrounding band having the ends thereof anchored to the lug, a second lug connected to, and extending outwardly from, that portion of the ring that is adjacent the portion which is adapted to fit against the adjoining portion of the wheel rim, and a split rim encircling band having the ends thereof connected to said second lug.

2,317,308
TIE STITCH MECHANISM
William R. Spiller, Dayton, Ohio, assignor to Harris-Seybold-Potter Company, Cleveland, Ohio, a corporation of Delaware
Application March 21, 1941, Serial No. 384,527
33 Claims. (Cl. 1—11)

1. In a machine for stitching a box side seam, stitching mechanism operating at regularly recurrent intervals, intermittent feeding means tending to move the box blank forward a predetermined distance between successive stitches, means for starting said stitching and feeding mechanisms, and means responsive to the move-

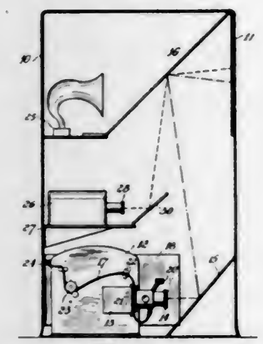


ment of the box blank through the machine for limiting the extent of feed prior to the last stitch.

2,317,309
DOUBLE SALTS OF FERROUS SALTS AND PYRIDINE CARBOXYLIC ACID AMIDE
Hans Stenzl, Basel, Switzerland, assignor to the firm J. R. Geigy A. G., Basel, Switzerland
No Drawing. Application November 19, 1941, Serial No. 419,803. In Switzerland August 24, 1940
3 Claims. (Cl. 260—270)

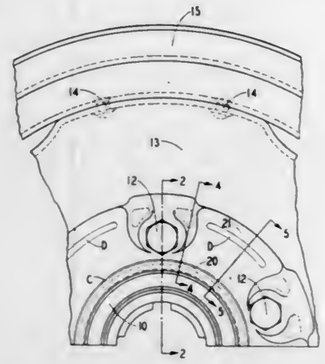
1. A double-salt of a ferrous salt and a pyridine-carboxylic acid amide, prepared for use as a therapeutic.

2,317,310
FILM AND SLIDE PROJECTING APPARATUS
Yermie Stern, New York, N. Y., assignor, by mesne assignments, to Gertrude Israel, New York, N. Y.
Application April 30, 1941, Serial No. 391,074
7 Claims. (Cl. 88—16.2)



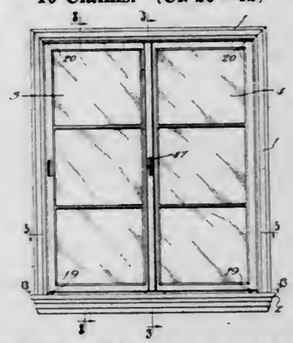
2. An electric circuit comprising a constant duty relay, a current source and a switch for controlling said constant duty relay, said switch being controlled by a make relay and a break relay having means for interlocking said two relays, said constant duty relay controlling a plurality of switches, a number of said switches being normally open when said constant duty relay is not energized, the remainder of said switches being normally closed when said constant duty relay is not energized, said normally open switches being in line with a current source and a film projector for projecting a motion picture film, an exciter lamp and a loud-speaker, said normally closed switches controlling a slide projector for projecting slide pictures and connected with a current source, a switch having three positions, one position for energizing said make relay, a second position for energizing said break relay, and a third position for selectively energizing said make relay and said break relay, a film switch and a slide switch in line with said switch in its third position, said film switch being arranged to be closed when a predetermined portion of the film has been played for energizing said break relay, said slide switch being arranged to be closed when a predetermined number of the slide pictures has been shown for energizing said make relay, said film switch and said slide switch being effective in the third position of said three-way switch for controlling said make relay and said break relay.

2,317,311
VEHICLE WHEEL
Charles R. Stough, Lansing, Mich., assignor to Motor Wheel Corporation, Lansing, Mich., a corporation of Michigan
Application December 12, 1941, Serial No. 422,609
17 Claims. (Cl. 301—9)



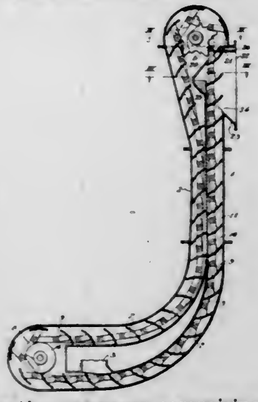
1. A reversible wheel including, in combination, a radial hub flange provided with a plurality of openings circumferentially spaced apart about the hub axis in an annular zone concentric with said axis, a one piece pressed metal wheel flange provided with a plurality of openings axially aligned with the corresponding openings in the hub flange, and securing means in said openings for detachably clamping the wheel flange to the hub flange, means integral with one of said flanges and located radially inwardly of said zone and means integral with one of said flanges and located radially outwardly of said zone for spacing the wheel flange from the hub flange in said zone when either face of the wheel flange is clamped to the hub flange by said securing means, certain of said spacing means being integral with the wheel flange and the radial distance between the spacing means for one face of the wheel flange being substantially equal to the radial distance between the spacing means for the other face of the wheel flange.

2,317,312
WINDOW CONSTRUCTION
Earl C. Swanson, Vernon P. Fredricksen, and Perry Craig Gaskell, Bayport, Minn., assignors to Andersen Corporation, Bayport, Minn., a corporation of Minnesota
Application October 18, 1940, Serial No. 361,670
10 Claims. (Cl. 20—42)



1. A window construction comprising a frame, a sash mounted in said frame for sliding movement to open and to closed position, weatherstrips on said frame and said sash adapted to interchange when the sash is in closed position and thereby prevent removal of said sash from said frame, means for guiding the movement of said sash to open position and breaking engagement between said weatherstrips, and means operable after weatherstrip engagement has been broken for removing the sash from the frame.

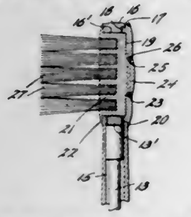
2,317,313
ELEVATING CONVEYER
William H. Thoma, Pittsburgh, Pa.
Application November 12, 1942, Serial No. 465,331
10 Claims. (Cl. 198—65)



1. An elevating conveyer comprising a conduit having a substantially vertical portion with a lateral discharge outlet near its upper end, an endless chain traveling through the conduit, material-lifting flights connected to the chain, chain-supporting means in the conduit above said outlet and around which the chain travels, said flights being so positioned relative to the chain that it carries them edgewise around said supporting means, and a partition wall above said discharge outlet provided with an opening for the chain and flights, said opening being restricted in size and snugly receiving the chain and flights as the flight

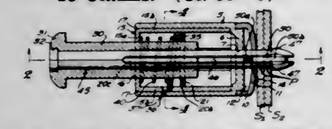
travel edgewise around said supporting means whereby said opening is materially smaller than the cross sectional area of said vertical portion of the conduit so that substantially no material being conveyed can pass said partition wall.

2,317,314
MOTOR-DRIVEN BRUSH
Egbert Van Haaften, Lancaster, Pa.
Application October 15, 1940, Serial No. 361,326
3 Claims. (Cl. 15—28)



1. In a motor-driven brush, a shaft, motor means for rotating said shaft, a tubular casing enclosing said shaft and formed at one end with a circular eye providing an annular bearing, a ring gear mounted in said bearing, said ring gear having a peripheral flange overlying one edge of said eye, toothed means carried on the adjacent end of said shaft and meshing with said ring gear, and a bristle carrier extending through said eye and ring gear and detachably secured to said ring gear, said bristle carrier having a peripheral flange adapted to overlie the edge of said eye opposite to said ring gear, whereby said gear and carrier are maintained in place relative to said eye.

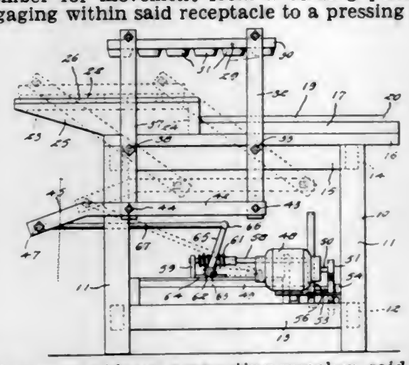
2,317,315
SKIN CLAMP
Frank C. Wallace, Los Angeles, Calif., assignor, by mesne assignments, to Herman H. Helbush, Beverly Hills, Calif.
Application June 2, 1942, Serial No. 445,437
13 Claims. (Cl. 85—5)



1. In a clamp for holding perforated sheets together in superposed relation, the combination of a tubular housing, a retaining member reciprocally mounted longitudinally of the housing for protractive and retractive movement with respect thereto, a locking ring disposed circumferentially of the retaining member, said ring being of larger internal diameter than the external diameter of the retaining member and means pivoting the ring in the housing in a manner to permit it to swing diagonally about the retaining member whereby to lock the latter against longitudinal movement with respect to the housing.

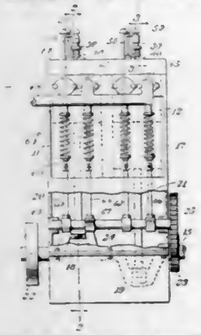
2,317,316
BUN PRESSING MACHINE
Dorsey Edwin Walter, Sedalia, Mo.
Application November 26, 1941, Serial No. 420,565
3 Claims. (Cl. 107—15)

1. A bun pressing machine comprising a frame, a pan supporting member carried by said frame, an upwardly opening flour receptacle carried by said frame rearwardly of said pan supporting member, means supporting said receptacle in upwardly offset relation with respect to said pan supporting member, a bun pressing member including a horizontally disposed plate and a plurality of spaced apart bun engaging members secured to and depending from the lower side of said plate, means supporting said bun pressing member for movement from a coating position engaging within said receptacle to a pressing po-



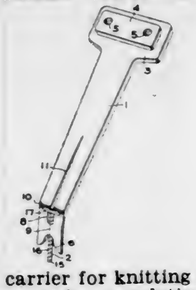
sition over said pan supporting member, said latter means including opposed pairs of levers pivotally secured intermediate the ends thereof to said frame, a pair of tie bars pivotally secured to the lower ends of the levers and extending rearwardly therefrom, a shaft connecting the rear ends of said tie bars together, a link connected at one end to said shaft, and means connected to the opposite end of said link for oscillating said link.

2,317,317
AIR MOTOR
Earl W. Waterman, Coleville, Calif.
Application August 11, 1941, Serial No. 406,433
2 Claims. (Cl. 121—122)



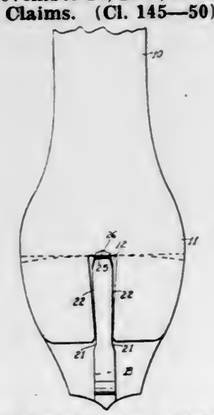
1. In an air motor having a cylinder and a piston mounted for reciprocation within the cylinder to provide a working chamber therein, said chamber having an air inlet port, a valve mechanism for admitting air into the working chamber of the motor comprising a source of fluid pressure, a sleeve communicating with the air inlet port of the working chamber, a valve seat in the said sleeve, an upwardly seating valve having an upstanding stem portion disposed within the sleeve, spring means normally holding the valve against the said seat, a casing slidably mounted on the sleeve having an air inlet communicating with the source of fluid pressure, a valve seat in the casing below the said air inlet, a downwardly seating valve disposed within the casing, said valve having a depending stem portion engageable with the stem of the first mentioned valve, and spring means normally holding the second valve against the last mentioned seat, whereby shifting of the casing along the sleeve will move the valve stems into engagement with each other to effect simultaneous unseating of the said valves.

2,317,318
KNITTING MACHINE
Frank G. Weisbecker, Glenside, Pa., assignor to Hosiery Patents Incorporated, Lansdale, Pa., a corporation of Pennsylvania
Application March 5, 1942, Serial No. 433,511
11 Claims. (Cl. 66—126)



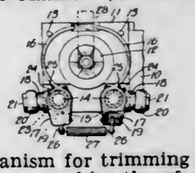
1. In a yarn carrier for knitting machines, the combination comprising a relatively rigid yarn carrier arm, a removable guide tube supported by said arm and having an intermediate portion thereof of resilient construction in the form of coiled wire, and a latching device for retaining said tube and said carrier arm in assembled relation, said tube being removable from said arm by flexing said tube to disengage said latching device and sliding said tube endwise.

2,317,319
SCREW DRIVER
Maxwell A. West, Portland, Oreg., assignor to Champion, Inc., Portland, Oreg., a corporation of Oregon
Application November 14, 1941, Serial No. 419,161
4 Claims. (Cl. 145—50)



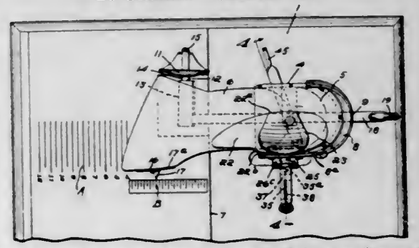
1. In a screw driver having a shank and a movable bit inserted in the end of the shank, a pair of slots in the end of said shank intersecting at right angles on the shank axis and having their opposite walls inclined towards each other from bottom to mouth, wings on said bit corresponding to said slots, the thickness of said wings at their inner ends being less than the width of said slots at the slot bottoms but slightly greater than the width of said slots at their mouths, and the thickness of said wings adjacent the slot mouths being approximately the same as the width of said mouths, whereby said wings will be held in said slots by engagement at the slot mouths while the greater width of said slots at their bottoms will permit limited universal movement of said bit with respect to the shank axis, and the engagement of said wings with the walls of said slots will enable turning torque to be transmitted to said bit from said shank.

2,317,320
CHIP CONTROL MECHANISM
Richard Lester Wilcox, Waterbury, Conn., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn., a corporation of Connecticut
Application May 18, 1942, Serial No. 443,406
18 Claims. (Cl. 10—24)



1. In mechanism for trimming a workpiece by cutting one or more chips therefrom, having substantially co-axial trimming members with an open space therearound, which includes in part plural members which limit the flight of chips from the tools, each member being mounted to move relatively to the trimming members and whereby they may be moved toward and away from the point of cutting and thereby limit the area of said open space, said members being spaced to provide an outlet for the chips below the point of trimming, whereby the same will escape by gravitational movement through the outlet.

2,317,321,
MEASURING DEVICE
Hyman L. Whitman, East Bridgewater, Mass., assignor to C. S. Pierce Company, Brockton, Mass., a corporation of Massachusetts
Application February 4, 1941, Serial No. 377,295
16 Claims. (Cl. 33—3)



7. A measuring device comprising a base for receiving a foot thereon, a support member extending upwardly into a position in which it is adapted to bear against a foot at a point immediately below the junction of the os calsis, scaphoid and astragalus bones, and means secured to the support member for raising the support.

14. That improvement in methods of measuring feet which comprises supporting on a base a foot which is subject to pronation, applying pressure to the foot while supporting body weight at a localized area occurring directly below the

ankle bone and at a point immediately below the os calsis, scaphoid and astragalus bones of the foot, thereby to rotate the arch formed by the os calsis, scaphoid and astragalus bones into a normal position, and then obtaining measurements of the foot.

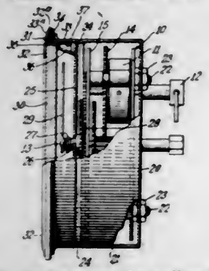
2,317,322

CLOCK

Richard H. Whitehead, New Haven, Conn., assignor to The New Haven Clock Company, New Haven, Conn., a corporation of Connecticut

Application March 9, 1940, Serial No. 323,068

1 Claim. (Cl. 58—54)



A clock of the character described, including a casing having an open end, a gear train mounted within and fastened to said casing having a plate to carry the pivots of the gears of said gear train, an hour hand drive gear on said gear train situated on the side of said plate toward the open face of said casing, said casing having a circumferential flange, a face adapted to fit within said casing and against said flange free from support by said gear train, said gear train having a central main arbor, a hollow hour shaft constructed and arranged to fit over said main arbor and having an hour drive gear on the inner side of said face and an hour hand on the outer side of said face, the former being positioned to engage said hour hand drive gear when said hour shaft and face are inserted over said main arbor, a bezel carrying a glass for closing the open end of said casing and frictionally fitting within the open end of said casing, and means for engaging the periphery of the outer side of said face in response to pressure exerted by the insertion of said bezel in said casing, to hold said face against said flange.

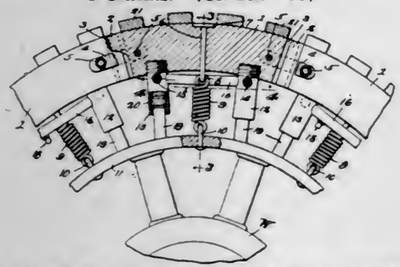
2,317,323

RESILIENT TIRE

Herman F. Betke, Borger, Tex.

Application October 23, 1942, Serial No. 463,111

3 Claims. (Cl. 152—55)



1. A vehicle tire including a rim, outwardly extended plungers arranged in pairs, the plungers of each pair being parallel and the plungers of one pair diverging outwardly relative to the plungers of the other pair, all of the plungers being fixed relative to the rim, cylinders mounted to slide on the respective plungers and having a limited swinging movement relative thereto, piston heads on the plungers and within the cylinders, tubular connections between the cylinders of each pair and between the corresponding cylinders of the two pairs, a fluid filling the tubular connections and the cylinders and maintained under compression by the pistons, a tire section fixedly connected to and closing the outer ends of the connected pairs of cylinders, and a resilient connection between the center of said section and the rim, said connection being radially disposed relative to the rim.

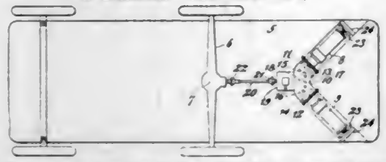
2,317,324

MOTOR VEHICLE DRIVING MECHANISM

Austin M. Wolf, Plainfield, N. J.

Application August 1, 1939, Serial No. 287,705, which is a division of application Serial No. 73,584, April 9, 1936, which is a continuation of application Serial No. 612,057, May 18, 1932. Again divided and this application March 28, 1941, Serial No. 385,607

4 Claims. (Cl. 180—54)



4. In a motor vehicle driving mechanism, a power plant comprising a pair of engines mounted with the power shaft of one engine diagonally disposed relative to the power shaft of the other engine, a common power transfer mechanism for said engines, and independently operable clutches for selectively connecting said transfer mechanism with the respective engine power shafts to transfer the developed power of one or both of said engines through said mechanism.

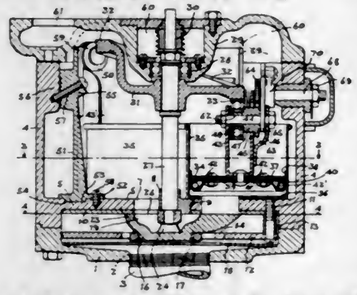
2,317,325

FLUID METER

William H. D. Brouse, Toronto, Ontario, Canada, assignor, by mesne assignments, to John Wood Manufacturing Company, Inc., Philadelphia, Pa.

Application March 12, 1941, Serial No. 382,891

10 Claims. (Cl. 73—244)



1. In a fluid meter, the combination with a casing and a multiplicity of measuring cylinders arranged therein each having a port opening from a common fluid inlet chamber, a spindle for operating an indicating mechanism, pistons operable in said cylinders and means operated by said pistons and connected with said spindle for translating their reciprocating movement to

operate said spindle, of a valve operatively connected with said spindle to move in an orbit, and means for rotating said valve on its axis during its orbital movement to successively open and close the cylinder ports to the inflow and discharge of fluid.

2,317,326

SHOE BOTTOM FILLING MATERIAL

George E. Ehle, Lancaster Township, Lancaster County, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania

No Drawing. Application April 11, 1942, Serial No. 438,585

14 Claims. (Cl. 106—38)

1. A shoe bottom filling material comprising a comminuted body material substantially free from water, rosin, a plasticizer therefor and a charring inhibitor in an amount sufficient to inhibit charring during the conditioning operation, said inhibitor being selected from a class consisting of oxalic acid, phosphoric acid, sulfuric acid, monochloracetic acid and trichloracetic acid.

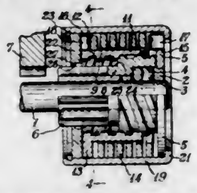
2,317,327

ENGINE STARTER DRIVE

Clinton S. Janes, Elmira Heights, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application May 20, 1940, Serial No. 336,249

9 Claims. (Cl. 74—7)



1. In an engine starter drive, a power shaft, a pinion slidably journalled thereon for movement into and out of engagement with a member of an engine to be started, a screw shaft fixed at one end to the pinion, a nut having a driven head threaded on the screw shaft, a driving head member fixed on the power shaft, a yielding driving member compressed between the driving and driven heads by the screw jack action of the screw shaft and nut, and a barrel member enclosing the drive having thrust means at one end bearing against the driving head, and a thrust plate in the other end of the barrel against which the nut is normally maintained by the expansion of the yielding driving connection, said screw shaft having a shoulder adapted to engage the thrust plate to limit the engaging movement of the pinion.

2,317,328

COATED CORK COMPOSITION

Paul W. Kinney, Lancaster, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania

No Drawing. Application September 17, 1940, Serial No. 357,113

8 Claims. (Cl. 117—148)

8. An article of manufacture comprising a cork composition including an aldehyde insolubilized binder which liberates free aldehyde, said cork composition bearing on at least one surface thereof, a dried adhesive coating of a mixture of a water-soluble polyacrylic resin with an additional water-soluble adhesive substance, said additional adhesive being in an amount which does not appreciably change the characteristics of said polyacrylic resin and of such a character that said mixture is not insolubilized by said free aldehyde.

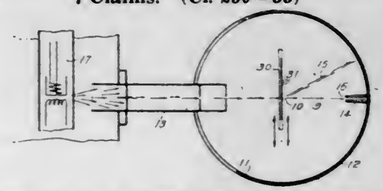
2,317,329

SPECIMEN HOLDER FOR X-RAY ANALYSES

Dan McLachlan, Jr., Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

Application October 20, 1942, Serial No. 462,671

7 Claims. (Cl. 250—53)



1. The method of obtaining powder diffraction pictures with a powder holder and powder specimen without the superposition of any background contributed by the powder holder, which comprises packing the powdered specimen to a predetermined depth between the teeth of a comb-like structure, each tooth having one free end and one fixed end, the thickness of the tooth in a predetermined direction to the direction of alignment of the teeth of the comb being such as to be impervious to X-rays, moving the comb-like structure through the path of an incident X-ray beam so as to cause the X-rays to course down the channel formed by adjacent teeth of the comb-like structure and impinge upon the impacted specimen, and recording the diffraction of the incident beam by the powdered specimen.

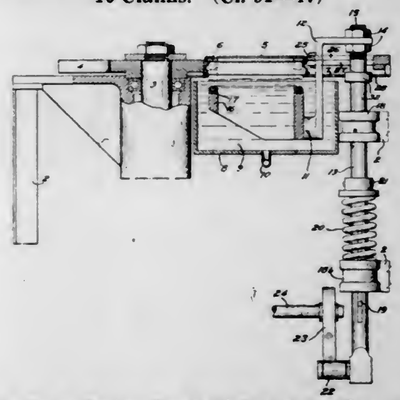
2,317,330

APPARATUS FOR MAKING CLOSURES

Louis H. Lockwood, Rohrerstown, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania

Application May 7, 1940, Serial No. 333,767

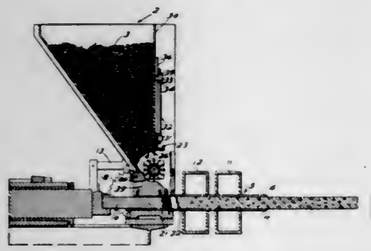
10 Claims. (Cl. 91—47)



1. In a device for applying a coating to the exposed face of a sealing liner while it is contained in a metallic skirted closure, the combination of means for supporting a metallic skirted closure carrying a sealing liner in predetermined position, a pad adapted to apply a coating to the sealing liner placed in alignment there-

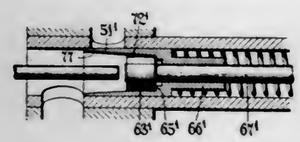
with, yielding means for moving said pad into engagement with the sealing liner to apply the coating, and means to retract said pad to original position against the resistance of said yielding means.

2,317,331
METHOD AND APPARATUS FOR THE MANUFACTURE OF CORK COMPOSITION
Henry K. Mearig, Lancaster, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania
Application July 31, 1940, Serial No. 348,714
18 Claims. (Cl. 18—12)



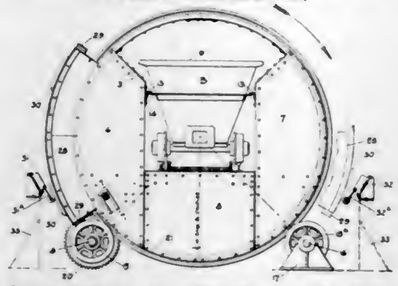
2. Apparatus for the extrusion of cork composition bodies and the like from a mass of particles comprising a substantially horizontally disposed forming tube through which the particles are forced and bonded together, a chamber adjacent said tube for the reception of cork particles to be introduced into said tube, and an extrusion plunger having substantially its entire compressing surface inclined upwardly and rearwardly of the direction of movement of the plunger in compressing and movable through said chamber into said tube.

2,317,332
PRESSURE RELIEF VALVE
Anton Rappl, Buffalo, and Erwin C. Horton, Hamburg, N. Y., assignors to Trico Products Corporation, Buffalo, N. Y.
Application August 2, 1939, Serial No. 287,978
5 Claims. (Cl. 137—53)



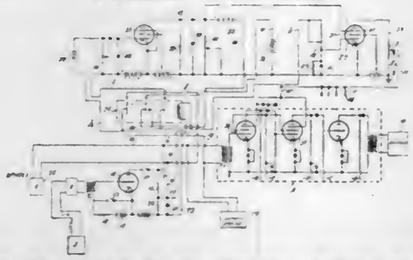
4. A pressure relief valve comprising a body having a chamber and a relief passage, a tubular valve arranged in the body, a backing spring for the valve normally urging and yieldably holding the valve in a position to close the relief passage, the tubular valve being provided with a bottom seat of annular form through which a shunt communication is established leading from the chamber, and a head arranged within the tubular valve against which the seat is pressed by the spring, said head having a supporting stem extending through the annular seat, said head and stem providing a predetermined restriction for the slip flow of fluid therethrough when the seat is disengaged from the head, the inner wall of the tubuluar valve flaring outwardly so as to reduce the flow restriction as the valve opens.

2,317,333
CAR DUMPER
Max A. Schlienger, Bellevue, Pa., assignor to Pressed Steel Car Company, Inc., Pittsburgh, Pa., a corporation of Pennsylvania
Application March 16, 1940, Serial No. 324,348
4 Claims. (Cl. 214—52)



2. In a rotary car dumper, a rotatable car receiving cage moving substantially 180° and returning to effect a dumping cycle, a reversible electric motor for rotating the cage, a switch for de-energizing the motor, a switch for reversing the motor, a brake for stopping the motor, an electric circuit connecting said motor and switches and including a manually operated motor starting switch, adjustable means on the cage for operating the motor de-energizing switch when the cage is returning to car receiving position and setting the brake, adjustable means on the cage in peripheral spaced relation to the first named means to engage the motor reversing switch for automatically reversing the motor as the cage approaches full dumping position and using the energy of the reversed motor in stopping and reversing the cage at fully dumped position.

2,317,334
MASTER CONTROL FOR ELECTRIC SEISMOGRAPHS
Edwin J. Shimek, Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application February 21, 1940, Serial No. 320,132
4 Claims. (Cl. 177—352)



4. An apparatus for recording seismic waves comprising in combination, means forming a conventional spread for detecting said waves by generating electrical signals corresponding to them, means for amplifying and recording said signals in coordination with time, an additional detecting means adapted to be positioned adjacent the shot point for detecting waves that have traveled vertically upward from their point of creation, means for connecting said additional detecting means to amplifying means common to one of the first mentioned detecting means,

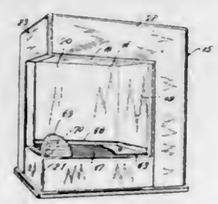
a gain control for controlling the gain in amplification imparted to the signals by said amplifier, common means for rendering the additional detecting means inoperative and for initiating the operation of the gain control a predetermined time after the creation of the seismic waves, said gain control comprising means for reducing the gain in amplification after signals corresponding to detected direct traveling waves have been amplified and recorded, means for thereafter increasing the gain in amplification at a predetermined rate through a predetermined period of time, and means for accelerating the rate of increase of the gain in amplification throughout the period of time while the remainder of the record is being recorded, whereby signals corresponding to direct traveling waves are recorded with maximum gain in amplification and signals corresponding to detected reflected waves are recorded with substantially equal amplitude.

2,317,335
ENVELOPE
Harlan M. Whitman, West Hartford, Conn., assignor to Curtis 1000 Incorporated, Hartford, Conn., a corporation of Minnesota
Application August 9, 1939, Serial No. 289,106
1 Claim. (Cl. 229—73)



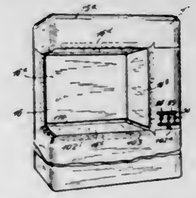
A return mailing envelope formed from a single elongated blank, comprising a central panel, panels extending from the opposite longitudinal edges of said central panel, fold lines at the longitudinal margins of said panels, a line of perforations on said central panel adjacent one of the longitudinal edges thereof, and gummed flaps extending from the end edges of said central panel and disposed entirely between one of the longitudinal fold lines and said line of perforations, whereby the panel adjacent said line of perforations may be torn from said central panel along said line and with the portion of the central panel between said line of perforations and the adjacent fold line.

2,317,336
DISPLAY APPARATUS
Richard C. Adams, East Cleveland, and Herbert H. Woodworth, South Euclid, Ohio, assignors to The Sherwin-Williams Company, Cleveland, Ohio, a corporation of Ohio
Application September 11, 1940, Serial No. 356,318
10 Claims. (Cl. 35—53)



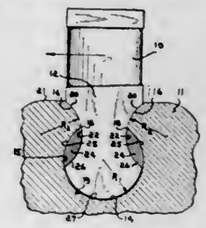
1. In a display device of the character described, a plurality of strips of sheet material each having sections representing different wall finishes, means supporting said strips with marginal portions thereof extending in contiguous relation and with the strips in a relative angular arrangement such that they represent a corner corresponding with that formed by the intersecting walls and ceiling of a room, and means for moving said strips to exhibit the wall finishes to be displayed thereby.

2,317,337
DISPLAY CABINET
Richard C. Adams, East Cleveland, and Herbert H. Woodworth, South Euclid, Ohio, assignors to The Sherwin-Williams Company, Cleveland, Ohio, a corporation of Ohio
Application May 8, 1941, Serial No. 392,485
13 Claims. (Cl. 35—55)



1. A display device of the character described comprising a cabinet having a recess extending laterally thereinto and having sides defined by two intersecting upright walls, a pair of winding rollers associated with each of said walls, a strip of sheet material extending in front of each wall and having its ends connected with the winding rollers associated with such wall, each such strip having sections representing different wall finishes or coverings, a pair of substantially aligned shafts associated with each pair of winding rollers with one shaft of the pair connected with each roller, a positively driven shaft disposed between each such pair of aligned shafts, each positively driven shaft being axially shiftable for reversing the direction of travel of the corresponding strip and having means for establishing in response to such axial shifting a driving connection with one of the paired shafts aligned therewith, and means for causing such shifting of said shiftable shafts.

2,317,338
TURBINE BLADE FASTENING APPARATUS
Josef A. Rydmark, Lansdowne, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 7, 1942, Serial No. 429,885
12 Claims. (Cl. 253—77)

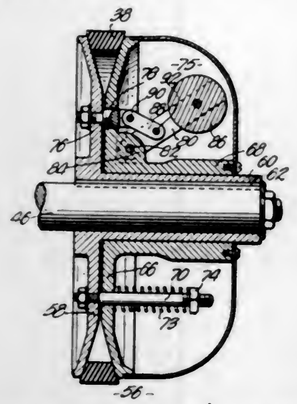


1. In a turbine, a rotor provided with a groove having inner and outer portions; said inner portion having opposed edges joined by a concave face of uniform radius and the edges being spaced apart a distance less than twice such radius and

said outer portion being defined by opposed convex faces extending inwardly to said edges; blades each having a root provided with opposed concave faces whose outer sections fit said convex faces and whose inner sections are in opposed relation with respect to sections of the concave face of the inner groove portion adjoining said edges; and spacing pieces interposed between said opposed sections and having convex faces fitting the latter.

2,317,339
AUTOMATIC SHIFT POWER TRANSMISSION
Glenn A. Steven, Kansas City, Kans., assignor to The Electro Glide Company, Inc., Kansas City, Kans., a corporation of Kansas
Application February 26, 1940, Serial No. 320,769
2 Claims. (Cl. 74—230.17)

1. In a device of the character described, a V-shaped pulley comprising a fixed cone-shaped disc having an elongated hub, a movable cone-shaped disc mounted for axial adjustment on said hub and cooperating with said fixed disc to present a V-belt tract, axially disposed pins secured to one of said discs and slidably mounted through holes formed through the other of said discs to preclude relative rotary movement of the discs, compression springs mounted on said pins to contantly urge said discs toward each other, axially disposed posts carried by one of said discs and extending through holes in the other of said discs, centrifugally governing means including a plurality of levers pivoting at their one end to one of said discs and having weights at their free ends,

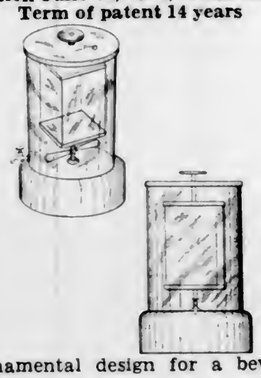


a link pivotally connecting each of said levers with one of said posts whereby as the speed of said pulley is varied, the distance between said discs will be varied.

DESIGNS

APRIL 20, 1943

135,506
DESIGN FOR A BEVERAGE DISPENSER
Monroe Harrison, Chicago, Ill.
Application June 24, 1940, Serial No. 93,217
Term of patent 14 years



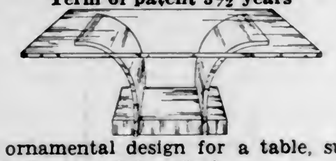
The ornamental design for a beverage dispenser, as shown.

135,507
DESIGN FOR AN OVER-BED TABLE
William A. Hillenbrand, Batesville, Ind., assignor to Hill-Rom Company, Inc., Batesville, Ind., a corporation of Indiana
Application September 8, 1941, Serial No. 103,212
Term of patent 7 years



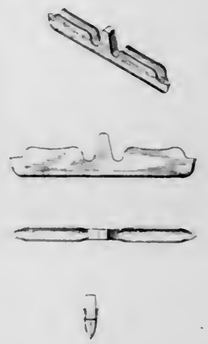
The ornamental design for an over-bed table, substantially as shown and described.

135,508
DESIGN FOR A TABLE
George H. Mildwoff, New York, N. Y.
Application July 4, 1942, Serial No. 107,424
Term of patent 3½ years



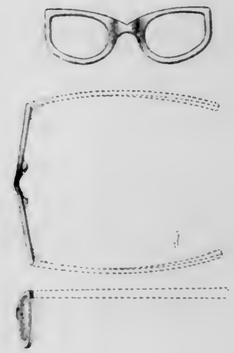
The ornamental design for a table, substantially as shown and described.

135,509
DESIGN FOR A SPECTACLE GUARD
Morris B. Roth, Chicago, Ill.
Application October 26, 1942, Serial No. 108,617
Term of patent 14 years



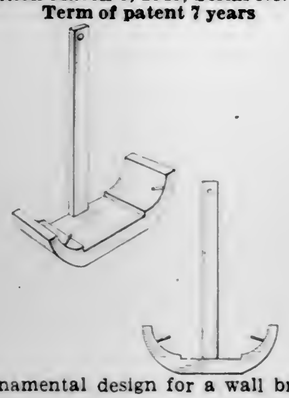
The ornamental design for a spectacle guard, substantially as shown.

135,510
DESIGN FOR A SPECTACLE FRAME
Altina Sanders, New York, N. Y.
Application January 30, 1943, Serial No. 109,386
Term of patent 14 years



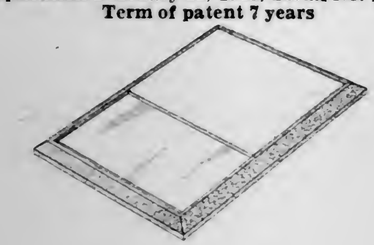
The ornamental design for a spectacle frame, substantially as shown.

135,511
DESIGN FOR A WALL BRACKET
Marlin Waymack, Richmond, Va., assignor to Mitteldorfer Straus, New York, N. Y.
Application March 8, 1943, Serial No. 109,697
Term of patent 7 years



The ornamental design for a wall bracket, as shown.

135,512
DESIGN FOR A COMBINED JEWELRY DISPLAY TRAY AND WRAPPING PAPER UNIT
Carl Weissman, Bronx, N. Y.
Application February 11, 1943, Serial No. 109,525
Term of patent 7 years

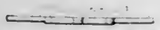




The ornamental design for a combined jewelry display tray and wrapping paper unit, as shown and described.

135,513
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Nicholas Barbieri, Providence, R. I.
Application September 18, 1942, Serial No. 108,264
Term of patent 3½ years





The ornamental design for a brooch or similar article, substantially as shown and described.

135,514
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Nicholas Barbieri, Providence, R. I.
Application September 18, 1942, Serial No. 108,265
Term of patent 3½ years





The ornamental design for a brooch or similar article, substantially as shown and described.

135,515
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Nicholas Barbieri, Providence, R. I.
Application September 18, 1942, Serial No. 108,266
Term of patent 3½ years





The ornamental design for a brooch or similar article, substantially as shown and described.

135,516
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Nicholas Barbieri, Providence, R. I.
Application September 18, 1942, Serial No. 108,267
Term of patent 3½ years





The ornamental design for a brooch or similar article, substantially as shown and described.

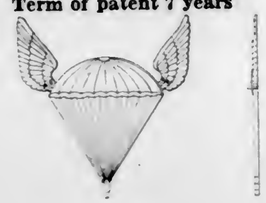
135,517
DESIGN FOR A PIN OR SIMILAR ARTICLE
Joseph Francis Duffy, New York, N. Y.
Application July 9, 1942, Serial No. 107,448
Term of patent 3½ years





The ornamental design for a pin or similar article, as shown.

135,518
DESIGN FOR A BADGE
Theodore J. Dworzynski, Washington, Ind.
Application February 15, 1943, Serial No. 109,547
Term of patent 7 years



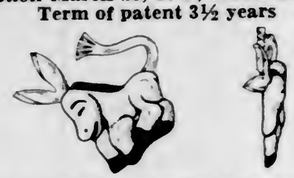
The ornamental design for a badge, as shown.

135,519
DESIGN FOR A CERAMIC BROOCH PIN
Elliot Handler, Los Angeles, Calif.
Application March 29, 1943, Serial No. 109,834
Term of patent 3½ years



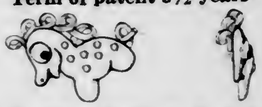
The ornamental design for a ceramic brooch pin, substantially as shown.

135,520
DESIGN FOR A CERAMIC BROOCH PIN
Elliot Handler, Los Angeles, Calif.
Application March 29, 1943, Serial No. 109,836
Term of patent 3½ years



The ornamental design for a ceramic brooch pin, substantially as shown.

135,521
DESIGN FOR A CERAMIC BROOCH PIN
Elliot Handler, Los Angeles, Calif.
Application March 29, 1943, Serial No. 109,837
Term of patent 3½ years



The ornamental design for a ceramic brooch pin, substantially as shown.

135,522
DESIGN FOR A CERAMIC BROOCH PIN
Elliot Handler, Los Angeles, Calif.
Application March 29, 1943, Serial No. 109,838
Term of patent 3½ years



The ornamenal design for a ceramic brooch pin, substantially as shown.

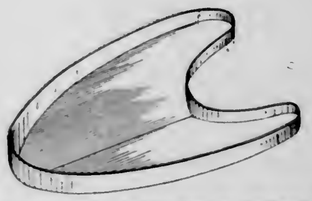
135,523
DESIGN FOR A CERAMIC BROOCH PIN
Elliot Handler, Los Angeles, Calif.
Application March 29, 1943, Serial No. 109,840
Term of patent 3½ years



The ornamental design for a ceramic brooch pin, substantially as shown.

135,524
DESIGN FOR AN INFANT'S WEANING TRAY
Fleurette Crettaz Johnstone, Pasadena, Calif.
Application May 13, 1942, Serial No. 106,883
Term of patent 14 years





The ornamental design for an infant's weaning tray, as shown and described.

135,525
DESIGN FOR AN APPLIQUÉ EMBLEM OR SIMILAR ARTICLE
Helen L. Jurkops, Washington, D. C., assignor to United States of America, as represented by the United States Director of Civilian Defense
Application August 10, 1942, Serial No. 107,856
Term of patent 7 years





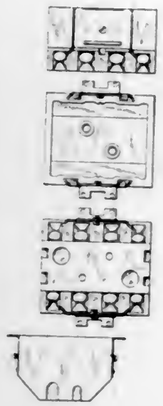
The ornamental design for an appliqué emblem or similar article, as shown and described.

135,526
DESIGN FOR A LOCKET OR SIMILAR ARTICLE
Edward T. Krol, Sacramento, Calif.
Application February 2, 1943, Serial No. 109,410
Term of patent 3½ years



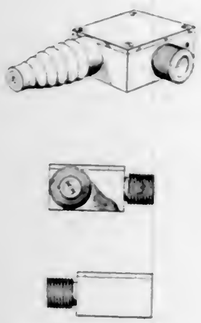
The ornamental design for a locket or similar article, as shown.

135,527
DESIGN FOR A WALL BOX
John G. Loy, Findlay, Ohio, assignor to Porcelain Products, Inc., Findlay, Ohio, a corporation of Delaware
Application February 8, 1943, Serial No. 109,502
Term of patent 14 years



The ornamental design for a wall box, as shown and described.

135,528
DESIGN FOR A SWITCH ENCLOSURE
John F. Meyer, Chicago, Ill., assignor to The Exhibit Supply Company, Chicago, Ill., a corporation of Illinois
Application February 19, 1943, Serial No. 109,584
Term of patent 7 years



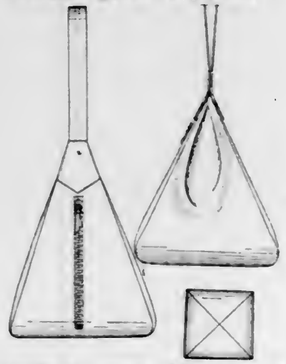
The ornamental design for a switch enclosure, as shown.

135,529
DESIGN FOR A BADGE OR SIMILAR ARTICLE
George H. Moore, Brooklyn, N. Y.
Application February 12, 1942, Serial No. 105,781
Term of patent 3½ years



The ornamental design for a badge or similar article, substantially as shown and described.

135,530
DESIGN FOR A HANDBAG
Daniel Rubin, New York, N. Y.
Application March 22, 1943, Serial No. 109,791
Term of patent 3½ years



The ornamental design for a handbag, substantially as shown.

135,531
DESIGN FOR A PIN OR SIMILAR ARTICLE
Nathaniel B. Valliant, Chicago, Ill.
Application February 18, 1943, Serial No. 109,565
Term of patent 7 years



The ornamental design for a pin or similar article, as shown.

135,532
DESIGN FOR A DEVICE FOR MAKING CARBON DIOXIDE SNOW
John A. Werry, Cedar Grove, N. J., assignor to Specialties Manufacturing Company, Inc., Bloomfield, N. J., a corporation of Delaware
Application January 22, 1943, Serial No. 109,330
Term of patent 14 years



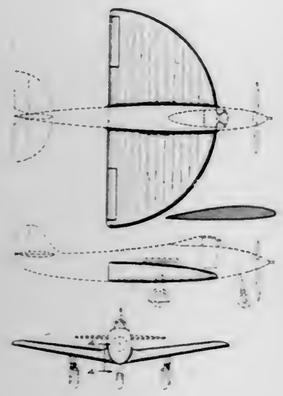
The ornamental design for a device for making carbon dioxide snow, substantially as shown and described.

135,533
DESIGN FOR A REPEATER COMPASS INDICATOR
Frederick D. Braddon, Babylon, N. Y., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York
Application October 17, 1942, Serial No. 108,551
Term of patent 7 years



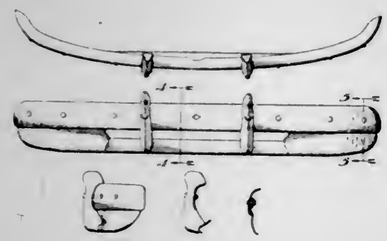
The ornamental design for a repeater compass indicator, as shown.

135,534
DESIGN FOR AN AEROPLANE
Robert H. Brown, Indianapolis, Ind.
Application January 31, 1942, Serial No. 105,538
Term of patent 14 years



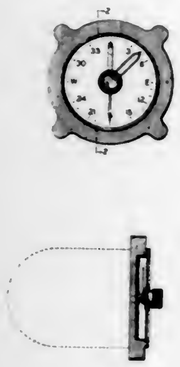
The ornamental design for an aeroplane, as shown and described.

135,535
DESIGN FOR AN AUTOMOBILE BUMPER
Robert Cadwallader, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application February 2, 1942, Serial No. 105,594
Term of patent 7 years



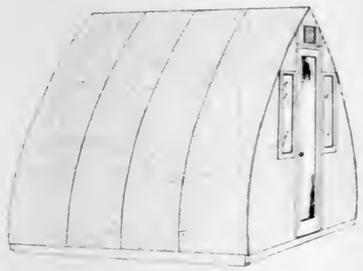
The ornamental design of an automobile bumper substantially as shown.

135,536
DESIGN FOR A REPEATER COMPASS COURSE SETTING INDICATOR
Loren J. De Lanty, Baldwin, N. Y., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York
Application October 17, 1942, Serial No. 108,552
Term of patent 7 years



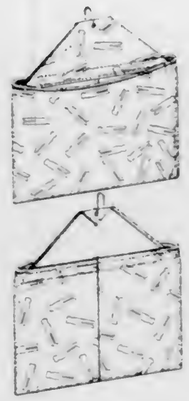
The ornamental design for a repeater compass course setting indicator, as shown.

135,537
DESIGN FOR A PORTABLE BUILDING
Millson W. Downs, Los Angeles, Calif.
Application June 15, 1942, Serial No. 107,194
Term of patent 7 years



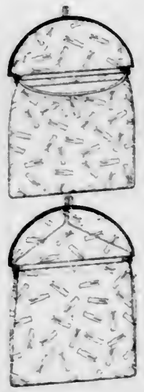
The ornamental design for a portable building, as shown and described.

135,538
DESIGN FOR A CLOTHESPIN BAG
Sholom E. Kaplan, Hartford, Conn.
Application February 15, 1943, Serial No. 109,543
Term of patent 14 years



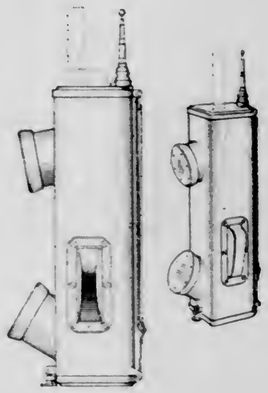
The ornamental design for a clothespin bag, substantially as shown.

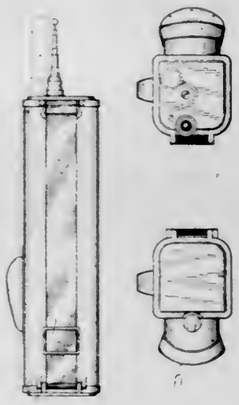
135,539
DESIGN FOR A CLOTHESPIN BAG
Sholom E. Kaplan, Hartford, Conn.
Application February 17, 1943, Serial No. 109,559
Term of patent 14 years



The ornamental design for a clothespin bag, substantially as shown.

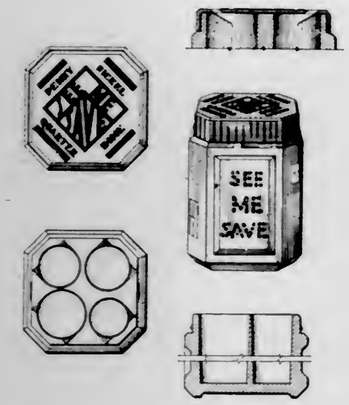
135,540
DESIGN FOR A PORTABLE RADIO DEVICE
Donald H. Mitchell, Chicago, Ill., assignor to Galvin Manufacturing Corporation, Chicago, Ill., a corporation of Illinois
Application February 23, 1942, Serial No. 105,951
Term of patent 14 years





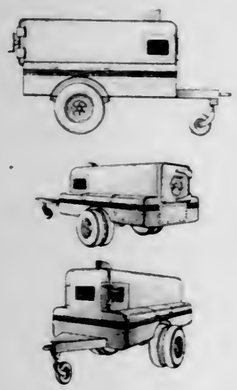
The ornamental design for a portable radio device, substantially as shown and described.

135,541
DESIGN FOR A COIN HOLDER
Harry D. Smith, West Henrietta, N. Y.
Application December 31, 1942, Serial No. 109,167
Term of patent 14 years



The ornamental design for a coin holder, substantially as shown.

135,542
DESIGN FOR A PORTABLE STERILIZER OR THE LIKE
Clifford Brooks Stevens, Milwaukee, Wis., assignor to Cleaver-Brooks Company, Milwaukee, Wis., a corporation of Wisconsin
Application February 5, 1942, Serial No. 105,653
Term of patent 14 years



The ornamental design for a portable sterilizer or the like, as shown.

135,543
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application March 29, 1943, Serial No. 109,842
Term of patent 3½ years



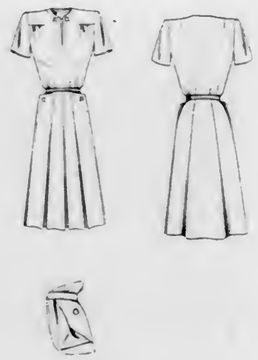
The ornamental design for a dress, substantially as shown.

135,544
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application March 29, 1943, Serial No. 109,843
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

135,545
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application March 29, 1943, Serial No. 109,844
Term of patent 3½ years



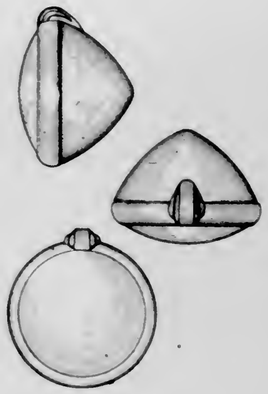
The ornamental design for a dress, substantially as shown.

135,546
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application March 29, 1943, Serial No. 109,845
Term of patent 3½ years



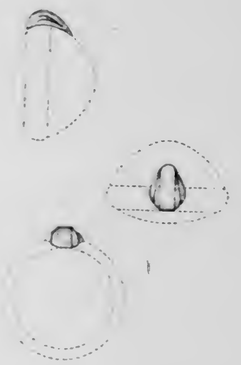
The ornamental design for a dress, substantially as shown.

135,547
DESIGN FOR AN AUTOMOBILE LIGHT
Henry Rew Gross, Chicago, Ill.
Application December 2, 1941, Serial No. 104,428
Term of patent 7 years



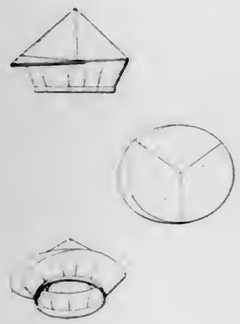
The ornamental design for an automobile light, substantially as shown.

135,548
DESIGN FOR AN AUTOMOBILE LAMP
Henry Rew Gross, Chicago, Ill.
Application December 2, 1941, Serial No. 104,429
Term of patent 7 years



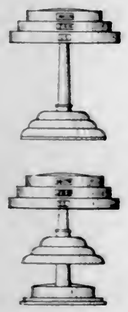
The ornamental design for an automobile lamp, substantially as shown and described.

135,549
DESIGN FOR A HAT
Zinaida Harpignies, Kew Gardens, N. Y.
Application November 17, 1942, Serial No. 108,801
Term of patent 3½ years



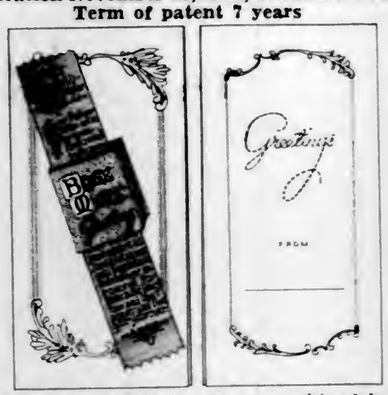
The ornamental design for a hat, as shown and described.

135,550
DESIGN FOR A COMBINATION LAMP, PERPETUAL CALENDAR, AND CONTAINER
Edward Lee Jones, Richmond, Va.
Application December 15, 1942, Serial No. 109,038
Term of patent 7 years



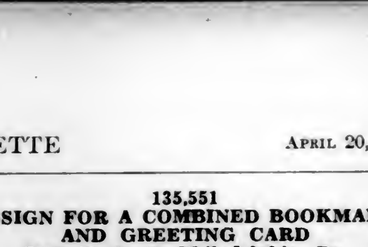
The ornamental design for a combination lamp, perpetual calendar, and container, as shown and described.

135,551
DESIGN FOR A COMBINED BOOKMARK AND GREETING CARD
Jack V. Scott, Philadelphia, Pa.
Application November 13, 1942, Serial No. 108,780
Term of patent 7 years



The ornamental design for a combined bookmark and greeting card, substantially as shown.

135,552
DESIGN FOR A RECEPTACLE FOR TOOTHBRUSHES AND THE LIKE
Alton T. Winner, Oaklyn, N. J.
Application February 18, 1943, Serial No. 109,566
Term of patent 7 years



The ornamental design for a receptacle for toothbrushes and the like, as shown.

135,553
DESIGN FOR A DRESS
Philip Zahn, New York, N. Y.
Application March 29, 1943, Serial No. 109,846
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

Patents Nos. 2,317,340 to 2,317,968

THE
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OF THE
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CONTENTS

	Page
Issue of April 27, 1943	559
Notice	559
Interference Notice	559
Notice of Cancellation	559
Adjudicated Patents	559
Adverse Decisions in Interference	559
Applications Under Examination	560
Decisions of the U. S. Courts—	
The Hydraulic Press Corporation, Inc., and Ernst r. Coe, Commissioner of Patents	561
Patent Suits	566
Bulletin of Decisions of Patent Office on Trade-Marks	568
Trade-Marks Published (85 Applications)	573
Trade-Mark Registrations Granted	583
Trade-Mark Registrations Renewed	588
Reissues	593
Plant Patents	593
Patents Granted	594
Designs	739
A.P.C. Applications	xxxi

April 27, 1943

Trade-Marks	119	No. 401,110 to No.	401,228, inclusive.
T. M. Renewals	78		
Reissues	1	No. 22,306	
Plant Patents	3	No. 577 to No.	579, inclusive.
Patents	629	No. 2,317,340 to No.	2,317,968, inclusive.
Designs	48	135,554 to No.	135,601, inclusive.
Total	878		

Notice

See page xxxi for list of applications published by the Alien Property Custodian.

Notice

The machine now used in the Application Division to prepare papers for insertion in application file wrappers, punches holes three-eighths of an inch in diameter, about seven-eighths of an inch from the top of the page. It is therefore necessary that a margin of at least one and one-fourth inches be reserved at the top of all such papers, in order to avoid possible mutilation of the text. Failure to comply with this requirement may result in the return of unacceptable papers.

LESLIE FRAZER,
First Assistant Commissioner.

Interference Notice

U. S. Patent Office, *Richmond, Va., Mar. 24, 1943.*

The heirs, assigns or legal representatives of Vess Jones, deceased, take notice:

An interference has been declared by this Office between the application of Pig'n Whistle Corporation, 621 Market St., San Francisco, Calif., for registration of a trade-mark, and trade-mark registered May 11, 1926, No. 212,681, to Vess Jones, 465 Washington St., New York, N. Y. Counsel for said Jones having stated that they are advised that said Jones is deceased, on January 8, 1943 proceedings were suspended until March 9, 1943 in order that the heirs or legal representatives of said Jones might intervene. The time referred to has expired, but no response has been made on behalf of the heirs, assigns or legal representatives of said Jones. Notice is hereby given that unless the heirs, assigns or legal representatives of Vess Jones shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in the case of default. This notice will be published in the Official Gazette for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Notice of Cancellation

U. S. Patent Office, *Richmond, Va., March 30, 1943.*

Chas. H. Jandt Packing Co., its assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by R. C. Williams & Company, Inc., 265 Tenth Ave., New York, N. Y., to effect the cancellation of trade-mark registration of Chas. H. Jandt Packing Co., 251 Wholesale Terminal Bldg., Los Angeles, Calif., No. 229,434, dated June 28, 1927, and the notice of such proceeding sent by registered mail to the said Chas. H. Jandt Packing Co. at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Chas. H. Jandt Packing Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the Official Gazette for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Adjudicated Patents

(D. C. Mo.) Hand design patent, No. 105,071, for design for a fruit juice extractor, *Held* valid and infringed. *Talge* v. *Sears, Roebuck & Co.*, 48 F. Supp. 723.

(D. C. Mo.) Majewski design patent, No. 105,335, for design for a fruit press, *Held* valid and infringed. *Id.*

(C. C. A. Ill.) Wilson design patent, No. 126,548, for design for a lamp table, *Held* invalid. *Zangerle & Peterson Co.* v. *Venice Furniture Novelty Mfg. Co.*, 133 F.(2d) 266.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed.

Pat. 2,268,278, Abbott Coburn, Building siding material, decided March 31, 1943, claims 6, 7, and 8.

Pat. 2,278,109, I. C. Karp and H. W. Campbell, Coil supporting arbor, decided March 29, 1943, claim 1.

Condition of Applications Under Examination at Close of Business April 10, 1943

(Total number of applications awaiting action, excluding Trade-Mark Division, 39,976; Trade-Mark Division, 1,018. Oldest new case, May 29, 1942; oldest amended, May 28, 1942.)
The dates given are 1942 except where † indicates 1943)

Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action		No. of applications awaiting action
	New	Amended	
1. TUCKER, M. W., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Domestic Cooking Vessels; Sewerage.	Sept. 18	Dec. 3	336
2. HERRMANN, D., Fishing and Trapping; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering.	†Jan. 23	Dec. 15	217
3. WOLFFE, S., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	June 6	June 24	949
4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting.	Oct. 24	Oct. 30	398
5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps	Aug. 8	Aug. 8	537
6. GENIESSE, E. W., Carbon Chemistry (part)	July 28	July 28	1002
7. JARBOE, C. G., Optics, Photography	Aug. 26	Sept. 11	919
8. ADAMS, F. L., Furniture; Kitchen and Table Articles; Racks and Cabinets	Sept. 23	Sept. 25	601
9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	Sept. 14	Sept. 5	751
11 BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Nov. 2	Nov. 5	365
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Stop Mechanisms	Oct. 28	Nov. 6	345
13. DONNELLY, A. E., Metal Working (part); Gear Cutting, Milling and Planing; Needle and Pin Making	Oct. 5	Oct. 9	642
14. HANLIN, GEORGE, Metal Working (part); Farriery; Wire Fabrics	Dec. 12	Nov. 30	419
15. HENKIN, BENJ., Glass, Plastic Block and Earthenware Apparatus; Plastics	Oct. 7	Oct. 8	678
16. SPENCER, C. J., Telegraphy; Telephony	Aug. 18	Aug. 17	659
17. HABECKER, LEON B., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	June 19	June 25	714
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	Aug. 13	Aug. 27	540
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	July 17	July 21	658
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part).	Oct. 24	Oct. 13	432
21. THOMPSON, T. J., Textiles	Nov. 10	Oct. 19	290
22. RINGLE, D., Aeronautics; Firearms; Ordnance and Explosive Devices	July 3	July 7	1668
23. BARROWS, B., Cash Registers; Calculators (part)	Nov. 13	Nov. 10	130
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	Nov. 10	Nov. 14	588
26. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Aug. 10	Sept. 21	611
26. YOUNG, R. R., Electricity—Generation and Motive Power	Sept. 24	Sept. 21	548
27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus.	Oct. 8	Sept. 18	614
28. SOLYOM, H. L., Internal-Combustion Engines (part); Cylinders and Pistons	Aug. 18	June 5	590
29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Package and Article Carriers; Woodworking; Tools; Metal Working, Assembling.	Dec. 8	Dec. 21	350
30. McCANN, LEO P., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Dec. 11	Dec. 10	311
31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils	Oct. 17	Oct. 17	1346
32. LESH, K., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	Sept. 24	Sept. 18	645
33. HULL, J. S., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements	Nov. 24	Nov. 27	609
34. SAPERSTEIN, S., Electricity—Meters and Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators.	Sept. 23	Oct. 16	407
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles	Oct. 27	Oct. 22	608
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	Nov. 5	Sept. 30	380
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Dec. 2	Dec. 2	441
38. KRAFFT, C. F., Coating Processes: Coating or Plastic Compositions (part)	Oct. 3	Sept. 9	640
39. WHITNEY, F. L., Fluid-Pressure Regulators; Valves; Water Distribution	Dec. 21	Dec. 28	369
40. DRUMMOND, E. J., Receptacles	Dec. 12	Dec. 12	374
41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles; Counters and Calculators (part); Typewriting Machines; Check-Controlled Apparatus.	Oct. 9	Oct. 1	417
42. MARANS, H., Electric Signaling	Nov. 21	Nov. 19	336
43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Azo Compounds.	June 22	June 12	895
44. HARVEY, L. P., Refrigeration	Sept. 14	Aug. 11	347
45. HILL, H. D., Shafting and Flexible Shaft Couplings; Wheels and Axles; Resilient Tires and Wheels; Lubrication; Bearings and Guides; Motors; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part).	Sept. 28	Oct. 20	750
46. BLEECKER, V. E., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers: Liquid Heaters and Vaporizers; Heating Systems; Coating Apparatus.	Aug. 24	Aug. 24	486
47. KANOF, WM. J., Clutches and Power Stops; Brakes; Boring and Drilling; Land Vehicles (part)	Sept. 14	Sept. 24	1000
48. ROEPKE, O. B., Electricity, General Applications; Igniters	May 29	May 28	728
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	Sept. 17	Oct. 5	603
50. LEVIN, SAMUEL, Resins; Rubber; Carbohydrates and Derivatives	Sept. 17	Sept. 19	1224
51. BACKUS, C. D., Radiant Energy	Sept. 29	Oct. 5	975
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits.	Oct. 13	Oct. 7	623
53. PECK, M. K., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Curtains, Shades and Screens; Cutlery.	†Feb. 8	Nov. 26	192
54. STRACHAN, O. W., Electric Lamp and Discharge Devices (part)	Sept. 24	Sept. 28	445
55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery	Aug. 5	July 21	758
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Laminated Fabrics (part); Paper Making	Sept. 18	Sept. 30	825
57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Sept. 28	Aug. 6	406
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working	Nov. 5	Nov. 7	531
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds; Compositions (part).	June 10	June 10	1261
60. GLASS, R. L., Electricity, Heating and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Marine Propulsion; Consumable Electrode Lamp and Discharge Devices.	Aug. 10	Aug. 12	411
61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Laminated Electrical Insulation, Belt, Hose, Tire and Ball Making; Boats and Buoys.	Aug. 21	Sept. 24	569
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	Oct. 21	Nov. 12	460
63 WINKELSTEIN, A. H., Preserving; Poisons; Fermentation; Foods and Beverages; Proteins; Oils and Fats.	Aug. 3	Aug. 4	990
64. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Distillation; Fuel	Oct. 28	Oct. 27	1092
65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays.	Sept. 11	Sept. 9	654
Trade Marks: RICHMOND, F. A	†Mar. 1	†Mar. 23	1018
Designs: KALUPY, H. H	†Mar. 11	†Mar. 25	317

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Ada Milling Company, Ada, Okla. Stock and cattle feed. Serial No. 458,775; Apr. 27. Class 46.

Albers Milling Company, Portland, Oreg. Small dog and cat food. Serial No. 457,800; Apr. 27. Class 46.

Allied Mills, Inc., Chicago, Ill. Poultry feeds. Serial No. 458,829; Apr. 27. Class 46.

American Saw & Mfg. Company, Springfield, Mass. Hack saw blades. Serial No. 459,101; Apr. 27. Class 23.

Arkansas Company, Inc., Newark, N. J. Softening agents used in processing of textiles. Serial No. 458,671; Apr. 27. Class 6.

Arkansas Company, Inc., Newark, N. J. Protecting agents against fading used in the finishing of textile fabrics. Serial No. 458,675; Apr. 27. Class 6.

Atlantic Supply Company, The, Baltimore, Md. Feeds. Serial No. 458,353; Apr. 27. Class 46.

B-H Tool and Supply Co., The, Detroit, Mich. High-speed metal cutting tools. Serial No. 454,498; Apr. 27. Class 23.

Baker Engineers. (See Baker, M., Jr.)

Baker, Michael, Jr., doing business as Baker Engineers. Rochester, Pa. News letters. Serial No. 457,431; Apr. 27. Class 38.

Belber, Harry C., Inc., New York, N. Y. Women's hosiery. Serial No. 458,059; Apr. 27. Class 39.

Bick, Harry S., doing business as Kramer & Bick, New York, N. Y. Jewelry. Serial No. 455,699; Apr. 27. Class 28.

Boonville Manufacturing Corp., Boonville, N. Y. Paper gaskets. Serial No. 458,905; Apr. 27. Class 35.

Cardone, Frank, Brooklyn, N. Y. Shoes of all types and moccassins. Serial No. 456,176; Apr. 27. Class 39.

Chicago Flexible Shaft Company, Chicago, Ill. Furnaces. Serial No. 456,585; Apr. 27. Class 34.

Chicago Flexible Shaft Company, Chicago, Ill. Oil pumps. Serial No. 459,107; Apr. 27. Class 23.

Cluett, Peabody & Co., Inc., Troy, N. Y. Neckties. Serial No. 458,751; Apr. 27. Class 39.

Cohn-Hall-Marx Co., New York, N. Y. Cotton, rayon, and/or silk piece goods. Serial No. 458,490; Apr. 27. Class 42.

Crawford, Carol, Inc., New York, N. Y. Ladies' dresses. Serial No. 458,646; Apr. 27. Class 39.

Cudahy Packing Company, The, Chicago, Ill. Radio scripts. Serial No. 451,297; Apr. 27. Class 38.

Daly Bros. Shoe Co. Inc., Boston, Mass. Shoes of leather, rubber, fabric. Serial No. 459,043; Apr. 27. Class 39.

Delete Distributors, Inc., New York, N. Y. Depilatory. Serial No. 459,070; Apr. 27. Class 6.

Dennis Chemical Co., St. Louis, Mo. Compounds for removing paint, lacquer and similar material from the hands. Serial No. 456,846; Apr. 27. Class 4.

Diamond Alkali Company, Pittsburgh, Pa. Laundry sours, laundry sodas, cleaners and cleansers, etc. Serial No. 458,935; Apr. 27. Class 6.

Dostal, George A., New York, N. Y. Magnifier apparatus. Serial No. 458,328; Apr. 27. Class 26.

Dussek Brothers & Company Limited, Crayford, England. Glazing putty. Serial No. 457,331; Apr. 27. Class 16.

Eisner, Paul V., & Co., New York, N. Y. Watches and clocks. Serial No. 458,567; Apr. 27. Class 27.

Emery Industries, Inc., Cincinnati, Ohio. Textile oils and textile oil bases, chemicals, medicines, etc. Serial No. 454,600; Apr. 27. Class 6.

Esseneff Company. (See Smith, J. Jay.)

Fairmoor Sportswear, Inc., New York, N. Y. Ladies' suits and coats. Serial Nos. 457,466–7; Apr. 27. Class 39.

Fisher Scientific Company, Pittsburgh, Pa. Laboratory reagent chemicals. Serial No. 458,035; Apr. 27. Class 6.

Food Research Distributing Corporation, Chicago, Ill. Preparation of roasted cereal and vegetable substances. Serial No. 458,756; Apr. 27. Class 46.

Fooks, B. T., Manufacturing Company Camden, Ark. Soft drinks and fountain syrups. Serial No. 459,045; Apr. 27. Class 45.

Fooks, B. T., Manufacturing Company, Camden, Ark. Soft drinks and fountain syrups. Serial No. 459,046; Apr. 27. Class 45.

Friedman-Marks Clothing Company, Inc., Richmond, Va. Men's suits and coats. Serial No. 445,930; Apr. 27. Class 39.

Frosst, Charles E., & Co., Montreal, Quebec, Canada, and Richmond, Va. Medicinal products. Serial No. 455,653; Apr. 27. Class 6.

General Tire & Rubber Company, The, Akron, Ohio. Molded rubber goods. Serial No. 426,291; Apr. 27. Class 50.

Gossard, H. W., Co., The, Chicago, Ill. Corsets, girdles, combination corsets, etc. Serial No. 458,782; Apr. 27. Class 39.

Hatley, Jerome H., Los Angeles, Calif. Toy airplanes. Serial No. 458,152; Apr. 27. Class 22.

Harlequin Corporation, The, New York, N. Y. Ophthalmic mountings and lenses and parts thereof. Serial No. 458,427; Apr. 27. Class 26.

Harrison, Elmer P., doing business as Velocity Steam Systems, Chicago, Ill. Automatically controlled steam vaporizing, conditioning, and economizing units, and parts thereof. Serial No. 454,828; Apr. 27. Class 34.

Hercules Powder Company, Wilmington, Del. Synthetic resins for use in the manufacture of varnishes, paints, lacquers, etc. Serial Nos. 447,307–8; Apr. 27. Class 1.

Holmes, John W., doing business as Wilmer Products, Carnegie, Pa. Antiseptic home cleaning compound in powder form for general use. Serial No. 458,175; Apr. 27. Class 4.

Klein Chocolate Co., Inc., Elizabethtown, Pa. Chocolate. Serial No. 458,920; Apr. 27. Class 46.

Kramer & Bick. (See Bick, H. S.)

Leichter, Emil, New York, N. Y. Watches. Serial Nos. 458,273–4; Apr. 27. Class 27.

Lemos, Enrique, Buenos Aires, Argentina. Vaccines, serums and ferments. Serial No. 450,836; Apr. 27. Class 6.

Link, Ernest J., doing business as Link Paper Company, New York, N. Y. Stencil boards. Serial No. 457,899; Apr. 27. Class 37.

Link Paper Company. (See Link, E. J.)

Lipolin Lead & Color Works (See Lipton, Alexander S.)

Lipton, Alexander S., doing business as Lipolin Lead & Color Works, New York, N. Y. Paints. Serial No. 454,970; Apr. 27. Class 16.

Lucurell, John, Seattle, Wash. Ladies' trimmed hats. Serial No. 457,395; Apr. 27. Class 39.

Maas, A. R., Chemical Co., South Gate, Calif. Anhydrous trisodium phosphate. Serial No. 455,512; Apr. 27. Class 6.

McKesson & Robbins, Incorporated, New York, N. Y. Perfumed toilet preparation for the purpose of cleansing the scalp and hair, etc. Serial No. 456,127; Apr. 27. Class 6.

Millbrook Manufacturing Corporation, New York, N. Y. Children's and women's ski suits, beach wear and sportswear. Serial No. 451,499; Apr. 27. Class 39.

National Silver Company, New York, N. Y. Tableware and cutlery. Serial No. 455,761; Apr. 27. Class 23.

Opticase Company, The, Newark, N. J. Spectacle cases and jewelry cases. Serial No. 458,105; Apr. 27. Class 2.

Orange Knitting Mills, Incorporated, Orange, Va. Hosiery. Serial No. 457,862; Apr. 27. Class 39.

Padalino, Ralph, Elizabeth, N. J. Liquid medicine for the treatment of athlete's foot. Serial No. 456,829; Apr. 27. Class 6.

Paris Neckwear Company, Inc., New York, N. Y. Neckties. Serial No. 458,359; Apr. 27. Class 39.

Pfeiffer Brewing Company, Detroit, Mich. Beer. Serial No. 439,238; Apr. 27. Class 48.

Plastalloy Company, Burbank, Calif. Machine tool elements. Serial No. 455,130; Apr. 27. Class 23.

Pressman-Gutman Co., Philadelphia, Pa. Piece goods. Serial No. 457,252; Apr. 27. Class 42.

Puritan Chemical Company, Atlanta, Ga. Device containing chemicals for use in absorbing moisture and as a deodorizer. Serial No. 457,777; Apr. 27. Class 6.

Raybestos-Manhattan, Inc., Stratford, Conn. Plasticizer for synthetic rubber compounds. Serial No. 458,742; Apr. 27. Class 6.

Reardon, W. G., Laboratories, Inc., Port Chester, N. Y. Preparation for exterminating rodents. Serial No. 459,029; Apr. 27. Class 6.

Royall, John A., East Boothbay, Maine. Razor blade sharpeners. Serial No. 456,346; Apr. 27. Class 23.

Safe Drug Store. (See Stopelli, Caesar A.)

Salfair Hats, New York, N. Y. Ladies' and children's hats. Serial No. 456,083; Apr. 27. Class 39.

Sarasota Celery Company, Sarasota, Fla. Celery. Serial No. 458,123; Apr. 27. Class 46.

Smith, J. Jay, doing business as Esseneff Company, Chicago, Ill. Dice games. Serial No. 451,092; Apr. 27. Class 22.

Sooner Coal Mining Company, Kansas City, Mo. Coal. Serial No. 452,027; Apr. 27. Class 1.

Spiliadis, B. & Co., Inc., New York, N. Y. Canned olive oil. Serial No. 458,953; Apr. 27. Class 46.

Stella Cheese Company, Chicago, Ill. Blue cheese. Serial No. 455,934; Apr. 27. Class 46.

Stoker, Charles Edward, Louisville, Ky. Dressed poultry. Serial No. 458,293; Apr. 27. Class 46.

Stopelli, Caesar A., doing business under the names Safe Drug Store and Triac Pharmacal Co., New York, N. Y. Tonic and reconstructive. Serial No. 455,462; Apr. 27. Class 6.

Stout, Charles Banks, Memphis, Tenn. Wheat flour. Serial No. 457,689; Apr. 27. Class 46.

Strunk, J. Horace, Bangor, Pa. Section in a periodical magazine. Serial No. 458,821; Apr. 27. Class 38.
Triac Pharmacal Co. (See Stopelli, Caesar A.)
Tribune Company, Chicago, Ill. Newspaper column. Serial No. 458,348; Apr. 27. Class 38.
Universal Wheel & Abrasive Corp., Chicago, Ill. Abrasive wheels. Serial No. 458,976; Apr. 27. Class 4.
Universal Zonolite Insulation Co., Chicago, Ill. Paint pigment. Serial No. 456,679; Apr. 27. Class 16.
Velocity Steam Systems. (See Harrison, E. P.)
Wayne Foundry Company, Detroit, Mich. Metal castings. Serial No. 458,296; Apr. 27. Class 14.
Wells, Ruth, Los Angeles, Calif. Portable urinals. Serial No. 455,406; Apr. 27. Class 44.
Wheel Trueing Tool Company of Delaware, Detroit, Mich. Diamond dressing tools. Serial No. 458,979; Apr. 27. Class 23.
Whitney Blake Company, The, New Haven, Conn. Insulated wires and cables. Serial No. 458,362; Apr. 27. Class 21.
Whittle Music Company, Dallas, Tex. Band and orchestra instruments. Serial No. 452,256; Apr. 27. Class 36.
Wilmer Products. (See Holmes, John W.)
Wood & Selick, Inc., New York, N. Y. Preparation made from fruit pits, sugar etc. Serial No. 458,772; Apr. 27. Class 46.
Zimba Beverage Co., Inc., New York, N. Y. Maltless nonalcoholic beverages, syrups, flavors. Serial No. 457,668; Apr. 27. Class 45.

LIST OF REGISTRANTS OF TRADE-MARKS

Abelson, George S. (See Carmen Manufacturing Company, assignor.)
Allen, Arthur V., doing business as A. V. Allen, Oak Park, Ill. Medicinal compound. 401,141; Apr. 27; Serial No. 454,959; published Jan. 19, 1943. Class 6.
American Auto Lamp Co. Inc., New York, N. Y., assignor to Yankee Metal Products Corp., Norwalk, Conn. Electric automobile lamps. 172,399; renewed Aug. 28, 1943.
American Copper Products Corporation, Elizabeth Port, N. J., assignor, by mesne assignments, to Phelps Dodge Copper Products Corporation, New York, N. Y., and Dover, Del. Bare and insulated wire, cable and cordage. 171,030; renewed July 31, 1943.
American Cotton Oil Company, The. (See Fairbank, N. K., Company, The, assignor.)
American Tobacco Company, The, New York, N. Y. Tobacco, cigarettes, cigars, etc. 401,180; Apr. 27; Serial No. 457,025; published Feb. 16, 1943. Class 17.
Amoskeag-Lawrence Mills, Inc., Manchester, N. H. Piece goods. 401,152; Apr. 27; Serial No. 455,881; published Feb. 16, 1943. Class 42.
Amoskeag-Lawrence Mills, Inc., Manchester, N. H. Yarns. 401,153; Apr. 27; Serial No. 455,882; published Feb. 16, 1943. Class 43.
Ams, Max, Inc., New York, N. Y. Prune juice. 401,187; Apr. 27; Serial No. 457,233; published Feb. 9, 1943. Class 45.
Ardrey, Renwick G. (See Lewis, W. E., Ardrey, Hall, and Daugherty.)
Ar-Jay Laboratories, Inc., Ontario, Calif. Shampoos, rinses, wave-set preparation, etc. 401,210; Apr. 27; Serial No. 457,597; published Feb. 9, 1943. Class 6.
Art Metal Works, Inc., The, Newark, N. J. Combination pocket pencils and pocket lighters. 166,124; renewed Mar. 27, 1943.
Bardin & Jensen, Los Angeles, Calif. Sugar wafers, fig bars, graham toffees, etc. 401,144; Apr. 27; Serial No. 455,410; published Feb. 16, 1943. Class 46.
Baskies, Max, doing business as Maxim Chemical Works Ltd., Boston, Mass. Anti-pain tablet. 401,111; Apr. 27; Serial No. 443,665; published Feb. 16, 1943. Class 6.
Beacon Record Co. (See Davis, Joseph M.)
Bell & Zoller Coal Company, Chicago, Ill. Coal. 401,132; Apr. 27; Serial No. 453,486; published Feb. 16, 1943. Class 1.
Bergeron, Esther, Oakland, Calif. Novelties and curios. 401,121; Apr. 27; Serial No. 449,986; published Feb. 16, 1943. Class 50.
Bernstein, Chas., & Son, Inc., New York, N. Y. Textile fabrics in the piece. 401,221; Apr. 27. Class 42.
Berry, Dr. C. H., Chemical Co., to Kremola Company, Inc., Chicago, Ill., successor. Face cream. 155,620; renewed June 6, 1942.
Bolinger, W. A., doing business as Bolinger Orchards, Methow, Wash. Fresh apples. 171,071; renewed July 31, 1943.
Borden Company, The, New York, N. Y. Fresh milk. 401,185; Apr. 27; Serial No. 457,216; published Feb. 16, 1943. Class 46.
Bradley, Milton, Company, Springfield, Mass. Crayons. 401,182; Apr. 27; Serial No. 457,111; published Feb. 16, 1943. Class 37.
Bradley, Milton, Company, Springfield, Mass. Board game played with movable pieces. 401,213; Apr. 27; Serial No. 457,672; published Feb. 16, 1943. Class 22.
Brewer & Company, Inc., Worcester, Mass. Lime. 171,535; renewed Aug. 7, 1943.
Bristol-Myers Company, assignor, by mesne assignments, to Bristol-Myers Company, New York, N. Y. Cold cream. 167,913; renewed May 8, 1943.
Buckeye Traction Ditcher Company, The, Findlay, Ohio. Traction wheels. 171,590; renewed Aug. 7, 1943.
Bulldog Floor Clip Company, assignor, by mesne assignments, to W. C. Krabiel, doing business as Bull Dog Floor Clip Company, Winterset, Iowa. Floor clips for fastening wooden floors or the like to a concrete construction. 171,442; renewed Aug. 7, 1943.
Bundzik, Mary, Johnstown, Pa. Cleaning and polishing preparation for furniture, radios, automobiles, etc. 401,143; Apr. 27; Serial No. 455,131; published Feb. 16, 1943. Class 16.
Burson Knitting Company, Rockford, Ill. Hosiery. 171,297; renewed Aug. 7, 1943.
C Y C Products Co. (See Warfield, Rose.)
Cal-Royal Co., Inc., New York, N. Y. Fresh avocado pears. 401,204; Apr. 27; Serial No. 457,491; published Feb. 16, 1943. Class 46.
Carmen Manufacturing Company, assignor to George S. Abelson, doing business as Carmen Manufacturing Company, Chicago, Ill. Brassières. 166,207; renewed Mar. 27, 1943.
Celanese Corporation of America, New York, N. Y. Piece goods. 401,171; Apr. 27; Serial No. 456,883; published Jan. 19, 1943. Class 42.
Challenge Company, Batavia, Ill. Windmills, engines, pumps, etc. 172,799; renewed Sept. 11, 1943.
Chase Brass & Copper Co. (See Hungerford, U. T., Brass & Copper Co., assignor.)
Cherry-Bassett-Winner Company, Wilmington, Del., and Philadelphia, Pa., assignor to Cherry-Burrell Corporation, Chicago, Ill. Stationary engines and machines. 166,859; renewed Apr. 17, 1943.
Cherry-Burrell Corporation. (See Cherry-Bassett-Winner Company.)
Chicago Belting Company, assignor to Chicago Belting Company, Chicago, Ill. Leather belting. 171,537; renewed Aug. 7, 1943.
Chicago Flexible Shaft Company, Chicago, Ill. Animal shearing machines, etc.; clippers for human hair, etc.; double end grinders, etc.; belt driven gears; positive drive gears for shearing machines, etc. 401,162; Apr. 27; Serial No. 456,584; published Feb. 9, 1943. Class 23.
Chicago Pharmacal Company, The, Chicago, Ill. Tablet having analgesic and mild hypnotic properties. 401,195; Apr. 27; Serial No. 457,380; published Feb. 16, 1943. Class 6.
Chicago Pharmacal Company, The, Chicago, Ill. Vaginal suppository. 401,202; Apr. 27; Serial No. 457,460; published Feb. 16, 1943. Class 6.
Collegiate Manufacturing Company, Inc., New York, N. Y. Pajamas, nightgowns, slips, etc. 401,110; Apr. 27; Serial No. 443,653; published Feb. 9, 1943. Class 39.
Collins & Aikman Corporation, Philadelphia, Pa., and New York, N. Y. Worsted fabrics, primarily for women's outer wear. 401,149; Apr. 27; Serial No. 455,791; published Feb. 16, 1943. Class 42.
Collins & Aikman Corporation, Philadelphia, Pa., and New York, N. Y. Blended fabrics which are primarily for women's outer wear. 401,150; Apr. 27; Serial No. 455,792; published Feb. 16, 1943. Class 42.
Collins & Aikman Corporation, Philadelphia, Pa., and New York, N. Y. Worsted fabrics for women's and men's suitings. 401,151; Apr. 27; Serial No. 455,793; published Feb. 16, 1943. Class 42.
Columbia Mills, Inc., The, New York, N. Y. Curtains. 401,224; Apr. 27. Class 42.
Continental Record Company, Inc., New York, N. Y. Phonograph records. 401,203; Apr. 27; Serial No. 457,463; published Feb. 16, 1943. Class 36.
Continental Woolen Company, assignor to Louis Scall, New York, N. Y. Piece goods. 401,225; Apr. 27. Class 42.
Cooper, Leo M. (See Hoffman, Samuel L., assignor.)
Curtiss-Wright Corporation, New York and Buffalo, N. Y., Columbus, Ohio, and St. Louis, Mo. Airplanes and structural parts thereof. 401,159; Apr. 27; Serial No. 456,460; published Feb. 16, 1943. Class 19.
Daugherty, Russell L. (See Lewis, W. E., Ardrey, Hall, and Daugherty.)
Davis, Joseph M., doing business as Beacon Record Co., New York, N. Y. Phonograph records. 401,214; Apr. 27; Serial No. 457,703; published Feb. 16, 1943. Class 36.

Dayton Rubber Manufacturing Company, The, Dayton, Ohio. Synthetic rubber-like compositions. 401,134; Apr. 27; Serial No. 456,237; published Feb. 16, 1943. Class 50.
Deltox Rug Company, Oshkosh, Wis. Rugs, floor mats, and floor coverings. 401,164; Apr. 27; Serial No. 456,081; published Feb. 2, 1943. Class 42.
Denney, Frances, Philadelphia, Pa. Perfume, cologne, and cream cologne. 401,131; Apr. 27; Serial No. 453,238; published Dec. 1, 1942. Class 6.
Dessan, Maurice S., New York, N. Y. Diamond-pointed tools. 401,227; Apr. 27. Class 23.
Detroit Harvester Company. (See Dura Company, The, assignor.)
Dickinson, Albert, Company, The, Chicago, Ill. Shelled pop corn. 23,250; re-renewed June 27, 1943.
Dickinson, Albert, Company, The, Chicago, Ill. Seeds. 23,347; re-renewed July 11, 1943.
Dickson, Hugh F., Covington, Tenn. Salve. 172,972; renewed Sept. 11, 1943.
Driver-Harris Company, Harrison, N. J. Castings and forgings. 401,155; Apr. 27; Serial No. 456,015; published Feb. 16, 1943. Class 14.
Dugan & Hudson Co., Rochester, assignor, by mesne assignments, to R. H. Macy & Co. Inc., New York, N. Y. Leather boots and shoes. 172,030; renewed Aug. 21, 1943.
Dura Company, The, Toledo, Ohio, assignor to Detroit Harvester Company, Detroit, Mich. Window regulators. 171,735; renewed Aug. 14, 1943.
Eastman Kodak Company, Jersey City, N. J., and Rochester, N. Y. Photographic developers. 401,113; Apr. 27; Serial No. 445,385; published Feb. 9, 1943. Class 6.
Electronic Specialty Co. (See Marcus, David A.)
Empire Curtain Mfg. Co. (See Perlmutter, Samuel.)
Endicott Johnson Corporation, Endicott, N. Y. Leather shoes. 172,948; renewed Sept. 11, 1943.
Exeter Manufacturing Company, Exeter, N. H., and New York, N. Y. Cotton piece goods. 401,154; Apr. 27; Serial No. 455,912; published Feb. 16, 1943. Class 42.
Fairbank, N. K., Company, The, assignor to The American Cotton Oil Company, Union Township, near Guttenberg, N. J., and Chicago, Ill., assignor, by mesne assignments, to Lever Brothers Company, Cambridge, Mass. Vegetable shortening compound. 172,051; renewed Aug. 21, 1943.
Fashion Silks Corp., New York, N. Y. Spun rayon cloth in the piece. 401,188; Apr. 27; Serial No. 457,242; published Feb. 16, 1943. Class 42.
Field-Ernst Envelope Co., San Francisco, Calif. Envelopes. 401,177; Apr. 27; Serial No. 457,005; published Feb. 16, 1943. Class 37.
General Paint Corporation. (See Hill-Hubbell and Company, assignor.)
Gold Mark Hosiery Co. (See Newmark, Samuel F.)
Goodrich, B. F., Company, The, New York, N. Y., and Akron, Ohio. Spring pressure brake for use as an attachment to the accelerator pedal of automotive vehicles to serve as a warning against excessive speed. 401,158; Apr. 27; Serial No. 456,387; published Feb. 16, 1943. Class 23.
Grand-Forks Bottling Works, The, assignor to Grand Forks Coca-Cola Bottling Company, Grand Forks, N. D. Soft drinks. 171,599; renewed Aug. 7, 1943.
Grand Forks Coca-Cola Bottling Company. (See Grand Forks Bottling Works, The, assignor.)
Greater N. Y. Hat & Cap Works, assignor, by mesne assignments, to Greater New York Hat Co., New York, N. Y. Men's and boys' hats. 166,846; renewed Apr. 17, 1943.
Greenfield's, E., Sons, New York and Brooklyn, to Henry Heide, Incorporated, New York, N. Y., by merger. Chocolate candies. 168,871; renewed May 29, 1943.
Greenfields', E., Sons, New York and Brooklyn, to Henry Heide, Incorporated, New York, N. Y., by merger. Chocolates and candies. 168,872; renewed May 29, 1943.
Greif Bros. Cooperage Corporation, The, also doing business as Seymour & Peck Co., Cleveland, Ohio, and Chicago, Ill. Wooden drums. 401,196; Apr. 27; Serial No. 457,390; published Feb. 16, 1943. Class 2.
Hall, Cecil O. (See Lewis, W. E., Ardrey, Hall, and Daugherty.)
Hammer-Slices, Inc., Chicago, Ill. Ladies' and misses' coats. 401,146; Apr. 27; Serial No. 455,655; published Feb. 9, 1943. Class 39.
Haslams Limited, Manchester, England. Piece goods and bedsheets and pillow cases. 401,226; Apr. 27. Class 42.
Heide, Henry, Incorporated. (See Greenfield's, E., Sons.)
Heller, B., & Company, Chicago, Ill. Food flavorings and spices. 171,334; renewed Aug. 7, 1943.
Heller, B., & Company, Chicago, Ill. Flavoring compound. 171,578; renewed Aug. 7, 1943.
Heller, B., & Company, Chicago, Ill. Flavoring compound for use in confectionery. 171,579; renewed Aug. 7, 1943.
Heller, B., & Company, Chicago, Ill. Flavoring compound for use in cakes, pastry, and other bakery goods. 171,580; renewed Aug. 7, 1943.
Heller, B., & Company, Chicago, Ill. Chemical preparation used in the curing of meat. 172,347; renewed Aug. 28, 1943.
Hill-Hubbell and Company, assignor to General Paint Corporation, San Francisco, Calif. Paints, paint coatings, paint enamels, and varnishes. 170,881; renewed July 24, 1943.
Hill-Shaw Company, Chicago, Ill. Glass coffee brewers. 401,142; Apr. 27; Serial No. 455,073; published Feb. 16, 1943. Class 13.
Hoffman, Samuel L., Brooklyn, N. Y., and Jersey City, N. J., assignor, by mesne assignments, to Leo M. Cooper, doing business as Puritan Uniform Company, New York, N. Y. Ladies' house and street dresses and men's, ladies', and children's bath robes. 164,226; renewed Feb. 13, 1943.
Holland Food Corporation, New York, N. Y. Cheese. 170,862; renewed July 24, 1943.
House Beautiful Curtains, Inc., New York, N. Y. Curtains, draperies, bedspreads, etc. 401,163; Apr. 27; Serial No. 456,672; published Feb. 2, 1943. Class 42.
Huff, Barnes & Opie, Inc., Pittsburgh, Pa. Wrapping paper. 172,661; renewed Sept. 11, 1943.
Hungerford, U. T., Brass & Copper Co., New York, N. Y., assignor, by mesne assignments, to Chase Brass & Copper Co., Incorporated, Waterbury, Conn. Babbitt metal. 171,791; renewed Aug. 14, 1943.
Hutchens Industries, Eau Claire, Wis. Oil filters and parts thereof. 401,197; Apr. 27; Serial No. 457,392; published Feb. 9, 1943. Class 23.
Hyland, George H., doing business as Standard Homeopathic Company, assignor to Standard Homeopathic Company, Los Angeles, Calif. Remedy for cold in head and certain other ailments and diseases. 172,576; renewed Sept. 11, 1943.
Illinois Electric Porcelain Company, Macomb, Ill. Insulators, split insulators, assembled split insulators, and knobs. 172,397; renewed Aug. 28, 1943.
Ingraham, E., Company, The, Bristol, Conn. Cabinets. 401,228; Apr. 27. Class 32.
Interchemical Corporation, New York, N. Y. Paint pigments. 401,168; Apr. 27; Serial No. 456,825; published Feb. 16, 1943. Class 16.
Iowa Fiber Box Company, to Iowa Fiber Box Company, Keokuk, Iowa, successor. Fiber boxes. 170,761; renewed July 24, 1943.
Kahn, David, Inc., North Bergen, N. J. Fountain pens, mechanical pencils, combination fountain pens and mechanical pencils, etc. 401,170; Apr. 27; Serial No. 456,874; published Feb. 16, 1943. Class 37.
Kanmak Textiles, Inc., New York, N. Y. Water repellent piece goods. 401,178; Apr. 27; Serial No. 457,008; published Feb. 2, 1943. Class 42.
Kaplan, Jacob, to Modern Bathrobe and Novelty Co., New York, N. Y., successor. Baby bath robes. 166,632; renewed Apr. 10, 1943.
Kearney & Trecker Corporation, West Allis, Wis. Cutters for machine tools. 401,119; Apr. 27; Serial No. 449,421; published Feb. 9, 1943. Class 23.
Kemp, E. F., Inc., Somerville, Mass. Nuts. 401,184; Apr. 27; Serial No. 457,202; published Feb. 16, 1943. Class 46.
Kerite Insulated Wire & Cable Company, Inc., The, Seymour, Conn., and New York, to The Kerite Insulated Wire & Cable Company, Inc., New York, N. Y. Insulated wire and cables. 172,336; renewed Aug. 28, 1943.
Knapp Brothers Manufacturing Company, Chicago, to Knapp Brothers Manufacturing Company, Joliet, Ill. Construction materials. 172,674; renewed Sept. 11, 1943.
Kops Bros., assignor to Kops Brothers, Inc., New York, N. Y. Corsets, brassières, corset covers, etc. 166,045-6; renewed Mar. 27, 1943.
Kops Bros., assignor to Kops Brothers, Inc., New York, N. Y. Corsets, brassières, and underwear, etc. 166,215; renewed Mar. 27, 1943.
Krabiel, W. C. (See Bulldog Floor Clip Company, assignor.)
Kremola Company, The. (See Berry, Dr. C. H., Chemical Co.)
Lake Shore Engineering Company, Iron Mountain, Mich. Cargo winches. 401,166; Apr. 27; Serial No. 456,776; published Feb. 9, 1943. Class 23.
Lamont, Corliss & Company. (See Runkel Brothers, Inc., assignor.)
Lannett Company, Incorporated, The, Philadelphia, Pa. Dermatological preparation. 401,138; Apr. 27; Serial No. 454,556; published Feb. 9, 1943. Class 6.
Lapin Products, Inc., New York, N. Y. Spectacles and sunglasses. 401,219; Apr. 27. Class 26.
Lapres, Theo. J., Inc., Atlantic City, N. J. Salt water taffy. 172,286; renewed Aug. 28, 1943.
Lascoff, J. Leon, & Son, New York, N. Y. Mixture for use as an ingredient of ointments and lotions. 401,135; Apr. 27; Serial No. 454,259; published Feb. 16, 1943. Class 6.
Lazarus, A. S. & Co., Inc., New York, N. Y. Towel sets, sheets and pillow cases, wash cloths, etc. 401,129; Apr. 27; Serial No. 451,629; published Feb. 16, 1943. Class 42.
Leggett, Francis H., & Company, New York, N. Y. Flavoring preparation for food products. 170,164; renewed July 10, 1943.
Lehn & Fink Products Corporation, Bloomfield, N. J. Perfume and eau de cologne. 401,189; Apr. 27; Serial No. 457,277; published Feb. 9, 1943. Class 6.

Les Parfums Worth de Paris, Inc., New York, N. Y. Perfume, toilet water, eau de cologne, etc. 401,209; Apr. 27; Serial No. 457,577; published Feb. 9, 1943. Class 6.
Lever Brothers Company. (See Fairbank, N. K., Company, The, assignor.)
Lewis, William E., Renwick G. Ardrey, Cecil O. Hall, and Russell L. Daugherty, Huntington, W. Va. Shoes. 401,220; Apr. 27. Class 39.
Lilly, Eli, and Company, Indianapolis, Ind. Medicinal respiratory vaccine. 401,211; Apr. 27; Serial No. 457,626; published Feb. 16, 1943. Class 6.
Lilly, Eli, and Company, Indianapolis, Ind. Packaged sterile drugs for local application on wounds and infected areas of the body. 401,212; Apr. 27; Serial No. 457,627; published Feb. 16, 1943. Class 6.
Linton, Robert H., New York, N. Y. Woolen piece goods. 172,836; renewed Sept. 11, 1943.
Macy, R. H., & Co. Inc. (See Dugan & Hudson Co., assignor.)
Mallison, H. R., & Co., Inc., assignor to Mallinson Fabrics Corporation, New York, N. Y. Silk piece goods. 171,392; renewed Aug. 7, 1943.
Manton-Gaulin Manufacturing Company, Inc., Boston and South Boston, to Manton-Gaulin Manufacturing Company, Inc., Everett, Mass. Homogenizer. 172,517; renewed Sept. 4, 1943.
Manufacturers Supplies Company, St. Louis, Mo. Threads. 172,834; renewed Sept. 11, 1943.
Marcus, David A., doing business as Electronic Specialty Co., Los Angeles, Calif. Radio apparatus. 401,122; Apr. 27; Serial No. 449,997; published Feb. 16, 1943. Class 21.
Mason, Au & Magenheimer Confectionery Manufacturing Company, Brooklyn, N. Y. Candies. 165,797; renewed Mar. 20, 1943.
Maxim Chemical Works Ltd. (See Baskies, Max.)
McCormick & Co., Incorporated, Baltimore, Md. Roach poison. 401,205; Apr. 27; Serial No. 457,501; published Feb. 16, 1943. Class 6.
Merrell, Wm. S., Company, The, Cincinnati, Ohio. Antiseptic tannic acid jelly. 401,198; Apr. 27; Serial No. 457,400; published Feb. 16, 1943. Class 6.
Metro Chocolate Co. Inc., The, New York, N. Y. Candies. 401,114; Apr. 27; Serial No. 445,999; published Feb. 16, 1943. Class 46.
Modern Bathrobe and Novelty Co. (See Kaplan, J.)
Moorman Manufacturing Company, Quincy, Ill. Mechanical feed mixers for mixing feeds for farm animals. 401,116; Apr. 27; Serial No. 447,818; published Feb. 2, 1943. Class 23.
Morse Bros., Canton, Mass., assignor to J. L. Prescott Company, Passaic, N. J. Stove polish or blacking. 22,622; re-renewed Mar. 7, 1943.
Murdock, Wm. J., Co., Chelsea, Mass. Wireless apparatus. 172,825; renewed Sept. 11, 1943.
Nashua Manufacturing Company, Boston, Mass. Blankets. 401,137; Apr. 27; Serial No. 454,457; published Feb. 16, 1943. Class 42.
National Cylinder Gas Company, Chicago, Ill. Compressed gases. 401,145; Apr. 27; Serial No. 455,439; published Nov. 17, 1942. Class 6.
National Cylinder Gas Company, Chicago, Ill. Alternating current electric welding apparatus and direct current welding apparatus. 401,176; Apr. 27; Serial No. 456,957; published Feb. 16, 1943. Class 21.
Nestle's Milk Products, Inc., New York, N. Y. Precooked cereal food. 401,208; Apr. 27; Serial No. 457,563; published Feb. 16, 1943. Class 46.
Newmark, Samuel F. (See Reingold Hosiery Co., assignor.)
Newton, Chambers & Co. Limited, near Sheffield, to Newton, Chambers & Company Limited, Thorncliffe, Sheffield, England. Apparatus for generating and diffusing vaporized germicides or disinfectants. 172,296; renewed Aug. 28, 1943.
Northern Cold Storage and Warehouse Co., doing business as Northern Egg Producers, Duluth, Minn. Eggs. 401,127–8; Apr. 27; Serial Nos. 451,605–6; published Feb. 16, 1943. Class 46.
O-Jib-Wa Medicine Company. (See Shafe, Kenneth W.)
O-Jib-Wa's Indian Medicine Company. (See Shafe, Wilfred T.)
Oklahoma Publishing Company, The, Oklahoma City, Okla. Newspaper. 170,041; renewed July 10, 1943.
Oklahoma Publishing Company, The, Oklahoma City, Okla. Newspaper. 170,045; renewed July 10, 1943.
Orloff, Nicholas W., New York, N. Y. Saponaceous compounds, shaving creams, shaving sticks, etc. 401,181; Apr. 27; Serial No. 457,044; published Feb. 16, 1943. Class 4.
Oris Watch Co. (See Stern, Jack.)
Paraffine Companies, Inc., The, San Francisco, Calif. Varnish. 166,382; renewed Apr. 3, 1943.
Parkview Pharmacies. (See Smolinsky, Phillip, assignor.)
Perlmutter, Samuel, doing business as Empire Curtain Mfg. Co., Boston, Mass. Window curtains, draperies, and bedspreads. 401,148; Apr. 27; Serial No. 455,733; published Feb. 9, 1943. Class 42.
Phelps Dodge Copper Products Corporation. (See American Copper Products Corporation, assignor.)
Philco Corporation, Philadelphia, Pa. Metal drive cord, dial drive cord, and control drive cable. 401,118; Apr. 27; Serial No. 449,152; published Feb. 16, 1943. Class 7.
Philco Corporation, Philadelphia, Pa. Fibre wrenches, wrench sockets, screw drivers, etc. 401,139; Apr. 27; Serial No. 454,609; published Feb. 9, 1943. Class 23.
Phillips-Jones Corporation, New York, N. Y. Shirts, night shirts, pyjamas, etc. 171,776; renewed Aug. 14, 1943.
Plak-Kloz Company, New York, N. Y. Separable fasteners of the button and button hole tape type. 401,169; Apr. 27; Serial No. 456,831; published Feb. 16, 1943. Class 40.
Planned Foods, Inc., New York, N. Y. Food product for addition to chopped meat, fowl, fish, etc. 401,165; Apr. 27; Serial No. 456,750; published Feb. 16, 1943. Class 46.
Plastergon Wall Board Company, Buffalo, N. Y. Wallboard. 401,217–18; Apr. 27. Class 12.
Plunkett, W. H., doing business as Plunkett Chemical Company, Chicago, Ill. Rodenticide. 401,125; Apr. 27; Serial No. 450,692; published Apr. 7, 1942. Class 6.
Prescott, J. L., Company. (See Morse Bros., assignor.)
Prime Products, Inc., Tampa, Fla. Fruit and vegetable extracts and juices in solidified form. 401,174; Apr. 27; Serial No. 456,928; published Feb. 16, 1943. Class 46.
Puritan Uniform Company. (See Cooper, Leo M.)
Quality Bakers of America Co-Op., Inc., New York, N. Y. Bread. 401,161; Apr. 27; Serial No. 456,566; published Feb. 16, 1943. Class 46.
Queen Anne Undies, Inc., New York, N. Y. Ladies' apparel. 401,186; Apr. 27; Serial No. 457,229; published Feb. 9, 1943. Class 39.
Reed, E. P., & Co., Rochester, N. Y. Shoes made of leather. 172,122; renewed Aug. 21, 1943
Reed, E. P., & Co., Rochester, N. Y. Shoes made of leather. 172,133; renewed Aug. 21, 1943.
Reingold Hosiery Co., New York, assignor to Samuel F. Newmark, doing business as "Gold Mark Hosiery Co.", Brooklyn and New York, N. Y. Hosiery. 164,753; renewed Feb. 27, 1943.
Reynolds, Walter Holland, Takanini, New Zealand. Veterinary preparation. 401,126; Apr. 27; Serial No. 451,020; published Feb. 16, 1943. Class 6.
Root, A. I., Company, The, Medina, Ohio. Beehives and comb foundations. 172,654; renewed Sept. 11, 1943.
Rubber City Manufacturing Co., The, Akron, Ohio. Chemical dye preparation. 401,192; Apr. 27; Serial No. 457,286; published Feb. 9, 1943. Class 6.
Runkel Brothers, Inc., assignor, by mesne assignments, to Lamont, Corliss & Company, New York, N. Y. Sweet vanilla chocolate. 165,801; renewed Mar. 20, 1943.
Ruppert, Jacob, New York, N. Y. Barley-malt extract. 171,346; renewed Aug. 7, 1943.
Sabella, V., & Co., Inc., New York, N. Y. Canned peeled tomatoes with tomato paste. 401,206; Apr. 27; Serial No. 457,512; published Feb. 16, 1943. Class 46.
St. Louis Brass Mfg. Co., St. Louis, Mo. Electrical lighting fixtures. 172,317; renewed Aug. 28, 1943.
Samson Cordage Works, Boston, Mass. Braided sash cord. 23,509; re-renewed Aug. 15, 1943.
Sandoz Chemical Works, Inc., New York, N. Y. Medicinal preparation. 401,215; Apr. 27; Serial No. 457,709; published Feb. 16, 1943. Class 6.
Scall, Louis. (See Continental Woolen Company, assignor.)
Schultz, Lightfoot, Company, Hoboken, N. J., to Lightfoot Schultz Co., New York, N. Y., and Hoboken, N. J. Soaps. 165,208; renewed Mar. 6, 1943.
Schwarzenbach Huber Co., The, New York, N. Y. Piece goods. 401,136; Apr. 27; Serial No. 454,379; published Feb. 16, 1943. Class 42.
Seward Trunk and Bag Company, Petersburg, Va. Wardrobe trunks. 171,214; renewed July 31, 1943.
Seymour & Peck Co. (See Greif Bros. Cooperage Corporation, The.)
Shafe, Kenneth W. (See Shafe, Wilfred T.)
Shafe, Wilfred T., doing business as O-Jib-Wa's Indian Medicine Company to Kenneth W. Shafe, doing business as O-Jib-Wa Medicine Company, Flint, Mich., successor. Medicinal bitters. 163,168; renewed Jan. 2, 1943.
Shane, C. B., Corporation, Chicago, Ill. Snap fastener tape, and button and buttonhole tape. 401,223; Apr. 27. Class 40.
Shapiro & Son Curtain Corporation, New York, N. Y. Window curtains. 401,222; Apr. 27. Class 42.
Shavers and parts thereof, Dry. Remington Rand Inc. 401,190–1; Apr. 27; Serial Nos. 457,281–2; published Feb. 2, 1943. Class 23.
Sieffert, Frank W., Chicago, Ill. Bath cabinets. 401,115; Apr. 27; Serial No. 446,980; published Nov. 4, 1941. Class 13.
Smolinsky, Phillip, doing business as Parkview Pharmacy, assignor to Parkview Pharmacies, Kansas City, Mo. Ice cream. 169,812; renewed July 3, 1943.
Southern Mills, Incorporated, Atlanta, Ga. Cotton, flannel, knitted cotton padding, cotton cover cloth, etc. 401,133; Apr. 27; Serial No. 454,124; published Feb. 9, 1943. Class 42.

Sparkle Beverage Co. (See Zeller, Emil E.)
Spaulding Bakeries, Inc., Binghamton, N. Y. Bakery products. 401,216; Apr. 27. Class 46.
Spectratone, Inc., Berkeley, Calif. Three-color screened plates for letter press printing, rotary press printing, newspaper printing, etc. 401,183; Apr. 27; Serial No. 457,176; published Feb. 2, 1943. Class 23.
Squirt Company, The, Beverly Hills, Calif. Nonalcoholic beverages and the bases, syrups, concentrates and extracts for making same. 401,117; Apr. 27; Serial No. 448,308; published Dec. 23, 1941. Class 45.
Standard Homeopathic Company. (See Hyland, George H., assignor.)
Stanley Home Products, Inc., Westfield, Mass. Germicides, disinfectants, and deodorizers. 401,156; Apr. 27; Serial No. 456,132; published Feb. 16, 1943. Class 6.
Stanley Home Products, Inc., Westfield, Mass. Hair and tooth brushes. 401,157; Apr. 27; Serial No. 456,133; published Feb. 9, 1943. Class 29.
Stern, Jack, doing business as Ovis Watch Co., New York, N. Y. Watches. 401,179; Apr. 27; Serial No. 457,017; published Feb. 16, 1943. Class 27.
Sturges Company, The, Meridian, Miss. Horse and mule feed. 172,743; renewed Sept. 11, 1943.
Suckling Limited, Birmingham, England. Ash-trays, asparagus-dishes, asparagus-eaters, etc. 401,172; Apr. 27; Serial No. 456,909; published Feb. 16, 1943. Class 28.
Sulflo, Inc., Elizabeth, N. J. Metal cutting lubricating compound. 401,123; Apr. 27; Serial Nos. 450,120; published Feb. 9, 1943. Class 15.
Sulflo, Inc., Elizabeth, N. J. Metal cutting lubricating compound. 401,124; Apr. 27; Serial No. 450,128; published Feb. 9, 1943. Class 15.
Telegraph Construction & Maintenance Company, Limited, The, London, England. Insulated electric cables. 401,173; Apr. 27; Serial No. 456,910; published Feb. 16, 1943. Class 21.
Tingue, Brown & Co., New York, N. Y. Laundry bags. 170,226; renewed July 10, 1943.
Tingue, Brown & Co., New York, N. Y. Cotton sheeting. 166,909; renewed Apr. 17, 1943.
Tribble Cordage Mills, Inc., Boston, to Tribble Cordage Mills, Inc., Woburn, Mass. Clotheslines. 166,110; renewed Mar. 27, 1943.
Ullmann, Bernhard, Co. Inc., New York, N. Y. Art needle work yarns. 401,201; Apr. 27; Serial No. 457,454; published Feb. 16, 1943. Class 43.
Union Oil Company of California, Los Angeles, Calif. Lubricating oils. 401,194; Apr. 27; Serial No. 457,376; published Feb. 9, 1943. Class 15.
United States Gypsum Company, Chicago, Ill. Gypsum cement compositions. 401,120; Apr. 27; Serial No. 449,746; published Feb. 16, 1943. Class 12.
U. S. Hame Company, Buffalo, N. Y., by change of name to Ushco Manufacturing Company, Inc. Hame trimmings and saddlery hardware. 172,410; renewed Aug. 28, 1943.
United States Playing Card Company, The, East Norwood, Cincinnati, Ohio. Playing cards. 401,200; Apr. 27; Serial No. 457,426; published Feb. 16, 1943. Class 22.
Universal Unit Power Shovel Corp., Milwaukee, Wis. Power shovels. 401,112; Apr. 27; Serial No. 444,842; published Feb. 9, 1943. Class 23.
Ushco Manufacturing Company. (See U. S. Hame Company.)
Vandewart, Mark, Company Inc., New York, N. Y. Stomach bitters. 401,207; Apr. 27; Serial No. 457,519; published Feb. 9, 1943. Class 6.
Wallace, James W., doing business as Wallace Fruit Company, Edinburg, Tex. Fresh citrus fruit and fresh vegetables. 401,199; Apr. 27; Serial No. 457,406; published Feb. 16, 1943. Class 46.
Weco Products Company. (See Western Bottle Manufacturing Company.)
Western Bottle Manufacturing Company, Chicago, Ill., by change of name to Weco Products Company. Powder puffs and certain named brushes. 171,057; renewed July 31, 1943.
Western Bottle Manufacturing Company, doing business as The Western Company, Chicago, Ill., by change of name to Weco Products Company. Handkerchiefs and hair nets. 171,522; renewed Aug. 7, 1943.
Western Company, The. (See Western Bottle Manufacturing Company.)
Westinghouse Air Brake Company, Borough of Wilmerding, Pa. Fluid pressure control selector valves for marine control equipments. 401,193; Apr. 27; Serial No. 457,323; published Feb. 2, 1943. Class 23.
Williams, J. B., Company, The, Glastonbury, Conn. Cosmetics. 401,160; Apr. 27; Serial No. 456,480; published Feb. 16, 1943. Class 6.
Winner Manufacturing Co. Inc., Trenton, N. J. Semi-solid coating material for use in waterproofing porous base materials. 401,130; Apr. 27; Serial No. 453,046; published Feb. 16, 1943. Class 6.
Withers Brothers, Placentia, Calif. Fresh vegetables and fresh fruits. 168,648; renewed May 29, 1943.
X-Acto Crescent Products, Inc., New York, N. Y. Knives for hobby, arts, and crafts. 401,167; Apr. 27; Serial No. 456,784; published Feb. 16, 1943. Class 23.
Yankee Metal Products Corp. (See American Auto Lamp Co. Inc., assignor.)
Yates-American Machine Company, Beloit, Wis. Refrigerating apparatus. 401,140; Apr. 27; Serial No. 454,708; published Feb. 16, 1943. Class 31.
Zeller, Emil E., doing business as Sparkle Beverage Co., Tappahannock, Va. Carbonated beverages. 401,147; Apr. 27; Serial No. 455,687; published Feb. 16, 1943. Class 45.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal. Bell & Zoller Coal Company. 401,132; Apr. 27; Serial No. 453,486; published Feb. 16, 1943.
Seeds. Albert Dickinson Company. 23,347; re-renewed July 11, 1943.

CLASS 2

Bags, Laundry. Tingue, Brown & Co. 170,226; renewed July 10, 1943.
Boxes, Fiber. Iowa Fiber Box Company. 170,761. renewed July 24, 1943.
Drums, Wooden. Greif Bros. Cooperage Corporation. 401,196; Apr. 27; Serial No. 457,390; published Feb. 16, 1943.

CLASS 3

Hame trimmings and saddlery hardware. U. S. Hame Company. 172,410; renewed Aug. 28, 1943.
Trunks, Wardrobe. Seward Trunk and Bag Company. 171,214; renewed July 31, 1943.

CLASS 4

Saponaceous compounds, shaving creams, shaving sticks, etc. N. W. Orloff. 401,181; Apr. 27; Serial No. 457,044; published Feb. 16, 1943.
Soaps. Lightfoot Schultz Company. 165,208; renewed Mar. 6, 1943.
Stove polish or blacking. Morse Bros. 22,622; re-renewed Mar. 7, 1943.

CLASS 6

Antiseptic tannic acid jelly. Wm. S. Merrell Company. 401,198; Apr. 27; Serial No. 457,400; published Feb. 16, 1943.
Bitters, Stomach. Mark Vandewart Company Inc. 401,207; Apr. 27; Serial No. 457,519; published Feb. 9, 1943.
Chemical preparations used in the curing of meat. B. Heller & Company. 172,347; renewed Aug. 28, 1943.
Coating material for use in water proofing porous base materials, Semisolid. Winner Manufacturing Co. Inc. 401,130; Apr. 27. Serial No. 453,046; published Feb. 16, 1943.
Cold cream. Bristol-Myers Company. 167,913; renewed May 8, 1943.
Cosmetics. J. B. Williams Company. 401,160; Apr. 27; Serial No. 456,480; published Feb. 16, 1943.
Cough medicine, Liquid. R. Warfield. 401,175; Apr. 27; Serial No. 456,950; published Feb. 9, 1943.
Cream, Face. Dr. C. H. Berry Chemical Co. 155,620; renewed June 6, 1942.
Dermatological preparation. The Lannett Company. 401,138; Apr. 27; Serial No. 454,556; published Feb. 9, 1943.
Drus for local application on wounds and infected areas of the body, Packaged sterile. Eli Lilly and Company. 401,212; Apr. 27. Serial No. 457,627; published Feb. 16, 1943.
Dye preparation, Chemical. Rubber City Manufacturing Co. 401,192; Apr. 27; Serial No. 457,286; published Feb. 9, 1943.
Gases, Compressed. National Cylinder Gas Company. 401,145; Apr. 27. Serial No. 455,439; published Nov. 17, 1942.
Germicides, disinfectants, and deoderizers. Stanley Home Products, Inc. 401,156; Apr. 27; Serial No. 456,132; published Feb. 16, 1943.
Medicinal compound. A. V. Allen. 401,141; Apr. 27; Serial No. 454,959; published Jan. 19, 1943.
Medicinal bitters. W. T. Shafe. 163,168; renewed Jan. 2, 1943.
Medicinal preparation. Sandoz Chemical Works, Inc. 401,215; Apr. 27; Serial No. 457,709; published Feb. 16, 1943.
Medicinal respiratory vaccine. Eli Lilly and Company. 401,211; Apr. 27; Serial No. 457,626; published Feb. 16, 1943.
Mixture for use as an ingredient of ointments and lotions. J. Leon Lascoff & Son. 401,135; Apr. 27; Serial No. 454,259; published Feb. 16, 1943.

Perfume and eau de cologne. Lehn & Fink Products Corporation. 401,189; Apr. 27; Serial No. 457,277; published Feb. 9, 1943.
Perfume, cologne, and cream cologne. F. Denney. 401,131; Apr. 27; Serial No. 453,238; published Dec. 1, 1942.
Perfume, toilet water, eau de cologne, etc. Les Parfums Worth de Paris, Inc. 401,209; Apr. 27; Serial No. 457,577; published Feb. 9, 1943.
Photographic developers. Eastman Kodak Company. 401,113; Apr. 27; Serial No. 445,385; published Feb. 9, 1943.
Poison, Roach. McCormick & Co. 401,205; Apr. 27; Serial No. 457,501; published Feb. 16, 1943.
Remedy for cold in head and certain other ailments and diseases. G. H. Hyland. 172,576; renewed Sept. 11, 1943.
Rodenticide. W. H. Plunkett. 401,125; Apr. 27; Serial No. 450,692; published Apr. 7, 1942.
Salve. H. F. Dickson. 172,972; renewed Sept. 11, 1943.
Shampoos, rinses, wave-set preparation, etc. Ar-Jay Laboratories, Inc. 401,210; Apr. 27; Serial No. 457,597; published Feb. 9, 1943.
Suppository, Vaginal. Chicago Pharmacal Company. 401,202; Apr. 27; Serial No. 457,460; published Feb. 16, 1943.
Tablet, Anti-pain. M. Baskies. 401,111; Apr. 27; Serial No. 443,665; published Feb. 16, 1943.
Tablet having analgesic and mild hypnotic properties. Chicago Pharmacal Company. 401,195; Apr. 27; Serial No. 457,380; published Feb. 16, 1943.
Veterinary preparation. W. H. Reynolds. 401,126; Apr. 27; Serial No. 451,020; published Feb. 16, 1943.

CLASS 7

Clotheslines. Tribble Cordage Mills, Inc. 166,110; renewed Mar. 27, 1943.
Cord, dial drive cord, and control drive cable, Metal drive. Philco Corporation. 401,118; Apr. 27; Serial No. 449,152; published Feb. 16, 1943.
Sash cord, Braided. Samson Cordage Works. 23,309; re-renewed Aug. 15, 1943.

CLASS 12

Cement compositions, Gypsum. United States Gypsum Company. 401,120; Apr. 27; Serial No. 449,746; published Feb. 16, 1943.
Clips for fastening wooden floors or the like to a concrete construction, Floor. Bull Dog Floor Clip Company. 171,442; renewed Aug. 7, 1943.
Construction materials. Knapp Brothers Manufacturing Company. 172,674; renewed Sept. 11, 1943.
Lime. Brewer & Company. 171,535; renewed Aug. 7, 1943.
Wallboard. Plastergon Wall Board Company. 401,217–18; Apr. 27.

CLASS 13

Cabinets, Bath. F. W. Sieffert. 401,115; Apr. 27; Serial No. 446,980; published Nov. 4, 1941.
Coffee brewers, Glass. Hill-Shaw Company. 401,142; Apr. 27; Serial No. 455,073; published Feb. 16, 1943.
Regulators, Window. Dura Company. 171,735; renewed Aug. 14, 1943.

CLASS 14

Castings and forgings. Driver-Harris Company. 401,155; Apr. 27; Serial No. 456,015; published Feb. 16, 1943.
Metal, Babbitt. U. T. Hungerford Brass & Copper Co. 171,791; renewed Aug. 14, 1943.

CLASS 15

Metal cutting lubricating compound. Sulflo, Inc. 401,123; Apr. 27; Serial No. 450,120; published Feb. 9, 1943.
Metal cutting lubricating compound. Sulflo, Inc. 401,124; Apr. 27; Serial No. 450,128; published Feb. 9, 1943.
Oils, Lubricating. Union Oil Company of California. 401,194; Apr. 27; Serial No. 457,376; published Feb. 9, 1943.

CLASS 16

Cleaning and polishing preparation for furniture, radios, automobiles, etc. M. Bundzik. 401,143; Apr. 27; Serial No. 455,131; published Feb. 16, 1943.
Paint pigments. Interchemical Corporation. 401,168; Apr. 27; Serial No. 456,825; published Feb. 16, 1943.
Paints, paint coatings, paint enamels and varnishes. Hill-Hubbell and Company. 170,881; renewed July 24, 1943.
Varnish. Paraffine Companies. 166,382; renewed Apr. 3, 1943.

CLASS 17

Tobacco, cigarettes, cigars, etc. American Tobacco Company. 401,180; Apr. 27; Serial No. 457,025; published Feb. 16, 1943.

CLASS 19

Airplanes and structural parts thereof. Curtiss-Wright Corporation. 401,159; Apr. 27; Serial No. 456,460; published Feb. 16, 1943.

CLASS 21

Automobile lamps, Electric. American Auto Lamp Co. Inc. 172,399; renewed Aug. 28, 1943.
Electric cables, Insulated. Telegraph Construction & Maintenance Company. 401,173; Apr. 27; Serial No. 456,910; published Feb. 16, 1943.
Electric welding apparatus and direct current welding apparatus, Alternating current. National Cylinder Gas Company. 401,176; Apr. 27; Serial No. 456,957; published Feb. 16, 1943.
Electrical lighting fixtures. St. Louis Brass Mfg. Co. 172,317; renewed Aug. 28, 1943.
Insulators, split insulators, assembled split insulators, and knobs. Illinois Electric Porcelain Company. 172,397; renewed Aug. 28, 1943.
Radio apparatus. D. A. Marcus. 401,122; Apr. 27; Serial No. 449,997; published Feb. 16, 1943.
Wire and cables, Insulated. Kerite Insulated Wire & Cable Company. 172,336; renewed Aug. 28, 1943.
Wire, cable and cordage, Bare and insulated. American Copper Products Corporation. 171,030; renewed July 31, 1943.
Wireless apparatus. Wm. J. Murdock Co. 172,825; renewed Sept. 11, 1943.

CLASS 22

Game played with movable pieces, Board. Milton Bradley Company. 401,213; Apr. 27; Serial No. 457,672; published Feb. 16, 1943.
Playing cards. United States Playing Card Company. 401,200; Apr. 27; Serial No. 457,426; published Feb. 16, 1943.

CLASS 23

Brake for use as an attachment to the accelerator pedal of automotive vehicles to serve as a warning against excessive speed, Spring. B. F. Goodrich Company. 401,158; Apr. 27; Serial No. 456,387; published Feb. 16, 1943.
Cargo winches. Lake Shore Engineering Company. 401,166; Apr. 27; Serial No. 456,776; published Feb. 9, 1943.
Cutters for machine tools. Kearney & Trecker Corporation. 401,119; Apr. 27; Serial No. 449,421; published Feb. 9, 1943.
Engines and machines, Stationary. Cherry-Bassett-Winner Company. 166,859; renewed Apr. 17, 1943.
Fluid pressure control selector valves for marine control equipments. Westinghouse Air Brake Company. 401,193; Apr. 27; Serial No. 457,323; published Feb. 2, 1943.
Homogenizer. Manton-Gaulin Manufacturing Company. 172,517; renewed Sept. 4, 1943.
Knives for hobby, arts, and crafts. X-Acto Crescent Products, Inc. 401,167; Apr. 27; Serial No. 456,784; published Feb. 16, 1943.
Mechanical feed mixers for mixing feeds for farm animals. Moorman Manufacturing Company. 401,116; Apr. 27; Serial No. 447,818; published Feb. 2, 1943.
Oil filters and parts thereof. Hutchens Industries. 401,197; Apr. 27; Serial No. 457,392; published Feb. 9, 1943.
Remington Rand Inc., Buffalo, N. Y. Dry shavers and parts thereof. 401,190–1; Apr. 27; Serial Nos. 457,281–2; published Feb. 2, 1943.
Screened plates for letter press printing, rotary press printing, newspaper printing, etc., Three-color. Spectratone, Inc. 401,183; Apr. 27; Serial No. 457,176; published Feb. 2, 1943.
Shearing machines, etc.; clippers for human hair, etc.; double end grinders, etc.; belt driven gears; positive drive gears for shearing machines, etc. Chicago Flexible Shaft Company. 401,162; Apr. 27; Serial No. 456,584; published Feb. 9, 1943.
Shovels, Power. Universal Unit Power Shovel Corp. 401,112; Apr. 27; Serial No. 444,842; published Feb. 9, 1943.
Tools, Diamond-pointed. Maurice S. Dessau. 401,227; Apr. 27.
Wheels, Traction. Buckeye Traction Ditcher Company. 171,590; renewed Aug. 7, 1943.
Windmills, engines, pumps, etc. Challenge Company. 172,799; renewed Sept. 11, 1943.
Wrenches, wrench sockets, screw drivers, etc., Fibre. Philco Corporation. 401,139; Apr. 27; Serial No. 454,609; published Feb. 9, 1943.

CLASS 26

Spectacles and sunglasses. Lapin Products, Inc. 401,219; Apr. 27.

CLASS 27

Watches. J. Stern. 401,179; Apr. 27; Serial No. 457,017; published Feb. 16, 1943.

CLASS 28

Ash-trays, asparagus-dishes, asparagus-eaters, etc. Suckling Limited. 401,172; Apr. 27; Serial No. 456,909; published Feb. 16, 1943.

CLASS 29

Brushes, Hair and tooth. Stanley Home Products, Inc. 401,157; Apr. 27; Serial No. 456,133; published Feb. 9, 1943.

Powder puffs and certain named brushes. Western Bottle Manufacturing Company. 171,057; renewed July 31, 1943.

CLASS 31

Refrigerating apparatus. Yates-American Machine Company. 401,140; Apr. 27; Serial No. 454,708; published Feb. 16, 1943.

CLASS 32

Cabinets. E. Ingraham Company. 401,228; Apr. 27.

CLASS 35

Belting, Leather. Chicago Belting Company. 171,537; renewed Aug. 7, 1943.

CLASS 36

Phonograph records. Continental Record Company. 401,203; Apr. 27; Serial No. 457,463; published Feb. 16, 1943.
Phonograph records. J. M. Davis. 401,214; Apr. 27; Serial No. 457,703; published Feb. 16, 1943.

CLASS 37

Crayons. Milton Bradley Company. 401,182; Apr. 27; Serial No. 457,111; published Feb. 16, 1943.
Envelopes. Field-Ernst Envelope Co. 401,177; Apr. 27; Serial No. 457,005; published Feb. 16, 1943.
Paper, Wrapping. Huff, Barnes & Opie, Inc. 172,661; renewed Sept. 11, 1943.
Pencils and pocket lighters, Combination pocket. Art Metal Works, Inc. 166,124; renewed Mar. 27, 1943.
Pens, mechanical pencils, combination fountain pens and mechanical pencils, etc., Fountain. David Kahn, Inc. 401,170; Apr. 27; Serial No. 456,874; published Feb. 16, 1943.

CLASS 38

Newspaper. Oklahoma Publishing Company. 170,041; renewed July 10, 1943.
Newspaper. Oklahoma Publishing Company. 170,045; renewed July 10, 1943.

CLASS 39

Apparel, Ladies'. Queen Anne Undies, Inc. 401,186; Apr. 27; Serial No. 457,229; published Feb. 9, 1943.
Boots and shoes, Leather. Dugan & Hudson Co. 172,030; renewed Aug. 21, 1943.
Brassières. Carmen Manufacturing Company. 166,207; renewed Mar. 27, 1943.
Coats, Ladies' and misses'. Hammer-Sices, Inc. 401,146; Apr. 27; Serial No. 455,655; published Feb. 9, 1943.
Corsets, brassières, and underwear, etc. Kops Bros. 166,215; renewed Mar. 27, 1943.
Corsets, brassières, corset covers, etc. Kops Bros. 166,045–6; renewed Mar. 27, 1943.
Dresses, and men's, ladies' and children's bath robes, Ladies' house and street. S. L. Hoffman. 164,226; renewed Feb. 13, 1943.
Handkerchiefs and hair nets. Western Bottle Manufacturing Company. 171,522; renewed Aug. 7, 1943.
Hats, Men's and boys'. Greater N. Y. Hat & Cap Works. 166,846; renewed Apr. 17, 1943.
Hosiery. Burson Knitting Company. 171,297; renewed Aug. 7, 1943.
Hosiery. Reingold Hosiery Co. 164,753; renewed Feb. 27, 1943.
Pajamas, nightgowns, slips, etc. Collegiate Manufacturing Company. 401,110; Apr. 27; Serial No. 443,653; published Feb. 9, 1943.
Robes, Baby bath. Jacob Kaplan. 166,632; renewed Apr. 10, 1943.
Shirts, night shirts, pyjamas, etc. Phillips-Jones Corporation. 171,776; renewed Aug. 14, 1943.
Shoes. W. E. Lewis, R. G. Ardrey, C. O. Hall, and R. L. Daugherty. 401,220; Apr. 27.
Shoes, Leather. Endicott Johnson Corporation. 172,948; renewed Sept. 11, 1943.
Shoes made of leather. E. P. Reed & Co. 172,122; renewed Aug. 21, 1943.
Shoes made of leather. E. P. Reed & Co. 172,133; renewed Aug. 21, 1943.

CLASS 40

Fasteners of the button and button hole tape type, Separable. Plak-Kloz Company. 401,169; Apr. 27; Serial No. 456,831; published Feb. 16, 1943.
Tape, and button and buttonhole tape, Snap fastener. C. B. Shane Corporation. 401,223; Apr. 27.

CLASS 42

Blankets. Nashua Manufacturing Company. 401,137; Apr. 27; Serial No. 454,457; published Feb. 16, 1943.
Cloth in the piece, Spun rayon. Fashion Silks Corp. 401,188; Apr. 27; Serial No. 457,242; published Feb. 16, 1943.
Cotton flannel, knitted cotton padding, cotton cover cloth, etc. Southern Mills, Incorporated. 401,133; Apr. 27; Serial No. 454,124; published Feb. 9, 1943.
Cotton piece goods. Exeter Manufacturing Company. 401,154; Apr. 27; Serial No. 455,912; published Feb. 16, 1943.
Cotton sheeting. Tingue, Brown & Co. 166,909; renewed Apr. 17, 1943.
Curtains, Columbia Mills, Inc. 401,224; Apr. 27.
Curtains, draperies, and bedspreads, Window. S. Perlmutter. 401,148; Apr. 27; Serial No. 455,733; published Feb. 9, 1943.
Curtains, draperies, bedspreads, etc. House Beautiful Curtains, Inc. 401,163; Apr. 27; Serial No. 456,672; published Feb. 2, 1943.
Curtains, Window. Shapiro & Son Curtain Corporation. 401,222; Apr. 27.
Fabrics, primarily for women's outer wear, Worsted. Collins & Aikman Corporation. 401,149; Apr. 27; Serial No. 455,791; published Feb. 16, 1943.
Fabrics which are primarily for women's outer wear, Blended. Collins & Aikman Corporation. 401,150; Apr. 27; Serial No. 455,792; published Feb. 16, 1943.
Fabrics for women's and men's suitings, Worsted. Collins & Aikman Corporation. 401,151; Apr. 27; Serial No. 455,793; published Feb. 16, 1943.
Fabrics in the piece, Textile. Chas. Bernstein & Son, Inc. 401,221; Apr. 27.
Piece goods. Schwarzenbach Huber Co. 401,136; Apr. 27; Serial No. 454,379; published Feb. 16, 1943.
Piece goods. Amoskeag-Lawrence Mills, Inc. 401,152; Apr. 27; Serial No. 455,881; published Feb. 16, 1943.
Piece goods. Celanese Corporation of America. 401,171; Apr. 27; Serial No. 456,883; published Jan. 19, 1943.
Piece goods. Continental Woolen Company. 401,225; Apr. 27.
Piece goods and bedsheets and pillow cases. Haslams Limited. 401,226; Apr. 27.
Piece goods, Silk. H. R. Mallison & Co. 171,392; renewed Aug. 7, 1943.
Rugs, floor mats, and floor coverings. Deltox Rug Company. 401,164; Apr. 27; Serial No. 456,681; published Feb. 2, 1943.
Towel sets, sheets and pillow cases, wash cloths, etc. A. S. Lazarus & Co. 401,129; Apr. 27; Serial No. 451,629; published Feb. 16, 1943.
Water repellent piece goods. Kanmak Textiles, Inc. 401,178; Apr. 27; Serial No. 457,008; published Feb. 2, 1943.
Woolen piece goods. R. H. Linton. 172,836; renewed Sept. 11, 1943.

CLASS 43

Threads. Manufacturers Supplies Company. 172,834; renewed Sept. 11, 1943.
Yarns. Amoskeag-Lawrence Mills, Inc. 401,153; Apr. 27; Serial No. 455,882; published Feb. 16, 1943.
Yarns, Art needle work. Bernhard Ulmann Co. Inc. 401,201; Apr. 27; Serial No. 457,454; published Feb. 16, 1943.

CLASS 44

Apparatus for generating and diffusing vaporized germicides or disinfectants. Newton, Chambers & Co. Limited. 172,296; renewed Aug. 28, 1943.

CLASS 45

Beverages and the bases, syrups, concentrates, and extracts for making same, Nonalcoholic. Squirt Company. 401,117; Apr. 27; Serial No. 448,308; published Dec. 23, 1941.
Beverages, Carbonated. E. E. Zeller. 401,147; Apr. 27; Serial No. 455,687; published Feb. 16, 1943.
Prune juice. Max Ams, Inc. 401,187; Apr. 27; Serial No. 457,233; published Feb. 9, 1943.
Soft drinks. Grand Forks Bottling Works. 171,599; renewed Aug. 7, 1943.

CLASS 46

Apples, Fresh. W. A. Bolinger. 171,071; renewed July 31, 1943.
Bakery products. Spaulding Bakeries, Inc. 401,216; Apr. 27.
Bread. Quality Bakers of America Co-Op., Inc., 401,161; Apr. 27; Serial No. 456,566; published Feb. 16, 1943.
Candies. Mason, Au & Magenheimer Confectionery Manufacturing Company. 165,797; renewed Mar. 20, 1943.
Candies. Metro Chocolate Co. Inc. 401,114; Apr. 27; Serial No. 445,999; published Feb. 16, 1943.
Candies, Chocolate. E. Greenfield's Sons. 168,871; renewed May 29, 1943.
Canned peeled tomatoes with tomato paste. V. Sabella & Co. 401,206; Apr. 27; Serial No. 457,512; published Feb. 16, 1943.
Cereal food, Precooked. Nestle's Milk Products, Inc. 401,208; Apr. 27; Serial No. 457,563; published Feb. 16, 1943.
Cheese. Holland Food Corporation. 170,862; renewed July 24, 1943.
Chocolate and candies. E. Greenfield's Sons. 168,872; renewed May 29, 1943.
Chocolate, Sweet vanilla. Runkel Brothers, Inc. 165,801; renewed Mar. 20, 1943.
Eggs. Northern Cold Storage and Warehouse Co. 401,127–8; Apr. 27; Serial Nos. 451,605–6; published Feb. 16, 1943.
Feed, Horse and mule. Sturges Company. 172,743; renewed Sept. 11, 1943.
Flavoring compound. B. Heller & Company. 171,578; renewed Aug. 7, 1943.

Flavoring compound for use in cakes, pastry, and other bakery goods. B. Heller & Company. 171,580; renewed Aug. 7, 1943.
Flavoring compound for use in confectionery. B. Heller & Company. 171,579; renewed Aug. 7, 1943.
Flavoring preparation for food products. Francis H. Leggett & Company. 170,164; renewed July 10, 1943.
Food flavorings and spices. B. Heller & Company. 171,334; renewed Aug. 7, 1943.
Food product for addition to chopped meat, fowl, fish, etc. Planned Foods, Inc. 401,165; Apr. 27; Serial No. 456,750; published Feb. 16, 1943.
Fruit and fresh vegetables, Fresh citrus. J. W. Wallace. 401,199; Apr. 27; Serial No. 457,406; published Feb. 16, 1943.
Fruit and vegetable extracts and juices in solidified form. Prime Products, Inc. 401,174; Apr. 27; Serial No. 456,928; published Feb. 16, 1943.
Ice cream. P. Smolinsky. 169,812; renewed July 3, 1943.
Milk, Fresh. Borden Company. 401,185; Apr. 27; Serial No. 457,216; published Feb. 16, 1943.
Nuts. E. F. Kemp, Inc. 401,184; Apr. 27; Serial No. 457,202; published Feb. 16, 1943.
Pears, Fresh avocado. Cal-Royal Co., Inc. 401,204; Apr. 27; Serial No. 457,491; published Feb. 16, 1943.
Pop corn, Shelled. Albert Dickinson Company. 23,250; re-renewed June 27, 1943.
Shortening compound, Vegetable. N. K. Fairbank Company. 172,051; renewed Aug. 21, 1943.
Taffy, Salt-water. Theo. J. Lapres, Inc. 172,286; renewed Aug. 28, 1943.
Vegetables and fresh fruits, Fresh. Withers Brothers. 168,648; renewed May 29, 1943.
Wafers, fig bars, graham toffees, etc., Sugar. Bardin & Jensen. 401,144; Apr. 27; Serial No. 455,410; published Feb. 16, 1943.

CLASS 48

Extract, Barley-malt. J. Ruppert. 171,346; renewed Aug. 7, 1943.

CLASS 50

Beehives and comb foundations. A. I. Root Company. 172,654; renewed Sept. 11, 1943.
Novelties and curios. E. Bergeron. 401,121; Apr. 27; Serial No. 449,986; published Feb. 16, 1943.
Synthetic rubber-like compositions. Dayton Rubber Manufacturing Company. 401,134; Apr. 27; Serial No. 456,237; published Feb. 16, 1943.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 27TH DAY OF APRIL, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

General Electric Company. (See Norgaard, Donald E., assignor.)
Norgaard, Donald E., Schenectady, N. Y., assignor to General Electric Company. Wide band amplifier. Re. 22,306; Apr. 27.

LIST OF PLANT PATENTEES

Elliott, John S., Madbury, N. H. Rose plant. 579; Apr. 27.
Krebs, Alfred, Montebello, assignor to E. E. Marsh, Pasadena, Calif. Rose. 577; Apr. 27.
Krebs, Alfred, Montebello, assignor to E. E. Marsh, Pasadena, Calif. Rose. 578; Apr. 27.
Marsh, Edward E. (See Krebs, Alfred, assignor.)

LIST OF DESIGN PATENTEES

Alexander, Gladys E. J., Scarsdale, N. Y. Ash receptacle. 135,567; Apr. 27.
Botham, Arthur R., New York, N. Y., assignor to Coty, Inc., Wilmington, Del. Combined handbag and cosmetic holder. 135,568; Apr. 27.
Brown, H. Brainard, assignor to Taylor Instrument Companies, Rochester, N. Y. Thermometer. 135,590; Apr. 27.
Buckingham, John D., assignor to Lucien Lelong Inc., Chicago, Ill. Combined bottle and stopper. 135,569; Apr. 27.
Burke, Edward J., assignor to Southern Stove Works, Inc., Richmond, Va. Circulating heater. 135,554; Apr. 27.
Button Rim Corporation. (See Frank, Charles H., assignor.)
Buzzard, Arthur R., et al. (See Dill, Charles C., assignor.)
Buzzard, Martelle, et al. (See Dill, Charles C., assignor.)
Cadwallader, Robert, Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Lamp lens. 135,570; Apr. 27.
Cadwallader, Robert, Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Lamp lens. 135,571; Apr. 27.
Cadwallader, Robert, Detroit, assignor to Crysler Corporation, Highland Park, Mich. Lamp lens. 135,572; Apr. 27.
Cashin, Bonnie, New York, N. Y. Dress. 135,591; Apr. 27.
Chrysler Corporation. (See Cadwallader, Robert, assignor.)
Cohen, Bernard, New York, N. Y. Jodhpurs. 135,592; Apr. 27.
Comptois, Gedeon R., New York, N. Y. Tobacco pipe. 135,573; Apr. 27.
Coty, Inc. (See Batham, Arthur R., assignor.)
Dill, Charles C., Sundown, assignor of one-fourth to A. R. Buzzard and one-fourth to M. Buzzard, Levelland, Tex. Combination envelope and writing paper or similar article. 135,593; Apr. 27.
Edward Katzinger Company, The. (See Zimmer, Myron J., assignor.)
Ellinger, Flora H., Chicago, Ill. Shampoo chair. 135,585; Apr. 27.
Erteszek, Olga, Los Angeles, Calif. Maternity and abdominal supporting garter belt. 135,601; Apr. 27.
Feldbin, Jacob, Coxsackie, N. Y. Combination tool. 135,574; Apr. 27.
Florman, Irving, New York, N. Y. Table lighter for cigarettes or the like. 135,594; Apr. 27.
Frank, Charles H., New Rochelle, assignor to Button Rim Corporation, New York, N. Y. Button. 135,555; Apr. 27.
Gavin Manufacturing Corporation. (Se Holthouse, Harry B., assignor.)
Gindhart, Isaac D., Jr., assignor to M. W. Gindhart, Hartford, N. J. Toy figure. 135,575; Apr. 27.
Gindhart, Mary W. (See Gindhart, Isaac D., Jr., assignor.)
Gosling, James, Jr., assignor to Frankling Simon & Co., Inc., New York, N. Y. Building facade or similar article. 135,576; Apr. 27.
Gray, William G., Harrisonville, Mo. Magazine rack. 135,556; Apr. 27.
Handler, Elliot, Los Angeles, Calif. Ceramic brooch pin. 135,595-6; Apr. 27.
Holthouse, Harry B., assignor to Galvin Manufacturing Corporation, Chicago, Ill. Portable heating unit. 135,577; Apr. 27.
Lelong, Lucien, Inc. (See Buckingham, John D., assignor.)
Levenson, Ben D., Pittsburgh, Pa. Glass jelly mold. 135,557; Apr. 27.
Marovich, Daniel, Oakland, Calif., assignor to National Foundation for Infantile Paralysis, New York, N. Y. Display stand. 135,558; Apr. 27.
Marschner, Charles F., assignor to McDonnell Aircraft Corporation, St. Louis, Mo. Plastic bonding strip for fabric covered structures. 135,578; Apr. 27.
McDonnell Aircraft Corporation. (See Marschner, Charles F., assignor.)
Merkent, Meta, New York, N. Y. Hat or similar article. 135,586; Apr. 27.
Mizelle, Sylvester T., Jr., Oakland, Maine. Corn scraper or similar article. 135,587; Apr. 27.
Naranick, Nicholas T., U. S. Army, Casper, Wyo. Ration container. 135,588; Apr. 27.
National Foundation for Infantile Paralysis. (See Marovich, Daniel, assignor.)
Novick, William, Brooklyn, N. Y. Cloth covered concave eyelet button. 135,559; Apr. 27.
Parker, Samuel E., Dunkirk, Ind. Combined picture frame and salad plate. 135,560; Apr. 27.
Parva Products Company. (See Ryan, Lester R., assignor.)
Penn, George R., Danville, Va. Ash tray. 135,597; Apr. 27.
Penn, George R., Danville, Va. Ash tray. 135,598; Apr. 27.
Pientkewic, Martin, Vulcan, Mich. Head washing basin or similar article. 135,579; Apr. 27.
Querness, Oscar T., Los Angeles, Calif. Game board. 135,580; Apr. 27.
Rapaport, Meyer, Chicago, Ill. Telescope or the like. 135,561; Apr. 27.
Ross, Howard L., New York, N. Y. Lipstick container. 135,562; Apr. 27.
Ryan, Lester R., Plymouth, Conn., assignor to Parva Products Company, Chicago, Ill. Suspenders. 135,563; Apr. 27.
Sauer, Albert H., Jr., Cincinnati, Ohio. Ring. 135,581; Apr. 27.
Schechter, Meyer, Chicago, Ill. Home shrine or the like. 135,582; Apr. 27.
Simon, Franklin, & Co. (See Gosling, James, Jr., assignor.)
Southern Stove Works, Inc. (See Burke, Edward J., assignor.)
Spear, Walter A., assignor to Victor Electric Products, Inc., Cincinnati, Ohio. Electric fan. 135,599; Apr. 27.
Stolper, Harry, New York, N. Y. Pair of ophthalmic spectacles. 135,600; Apr. 27.
Tabor, Vernon H., Cincinnati, Ohio. Statuette or similar article. 135,583; Apr. 27.
Taylor Instrument Companies. (See Brown, H. Brainard, assignor.)
Townsley, Sam F., Memphis, Tenn. Bread slicing board. 135,564; Apr. 27.
Victor Electric Products, Inc. (See Spear, Walter A., assignor.)
Wallance, Donald A., Washington, D. C. Tent stake. 135,584; Apr. 27.
Williams, William G., Anaheim, Calif. Tie rack. 135,589; Apr. 27.
Zimmer, Myron J., Wood Dale, assignor to The Edward Katzinger Company, Chicago, Ill. Handle for kitchen utensils or similar articles. 135,565; Apr. 27.
Zimmer, Myron J., Wood Dale, assignor to The Edward Katzinger Company, Chicago, Ill. Handle for kitchen utensils or similar articles. 135,566; Apr. 27.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 27TH DAY OF APRIL, 1943

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Abax Corporation. (See Svoboda, Antonin, assignor.)
Ackerman, Virgil D., assignor to Hastings Manufacturing Company, Hastings, Mich. Piston expander. 2,317,577; Apr. 27.
Acrotorque Company, The. (See Fuller, Ernest W., assignor.)
Adler, Orville E., and M. J. Krinowitz, Niles, Mich., assignors to National Standard Company. Copper clad wire and preparing the same. 2,317,350; Apr. 27.
Aero Research Limited. (See de Bruyne, N. A., and Rayner, assignors.)
Air Reduction Company. (See Heidbrink, Jay A., assignor.)
Alexander, George H., Machinery Limited. (See Ball, Edgar D., assignor.)
Alger, Leon J., Grand Forks, N. Dak. Trial frame. 2,317,873; Apr. 27.
Alien Property Custodian. (See André, Henri G.)
Alien Property Custodian. (See Becht, Walter.)
Alien Property Custodian. (See Bergtold, Fritz.)
Alien Property Custodian. (See Billig, Kurt.)
Alien Property Custodian. (See Boedeker, K., and Winnacker.)
Alien Property Custodian. (See Duckstein, Martin.)
Alien Property Custodian. (See Fermazin, Walter.)
Alien Property Custodian. (See Fischlmayr, Hans.)
Alien Property Custodian. (See Garelli, Adalberto.)
Alien Property Custodian. (See Görlich, Paul.)
Alien Property Custodian. (See Graf, Roderich.)
Alien Property Custodian. (See Guinot, Henri M.)
Alien Property Custodian. (See Haebler, Herbert.)
Alien Property Custodian. (See Hahn, Arthur.)
Alien Property Custodian. (See Hannemann, H., and Oberländer.)
Alien Property Custodian. (See Hocke, Enrico.)
Alien Property Custodian. (See Hofmann, R., and Röhm.)
Alien Property Custodian. (See Huber, F., and Lentz.)
Alien Property Custodian. (See Körber, Emil.)
Alien Property Custodian. (See Krause, Georg A.)
Alien Property Custodian. (See Loftheim, Tor B.)
Alien Property Custodian. (See Lübbe, H. F. A., and Kruppa.)
Alien Property Custodian. (See Mercier, Jean.)
Alien Property Custodian. (See Moser, Johannes.)
Alien Property Custodian. (See Neubert, Martin.)
Alien Property Custodian. (See Neugebauer, F., Franz, Decher, and Meisener.)
Alien Property Custodian. (See Nielebock, Walter.)
Alien Property Custodian. (See Punga, Franklin.)
Alien Property Custodian. (See Reppe, W., Krzikalla, Dornheim, and Sauerbier.)
Alien Property Custodian. (See Richter, Kurt.)
Alien Property Custodian. (See Sandhaas, Wilhelm.)
Alien Property Custodian. (See Sauer, Hans.)
Alien Property Custodian. (See Schuchmann, H., and Steinmetz.)
Alien Property Custodian. (See Stein, Hermann.)
Alien Property Custodian. (See Strutt, M. J. O., and van der Ziel.)
Alien Property Custodian. (See van den Broek, Gerhard J.)
Alien Property Custodian. (See Versatz, Fritz.)
Alien Property Custodian. (See Wolfram, A., and Jahn.)
Allen, Clyve C., San Francisco, and V. E. Haury, El Cerrito, Calif. Synthetic drying oil composition and producing the same. 2,317,663; Apr. 27.
Allis-Chalmers Manufacturing Company. (See Frudden, Conrad E., assignor.)
Almy, Richard R., Warwick, R. I., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Yarn winding device. 2,317,874; Apr. 27.
Alox Corporation. (See Burwell, A. W., and Camelford, assignors.)
Alsing, Carl F., Wilbraham, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Refrigeration apparatus. 2,317,709; Apr. 27.
Alteneder & Sons, Theo. (See Mock, Oliver J., assignor.)
Altorfer, Henry W., Peoria, Ill. Adjustable pressure wringer. 2,317,575; Apr. 27.
American Abrasive Metals Company. (See Bashore, Homer H., assignor.)
American Abrasive Metals Company. (See Sayre, William H., assignor.)
American Can Company. (See Bensel, Duryea, assignor.)
American Can Company. (See Hothersall, John M., assignor.)
American Can Company. (See Preis, Carl G., assignor.)
American Can Company. (See Taylor, William E., assignor.)
American Houses, Inc. (See McLaughlin, Robert W., Jr., assignor.)
American Optical Company. (See Lewis, Lawrence L., assignor.)
American Rock Wool Corp. (See Drill, Daniel C., assignor.)
American Steel and Wire Company of New Jersey, The. (See Ayers, A. L., and Pheneger, assignors.)
American Steel Foundries. (See Bachman, Fred E., assignor.)
Ames, Arthur D. (See Richmond, W. E., and Ames.)
Andaliklewicz, Boley A., and D. T. Carlson, assignors to C. Earl Hovey, trustee, Kansas City, Mo. Electrical selector for coin chutes. 2,317,351; Apr. 27.
Anderson, Anders G., Los Angeles, Calif. Underinflated tire signaling device. 2,317,509; Apr. 27.
Anderson, David B., St. Paul, assignor to Wood Conversion Company, Cloquet, Minn. Wall tile clip. 2,317,428; Apr. 27.
Anderson, William C., Bromley, Ky., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Branch box connector. 2,317,710; Apr. 27.
André, Henri G., Colombes, France; vested in the Alien Property Custodian. Accumulator. 2,317,711; Apr. 27.
Angelant, Marcel N., Melbourne, Victoria, Australia. Blacking out ships while still providing for the ventilation thereof. 2,317,712; Apr. 27.
Aninga, Johan. (See Klek, Maurits, and Aninga.)
Aqua Systems Incorporated. (See Peter, W. J., and Kaestner, assignors.)
Arch-O-Graph Company. (See Hyland, D. F., Stiles, and Brenner, Hugo L. and J., assignors.)
Armstrong, James, St. Louis, Mo. Connecting rod connection with piston and crank-shaft. 2,317,429; Apr. 27.
Arnold, Arthur A. (See Madsen, P. S., and Arnold.)
Arps, Bruno F., assignor to Arps Corporation, New Holstein, Wis. Power pickup and dumping attachment for tractors. 2,317,578; Apr. 27.
Arps Corporation. (See Arps, Bruno F., assignor.)
Associated Electric Laboratories, Inc. (See Voss, John H., assignor.)
Asten-Hill Mfg. Co. (See Hill, Harold N., assignor.)
Athey, Skipwith W., and L. R. Stieff, Baltimore, Md. Stereoscopic photography. 2,317,875; Apr. 27.
Atwood Vacuum Machine Company, The. (See Miller, Kay, assignor.)
Auñero, John R., Brooklyn, N. Y. Signal mechanism. 2,317,713; Apr. 27.
Autogiro Company of America. (See Bennett, James A. J., assignor.)
Autogiro Company of America. (See Pullin, Cyril G., assignor.)
Autographic Register Company. (See Johnson, Arthur A., assignor.)
Automatic Canteen Company. (See Richmond, W. E., and Ames, assignors.)
Avery, Ray S., Los Angeles, Calif. Label dispenser. 2,317,576; Apr. 27.
Ayers, Austin L., Cleveland, and B. E. Pheneger, Lakewood, Ohio, assignors to The American Steel and Wire Company of New Jersey. Apparatus for sizing and classifying crushed slag material and the like. 2,317,430; Apr. 27.
Baal, Melvin H., Ellsworth, Minn. Reel. 2,317,431; Apr. 27.
Bachman, Fred E., assignor to American Steel Foundries, Chicago, Ill. Truck. 2,317,352; Apr. 27.
Backlund, John A., assignor to Lincoln-Schlueter Floor Machinery Company, Inc., Chicago, Ill. Floor-treating machine. 2,317,843; Apr. 27.
Bacon, Henry S., West Roxbury, Mass. Gun. 2,317,579; Apr. 27.
Bailey Meter Company. (See Ryder, John D., assignor.)
Baker Castor Oil Company, The. (See Colbeth, Ivor M., assignor.)
Baker Perkins Inc. (See Devlin, Henry, assignor.)
Baldwin Locomotive Works, The. (See Essl, Max, assignor.)
Baldwin Locomotive Works, The. (See Fullerton, Herbert S., assignor.)
Ball, Edgar D., Derby, assignor of one-half to George H. Alexander Machinery Limited, Birmingham, England. Automatically adjusting adjustable abrasive or cutting tools. 2,317,714; Apr. 27.

Ball, Edgar D., Derby, assignor of one-half to George H. Alexander Machinery Limited, Birmingham, England. Spirit level. 2,317,715; Apr. 27.
Ballard, Milton H., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Press. 2,317,432; Apr. 27.
Ballintine, Elmer J., Tarentum, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Manufacture of mirrors. 2,317,876; Apr. 27.
Ballintine, Elmer J., Tarentum, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Manufacture of mirrors. 2,317,877; Apr. 27.
Bancroft, Joseph, & Sons. (See Craig, John G., assignor.)
Bannon, Lewis A., Roselle, N. J., assignor, by mesne assignments, to Jasco, Incorporated. Producing polymers of high molecular weight. 2,317,878; Apr. 27.
Barklie, Robert H. D., Purley, and A. Lewis, London, England. Joining of metals. 2,317,510; Apr. 27.
Barnes, Walter C., Lake Bluff, Ill. Method and apparatus for detecting flaws. 2,317,721; Apr. 27.
Barnes, Walter C., Lake Bluff, and H. W. Keevil, Highland Park, Ill. Method and apparatus for detecting flaws in magnetizable bodies. 2,317,718; Apr. 27.
Barnes, Walter C., Lake Bluff, and H. W. Keevil, Highland Park, Ill. Method and apparatus for detecting flaws in magnetizable bodies. 2,317,719; Apr. 27.
Barnes, Walter C., Lake Bluff, and H. W. Keevil, Highland Park, Ill. Method and apparatus for detecting flaws in magnetizable bodies. 2,317,720; Apr. 27.
Barrett, Edward R., assignor to Gar Wood Industries, Inc., Detroit, Mich. Scraper. 2,317,511; Apr. 27.
Bashore, Homer H., Morrisville, Pa., assignor to American Abrasive Metals Company, Irvington, N. J. Reinforced tread. 2,317,963; Apr. 27.
Bassett, Edward H., West Hartford, assignor to The Silex Company, Hartford, Conn. Combination pressing and steaming iron. 2,317,716; Apr. 27.
Bauer, Edward L., assignor to Hastings Manufacturing Company, Hastings, Mich. Composite piston ring. 2,317,580; Apr. 27.
Bauman, Carl V., Three Rivers, Calif. Automatic fluid temperature regulator. 2,317,717; Apr. 27.
Baxter, James G., assignor to Distillation Products, Inc., Rochester, N. Y. Purification or concentration of tocopherol. 2,317,353; Apr. 27.
Bays, George S., Jr., Baytown, Tex., assignor to Standard Oil Development Company. Refining mineral oils. 2,317,722; Apr. 27.
Becht, Walter, Stuttgart-Bad Caanstatt, Germany; vested in the Alien Property Custodian. Air blower. 2,317,723; Apr. 27.
Becker, Abraham S., and V. I. Becker, Los Angeles, Calif. Brassière. 2,317,664; Apr. 27.
Becker, Victor I. (See Becker, Abraham S., and Victor I.)
Beckette, Edmund S. (See Nystrom, K. F., Beckette and Green.)
Bel Geddes, Norman, New York, N. Y. Tent. 2,317,682; Apr. 27.
Bell, Albert O. (See Hall, W. P-G., and Bell.)
Bell & Howell Company, The. (See Mellor, Lewis L., assignor.)
Bell, Ivan C., Dallas, Tex. Piston. 2,317,433; Apr. 27
Bell Telephone Laboratories, Incorporated (See Bredehoft, Harold A, assignor)
Bell Telephone Laboratories, Incorporated (See Drake, Percy B., assignor.)
Bell Telephone Laboratories, Incorporated. (See Lewis, Benjamin F., assignor.)
Bell Telephone Laboratories, Incorporated. (See Mallina, Rudolph F., assignor.)
Bell Telephone Laboratories, Incorporated. (See Meacham, Larned A., assignor.)
Bell Telephone Laboratories, Incorporated. (See Peterson, Eugene, assignor.)
Bell Telephone Laboratories, Incorporated. (See Pollard, Charles E., assignor.)
Bendix Aviation Corporation. (See Buxton, James E., assignor.)
Bendix Aviation Corporation. (See Hood, E. Elliott, assignor.)
Benedict, Wayne L., assignor to Universal Oil Products Company. Treating hydrocarbon distillate. 2,317,600; Apr. 27.
Benjamin, George W. (See Holmes, A. W., Benjamin and Young.)
Benner, Roland G. (See Gubelmann, I., and Benner.)
Bennett, James A. J., Esher, England, assignor to Autogiro Company of America. Helicopter. 2,317,340; Apr. 27.
Bennett, James A. J., Esher, England, assignor to Autogiro Company of America, Willow Grove, Pa. Helicopter and methods of operating same. 2,317,341; Apr. 27.
Bennett, Thomas F., Joplin, Mo., assignor to Hercules Powder Company, Wilmington, Del. Explosive cartridge assembly. 2,317,354; Apr. 27.
Bensel, Duryea, Los Angeles, Calif., assignor, by mesne assignments, to American Can Company, New York, N. Y. Paperboard container. 2,317,355; Apr. 27.
Berger, Adolph, New York, N. Y. Mutoscope. 2,317,881; Apr. 27.
Bergtold, Fritz, Munich, Germany; vested in the Alien Property Custodian. Shielded coil with temperature compensation. 2,317,724; Apr. 27.
Berkman, Herbert A., Chicago, Ill., assignor to Zim Manufacturing Company. Valve keeper inserter. 2,317,512; Apr. 27.
Bernardi, Dominic J. (See Gessler, A. E., and Bernardi.)
Bestian, Herbert, J. Nüsslein, and J. Monheim, Frankfort-on-the-Main, Germany, assignors to General Aniline & Film Corporation, New York, N. Y. Coloring fibrous materials and the materials obtained thereby. 2,317,965; Apr. 27.
Betts, Orville R., J. W. Nevius, and W. P. Hendrickson. Photographic exposing and developing machine and the like. 2,317,343; Apr. 27.
Blanco, Henry, Baltimore, Md., assignor to Truscon Steel Company, Youngstown, Ohio. Glazed metal sash construction. 2,317,581; Apr. 27.
Bicknell, George M., assignor to Carter Carburetor Corporation, St. Louis, Mo. Antidetonating device. 2,317,582; Apr. 27.
Biller, David J., assignor to Day-Brite Lighting, Inc., St. Louis, Mo. Electric lighting fixture. 2,317,434; Apr. 27.
Billig, Kurt. Frankfort-on-the-Main-Hochst, Germany; vested in the Alien Property Custodian. Coating agent. 2,317,725; Apr. 27.
Bingham, George H., Jr., Lincoln, Mass. Rubber footwear. 2,317,879; Apr. 27.
Bingham, George H., Jr., Lincoln, Mass. Rubber footwear. 2,317,880; Apr. 27.
Black, Paul T., Bellevue, Pa. Tie plate and spike assembly. 2,317,435; Apr. 27.
Bliss, E. W., Company. (See Cannon, Earl, assignor.)
Bliss, E. W., Company. (See Krueger, Frank, assignor.)
Boedeker, Karl, and K. Winnacker, Frankfort-on-the-Main-Hochst, Germany; vested in the Alien Property Custodian. Breaking agent for emulsions from crude petroleum and salt water and a breakage of said emulsions. 2,317,726; Apr. 27.
Boehm, Paul F. (See Wetzler, C. E., and Boehm.)
Boehm, Robert M. (See Mason, W. H., Boehm and Simpson.)
Boesel, Charles F., St. Louis, Mo. Absorbent closure cap for receptacles containing dry medicinal materials and the like. 2,317,882; Apr. 27.
Bolen, Edward P., and E. R. Detrick, assignors to National Automotive Fibres, Inc., Detroit, Mich. Trim panel. 2,317,583; Apr. 27.
Bolesky, John D. (See Vaughan, V. G., and Bolesky.)
Boller, Ernest R., Twinsburg Township, Summit County, H. E. Hanthorn, Cuyahoga Falls, and R. H. Treadway, Decatur, Ill., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Color coating cellulosic materials. 2,317,436; Apr. 27.
Bollinger, Frank F., Pittsburgh, and C. L. Kenney, Ben Avon, Pa. Pig casting apparatus. 2,317,584; Apr. 27.
Bonanno, Joseph L., Maplewood, N. J., assignor to The Lionel Corporation, New York, N. Y. Push button controller. 2,317,727; Apr. 27.
Bond, Chester C., et al. (See Bond, Robert M., assignor.)
Bond, Homer L., et al. (See Bond, Robert M., assignor.)
Bond, Robert M., assignor of thirty percent to Chester C. Bond and thirty percent to Homer L. Bond, Akron, Ohio. Cigarette rolling device. 2,317,513; Apr. 27.
Bond, William G. (See Stout, F. S., Bond, and Ladner.)
Bonnafe, Oliver W., assignor to The Lapointe Machine Tool Company, Hudson, Mass. Rifling gun barrels. 2,317,514; Apr. 27.
Booth, Earl C., assignor to Noblitt-Sparks Industries, Inc., Columbus, Ind. Chair. 2,317,515; Apr. 27.
Borg-Warner Corporation. (See Haigh, Vaughn, assignor.)
Botta, Fred, Astoria, N. Y. Clothes rack. 2,317,437; Apr. 27.
Boucher, Charles P., Paterson, N. J., assignor to Boucher Inventions, Ltd., Washington, D. C. Luminescent tube lighting apparatus. 2,317,845; Apr. 27.
Boucher, Charles P., Paterson, and F. Kuhl, Ridgewood, N. J., assignors to Boucher Inventions, Ltd., Washington, D. C. Luminescent tube system and apparatus. 2,317,844; Apr. 27.
Boucher Inventions, Ltd. (See Boucher, Charles P., assignor.)
Boucher Inventions, Ltd. (See Boucher, C. P., and Kuhl, assignors.)
Boyer, Robert A. (See Ford, H., and Boyer.)
Boynton, Alexander, San Antonio, Tex. Bellows type slugging foot valve for wells. 2,317,356; Apr. 27.
Brace, Edwin T., Warrenton, Mo. Shoe tree holder. 2,317,516; Apr. 27.
Brace, George A., Winnetka, Ill., assignor to The Hoover Company, North Canton, Ohio. Refrigeration. 2,317,517; Apr. 27.
Bradley, Herbert N., Detroit, Mich. Checking station for self-service stores. 2,317,438; Apr. 27.
Bradshaw, Lewis R. (See Taylor, G. M., Bradshaw and Green.)
Brady, John B. (See Paulus, C. L., and Stout, assignors.)
Brainos, Mark. (See Janser, Owschla L., assignor.)
Bredehoft, Harold A., Millington, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Mounting for electrical apparatus. 2,317,665; Apr. 27.
Callaway, Carl B., et al. (See Cook, O. O., and Watson, assignors.)

Calvert, William C., assignor to Marbon Corporation, Gary, Ind. Laminated sheet material. 2,317,730; Apr. 27.

Camelford, James A. (See Burwell, A. W., and Camelford.)

Campbell, Richard H., assignor to Webster Electric Company, Racine, Wis. Communication system. 2,317,358; Apr. 27.

Campbell, Rodney B., assignor to John Eley, Jr., Los Angeles, Calif. Brake valve. 2,317,846; Apr. 27.

Cannon, Earl, Rockville Centre, assignor to E. W. Bliss Company, Brooklyn, N. Y. Press. 2,317,440; Apr. 27.

Canewell Manufacturing Company, The. (See Morgan, Porter S., assignor.)

Caplan, Solomon, New York, N. Y., assignor to The Harvel Corporation. Polymerized cardanol. 2,317,585; Apr. 27.

Caplan, Solomon, New York, N. Y., assignor to The Harvel Corporation. Rubberlike products from derivatives of cashew nut shell liquid and producing the same. 2,317,586; Apr. 27.

Caplan, Solomon, New York, N. Y., assignor to The Harvel Corporation Polymerization-furfuraldehyde condensation product of cashew nut shell liquid distillation residue and method. 2,317,587; Apr. 27.

Brenner, Hugo L. (See Hyland, D. F., Stiles, and H. L. and J. Brenner.)

Brenner, John. (See Hyland, D. F., Stiles, and H. L. and J. Brenner.)

Brindle, Thomas, Pawtuxet, R. I. Ladder and like webbing and method and mechanism for producing the same. 2,317,518; Apr. 27.

Bristol, John E., Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Sizing synthetic linear polyamide textiles. 2,317,728; Apr. 27.

Brooker, Leslie G. S., and H. W. J. Cressman, assignors to Eastman Kodak Company, Rochester, N. Y. Dye intermediate. 2,317,357; Apr. 27.

Brown, Carl D., Hopedale, and R. E. Chard, Milford, assignors to Draper Corporation, Hopedale, Mass. Filling feeler mechanism. 2,317,948; Apr. 27.

Brown, Earl C. (See Johnson, J. M., and Brown.)

Brown Instrument Company, The. (See Ullman, Roy, assignor.)

Brozan, I. Newton, et al. (See Wolfers, Philip, assignor.)

Bruno Patents, Inc. (See Bruno, William A., assignor.)

Bruno, William A., Astoria, Long Island, assignor to the firm Bruno Patents, Inc., Long Island City, N. Y. Means for effecting detachable coupling of tubular elements. 2,317,729; Apr. 27.

Brunt, Bernard V. (See Lincoln, Wesley B., assignor.)

Bryant, Austin U. (See Grove, M. H., and Bryant.)

Buchholz, Herbert, Berlin, Germany, assignor to General Electric Company. Transmission system for ultra-short waves. 2,317,439; Apr. 27.

Burk, Robert E., Cleveland Heights, assignor to The Standard Oil Company, Cleveland, Ohio. Production of alcohols. 2,317,949; Apr. 27.

Burk, Robert E., and E. C. Hughes, Cleveland Heights, assignors to The Standard Oil Company, Cleveland, Ohio. Oil testing apparatus. 2,317,950; Apr. 27.

Burk, Robert E., Cleveland Heights, assignor to The Standard Oil Company, Cleveland, Ohio. Fractional distillation means. 2,317,951; Apr. 27.

Burk, Robert E., Cleveland Heights, and E. Kropp, assignors to The Standard Oil Company, Cleveland, Ohio. Fractional distillation. 2,317,952; Apr. 27.

Burke, Edward J. (See Finley, T. J., and Burke.)

Burrell, Philip L. H. and H. L. Larsen, Duluth, Minn. Portable hair treating device. 2,317,883; Apr. 27.

Burwell, Arthur W., and J. A. Camelford, Niagara Falls, assignors to Alox Corporation, New York, N. Y. Lubrication composition. 2,317,666; Apr. 27.

Buxton, James E., Elmira Heights, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Engine starter gearing. 2,317,953; Apr. 27.

Carbide and Carbon Chemicals Corporation. (See Domizi, Dario, assignor.)

Carbide and Carbon Chemicals Corporation. (See Wassell, Helen E., assignor.)

Carey, Philip, Manufacturing Company, The. (See Fischer, Albert C., assignor.)

Carlson, Drexel T. (See Andalikiewicz, B. A., and Carlson.)

Carter Carburetor Corporation. (See Bicknell, George M., assignor.)

Carter Carburetor Corporation. (See Ericson, George R., assignor.)

Carter, William S. (See Taylor, E. H., and Carter.)

Cassel, Norman S., Ridgewood, N. J., assignor to Interchemical Corporation, New York, N. Y. Coloring and decorating textiles. 2,317,359; Apr. 27.

Cazin, Otto K. (See Kende, G., and Cazin.)

Cefoil Limited. (See Speakman, John B., and Chamberlain, assignors.)

Celanese Corporation of America. (See Dreyfus, H., Moncrieff and Hill, assignors.)

Celanese Corporation of America. (See Schneider, George, assignor.)

Celotex Corporation, The. (See Lindahl, Robert L., assignor.)

Cha-Globe Company, The. (See Stotz, Charles K., assignor.)

Chamberlain, Norman H. (See Speakman, John B., and Chamberlain.)

Chandler, Homer P., deceased, late of Mansfield, Ohio, by Lillian C. Chandler, Mansfield, Ohio, administratrix, assignor to The Ohio Brass Company, Mansfield, Ohio. Junction box. 2,317,667; Apr. 27.

Chandler, Lillian C., administratrix. (See Chandler, Homer P.)

Chard, Richard E. (See Brown, C. D., and Chard.)

Chausse, Wilfred G., Detroit, Mich. Heating apparatus. 2,317,441; Apr. 27.

Cheetham, Harold C., and C. L. Levesque, assignors to The Resinous Products & Chemical Company, Philadelphia, Pa. Resinous compositions. 2,317,668; Apr. 27.

Chekian, Frank A., Modesto, Calif. Fruit halving device. 2,317,669; Apr. 27.

Cherry, Carl W., and A. S. Mullgardt, San Francisco, Calif., said Mullgardt assignor to said Cherry. Rivet and making the same. 2,317,360; Apr. 27.

Chevigny, Georges P., assignor to International Standard Electric Corporation, New York, N. Y. Electron discharge tube. 2,317,442; Apr. 27.

Chromogen, Incorporated. (See Gáspár, Béla, assignor.)

Cincinnati Planer Company, The. (See Daugherty, Jesse, assignor.)

Clausen, Sigurd, Brooklyn, N. Y., assignor to International Cigar Machinery Company. Knife unit. 2,317,731; Apr. 27.

Claytor, Edward M., and W. J. Rady, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich. Ignition system. 2,317,588; Apr. 27.

Cleveland Trust Company, The. (See Curtis, Myron S., assignor.)

Clouston, Norman E., Granby, Quebec, Canada. Box made of transparent material. 2,317,884; Apr. 27.

Coca-Cola Company, The. (See Stout, George P., assignor.)

Coddington, Edward B., Chicago, Ill. Swimming glove. 2,317,886; Apr. 27.

Colbeth, Ivor M., East Ohange, N. J., assignor to The Baker Castor Oil Company, New York, N. Y. Producing drying oils, and product. 2,317,361; Apr. 27.

Colbeth, Ivor M., East Orange, N. J., assignor to The Baker Castor Oil Company, New York, N. Y. Treating oils. 2,317,362; Apr. 27.

Coley, Nelson B., assignor to General Railway Signal Company, Rochester, N. Y. Coded track circuit signaling system. 2,317,732; Apr. 27.

Collinson, Alick B., Glasgow, Mont. Automatic liquid lifter. 2,317,589; Apr. 27.

Columbia Baking Company. (See Lanham, William E., assignor.)

Colvin, Clifford, Detroit, Mich., assignor to George M. Holley and Earl Holley. Ignition timing device. 2,317,885; Apr. 27.

Commercial Solvents Corporation. (See Robinette, Hillary, assignor.)

Commercial Solvents Corporation. (See Senkus, Murray, assignor.)

Compere, Thomas, Roslyn, N. Y. Educational and amusement device. 2,317,590; Apr. 27.

Continental-Diamond Fibre Company. (See Landt, G. E., and Petho, assignors.)

Conzetti, Achille, and G. Schetty, assignor to the firm J. R. Geigy A. G., Basel, Switzerland. Dyestuffs becoming green when chromed and their manufacture. 2,317,733; Apr. 27.

Cook Electric Company. (See Folds, G. R., and Schultz, assignor.)

Cook, George B., Summit, N. J., assignor to Standard Oil Development Company. Making corrosion resistant bottom seams for tanks. 2,317,734; Apr. 27.

Cook, Oakley O., and C. E. Watson, assignors of one-tenth to Albert L. Reed and Carl B. Callaway, Dallas, Tex. Bactericide and making the same. 2,317,670; Apr. 27.

Cook, Oakley O., and C. E. Watson, assignors of one-tenth to Albert L. Reed and Carl B. Callaway, Dallas, Tex. Chemical compound. 2,317,671; Apr. 27.

Cooley, Floyd A., assignor to Ternstedt Manufacturing Company, Detroit, Mich. Automobile door handle assembly. 2,317,672; Apr. 27.

Coons, Curtis C., assignor to The Hoover Company, North Canton, Ohio. Refrigeration. 2,317,519; Apr. 27.

Coons, Curtis C., assignor to The Hoover Company, North Canton, Ohio. Refrigeration. 2,317,520; Apr. 27.

Craig, John G., assignor to Joseph Bancroft & Sons Co., Wilmington, Del. Color correlating sample book. 2,317,673; Apr. 27.

Cramwinckel, Arnaud, C. J. Dippel, K. J. Keuning, and F. L. Van Weenen, Eindhoven, Netherlands, assignors, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Method of treating photographic material. 2,317,591; Apr. 27.

Crane Co. (Hepner, L. H., and Tucker, assignors.)

Creed and Company Limited. (See Thompson, A. E. and Salmon, assignors.)

Cressman, Homer W. J. (See Brooker, L. G. S., and Cressman.)

Crollie, John W., Dagenham, England, assignor to Ilse Zimt, New York, N. Y. Grease gun. 2,317,887; Apr. 27.)

Crompton & Knowles Loom Works. (See Turner, Richard G., assignor.)

Crowley, Clyde A., and J. B. Mullen, assignor to The Huey Co., Chicago, Ill. Sensitizer containing a gel-forming colloidal clay. 2,317,521; Apr. 27.

Cunningham, George L., Niagara Falls, assignor to The Mathieson Alkali Works, Inc., New York, N. Y. Making chlorine dioxide and for separating the same from chlorine. 2,317,443; Apr. 27.

Cunningham, M. E., Company. (See Speicher, F. S., and Hauer, assignors.)

Curtis, Myron S., Pawtucket, R. I., assignor, by mesne assignments to The Cleveland Trust Company, Cleveland, Ohio. Machine tool. 2,317,522; Apr. 27.

Curtiss-Wright Corporation. (See Jones, Dediger, assignor.)

Cutler-Hammer, Inc. (See Hodgson, H. E., and Kuhn, assignors.)

Cypser, Hugo F., assignor to Signal Engineering & Manufacturing Company, New York, N. Y. Operating circuit for electrical devices. 2,317,888; Apr. 27.

Dahl, George H. M., Washington, D. C. Toy electric car. 2,317,363; Apr. 27.

Dale, James F., assignor of one-half to R. E. Riegel, Richmond, Ind. Brace for the rails of railroad tracks. 2,317,735; Apr. 27.

D'Alelio, Gaetano F., and J. W. Underwood, Pittsfield, Mass., assignors to General Electric Company. Reaction products of aldehydes and pyrimidyl cyanoalkyl sulphides. 2,317,736; Apr. 27.

D'Alelio, Gaetano F., and J. W. Underwood, Pittsfield, Mass., assignors to General Electric Company. Reaction products of aldehydes and pyrimidine derivatives. 2,317,737; Apr. 27.

D'Alelio, Gaetano F., and J. W. Underwood, Pittsfield, Mass., assignors to General Electric Company. Reaction products of aldehydes and triazine derivatives. 2,317,738; Apr. 27.

D'Alelio, Gaetano F., and J. W. Underwood, Pittsfield, Mass., assignors to General Electric Company. Reaction products of aldehydes and triazinyl cyanoalkyl sulphides. 2,317,739; Apr. 27.

Dalton, Clarence E., St. Louis, Mo. Trestle. 2,317,444; Apr. 27.

Damrow Brothers Company. (See Peters, Norman J., assignor.)

Daniels, Alfred P. (See Hall, W. C., and Le Gette, assignors.)

Danneman, Fred C., Ridgewood, N. Y. Die set parts assembly. 2,317,889; Apr. 27.

Daugherty, Jesse, assignor to The Cincinnati Planer Company, Cincinnati, Ohio. Metal planer. 2,317,674; Apr. 27.

Davidson, Allen M., and C. A. King, South Bend, Ind. Trolling device. 2,317,445; Apr. 27.

Dawson, Fred C., Canton, assignor to B. F. Sturtevant Company, Hyde Park, Boston, Mass. Vulcanizer. 2,317,890; Apr. 27.

Day-Brite Lighting, Inc. (See Biller, David J., assignor.)

De Bruyne, Norman A., and C. A. A. Rayner, assignors, by mesne assignments, to Aero Research Limited, Duxford, England. Composite structure comprising synthetic resin, and making same. 2,317,364; Apr. 27.

De Burgh, Albert R., Bellingham, Wash. Conveyer system. 2,317,675; Apr. 27.

Decher, Siegfred. (See Neugebauer, F., Franz, Decher, and Meissner.)

Defiance Manufacturing Company. (See Graham, Clarence T., assignor.)

Deike, George H., Jr., Wilkinsburg, assignor to Mine Safety Appliances Company, Pittsburgh, Pa. Protective hat. 2,317,954; Apr. 27.

Delano, James K., Rye, N. Y. Production of energy from pyro crystals and minerals. 2,317,523; Apr. 27.

Delaware Engineering Corporation. (See Moore, William E., assignor.)

Dennis, Raymond L., Grand Rapids, Mich., assignor of one-half to Perkins Glue Company, Lansdale, Pa. Veneer gluing machine. 2,317,446; Apr. 27.

Dennison, Brook J., Aspinwall, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Waterproof adhesive composition. 2,317,891; Apr. 27.

De Orlow, Stephen, Detroit, assignor to Hancock Manufacturing Company, Jackson, Mich. Hinge structure. 2,317,892; Apr. 27.

Detrick, Edward R. (See Bolen, E. P., and Detrick.)

Detroit Lubricator Company. (See Russel, Philip S., assignor.)

Devlin, Henry, assignor to Baker Perkins Inc., Saginaw, Mich. Variable face cam. 2,317,740; Apr. 27.

Dey, George E., assignor to W. B. Jarvis Company, Grand Rapids, Mich. Handle assembly. 2,317,592; Apr. 27.

Diagraph-Bradley Stencil Machine Corporation. (See Herb, Otto J., assignor.)

Dickey, Joseph B., and J. G. McNally, assignors to Eastman Kodak Company, Rochester, N. Y. Azo compounds and material colored therewith. 2,317,365; Apr. 27.

Di Martino, John, Brooklyn, N. Y. Extensible curtain rod device. 2,317,893; Apr. 27.

Dippel, Cornelis J. (See Cramwinckel, A., Dippel, Keuning, and Van Weenen.)

Distillation Products, Inc. (See Baxter, James G., assignor.)

Dohmeier, Fred. (See Rearwin, Earle W., assignor.)

Dodson, William C. (See Drum, H. S., and Dodson.)

Dolman, Clarence D., Chelan County, Wash., assignor to Hercules Glue Company, Ltd. Spray composition. 2,317,741; Apr. 27.

Domizi, Dario, Parma, Ohio, assignor to Carbide and Carbon Chemicals Corporation. Calender and making plastic sheets. 2,317,447; Apr. 27.

Donbeck, Larry D., and R. A. Peterson, Gary, Ind. Conveyer roller. 2,317,742; Apr. 27.

Donley Brothers Company, The. (See Donley, Donald M., assignor.)

Donley, Donald M., Macedonia, assignor to The Donley Brothers Company, Cleveland, Ohio. Building construction. 2,317,955; Apr. 27.

Dooley, George W., assignor to M. R. Standish, San Bernardino, Calif. Coin controlled release mechauism. 2,317,593; Apr. 27.

Dornheim, Otto. (See Reppe, W., Krzikalla, Dornheim, and Sauerbier.)

Dorsey, Arthur A., Emeryville, Calif. Core for tire vulcanizers. 2,317,676; Apr. 27.

Doty, Harry, Roosevelt, N. Y. Auxiliary seating for automobiles. 2,317,894; Apr. 27.

Doyle, Arthur J., assignor to The Youngstown Steel Door Company, Cleveland, Ohio. House car construction. 2,317,677; Apr. 27.

Drake, Percy B., Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Switching mechanism. 2,317,743; Apr. 27.

Draper Corporation. (See Brown, C. D., and Chard, assignors.)

Draper Corporation. (See Draper, R. C., and Ozella, assignors.)

Draper, Robert C., Hopedale, and V. J. Ozella, Milford, assignors to Draper Corporation, Hopedale, Mass. Shuttle feeler. 2,317,744; Apr. 27.

Dreyfus, Henry, London, R. W. Moncrieff, and F. B. Hill, Spondon, near Derby, England, assignors to Celanese Corporation of America. Apparatus for treatment of artificial materials. 2,317,448; Apr. 27.

Drill, Daniel C., assignor to American Rock Wool Corp., Wabash, Ind. Means for and method of manufacturing mineral wool products by the "dry" process. 2,317,895; Apr. 27.

Drum, Harry S., and W. C. Dodson, Abington, assignors to Smith, Drum and Company, Philadelphia, Pa. Mounting for heat responsive instruments used in yarn package drying. 2,317,896; Apr. 27.

Du Bois Soap Company, The. (See Miller, Samuel J., assignor.)

Duckstein, Martin, Munich, Obermenzing, Germany; vested in the Alien Property Custodian. Lubricating device for aircraft engines. 2,317,745; Apr. 27.

Duden, Emil G., assignor to Scaife Company, Oakmond, Pa. Gravity filtration. 2,317,847; Apr. 27.

Duden, Emil G., assignor to Scaife Company, Oakmont, Pa. Hot process gravity filtration. 2,317,848; Apr. 27.

Du Pont, E. I., de Nemours & Company. (See Almy, Richard R., assignor.)

Du Pont, E. I., de Nemours & Company. (See Boller, E. R., Hanthorn, and Treadway, assignors.)

Du Pont, E. I., de Nemours & Company. (See Bristol, John E., assignor.)

Du Pont, E. I., de Nemours & Company. (See Ewing, Alvin L., assignor.)

Du Pont, E. I., de Nemours & Company. (See Gubelmann, I., and Benner, assignors.)

Du Pont, E. I., de Nemours & Company. (See Hall, W. P-G., and Bell, assignors.)

Du Pont, E. I., de Nemours & Company. (See Hanford, W. E., and Schreiber, assignors.)

Du Pont, E. I., de Nemours & Company. (See Hoff, George P., assignor.)

Du Pont, E. I., de Nemours & Company. (See Kvalnes, D. E., Smith, and Walling, assignors.)

Du Pont, E. I., de Nemours & Company. (See Larchar, Arthur W., assignor.)

Durant, Lyndon A. (See Williams, H. E., and Durant.)

Eakins, Merle M. (See Miller, R. A., and Eakins.)

Eastern Tool and Manufacturing Company. (See Elwell, George H., assignor.)

Eastman, Fred C., Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Lasting machine. 2,317,366; Apr. 27.

Eastman Kodak Company. (See Brooker, L. G. S., and Cressman, assignors.)

Eastman Kodak Company. (See Dickey, J. B., and McNally, assignors.)

Eastman Oil Well Survey Company. (See Miller, Leonidas C., assignor.)

Eichner, Edward R., Montclair, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Liquid dispensing mechanism. 2,317,956; Apr. 27.

Eley, John, Jr. (See Campbell, Rodney B., assignor.)

Ellerstein, Jack I., New York, N. Y. Hat pin. 2,317,746; Apr. 27.

Ellis, John L., assignor to Joe Lowe Corporation, New York, N. Y. Extrusion device. 2,317,897; Apr. 27.

Elwell, George H., New Haven, Conn., assignor to Eastern Tool and Manufacturing Company, Bloomfield, N. J. Slide loop. 2,317,678; Apr. 27.

Elwell, George H., New Haven, Conn., assignor to Eastern Tool and Manufacturing Company, Bloomfield, N. J. Slide loop. 2,317,679; Apr. 27.

Empire Electric Brake Corporation. (See Penrose, William F., assignor.)
Ericson, George R., Kirkwood, assignor to Carter Carburetor Corporation, St. Louis, Mo. Fluid pressure device. 2,317,594; Apr. 27.
Ernst, Walter, Mount Gilead, Ohio, assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del. Control system. 2,317,524; Apr. 27.
Erusha, Milver C. (See Gaddis, Roy, assignor.)
Essl, Max, Lansdowne, Pa., assignor to The Baldwin Locomotive Works. Locomotive. 2,317,849; Apr. 27.
Ewing, Alvin L., Richmond, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Yarn processing apparatus. 2,317,747; Apr. 27.
Ex-Cell-O Corporation. (See Seyferth, Harold N., assignor.)
Exline, William, Inc. (See Exline, William P., assignor.)
Exline, William P., Shaker Heights, assignor to William Exline, Inc., Cleveland, Ohio. Checkbook holder. 2,317,748; Apr. 27.
Faris, Harold P., Philadelphia, Pa., assignor to National Automotive Fibres, Inc., Detroit, Mich. Carpet. 2,317,595; Apr. 27.
Fedders Manufacturing Company. (See Whitt, S. A., and Przyborowski, assignors.)
Fensch, Richard G., and G. White, assignors to The Humphreys Manufacturing Company, Mansfield, Ohio. Wash-basin assembly. 2,317,898; Apr. 27.
Fermazin, Walter, Berlin-Grunau, Germany; vested in the Alien Property Custodian. System of improving photographic layers. 2,317,750; Apr. 27.
Ferro Engineering Company, The. (See Urmetz, Walter W., assignor.)
Filatex Corporation. (See Leach, John M., assignor.)
Finch Telecommunications, Inc. (See Marriott, Robert H., assignor.)
Finch, William G. H., Newtown, Conn. Electro-optical facsimile synchronizing system. 2,317,850; Apr. 27.
Finley, Thomas J., and E. J. Burke, East Chicago, Ind. Signal device. 2,317,525; Apr. 27.
Fischer, Albert C., Chicago, Ill., assignor to The Philip Carey Manufacturing Company. Making roofing. 2,317,596; Apr. 27.
Fischlmayr, Hans, Grafelfing near Munich, Germany; vested in the Alien Property Custodian. Fuel injection nozzle. 2,317,749; Apr. 27.
Fitzpatrick, Michael F., Brooklyn, N. Y. Snowplow. 2,317,680; Apr. 27.
Fleischer Mills, Inc., The. (See Fleischer, Nathan I., assignor.)
Fleischer, Nathan I., assignor to The Fleischer Mills, Inc., Cincinnati, Ohio. Tab tape. 2,317,899; Apr. 27.
Fletcher, James, assignor to Tipaloy, Incorporated, Detroit, Mich. Welding electrode. 2,317,681; Apr. 27.
Flock, Bernard J., assignor to Universal Oil Products Company, Chicago, Ill. Reactor. 2,317,449; Apr. 27.
Fluid Control Engineering Co. (See Grove, M. H., and Bryant, assignor.)
Foerster, Gustav C., Milwaukee, Wis. Submarine weed cutting apparatus. 2,317,367; Apr. 27.
Folds, George R., and R. M. Schultz, assignors to Cook Electric Company, Chicago, Ill. Terminal box. 2,317,450; Apr. 27.
Food Machinery Corporation. (See Paxton, Walter H., assignor.)
Ford, Henry, Dearborn, and R. A. Boyer, Detroit, assignors to Ford Motor Company, Dearborn, Mich. Die construction. 2,317,597; Apr. 27.
Ford Motor Company. (See Ford, H., and Boyer, assignors.)
Ford Motor Company. (See Kramer, Clarence F., assignor.)
Ford Motor Company. (See Wharam, John J., assignor.)
Fowler, Owen H., assignor to Hydraulic Brake Company, Detroit, Mich. Fluid pressure braking system. 2,317,601; Apr. 27.
Francois, Carl J., Cedar Rapids, Iowa. Expansion joint. 2,317,598; Apr. 27.
Franz, Anselm. (See Neugebauer, F., Franz, Decher, and Meissner.)
Freeman, Alfred B., San Diego, Calif. Safety fish hook. 2,317,900; Apr. 27.
Freer, Phelps M., Detroit, Mich. Brake. 2,317,599; Apr. 27.
Frey, Frederick E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Conversion of hydrocarbons. 2,317,901; Apr. 27.
Frey, Louis E., assignor, by mesne assignments, to N. A. Henderson, Albany, N. Y. Picture hook. 2,317,368; Apr. 27.
Fritz, Kenneth R., Bristol, assignor to The Sessions Clock Company, Forestville, Conn. Bearing for miniature electric motors. 2,317,902; Apr. 27.
Frolich, Per K., and A. H. Gleason, Westfield, N. J., assignors to Standard Oil Development Company. Lubricating oil. 2,317,751; Apr. 27.
Frudden, Conrad E., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Power take-off. 2,317,957; Apr. 27.
Fuller, Arthur D., assignor to National Starch Products Inc., New York, N. Y. Modified starch. 2,317,752; Apr. 27.
Fuller, Ernest W., Shaker Heights, assignor to The Acrotorque Company, Cleveland, Ohio. Drive mechanism. 2,317,903; Apr. 27.
Fullerton, Herbert S., Philadelphia, Pa., assignor to The Baldwin Locomotive Works. Die spotting press. 2,317,851; Apr. 27.
Fullerton, Herbert S., Philadelphia, Pa., assignor to The Baldwin Locomotive Works. Elevator. 2,317,852; Apr. 27.
Gaddis, Roy, Cedar Rapids, assignor to M. C. Erusha, Walford, Iowa. Material distributing device. 2,317,853; Apr. 27.
Galey, Henry J., Tarentum, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Glass bending apparatus. 2,317,904; Apr. 27.
Galkin, Joseph, New York, N. Y. Water cycle. 2,317,905; Apr. 27.
Gans, David M. (See Gessler, A. E., and Gans.)
Garelli, Adalberto, Milan, Italy; vested in the Alien Property Custodian. Brake control means. 2,317,753; Apr. 27.
Garnett, Edward V. (See Garnett, Vactor G. and E. V.)
Garnett, Vactor G. and E. V., Denver, Colo. Dual wheel construction. 2,317,906; Apr. 27.
Gartner, Erich. (See Koch, A., and Gartner.)
Gáspár, Béla, Hollywood, Calif., assignor to Chromogen Incorporated. Printing color photography. 2,317,369; Apr. 27.
Gaw-O'Hara Envelope Company. (See Thompson, Allan M., assignor.)
Geese, Charles, Somerton, Pa. Setting printing inks and composition therefor. 2,317,370; Apr. 27.
Geigy, J. R., A. G. (See Conzetti, A., and Schetty, assignors.)
General Aniline & Film Corporation. (See Bestian, H., Nüsslein, and Monheim, assignors.)
General Aniline & Film Corporation. (See Kerth, M., and Link, assignors.)
General Electric Company. (See Buchholz, Herbert, assignor.)
General Electric Company. (See D'Alelio, G. F., and Underwood, assignors.)
General Electric Company. (See King, Robert A., assignor.)
General Electric Company. (See Scheiber, William J., assignor.)
General Electric Company. (See Scott, Carl F., assignor.)
General Electric Company. (See Wild, Albert F., assignor.)
General Mills, Inc. (See James, Thomas R., assignor.)
General Motors Corporation. (See Claytor, E. M., and Rady, assignors.)
General Motors Corporation. (See Menzies, W. E., and Werner, assignors.)
General Motors Corporation. (See Sampson, Frederick W., assignor.)
General Printing Ink Corporation. (See Wekeman, Stephen N., assignor.)
General Railway Signal Company. (See Coley, Nelson B., assignor.)
General Railway Signal Company. (See Merkel, Joseph F., assignor.)
General Steel Castings Corporation. (See Hallquist, Einar G., assignor.)
General Steel Castings Corporation. (See Nystrom, K. F., (Beckette, assignor), and Green.)
Gent, Oscar L., Tulsa, Okla. Wall. 2,317,907; Apr. 27.
Gessler, Albert E., New York, and D. M. Gans, Bronx, assignors to Interchemical Corporation, New York, N. Y. Coating and decorating compositions. 2,317,371; Apr. 27.
Gessler, Albert E., New York, and D. J. Bernardi, Astoria, Long Island, assignors to Interchemical Corporation, New York, N. Y. Printing and composition useful therein. 2,317,372; Apr. 27.
Giles, Roy T., Daytona Beach, Fla. Reinforcing refractory, furnace walls and the like. 2,317,451; Apr. 27.
Giuseffi, Jerome, Cincinnati, Ohio, assignor to The Goodall Worsted Company, Sanford, Maine. Coat construction. 2,317,373; Apr. 27.
Gleason, Anthony H. (See Frolich, Per K., and Gleason.)
Golden State Company. (See Peebles, D. D., and Manning, assignors.)
Goodall Worsted Company, The. (See Giuseffi, Jerome, assignor.)
Goodloe, Alfred M., Montclair, assignor to Metal Textile Corporation, West Orange, N. J. Black-out shade. 2,317,452; Apr. 27.
Goodrich, B. F., Company, The. (See Jones, Paul C., assignor.)
Goodrich, B. F., Company, The. (See Seaton, John H., assignor.)
Goodwin, Herbert F., Melrose, assignor of one-half to Edgar P. Lewis & Sons, Inc., Malden, Mass. Apparatus for packing candy articles or the like. 2,317,374; Apr. 27.
Görlich, Paul, Dresden, Germany; vested in the Alien Property Custodian. Producing secondary electron emitting cathodes. 2,317,754; Apr. 27.
Gouch, George V. (See Gouch, Victor F. and G. V.)
Gouch, Victor F. and G. V., Chicago, Ill. Can perforator and dispenser. 2,317,755; Apr. 27.
Grady, Roy I., Wooster, Ohio. Deodorant. 2,317,908; Apr. 27.

Graenacher, Charles, Riehen, and R. Sallmann, Bottmingen, assignors to the firm Society of Chemical Industry in Basle, Basel, Switzerland. Improving materials containing cellulose. 2,317,756; Apr. 27.
Graf, Roderich, Frankfort-on-the-Main-Unterliederbach, Germany; vested in the Alien Property Custodian. Alkylene-polyamines and preparing them. 2,317,757; Apr. 27.
Graham, Clarence T., North Attleboro, assignor, by mesne assignments, to Defiance Manufacturing Company, Barrowsville, Mass. Treating fabric, and fabric. 2,317,375; Apr. 27.
Graham, Maurice H., Minneapolis, Minn. Beverage making apparatus. 2,317,453; Apr. 27.
Green, Samuel G. (See Taylor, G. M., Bradshaw, and Green.)
Green, Vernon L. (See Nystrom, K. F., Beckette, and Green.)
Greensfelder, Bernard S., Berkeley, assignor to Shell Development Company, San Francisco, Calif. Cyclization of hydrocarbons. 2,317,683; Apr. 27.
Greensfelder, Edward, et al., trustees. (See Johnston, Harry, assignor.)
Gregory, Frank S., Jr. (See Morris, T. C., and Gregory, Jr.)
Greulich, Gerald G., Mount Lebanon, Pa. Reinforcing bar for concrete structures. 2,317,454; Apr. 27.
Groene, Willard L., assignor to The R. K. LeBlond Machine Tool Company, Cincinnati, Ohio. Friction transmission gearing. 2,317,854; Apr. 27.
Grove, Marvin H., Piedmont, and A. U. Bryant, Berkeley, Calif., assignors to Fluid Control Engineering Co. Flow control device. 2,317,376; Apr. 27.
Gruendler Crusher & Pulverizer Co. (See Gruendler, William P., assignor.)
Gruendler, William P., University City, assignor to Gruendler Crusher & Pulverizer Co., St. Louis, Mo. Cage for grinding machines and the like. 2,317,909; Apr. 27.
Gruse, William A. (See Hjerpe, E. B., and Gruse.)
Gubelmann, Ivan, Wilmington, Del., and R. G. Benner, Carneys Point, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Purifying benzoic acid. 2,317,455; Apr. 27.
Guinot, Henri M., Niort, France; vested in the Alien Property Custodian. Treatment of acetic acid. 2,317,758; Apr. 27.
Gulf Oil Corporation. (See Hjerpe, E. B., and Gruse, assignors.)
Haebler, Herbert, Stuttgart, Germany; vested in the Alien Property Custodian. Lead storage battery. 2,317,759; Apr. 27.
Haggart, John C., Jr., Westfield, N. J., assignor to Signal Service Corporation. Road marker. 2,317,684; Apr. 27.
Hahn, Arthur, Balingen, Germany; vested in the Alien Property Custodian. Printing scale. 2,317,760; Apr. 27.
Haigh, Vaughn, Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill. Transmission. 2,317,761; Apr. 27.
Hale, Arthur N., Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Feeding mechanism for sewing machines. 2,317,762; Apr. 27.
Hall, Frances C., Mamaroneck, N. Y. Making hollow molded objects from organic plastic material. 2,317,763; Apr. 27.
Hall, Willard C., Jr., and E. L. Le Gette, assignors to A. P. Daniels, Los Angeles, Calif. Lamp starter and maintenance device. 2,317,602; Apr. 27.
Hall, William P.-G., Berwyn, Pa., and A. O. Bell, Leominster, Mass., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Continuous filament bristle feeding mechanism. 2,317,401; Apr. 27.
Halliburton Oil Well Cementing Company. (See Losey, Thomas B., assignor.)
Hallquist, Einar G., Wallingford, Pa., assignor to General Steel Castings Corporation, Granite City, Ill. Railway truck. 2,317,377; Apr. 27.
Halperin, J. Stanley, et al. (See Wolfers, Phillip, assignor.)
Hamilton, Lloyd L., Oklahoma City, Okla. Power actuator and control for hydraulic brakes. 2,317,604; Apr. 27.
Hancock Manufacturing Company. (See De Orlow, Stephen, assignor.)
Hanford, William E., and R. S. Schreiber, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Formaldehyde-crotonaldehyde condensation product. 2,317,456; Apr. 27.
Hannemann, Heinz, and E. Oberländer, Berlin, Germany; vested in the Alien Property Custodian. Carrier frequency amplifier. 2,317,764; Apr. 27.
Hanthorn, Howard E. (See Boller, E. R., Hanthorn, and Treadway.)
Harris, Benjamin R., Chicago, Ill. Antiseptic materials. 2,317,378; Apr. 27.
Harris, Manly S., San Francisco, Calif. Casket. 2,317,605; Apr. 27.
Harris, Manly S., San Francisco, Calif. Agricultural device. 2,317,606; Apr. 27.
Hartford National Bank and Trust Company. (See Cramwinckel, A., Dippel, Keuning, and Van Weenen, assignors.)
Hartford National Bank and Trust Company, trustee. (See Klek, M., and Aninga, assignors.)
Harvel Corporation, The. (See Caplan, Solomon, assignor.)
Harvel Corporation, The. (See Harvey, Mortimer T., assignor.)
Harvel Corporation, The. (See Homan, Edward C., assignor.)
Harvey, Mortimer T., East Orange, N. J., assignor, by mesne assignments, to The Harvel Corporation. Compositions of matter and methods and steps of making and using the same. 2,317,607; Apr. 27.
Hastings Manufacturing Company. (See Ackerman, Virgil D., assignor.)
Hastings Manufacturing Company. (See Bauer, Edward L., assignor.)
Hastings Manufacturing Company. (See Phillips, Harold P., assignor.)
Hastings Manufacturing Company. (See Phillips, H. P., and Rivers, assignor.)
Hauer, Leon C. (See Speicher, F. S., and Haner.)
Haury, Vernon E. (See Allen, C. C., and Haury.)
Hauser, Ernst A., Cambridge, Mass., assignor to Research Corporation, New York, N. Y. Waterproofing inorganic hydrous oxide bodies, and product. 2,317,685; Apr. 27.
Hawaiian Pineapple Company, Limited. (See Vinsonhaler, George R., assignor.)
Hayes Industries, Inc. (See Hollerith, Charles, assignor.)
Hayes, Stanley W., assignor to Hayes Track Appliance Company, Richmond, Ind. Torch cutting apparatus. 2,317,526; Apr. 27.
Hayes Track Appliance Company. (See Hayes, Stanley W., assignor.)
Heekin Can Company, The. (See Marx, Frederick C., assignor.)
Heidbrink, Jay A., Minneapolis, Minn., assignor to Air Reduction Company, Incorporated, New York, N. Y. Mask. 2,317,608; Apr. 27.
Heller, Richard D., Columbus, Ohio. Making screen cloth. 2,317,457; Apr. 27.
Hemminger, Charles E., Westfield, N. J., assignor to Standard Oil Development Company. Catalytic cracking. 2,317,379; Apr. 27.
Henderson, Norman A. (See Frey, Louis E., assignor.)
Hendrickson, Wilhelm P. (See Betts, O. R., Nevins, and Hendrickson.)
Hepner, Leonard H., and R. E. Tucker, Trenton, N. J., assignors to Crane Co., Chicago, Ill. Refractory body. 2,317,855; Apr. 27.
Herb, Otto J., assignor to Diagraph-Bradley Stencil Machine Corporation, St. Louis, Mo. Making stencil character punch and die sets. 2,317,527; Apr. 27.
Hercules Glue Company, Ltd. (See Dolman, Clarence D., assignor.)
Hercules Powder Company. (See Bennett, Thomas F., assignor.)
Hercules Powder Company. (See Smith, Roscoe B., assignor.)
Hercules Powder Company. (See Trowell, William W., assignor.)
Herter, George L., Waseca, Minn. Wind sounding device. 2,317,458; Apr. 27.
Hertrich, Joseph, assignor to The Western States Machine Company, Hamilton, Ohio. Clutch mechanism for centrifugal machines and the like. 2,317,528; Apr. 27.
Hester, William F., Drexel Hill, assignor to Röhm & Haas Company, Philadelphia, Pa. Fungicidal composition. 2,317,765; Apr. 27.
Hewlett, Amiot P., Summit, and G. E. Phillips, Cranford, N. J., assignors to Standard Oil Development Company. Refining petroleum oils. 2,317,766; Apr. 27.
Higgins, Edward, assignor of fifty per cent to M. C. Meyer, Brooklyn, N. Y. Plasticizers. 2,317,380; Apr. 27.
Hill, Frank B. (See Dreyfus, H., Moncrieff and Hill.)
Hill, Harold N., assignor to Asten-Hill Mfg. Co., Philadelphia, Pa. Drier felt. 2,317,910; Apr. 27.
Hillenbrand, Carl J., Pittsburgh, Pa. Folding fire-escape ladder. 2,317,459; Apr. 27.
Hinchcliffe, Sydney, Wylam-on-Tyne, England. Fuel injection system for use in multicylinder compression-ignition engines. 2,317,947; Apr. 27.
Hincher, Lee D., Seattle, Wash. Production of ribbon bowl. 2,317,609; Apr. 27.
Hjerpe, Eric B., Port Arthur, Tex., and W. A. Gruse, Wilkinsburg, assignors to Gulf Oil Corporation, Pittsburgh, Pa. Utilization of petroleum refinery gas. 2,317,603; Apr. 27.
Hocke, Enrico, Geona, Italy; vested in the Alien Property Custodian. Combustion chamber for internal combustion engines. 2,317,536; Apr. 27.
Hodgson, Howard E., and C. W. Kuhn, Wauwatosa, assignors to Cutler-Hammer, Inc., Milwaukee, Wis. Power driven valve and the like. 2,317,529; Apr. 27.
Hoff, George P., asignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Rubber structure. 2,317,911; Apr. 27.
Hofmann, Rudolf, and W. Röhm, Leverkusen-I. G. Werk, Germany; vested in the Alien Property Custodian. Cellulose fatty acid esters. 2,317,767; Apr. 27.

Holland, James F., Toledo, and J. W. Kinney, Jr., Cincinnati, Ohio. Constricting means for tubular garments. 2,317,768; Apr. 27.

Hollerith, Charles, assignor to Hayes Industries, Inc., Jackson, Mich. Airplane wheel construction. 2,317,610; Apr. 27.

Holley, Earl, et al. (See Colvin, Clifford, assignor.)

Holley, George M., et al. (See Colvin, Clifford, assignor.)

Holloway, Frederic A. L., and D. O. Wilkes, Baton Rouge, La., assignors to Standard Oil Development Company. Refining mineral oils. 2,317,770; Apr. 27.

Holman, Aaron, et al. (See Wolfers, Philip, assignor.)

Holmes, Alvin W., G. W. Benjamin and L. P. Young, assignors to Kitselman Brothers, Muncie, Ind. Helix former. 2,317,530; Apr. 27.

Holmes, Samuel A., Storm Lake, Iowa. Chain construction. 2,317,769; Apr. 27.

Homan, Edward C., East Orange, N. J., assignor, by mesne assignments, to The Harvel Corporation. Cashew nut shell liquid material compositions and bases carrying the same. 2,317,611; Apr. 27.

Hood, E. Elliott, Elmira, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Engine starter. 2,317,344; Apr. 27.

Hoover Company, The. (See Brace, George A., assignor.)

Hoover Company, The. (See Coons, Curtis C., assignor.)

Hoover Company, The. (See Livingston, Roy D., assignor.)

Hoover Company, The. (See Weaver, James W., assignor.)

Hoover Company, The. (See White, Harry B., assignor.)

Hothersall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Container. 2,317,381; Apr. 27.

Hovey, C. Earl, trustee. (See Andaliklewicz, B. A., and Carlson, assignors.)

Howe, Harold S., Detroit, Mich., assignor to United States Rubber Company, New York, N. Y. Pneumatic tire. 2,317,912; Apr. 27.

Hubbell, Harvey, Long Hill, Conn. Electrical fixture. 2,317,382; Apr. 27.

Huber, Charlotte, New York, N. Y. Spool thread assembly. 2,317,771; Apr. 27.

Huber, Fritz, Mannheim, and A. Lentz, Heidelberg, Germany; vested in the Alien Property Custodian. Internal combustion engine with scavenging pump. 2,317,772; Apr. 27.

Hudson, Leslie G., London, and N. Powell, Birmingham, assignors of one-third to W. A. Hudson, Limited, London, England. Packing runners for curtain rails. 2,317,531; Apr. 27.

Hudson, W. A., Limited. (See Hudson, L. G., and Powell, assignors.)

Huebner, William C., New York, N. Y. Camera. 2,317,612; Apr. 27.

Huey Co., The. (See Crowley, C. A., and Mullen, assignors.)

Hughes, Everett C. (See Burk, R. E., and Hughes.)

Hull, Harvard L., Leonia, N. J., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Automatic control system for dirigible craft. 2,317,383; Apr. 27.

Hull, Matthew R., and E. P. Summers, assignors to Rex Manufacturing Company, Inc., Connersville, Ind. Crate for refrigerator cabinets and the like. 2,317,613; Apr. 27.

Hultquist, J. Albert, Scarsdale, N. Y., assignor to Radio Corporation of America. Electron ray indicating device. 2,317,460; Apr. 27.

Humphreys Manufacturing Company, The. (See Fensch, R. G., and White, assignors.)

Hydraulic Brake Company.. (See Fowler, Owen H., assignor.)

Hydraulic Development Corporation, The. (See Ernst, Walter, assignor.)

Hydraulic Development Corporation, The. (See Muller, J. A., and Lawyer, assignors.)

Hydraulic Development Corp., The. (See Tucker, Warren R., assignor.)

Hydro-Blast Corporation, The. (See Webster, Ronald, assignor.)

Hyland, Daniel F., J. C. Stiles, H. L. Brenner and J. Brenner, assignors to Arch-O-Graph Company, St. Louis, Mo. Apparatus for fitting shoes to feet. 2,317,913; Apr. 27.

Imperial Chemical Industries Limited. (See Talbot, Geoffrey W., assignor.)

Industrial Patents Corporation. (See Ingel, James D., assignor.)

Ingel, James D., assignor to Industrial Patents Corporation, Chicago, Ill. Emulsifying cheese. 2,317,958; Apr. 27.

Insta-Freeze Corporation. (See Lindsey, Ernest E., assignor.)

Interchemical Corporation. (See Cassel, Norman S., assignor.)

Interchemical Corporation. (See Gessler, A. E., and Bernardi, assignor.)

Interchemical Corporation. (See Gessler, A. E., and Gans, assignors.)

International Cigar Machinery Company. (See Clausen, Sigurd, assignor.)

International Standard Electric Corporation. (See Chevigny, Georges P., assignor.)

International Standard Electric Corporation. (See Montgomery, William A., assignor.)

International Standard Electric Corporation. (See Scott, Thomas R., assignor.)

Iowa State College Research Foundation. (See Levine, Max, assignor.)

Ivers-Lee Company. (See Salfisberg, Leroy L., assignor.)

Jackson, Lucian C., Buffalo, N. Y. Wrench. 2,317,461; Apr. 27.

Jahn, Hellmuth. (See Wolfram, A., and Jahn.)

James, Thomas R., Minneapolis, Minn., assignor to General Mills, Inc. Toasting flaked cereal and the like. 2,317,532; Apr. 27.

Janser, Owschia L., assignor to Mark Brainos, London, England. Manufacture of permeable materials suitable for use as sausage casings. 2,317,779; Aug. 27.

Jarvis, W. B., Company. (See Dey, George E., assignor.)

Jasco, Incorporated. (See Bannon, Lewis A., assignor.)

Jasco Incorporated. (See Koch, A., and Gartner, assignors.)

Jasco, Incorporated. (See Turner, Luther B., assignor.)

Jenkins, John D., Forest Hills, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Bodying of drying oils. 2,317,915; Apr. 27.

Johnson, Arthur A., Bridgeport, Conn., assignor to Autographic Register Company, Hoboken, N. J. Strip feeding and severing device. 2,317,384; Apr. 27.

Johnson, Harry L., Los Angeles, Calif. Countersink stop. 2,317,615; Apr. 27.

Johnson, Jacob M., Fargo, N. Dak. Strike plate gauge. 2,317,462; Apr. 27.

Johnson, James M., and E. C. Brown, New York, N. Y., assignors to Nostrip, Inc. Bituminous composition. 2,317,959; Apr. 27.

Johnson Service Company. (See Otto, Carl A., assignor.)

Johnston, Harry, St. Louis, Mo., assignor, by mesne assignments, of one-half to Edward Greensfelder and Mercantile-Commerce Bank and Trust Company, trustees under the will of Wilton Rubinstein, deceased, and one-half to Edward Greensfelder and Mercantile-Commerce Bank and Trust Company, trustees for Blanche Rubinstein, Louise Rubinstein, and Ann Rubinstein, and Peggy Rubinstein. Sewing machine for collars. 2,317,614; Apr. 27.

Jones, Dedger, Columbus, Ohio, assignor to Curtiss-Wright Corporation. Routing machine fixtures. 2,317,616; Apr. 27.

Jones, Everett P. (See Nicholson, W. B., and Jones.)

Jones, Paul C., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Vulcanization of rubber. 2,317,463; Apr. 27.

Joslin, Charles B., Hollidays Cove, W. Va., assignor to National Steel Corporation. Roll Brush. 2,317,533; Apr. 27.

Joy Manufacturing Company. (See Lee, Arthur L., assignor.)

Kaestner, Albert C. (See Peter, W. J., and Kaestner.)

Kahn, Walter, Middleburg, Union of South Africa. Device for supporting smokers' pipes. 2,317,534; Apr. 27.

Kallal, Frances L., Tofield, Alberta, Canada. Rake. 2,317,916; Apr. 27.

Kasan, Louis, New York, N. Y. Venetian blind. 2,317,917; Apr. 27.

Katzin, Martin, Riverhead, N. Y., assignor to Radio Corporation of America. Electromagnetic wave horn radiator. 2,317,464; Apr. 27.

Kaufman, Henry D., Los Angeles, Calif. Lock bolt retaining means. 2,317,617; Apr. 27.

Kavanaugh, Joseph P., Seattle, Wash., assignor to Kleckhefer Container Company of Delair, New Jersey. Container sealing. 2,317,773; Apr. 27.

Kearby, Kenneth K. (See Reeves, E. D., and Kearby.)

Keevil, Henry W. (See Barnes, W. C., and Keevil.)

Kende, George, New York, N. Y., and O. K. Cazin, Hoboken, N. J., assignors to Universal Camera Corporation, New York, N. Y. Camera. 2,317,465; Apr. 27.

Kenney, Carl L. (See Bollinger, F. F., and Kenney.)

Kerth, Max, Bad Soden in Taunus, and A. Link, Frankfort-on-the-Main-Hochst, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y. Producing effects on textile material. 2,317,466; Apr. 27.

Keuning, Klaas J. (See Cramwinckel, A., Dippel, Keuning, and Van Weenen.)

Kleckhefer Container Company of Delair, New Jersey. (See Kavanaugh, Joseph P., assignor.)

Kiek, Maurits and J. Aninga, Eindhoven, Netherlands; assignors, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Magnetic filter. 2,317,774; Apr. 27.

King, Clarence A. (See Davidson, A. M., and King.)

King, Franklin R., Yelm, Wash. Fuel injector. 2,317,618; Apr. 27.

King, Robert A., Erie, Pa., assignor to General Electric Company. Refrigeration apparatus. 2,317,775; Apr. 27.

Kinney, John W., Jr. (See Holland, J. F., and Kinney, Jr.)

Kirshenbaum, Irving, and H. McCabe, New York, N. Y. Self-venting vacuum trap. 2,317,467; Apr. 27.

Kitchen, William J., New York, N. Y. Package handle. 2,317,535; Apr. 27.

Kitselman Brothers. (See Holmes, A. W., Benjamin, and Young, assignors.)

Knipe Bros., Inc. (See Knipe, William L., assignor.)

Knipe, William L., Haverhill, assignor to Knipe Bros., Inc., Ward Hill, Mass. Inner sole for welt shoes. 2,317,918; Apr. 27.

Koch, Albert, Cologne-Dunnwald, and E. Gartner, Leverkusen-I. G. Werk, Germany, assignors to Jasco Incorporated. Plasticization of synthetic rubber-like materials. 2,317,385; Apr. 27.

Körber, Emil, Nuremberg, Germany; vested in the Alien Property Custodian. Photoelectric cell. 2,317,776; Apr. 27.

Kothny, Gottdank L., Strafford, assignor to Sperry-Sun Well Surveying Company, Philadelphia, Pa. Well surveying instrument. 2,317,386; Apr. 27.

Kovar, John R., Anoka, Minn. Harrow. 2,317,537; Apr. 27.

Kramer, Clarence F., Birmingham, assignor to Ford Motor Company, Dearborn, Mich. Head lamp. 2,317,619; Apr. 27.

Kramer, Clarence F., Birmingham, assignor to Ford Motor Company, Dearborn, Mich. Seat. 2,317,620; Apr. 27.

Krause, Georg A., Hollriegelskreuth, near Munich, Germany; vested in the Alien Property Custodian. Apparatus for the separation of ice and concentrate. 2,317,777; Apr. 27.

Krieger, Arthur M., Mount Lebanon, Pa. Apparatus for measuring strip. 2,317,468; Apr. 27.

Krinowitz, Maurice J. (See Adler, O. E., and Krinowitz.)

Kropp, Einar. (See Burk, R. E., and Kropp.)

Krueger, Frank, assignor to E. W. Bliss Company, Brooklyn, N. Y. Can making machine. 2,317,919; Apr. 27.

Kruppa, Erich. (See Lübbe, H. F. A., and Kruppa.)

Krzikalla, Hans. (See Reppe, W., Krzikalla, Dornheim, and Sauerbier.)

Kuehn, Theadore M., Nara Visa, N. Mex.' Governor attachment for impellers. 2,317,778; Apr. 27.

Kuhl, Frederick A. (See Boucher, C. P., and Kuhl.)

Kuhn, Clarence W. (See Hodgson, H. E., and Kuhn.)

Kuyper, Peter H., assignor to Rolscreen Company, Pella, Iowa. Window structure. 2,317,686; Apr. 27.

Kvalnes, Donovan E., Penns Grove, N. J., S. B. Smith, Hockessin, and C. Walling, Wilmington, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Dispersible disazo dye. 2,317,387; Apr. 27.

Ladner, Lawrence A. (See Stout, F. S., Bond, and Ladner.)

Lako, Samuel, Jr., Chino, Calif. Roaster. 2,317,388; Apr. 27.

Lamar, Alexis L., Pittsburg, Kans. Signal. 2,317,438; Apr. 27.

Lammedee, John M. (See McGrath, H. J., and Lammedee.)

Landis, Clifford H. (See Wallace, J. D., and Landis.)

Landt, Gustave E., Norristown, and J. A. Petho, Perkiomenville, Pa., assignors to Continental-Diamond Fibre Company, Newark, Del. Bearing. 2,317,920; Apr. 27.

Langos, Otto A., assignor to B. A. Sterling, Chicago, Ill., deceased. S. Sterling, executrix. Curler spindle for hair wavers. 2,317,539; Apr. 27.

Lanham, William E., assignor to Columbia Baking Company, Atlanta, Ga. Slicing machine. 2,317,540; Apr. 27.

Lapointe Machine Tool Company, The. (See Bonnafe, Oliver W., assignor.)

Larchar, Arthur W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of hallow articles from polymeric compositions. 2,317,687; Apr. 27.

Larsen, Harold L. (See Burrell, P. L. H., and Larsen.)

Laskey, Clifford, Albany, Calif. Welder's electrode holder. 2,317,780; Apr. 27.

Lawyer, Ira B. (See Muller, J. A., and Lawyer.)

Leach, John M., Fredericksburg, Va., assignor to Filatex Corporation, New York, N. Y. Process and apparatus for handling elastic filamentary material. 2,317,921; Apr. 27.

Lear Avia, Inc. (See Lear, William P., assignor.)

Lear, William P., assignor, by mesne assignments, to Lear Avia, Inc., Piqua, Ohio. Drag device for antennas. 2,317,622; Apr. 27.

Lear, William P., Dayton, Ohio, assignor, by mesne assignments, to Lear Avia, Inc., Piqua, Ohio. Directional radio system. 2,317,922; Apr. 27.

Le Blond, R. K., Machine Tool Company, The. (See Groene, Willard L., assignor.)

Lebo, William H., and R. L. Simpson, Kansas City, Mo. Relief valve. 2,317,923; Apr. 27.

Leck, Karl R., Chicago, Ill. Can opener. 2,317,541; Apr. 27.

Lee, Arthur L., Oakmont, assignor, by mesne assignments, to Joy Manufacturing Company, Franklin, Pa. Vehicle drive. 2,317,623; Apr. 27.

Le Gette, Everett L. (See Hall, W. C., and Le Gette.)

Lehto, Vaino, Sudbury, Ontario, Canada. Fish lure. 2,317,781; Apr. 27.

Lendle, Carl R., Youngstown, Ohio. Garment steamer. 2,317,924; Apr. 27.

Lentz, Anton. (See Huber, Fritz, and Lentz.)

Leppla, Rudolph, Davenport, Iowa, assignor, by mesne assignments, to McConway & Torley Corporation, Pittsburgh, Pa. Car truck. 2,317,389; Apr. 27.

Leppla, Rudolph, Davenport, Iowa, assignor, by mesne assignments, to McConway & Torley Corporation, Pittsburgh, Pa. Car truck. 2,317,390; Apr. 27.

Leppla, Rudolph, Davenport, Iowa, assignor, by mesne assignments, to McConway & Torley Corporation, Pittsburgh, Pa. Car truck. 2,317,391; Apr. 27.

Levesque, Charles L. (See Cheetham, H. C., and Levesque.)

Levine, Irving E. (See Schultz, T. H., Levine, and Wellman.)

Levine, Max, assignor to Iowa State College Research Foundation, Ames, Iowa. System and method of treating sewage or other waste materials. 2,317,782; Apr. 27.

Lewis, Alkin. (See Barklie, R. H. D., and Lewis.)

Lewis, Benjamin F., Bayside, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Timing arrangement. 2,317,783; Apr. 27.

Lewis, Edgar P., & Sons, Inc. (See Goodwin, Herbert F., assignor.)

Lewis, Herbert I., Wrens, Ga. Timber cart. 2,317,784; Apr. 27.

Lewis, Lawrence L., Tucson, Ariz., assignor to American Optical Company, Southbridge, Mass. Gauge. 2,317,925; Apr. 27.

Lincoln-Schueter Floor Machinery Company. (See Backlund, John A., assignor.)

Lincoln, Wesley B., Hammond, Ind., assignor to B. V. Brunt, Buffalo, N. Y. Device for cleaning tubes. 2,317,542; Apr. 27.

Lindahl, Robert L., assignor to The Celotex Corporation, Chicago, Ill. Building construction. 2,317,926; Apr. 27.

Linde Air Products Company, The. (See Nicholson, W. B., and Jones, assignors.)

Linde Air Products Company, The. (See Thompson, I. P., and Meincke, assignors.)

Lindsey, Ernest E., Los Angeles, Calif., assignor to Insta-Freeze Corporation. Device for making frozen confections. 2,317,624; Apr. 27.

Link, Alfred. (See Kerth, M., and Link.)

Lionel Corporation, The. (See Bonanno, Joseph L., assignor.)

Livingston, Roy D., assignor to The Hoover Company, North Canton, Ohio. Suction cleaner. 2,317,543; Apr. 27.

Loftheim, Tor B., Oslo, Norway; vested in the Alien Property Custodian. Separator. 2,317,785; Apr. 27.

Loftus, Fred H., Pittsburgh, Pa. Combustion control. 2,317,927; Apr. 27.

Lord, Royal B., Fort Riley, Kans. Portable emplacement for machine guns. 2,317,392; Apr. 27.

Losey, Thomas B., Dallas, Tex., assignor to Halliburton Oil Well Cementing Company. Coring tool. 2,317,544; Apr. 27.

Lowe, Joe, Corporation. (See Ellis, John L., assignor.)

Lübbe, Heinrich F. A., deceased, late of Berlin, Germany; by O. Lübbe, administratrix, and E. Kruppa, Berlin, Germany; vested in the Alien Property Custodian. Plates and bodies to be applied on iron tools and machine members. 2,317,786; Apr. 27.

Lübbe, Ottilie, administratrix. (See Lübbe, H. F. A., and Kruppa.)

Lyon, George A., Allenhurst, N. J. Wheel structure. 2,317,393; Apr. 27.

Mack, Edward L., New York, N. Y. Fastener. 2,317,787; Apr. 27.

Madsen, Paul S., Bethany, and A. A. Arnold, Hamden, assignors to The Seamless Rubber Company, New Haven, Conn. Coupling. 2,317,545; Apr. 27.

Mallina, Rudolph F., Hastings on Hudson, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Switching device. 2,317,469; Apr. 27.

Mallory, Marion, Detroit, Mich. Carburetor for internal combustion engines. 2,317,625; Apr. 27.

Manning, Paul D. V. (See Peebles, D. D., and Manning.)

Marbon Corporation. (See Calvert, William C., assignor.)

Marino, John. (See Marino, Nick and J.)

Marino, Nick and J., Washington, D. C. Seal for bottles. 2,317,626; Apr. 27.

Markem Machine Company. (See Robbins, C. F., and Putnam, assignors.)

Marriott, Robert H., Brooklyn, N. Y., assignor to Finch Telecommunications, Inc., New York, N. Y. Facsimile reception medium. 2,317,789; Apr. 27.

Martell, Arnold T., Vancouver, British Columbia, Canada. Attachment for hair clippers. 2,317,928; Apr. 27.

Martin, Lester B., Columbus, Ohio. Calendar. 2,317,788; Apr. 27.

Martin, Otis C., Los Angeles, Calif. Valve. 2,317,627; Apr. 27.

Martin, Otis C., Los Angeles, Calif. Valve. 2,317,628; Apr. 27.

Marx, Frederick C., Cincinnati, assignor to The Heekin Can Company, Norwood, Ohio. Food canning. 2,317,470; Apr. 27.

Mason, William H., R. M. Boehm and G. G. Simpson, assignors to Masonite Corporation, Laurel, Miss. Process for making hardboard. 2,317,394; Apr. 27.

Masonite Corporation. (See Mason, W. H., Boehm and Simpson, assignors.)

Mathieson Alkali Works, Inc. (See Cunningham, George L., assignor.)
McCabe, Harry. (See Kirschenbaum, L., and McCabe.)
McCauley, Ernest G., Dayton, Ohio. Aircraft propeller hub. 2,317,629; Apr. 27.
McConway & Torley Corporation. (See Leppla, Rudolph, assignor.)
McDonald, Harrison G., Pasadena, Calif. Incendiary protective shovel. 2,317,688; Apr. 27.
McFadden, Ross, Hollywood, Calif. Hair curler. 2,317,929; Apr. 27.
McFadden, Ross, Hollywood, Calif. Barrette. 2,317,930; Apr. 27.
McGrath, Herbert J., Bloomington, and J. M. Lammedee, assignors to Wilson Engineering Corporation, Chicago, Ill. Blowoff cock. 2,317,546; Apr. 27.
McIntyre, Marion, Detroit, Mich. Tufting device. 2,317,914; Apr. 27.
McKinnon Columbus Chain Corporation. (See Winter, Otto W., assignor.)
McLaughlin, Robert W., Jr., Bedford Village, assignor to American Houses, Inc., New York, N. Y. Building structure. 2,317,621; Apr. 27.
McNally, James G. (See Dickey, J. B., and McNally.)
McRae, Don C., Miami Springs, Fla. Communication system. 2,317,547; Apr. 27.
Meacham, Larned A., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Selection system. 2,317,471; Apr. 27.
Medenwald, Arthur L., assignor to E. B. Spencer and G. B. Morris, copartners, doing business as Spencer & Morris, Los Angeles, Calif. Under-drive for traveling cranes, monorails and the like. 2,317,689; Apr. 27.
Medford Engineering Co. (See Tschirner, Frederick, assignor.)
Meincke, Edward. (See Thompson, I. P., and Meincke.)
Meissner, Kurt. (See Neugebauer, F., Franz, Decher, and Meissner.)
Mellor, Lewis L., Evanston, assignor to The Bell & Howell Company, Chicago, Ill. Optical system. 2,317,790; Apr. 27.
Menzies, William E., and C. J. Werner, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich. Motor control. 2,317,630; Apr. 27.
Mercantile-Commerce Bank and Trust Company, trustees, et al. (See Johnston, Harry, assignor.)
Mercier, Jean, Neuilly-sur-Seine, France; vested in the Alien Property Custodian. Deformable or elastic accumulator. 2,317,395; Apr. 27.
Merkel, Joseph F., assignor to General Railway Signal Company, Rochester, N. Y. Control machine for switch and signal control systems. 2,317,472; Apr. 27.
Meinl Textile Corporation. (See Goodloe, Alfred M., assignor.)
Metals & Controls Corporation. (See Vaughan, Victor G., assignor.)
Metals & Controls Corporation. (See Vaughan, V. G., and Bolesky, assignors.)
Meyer, August A., Maywood, Ill. Composition for preserving cut flowers. 2,317,631; Apr. 27.
Meyer, Maximillian C. (See Higgins, Edward, assignor.)
Miller, George H., Dearborn, Mich. Punch and die. 2,317,791; Apr. 27.
Miller, Kay, assignor to The Atwood Vacuum Machine Company, Rockford, Ill. Master cylinder for hydraulic braking systems. 2,317,473; Apr. 27.
Miller, Leonidas C., assignor, by direct and mesne assignments, of one-half to Eastman Oil Well Survey Company, Dallas, Tex., and one-half to Eastman Oil Well Survey Corporation, Long Beach, Calif. Means for surveying well bores. 2,317,632; Apr. 27.
Miller, Robert A., Tarentum, and M. M. Eakins, Ford City, Pa., assignors to Pittsburgh Plate Glass Company. Fitting for doors. 2,317,931; Apr. 27.
Miller, Samuel J., assignor to The Du Bois Soap Company, Cincinnati, Ohio. Detergent dispenser. 2,317,548; Apr. 27.
Milwaukee Safety Appliance Co. (See Reith, Joseph A., assignor.)
Mine Safety Appliances Company. (See Deike, George H., Jr., assignor.)
Mock, Oliver J., assignor to Theo. Alteneder & Sons, Philadelphia, Pa. Plotting board. 2,317,856; Apr. 27.
Monerieff, Robert W. (See Dreyfus, H., Monerieff and Hill.)
Monheim, Josef. (See Bestian, H., Nüsslein and Monheim.)
Montgomery, William A., London, England, assignor to International Standard Electric Corporation, New York, N. Y. Superregenerative receiver. 2,317,474; Apr. 27.
Moore, Leroy M., Folsom, Calif. Replacement point for rebuilding dragline bucket teeth. 2,317,932; Apr. 27.
Moore, William E., assignor to Delaware Engineering Corporation, Pittsburgh, Pa. Furnace electrode gland. 2,317,933; Apr. 27.
Morgan, Porter S., Weston, assignor to The Capewell Manufacturing Company, Hartford, Conn. Clamping device. 2,317,690; Apr. 27.
Morin, George G., Holyoke, Mass. Photographic enlarger. 2,317,691; Apr. 27.
Morin, George G., Holyoke, Mas. Photographic enlarger. 2,317,692; Apr. 27.
Morris, George B., et al. (See Medenwald, Arthur L., assignor.)
Morris, Thomas C., Belmont, and F. S. Gregory, Jr., Burlington, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J. Shoe bottom unit and making the same. 2,317,475; Apr. 27.
Moser, Johannes, Berlin-Tegel, Germany; vested in the Alien Property Custodian. Treating tobacco. 2,317,792; Apr. 27.
Mourey, Charles R., Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Business machine mounting means. 2,317,934; Apr. 27.
Mullen, John B. (See Crowley, C. A., and Mullen.)
Muller, Johan A., and I. B. Lawyer, Mount Gilead, Ohio, assignors to The Hydraulic Development Corporation, Inc., Wilmington, Del. Electrically controlled reciprocating fluid motor. 2,317,549; Apr. 27.
Muligardt, Alex S. (See Cherry, C. W., and Muligardt.)
Murray, James A., Paoli, assignor to Warner Company, Devault, Pa. Separating calcium values from magnesium values. 2,317,396; Apr. 27.
Mycalex Corporation of America. (See Pereles, Maurice, assignor.)
Myerson, Simon, Brookline, Mass. Motor vehicle control mechanism. 2,317,935; Apr. 27.
National Automotive Fibres, Inc. (See Bolen, E. P., and Detrick, assignors.)
National Automotive Fibres, Inc. (See Faris, Harold P., asignor.)
National Postal Meter Company. (See Ryan, Commodore D., assignor.)
National-Standard Company. (See Adler, O. E., and Krinowitz, assignors.)
National Starch Products Inc. (See Fuller, Arthur D., assignor.)
National Steel Corporation. (See Joslin, Charles B., assignor.)
National Tube Company. (See Nielsen, Peer D., assignor.)
Neubert, Martin, Friedrichshafen-Manzell-on-the Bodensee, Germany; vested in the Alien Property Custodian. Rivet connection. 2,317,794; Apr. 27.
Neugebauer, Franz, Allach, near Munich, A. Franz, Dessauu-Ziebigk, S. Decher and K. Meissner, Dessau, Germany; vested in the Alien Property Custodian. Reaction nozzle. 2,317,795; Apr. 27.
Nevius, John W. (See Betts, O. R., Nevius, and Hendrickson.)
Newman, David F., Mountain Lakes, N. J., assignor to Trans-Lux Corporation, New York, N. Y. Projection apparatus. 2,317,476; Apr. 27.
Newport Industries, Inc. (See Oliver, A. F., and Palmer, assignors.)
Nichols Engineering & Research Corporation. (See Rowen, Robert W., assignor.)
Nicholson, William B., and E. P. Jones, Elizabeth, N. J., assignor to The Linde Air Products Company. Apparatus for cutting or flame-machining metal. 2,317,936; Apr. 27.
Nicks, H. S., executor, et al. (See Paxton, Walter H.)
Nielebock, Walter, Babelsberg-Pottsdam, Germany; vested in the Alien Property Custodian. Blast tank for liquid pumps. 2,317,796; Apr. 27.
Nielsen, Peer D., Lorain, Ohio, assignor to National Tube Company. Method for the production of steel. 2,317,793; Apr. 27.
Noblitt-Sparks Industries, Inc. (See Booth, Earl C., assignor.)
North, George W., Royceville, Wis. Message dispatcher for railroads. 2,317,633; Apr. 27.
Nostrip, Inc. (See Johnson, J. M., and Brown, assignors.)
Noyes, Harry A., Newton, Mass. Conditioning foods. 2,317,397; Apr. 27.
Nüsslein, Joseph. (See Bestian, H., Nüsslein, and Monheim.)
Nutt, Kenneth A., Delaware, Ohio. Portable heel press and drier. 2,317,477; Apr. 27.
Nyboer, Stuart, Webster, N. Y. Waste vault. 2,317,693; Apr. 27.
Nystrom, Karl F., Milwaukee, Wis., E. S. Beckette, East St. Louis, Ill., and V. L. Green, Milwaukee, Wis., said Beckette assignor to General Steel Castings Corporation, Granite City, Ill. Railway truck structure. 2,317,398; Apr. 27.
Nystrom, Karl F., Milwaukee, Wis., E. S. Beckette, East St. Louis, Ill., and V. L. Green, Milwaukee, Wis., said Beckette assignor to General Steel Castings Corporation, Granite City, Ill. Railway truck. 2,317,399; Apr. 27.
Oberländer, Ewald. (See Hannemann, H., and Oberländer.)
O'Brien, Joseph F., Jersey City, N. J., assignor to John B. Pierce Foundation, New York, N. Y. Electrical wiring system. 2,317,964; Apr. 27.
O'Connor, William E. (See Peters, William A., assignor.)
Ohio Brass Company, The. (See Chandler, Homer P., assignor.)
Oliver, Anthony F., and R. C. Palmer, assignors to Newport Industries, Inc., Pensacola, Fla. Treating tall oil and product obtained thereby. 2,317,797; Apr. 27.
Olsen, Anders C., Gwynedd, Pa. Building construction. 2,317,634; Apr. 27.
Olsen, Anders C., Gwynedd, Pa. Building construction. 2,317,635; Apr. 27.
Ormond, John J., assignor of two-thirds to J. D. Ramser, Boston, Mass. Projection device. 2,317,550; Apr. 27.

Ormond, John J., assignor of two-thirds to J. D. Ramsey, Boston, Mass. Etching. 2,317,551; Apr. 27.
Ott, Clarence J., assignor to Shell Development Company, San Francisco, Calif. Paraffin alkylation process. 2,317,694; Apr. 27.
Otto, Carl A., assignor to Johnson Service Company, Milwaukee, Wis. Damper. 2,317,798; Apr. 27.
Ozella, Vincent J. (See Draper, R. C., and Ozella.)
Packard Motor Car Company. (See Vincent, Jesse G., assignor.)
Palmer, Robert C. (See Oliver, A. F., and Palmer.)
Parker, Clark W., Dobbs Ferry, N. Y. Dual tire inflater. 2,317,636; Apr. 27.
Parsons, John S., Swissvale, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electrical distribution system. 2,317,552; Apr. 27.
Parva Products Company. (See White, Paul W., assignor.)
Paulus, Charles L., and R. K. Stout, Dayton, Ohio, assignors of one-half to J. B. Brady, Washington, D. C. Automatic steering and control mechanism. 2,317,400; Apr. 27.
Paxton, Geraldine, executor, et al. (See Paxton, Walter H., assignor.)
Paxton, Hale. (See Paxton, Walter H.)
Paxton, Walter H., also known as Hale Paxton, deceased, late of Riverside, by G. Paxton and H. S. Nicks, Riverside, Calif., executors, assignors to Food Machinery Corporation, San Jose, Calif. Lid for multiple boxes and applying the same. 2,317,478; Apr. 27.
Peebles, David D., Berkeley, and P. D. V. Manning, Berkeley Woods, assignors to Golden State Company, Ltd., San Francisco, Calif. Corn sugar product and method. 2,317,479; Apr. 27.
Penrose, William F., Irvington, N. J., assignor to Empire Electric Brake Corporation. Electric brake controller. 2,317,402; Apr. 27.
Pepsodent C., The. (See Rider, Theodore H., assignor.)
Pereles, Maurice, Ossining Township, Westchester County, assignor to Mycalex Corporation of America, New York, N. Y. Line insulators. 2,317,799; Apr. 27.
Perkins Glue Company. (See Dennis, Raymond L., assignor.)
Peter, William J., New York, and A. C. Kaestner, Crestwood, assignors to Aqua Systems Incorporated, New York, N. Y. Hydraulic storage and dispensing system. 2,317,800; Apr. 27.
Peters, Norman J., assignor to Damrow Brothers Company, Fond du Lac, Wis. Pasteurizer temperature control. 2,317,480; Apr. 27.
Peters, William A., assignor of one-half to W. E. O'Connor, Chicago, Ill. Binder. 2,317,345; Apr. 27.
Peterson, Carl G., and E. B. Peterson, Providence, R. I. Friction feed. 2,317,481; Apr. 27.
Peterson, Erick B. (See Peterson, Carl G. and E. B.)
Peterson, Eugene, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Wave generating system. 2,317,482; Apr. 27.
Peterson, Raymond H., Hayward, Calif. Power shear. 2,317,553; Apr. 27.
Peterson, Robert A. (See Donbeck, L. D., and Peterson.)
Petho, John A. (See Landt, G. E., and Petho.)
Pheneger, Burt E. (See Ayers, A. L., and Pheneger.)
Phillips, Gerald E. (See Hewlett, A. P., and Phillips.)
Phillips, Harold P., assignor to Hastings Manufacturing Company, Hastings, Mich. Piston ring. 2,317,637; Apr. 27.
Phillips, Harold P., and W. C. Rivers, assignors to Hastings Manufacturing Company, Hastings, Mich. Oil line metering plug. 2,317,638; Apr. 27.
Phillips Petroleum Company. (See Frey, Frederick E., assignor.)
Pierce, John B., Foundation. (See O'Brien, Joseph F., assignor.)
Pittsburgh Plate Glass Company. (See Ballintine, Elmer J., assignor.)
Pittsburgh Plate Glass Company. (See Dennison, Brook J., assignor.)
Pittsburgh Plate Glass Company. (See Galey, Henry J., assignor.)
Pittsburgh Plate Glass Company. (See Jenkins, John D., assignor.)
Pittsburgh Plate Glass Company. (See Miller, R. A., and Eakins, assignors.)
Pittsburgh Plate Glass Company. (See Sherts, James H., assignor.)
Plass, Robert H., Upper Montclair, N. J. Apparatus for handling hat fur carrier material or the like. 2,317,937; Apr. 27.
Pollard, Charles E., Hohokus, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electric switch. 2,317,695; Apr. 27.
Powell, Norman. (See Hudson, L. G., and Powell.)
Power, Howard S., Pittsburgh, Pa. Garden tool. 2,317,801; Apr. 27.
Preis, Carl G., assignor to American Can Company, New York, N. Y. Manufacturing tin plate. 2,317,403; Apr. 27.
Przyborowski, Stanilaus. (See Whitt, S. A., and Przyborowski.)
Pullin, Cyril G., Genista, Newton Mearns, Scotland, assignor to Autogiro Company of America, Willow Grove, Pa. Rotary wing aircraft. 2,317,342; Apr. 27.
Pulp Reproduction Company. (See Risch, Arthur H., assignor.)
Punga, Franklin, Darmstadt, Germany; vested in the Alien Property Custodian. Locomotive for high-voltage direct current. 2,317,802; Apr. 27.
Putnam, David F. (See Robbins, C. F., and Putnam.)
Putt, Harlie O., Elkhart, Ind. High-speed hydraulic turbine transmission or drive. 2,317,938; Apr. 27.
Radio Corporation of America. (See Hultquist, J. Albert, assignor.)
Radio Corporation of America. (See Katzin, Martin, assignor.)
Radio Corporation of America. (See Schoenborn, Ferdinand J. W., assignor.)
Radio Corporation of America. (See Usselman, George L., assignor.)
Rady, William J. (See Claytor, E. M., and Rady.)
Rakos, Alexander, London, England. Welding, soldering, and fusing metals together. 2,317,483; Apr. 27.
Ramsey, Joseph D. (See Ormond, John J., assignor.)
Ray, William A., Glendale, Calif. Fluid control valve. 2,317,639; Apr. 27.
Ray, William A., Glendale, Calif. Control system. 2,317,640; Apr. 27.
Rayner, Claude A. A. (See de Bruyne, N. A., and Rayner.)
Rearwin, Earle W., assignor of one-half to F. Dobmeier, Buffalo, N. Y. Casing head. 2,317,404; Apr. 27.
Reed, Albert L., et al. (See Cook, O. O., and Watson, assignors.)
Reeves, Edward D., Cranford, and K. K. Kearby, Elizabeth, N. J., assignors to Standard Oil Development Company. Catalytic process. 2,317,803; Apr. 27.
Reising, Eugene G., Hartford, Conn. Firearm. 2,317,641; Apr. 27.
Reith, Joseph A., assignor to Milwaukee Safety Appliance Co., Milwaukee, Wis. Safety belt. 2,317,346; Apr. 27.
Reppe, Walter, H. Krzikalla, O. Dornheim, and R. Sauerbier, Ludwigshafen-on-the-Rhine, Germany; vested in the Alien Property Custodian. N-vinyl lactams. 2,317,804; Apr. 27.
Research Corporation. (See Hauser, Ernst A., assignor.)
Resinous Products & Chemical Company, The. (See Cheetham, H. C., and Levesque, assignors.)
Reubenstein, Wilton. (See Johnston, Harry.)
Rex Manufacturing Company. (See Hull, M. R., and Summers, assignors.)
Rich, Edward D., Tacoma, Wash. Imparting greaseproof characteristics to paper. 2,317,696; Apr. 27.
Richmond, William E., Kenilworth, and A. D. Ames, Galesburg, assignors to Automatic Canteen Company of America, Chicago, Ill. Cooling system for beverage vending machines. 2,317,484; Apr. 27.
Richter, Kurt, Berlin, Germany; vested in the Alien Property Custodian. Current regulating resistance. 2,317,805; Apr. 27.
Riddell, John T., Evanston, Ill. Inflated ball and making same. 2,317,939; Apr. 27.
Rider, Theodore H., Hinsdale, assignor to The Pepsodent Co., Chicago, Ill. Brush. 2,317,485; Apr. 27.
Riegel, Roy E. (See Dale, James F., assignor.)
Risch, Arthur H., Wauwatosa, assignor to Pulp Reproduction Company, Milwaukee, Wis. Bottle package. 2,317,554; Apr. 27.
Rivers, Walter C. (See Phillips, H. P., and Rivers.)
Robbins, Charles F., and D. F. Putnam, assignors to Markem Machine Company, Keene, N. H. Marking machine. 2,317,940; Apr. 27.
Robinette, Hillary, assignor to Commercial Solvents Corporation, Terre Haute, Ind. Surface active agent. 2,317,555; Apr. 27.
Robinson, Preston, Williamstown, assignor to Sprague Specialties Co., North Adams, Mass. Electrical capacitor. 2,317,642; Apr. 27.
Rogers, William B., Baltimore, Md. Hopper agitating means. 2,317,643; Apr. 27.
Röhm & Haas Company. (See Hester, William F., assignor.)
Röhm, Wilhelm. (See Hofmann, R. and Röhm.)
Rolscreen Company. (See Knyper, Peter H., assignor.)
Rowen, Robert W., Great Neck, assignor to Nichols Engineering & Research Corporation, New York, N. Y. Incineration of liquid sludge or the like. 2,317,941; Apr. 27.
Rubinstein, Ann. (See Johnston, Harry.)
Rubinstein, Blanche. (See Johnston, Harry.)
Rubinstein, Louise. (See Johnston, Harry.)
Rubinstein, Peggy. (See Johnston, Harry.)
Ruggeri, Peter, Odell, Ill. Tie puller. 2,317,806; Apr. 27.
Russell, John D., Sugarcreek Township, Venango Co., Pa. Shuttle car. 2,317,644; Apr. 27.
Russel, Philip S., assignor to Detroit Lubricator Company, Detroit, Mich. Liquid level controlling means. 2,317,556; Apr. 27.
Rutten, Paul G., United States Army. Device for removing and installing camshaft bushings. 2,317,405; Apr. 27.
Ryan, Commodore D., Los Angeles, Calif., assignor to National Postal Meter Company, Inc., Rochester, N. Y. Article handling device. 2,317,645; Apr. 27.
Ryan, William H., River Forest, Ill. Pants presser. 2,317,406; Apr. 27.
Ryder, John D., Cleveland Heights, Ohio, assignor to Bailey Meter Company. Telemetric system. 2,317,807; Apr. 27.

Ryland, Lloyd B. (See Tamele, Miroslav, and Ryland.)
Sabini, Frederick, Salem, N. J. Irritant gas discharge device. 2,317,942; Apr. 27.
Salfisberg, Leroy L., South Orange, assignor to Ivers-Lee Company, Newark, N. J. Gummed tape dispenser and applier. 2,317,943; Apr. 27.
Sallmann, Richard. (See Graenacher, C., and Sallmann.)
Salmon, Reginald D. (See Thompson, A. E., and Salmon.)
Samiran, David, Fairfield, Ohio. Fuel cock. 2,317,407; Apr. 27.
Sampson, Frederick W., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Freezing tray. 2,317,646; Apr. 27.
Sandhaas, Wilhelm, Mannheim, Germany; vested in the Alien Property Custodian. Preparing phenylacetylene. 2,317,808; Apr. 27.
Sauer, Hans, Dresden, Germany; vested in the Alien Property Custodian. Finder for photographic purposes. 2,317,809; Apr. 27.
Sauer, Hans, Dresden, Germany; vested in the Alien Property Custodian. Finder for photographic purposes. 2,317,810; Apr. 27.
Sauerbier, Rudolf. (See Reppe, W., Krzikalla, Dornheim and Sauerbier.)
Saylor, Michael F., Elyria, Ohio. Nut locking device. 2,317,347; Apr. 27.
Sayre, William H., Essex Fells, assignor to American Abrasive Metals Company, Irvington, N. J. Manufacture of treads. 2,317,960; Apr. 27.
Scaife Company. (See Duden, Emil G., assignor.)
Schaefer, Joseph K., Hollywood, Calif. Cutting tool for BX armored cable and tubing. 2,317,944; Apr. 27.
Scheiber, William J., Schenectady, N. Y., assignor to General Electric Company. Coated metal wire. 2,317,811; Apr. 27.
Schetty, Guido. (See Conzetti, A., and Schetty.)
Schmid, Walter, Philadelphia, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Governor apparatus. 2,317,812; Apr. 27.
Schneider, George, Montclair, N. J., assignor to Celanese Corporation of America. Production of artificial straw. 2,317,486; Apr. 27.
Schneider, Wendel M., Oak Park, Ill. Method and apparatus for producing and dispensing sanitary mouthpieces for bottles. 2,317,408; Apr. 27.
Schoenborn, Ferdinand J. W., Riverhead, N. Y., assignor to Radio Corporation of America. Shielding. 2,317,813; Apr. 27.
Schreiber, Richard S. (See Hanford, W. E., and Schreiber.)
Schuchmann, Hans, Berlin-Spandau, and Walter Steinmetz, Berlin-Charlottenburg, Germany; vested in the Alien Property Custodian. Cooling traps, primarily for condensing vapors of mercury and the like. 2,317,814; Apr. 27.
Schuelke, Annelotte, administratrix. (See Schuelke, Erich.)
Schuelke, Erich, deceased, Saddle River, N. J., by Annelotte Schuelke, administratrix, Saddle River, N. J. Impregnation of fibrous materials. 2,317,487; Apr. 27.
Schultz, Roy M. (See Folds, G. R., and Schultz.)
Schultz, Thomas H., Richmond, I. E. Levine and H. B. Wellman, Berkeley, assignors to Standard Oil Company of California, San Francisco, Calif. Compression ignition motor fuel. 2,317,968; Apr. 27.
Schumann, Seymour, New York, N. Y. Clamping means for wound clips. 2,317,815; Apr. 27.
Scott, Carl F., Milford, Conn., assignor to General Electric Company. Refrigeration apparatus. 2,317,816; Apr. 27.
Scott, Thomas R., London, England, assignor to International Standard Electric Corporation, New York, N. Y. Electric power cable. 2,317,488; Apr. 27.
Seull, William C., Darling, Pa. Incendiary bomb trap. 2,317,489; Apr. 27.
Seamless Rubber Company, The. (See Madsen, P. S., and Arnold, assignors.)
Seaton, John H., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Stress-relieving plastics. 2,317,409; Apr. 27.
Secretary of the Interior, and his successor or designee, to the Government of the United States, as represented by the. (See Shelton, Francis K., assignor.)
Seely, Thomas H., Melrose, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Heel attaching machine. 2,317,410; Apr. 27.
Senkus, Murray, assignor to Commercial Solvents Corporation, Terre Haute, Ind. Recovery of nitro compounds from aqueous alcoholic mixtures containing nitromethane. 2,317,557; Apr. 27.
Sessions Clock Company, The. (See Fritz, Kenneth R., assignor.)
Seyferth, Harold N., East Detroit, assignor to Ex-Cell-O Corporation, Detroit, Mich. Dressing mechanism. 2,317,411; Apr. 27.
Shaffer, Cleve F., San Francisco, Calif. Military tank. 2,317,412; Apr. 27.
Shell Development Company. (See Ott, Clarence J., assignor.)
Shell Development Company. (See Ott, Clarence J., assignor.)
Shell Development Company. (See Tamele, M., and Ryland, assignor.)
Shelton, Francis K., Boulder City, Nev., assignor to the Government of the United States, as represented by the Secretary of the Interior, and his successor or designee. Concentration of boron chemically combined from its ores by auto-flotation. 2,317,413; Apr. 27.
Sherts, James H., Pittsburgh, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Bullet resistant glazing unit. 2,317,945; Apr. 27.
Signal Engineering & Manufacturing Company. (See Cypser, Hugo F., assignor.)
Signal Service Corporation. (See Haggart, John C., Jr., assignor.)
Silex Company, The. (See Bassett, Edward H., assignor.)
Silverman, Jacob, New York, N. Y. Fabric edge-folding and pressing device. 2,317,817; Apr. 27.
Silvey, Edwin C., Jamaica, N. Y. Internal combustion engine. 2,317,946; Apr. 27.
Simpson, Emory G., assignor to Ternstedt Manufacturing Company, Detroit, Mich. Window regulator. 2,317,490; Apr. 27.
Simpson, Emory G., assignor to Ternstedt Manufacturing Company, Detroit, Mich. Power operated window regulator. 2,317,697; Apr. 27.
Simpson, George G. (See Mason, W. H., Boehm and Simpson.)
Simpson, Roy L. (See Lebo, W. H., and Simpson.)
Simunds, Oscar, Milton, N. Dak. Ice creeper. 2,317,647; Apr. 27.
Singer Manufacturing Company, The. (See Hale, Arthur N., assignor.)
Siqveland, Ivar E., St. Paul, Minn. Process and apparatus for producing intraosseous anesthesia. 2,317,648; Apr. 27.
Skulkety, Joseph, Trenton, N. J. Control stick for aircraft. 2,317,818; Apr. 27.
Slocomb, F. F. Corporation. (See Stout, F. S., Bond, and Ladner, assignors.)
Smith, Arthur E., Los Angeles, Calif. Hypodermic syringe construction. 2,317,558; Apr. 27.
Smith, Drum and Company. (See Drum, H. S., and Dodson, assignors.)
Smith, Harvey N., Washington, D. C. Laminated toboggan. 2,317,414; Apr. 27.
Smith, Helen H., New York, N. Y. Undergarment. 2,317,819; Apr. 27.
Smith, Mabelle C., Brooklyn, N. Y. Lady's purse. 2,317,820; Apr. 27.
Smith, Roscoe B., assignor to Hercules Powder Company, Wilmington, Del. Explosive cartridge assembly. 2,317,415; Apr. 27.
Smith, Sanford B. (See Kvalnes, D. E., Smith and Walling.)
Society of Chemical Industry in Basle. (See Graenacher, C., and Sallmann, assignors.)
Socony-Vacuum Oil Company. (See Eichner, Edward R., assignor.)
Socony-Vacuum Oil Company. (See Utterback, Ernest, assignor.)
Soday, Frank J., Upper Darby, Pa., assignor to The United Gas Improvement Company. Polymerized styrene-polyisoprene resin product. 2,317,857; Apr. 27.
Soday, Frank J., Upper Darby, Pa., assignor to The United Gas Improvement Company. Styrene-polybutadiene copolymer. 2,317,858; Apr. 27.
Soday, Frank J., Upper Darby, Pa., assignor to The United Gas Improvement Company. Styrene–polypiperylene copolymer. 2,317,859; Apr. 27.
Solakian, Haig, New Haven, Conn. Reclaiming of rubber. 2,317,491; Apr. 27.
Sörensen, Emil, New York, N. Y. Display tablet container. 2,317,860; Apr. 27.
Sorrentino, Vincent, Providence, R. I., assignor to Uncas Manufacturing Company. Adapter for initialing machines. 2,317,649; Apr. 27.
Speakman, John B., Far Headingley, Leeds, and N. H. Chamberlain, Headingley, Leeds, assignors to Cefoil Limited, Maidenhead, England. Manufacture of artificial textile yarns or films. 2,317,492; Apr. 27.
Specialties Development Corporation. (See Thomsen, William A. V., assignor.)
Speicher, Frank S., and L. C. Hauer, assignors to M. E. Cunningham Company, Pittsburgh, Pa. Stamping die. 2,317,861; Apr. 27.
Spencer, Earl B., et al. (See Medenwald, Arthur L., assignor.)
Spencer & Morris. (See Medenwald, Arthur L., assignor.)
Sperry Gyroscope Company. (See Hull, Harvard L., assignor.)
Sperry-Sun Well Surveying Company. (See Kothny, Gottlank L., assignor.)
Sprague Specialties Co. (See Robinson, Preston, assignor.)
Staines Kitchen Equipment Company Limited. (See Varley, Ernest V., assignor.)
Standard Oil Company, The. (See Burk, Robert E., assignor.)
Standard Oil Company, The. (See Burk, R. E., and Hughes, assignors.)
Standard Oil Company, The. (See Burk, R. E., and Kropp, assignors.)
Standard Oil Company of California. (See Schultz, T. H., Levine, and Wellman, assignors.)
Standard Oil Development Company. (See Bays, George S., Jr., assignor.)

Standard Oil Development Company. (See Cook, George B., assignor.)
Standard Oil Development Company. (See Frolich, Per K., and Gleason, assignors.)
Standard Oil Development Company. (See Hemminger, Charles E., assignor.)
Standard Oil Development Company. (See Hewlett, A. F., and Phillips, assignors.)
Standard Oil Development Company. (See Holloway, F. A. L., and Wilkes, assignors.)
Standard Oil Development Company. (See Reeves, E. D., and Kearby, assignors.)
Standish, Milton R. (See Dooley, George W., assignor.)
Stanley, Alfred F., Freeport, Ill. Comminuting apparatus. 2,317,416; Apr. 27.
Stein, Hermann, Madgeburg, Germany; vested in the Alien Property Custodian. Copyholder. 2,317,821; Apr. 27.
Steinmetz, Walter. (See Schuchmann, H., and Steinmetz.)
Stelter, Walter W. P., Echo, Minn. Band snapper for corn husking machines. 2,317,822; Apr. 27.
Sterling, Bernard A. (See Langos, Otto A., assignor.)
Sterling, Sara, executrix. (See Langos, Otto A.)
Stevens, Myles R., New Marlboro, Mass. Rawhide hammer insert. 2,317,862; Apr. 27.
Stieff, Lorin R. (See Athey, S. W., and Stieff.)
Stiles, John C. (See Hyland, D. F., Stiles, and H. L. and J. Brenner.)
Stokes, F. J. Machine Company. (See Strauss, William, assignor.)
Stokes, F. J. Machine Company. (See Westin, Charles J., assignor.)
Stotz, Charles K., Farmington, assignor to The Cha-Gobe Company, Hartford, Conn. Sewing machine mechanism. 2,317,698; Apr. 27.
Stout, Frederick S., Cynwyd, Pa., W. G. Bond, Holly Oak, Del., and L. A. Ladner, Camden, N. J., assignors to F. F. Slocomb Corporation, Wilmington, Del. Ironing machine. 2,317,493; Apr. 27.
Stout, George P., Baltimore County, Md., assignor to Coca-Cola Company, Wilmington, Del. Detecting foreign ingredients in closed containers. 2,317,559; Apr. 27.
Stout, Raymond K. (See Paulus, C. L., and Stout.)
Stratford, Herbert R., Cleveland, Ohio, assignor to The Stratmore Company, Wilmington, Del. Coated abrasive. 2,317,650; Apr. 27.
Stratmore Company, The. (See Stratford, Herbert R., assignor.)
Strauss, William, Philadelphia, Pa., assignor to F. J. Stokes Machine Company. Screw cap molding machine. 2,317,823; Apr. 27.
Stroup, Ernest, Homerville, Ohio. Adjustable mold board. 2,317,560; Apr. 27.
Strutt, Maximiliaan J. O., and A. van der Ziel, Eindhoven, Netherlands; vested in the Alien Property Custodian. High frequency amplifier circuits. 2,317,824; Apr. 27
Sturtevant, B. F., Company. (See Dawson, Fred C., assignor.)
Suess, Herbert M., Philadelphia, Pa. Knitting machine and knitting. 2,317,417; Apr. 27.
Sullam, Samuel D., London, England. Electric lamp holder and the like. 2,317,863; Apr. 27.
Summers, Emmett P. (See Hull, M. R., and Summers.)
Svoboda, Antonin, Forest Hills, assignor to Abax Corporation, New York, N. Y. Variable speed transmission. 2,317,418; Apr. 27.
Swofford, Peter J., Fort Worth, Tex. Fabric airless tire. 2,317,864; Apr. 27.
Talbot, Geoffrey W., Buxton, England, assignor to Imperial Chemical Industries Limited. Automatic bag filling and weighing machine. 2,317,865; Apr. 27.
Talbot, Richard C., assignor to Wright's Automatic Tobacco Packing Machine Company, Durham, N. C. Receptacle. 2,317,651; Apr. 27.
Tamele, Miroslav, Oakland, and L. B. Ryland, El Cerrito, assignors to Shell Development Company, San Francisco, Calif. Electrochemical halohydrination and electrode regeneration. 2,317,866; Apr. 27.
Taylor, Ewing H., and W. S. Carter; said Taylor assignor to W. S. Carter, Dallas, Tex. Display easel. 2,317,867; Apr. 27.
Taylor, Galen M., Cooper, Tex., L. R. Bradshaw, Herndon, Va., and S. G. Green, Gray, Ga. Fire control system. 2,317,419; Apr. 27.
Taylor, William E., Riverside, Conn., assignor to American Can Company, New York, N. Y. Container. 2,317,420; Apr. 27.
Teas, John A., Sr., Des Moines, Iowa. Strap for anchoring duplex electric conductors. 2,317,825; Apr. 27.
Templin, Richard L., New Kensington, Pa. Materials testing grip. 2,317,826; Apr. 27.
Ternstedt Manufacturing Company. (See Cooley, Floyd A., assignor.)
Ternstedt Manufacturing Company. (See Simpson, Emory G., assignor.)
Tholand, Nils K. G., New York, N. Y. Welding rod. 2,317,421; Apr. 27.
Thomas, Charles L., assignor to Universal Oil Products Company, Chicago, Ill. Reactivation of spent catalysts. 2,317,494; Apr. 27.
Thompson, Alfred E., and R. D. Salmon, assignors to Creed and Company Limited, Croydon, England. Printing telegraph apparatus. 2,317,496; Apr. 27.
Thompson, Allan M., assignor to Gaw-O'Hara Envelope Company, Chicago, Ill. Envelope. 2,317,497; Apr. 27.
Thompson, Arthur S., Ontario, Calif. Automobile door lock. 2,317,699; Apr. 27.
Thompson, Arthur S., Ontario, Calif. Door lock. 2,317,700; Apr. 27.
Thompson, Ivan P., Elizabeth, and E. Meincke, Scotch Plains, N. J., assignors to The Linde Air Products Company. Desurfacing apparatus and process. 2,317,495; Apr. 27.
Thompson Products Incorporated. (See Townhill, Arthur, assignor.)
Thomsen, William A. V. Montclair, assignor to Specialties Development Corporation, Bloomfield, N. J. Valve. 2,317,422; Apr. 27.
Tinnerman, George A., assignor to Tinnerman Products, Inc., Cleveland, Ohio. Clip fastener. 2,317,561; Apr. 27.
Tinnerman Products, Inc. (See Tinnerman, George A., assignor.)
Tipaloy, Incorporated. (See Fletcher, James, assignor.)
Tizzard, Thomas W., Jr., Downers Grove, Ill., assignor to The Union Switch and Signal Company, Swissvale, Pa. Railway signaling apparatus. 2,317,562; Apr. 27.
Tipton, William D., Baltimore, Md. Hydrodynamic transmission. 2,317,498; Apr. 27.
Toney, John R., Los Angeles, Calif. Electric eye curb indicator. 2,317,652; Apr. 27.
Torrington Manufacturing Co. (See Upson, Walter L., assignor.)
Townhill, Arthur, assignor to Thompson Products Incorporated, Cleveland, Ohio. Quick disconnect coupling. 2,317,827; Apr. 27.
Trans-Lux Corporation. (See Newman, David F., assignor.)
Treadway, Robert H. (See Boller, E. R., Hanthorn and Treadway.)
Treverton, Richard W., assignor to Trico Products Corporation, Buffalo, N. Y. Window operating mechanism. 2,317,966; Apr. 27
Trico Products Corporation. (See Treverton, Richard W., assignor.)
Trowell, William W., Greenville, S. C., assignor to Hercules Powder Company, Wilmington, Del. Finishing Textiles. 2,317,499; Apr. 27.
Trumbull Manufacturing Company, The. (See Anderson, William A., assignor.)
Truscon Steel Company. (See Blanco, Henry, assignor.)
Tschirner, Frederick, assignor to Medford Engineering Co., Medford, N. J. Preparing a calcined non-slaking dolomitic material for removing carbon dioxide from water. 2,317,961; Apr. 27.
Tucker, Roland E. (See Hepner, L. H., and Tucker.)
Tucker, Warren R., Dayton, Ohio, assignor to The Hydraulic Development Corp. Inc., Wilmington, Del. Hydraulic brake. 2,317,563; Apr. 27.
Turenne, Wilfred J., Fayville, Mass. Thermostatic switch. 2,317,828; Apr. 27.
Turner, Luther B., Roselle Park, N. J., assignor, by mesne assignments, to Jasco, Incorporated. The polymerization of isobutylene containing material at low temperatures. 2,317,868; Apr. 27.
Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Guard for paper indicated dobbies. 2,317,564; Apr. 27.
Tuttle & Kift, Inc. (See Tuttle, William R., assignor.)
Tuttle, William R., Riverside, assignor to Tuttle & Kift, Inc., Chicago, Ill. Electric heater control. 2,317,967; Apr. 27.
Tyler, John M., West Hartford, assignor to United Aircraft Corporation, East Hartford, Conn. Flexible support. 2,317,500; Apr. 27.
Tyler, John M., West Hartford, assignor to United Aircraft Corporation, East Hartford, Conn. Friction damped engine mount. 2,317,501; Apr. 27.
Ullman, Roy, Roslyn, assignor to The Brown Instrument Company, Philadelphia, Pa. Measuring instrument. 2,317,701; Apr. 27.
Uncas Manufacturing Company. (See Sorrentino, Vincent, assignor.)
Underwood Elliott Fisher Company. (See Mourey, Charles R., assignor.)
Underwood, James W. (See D'Alelio, G. F., and Underwood.)
Union Switch and Signal Company, The. (See Tizzard, Thomas W., Jr., assignor.)
United Aircraft Corporation. (See Tyler, John M., assignor.)
United Gas Improvement Company, The. (See Soday, Frank J., assignor.)
United Shoe Machinery Corporation. (See Eastman, Fred C., assignor.)
United Shoe Machinery Corporation. (See Ballard, Milton H., assignor.)
United Shoe Machinery Corporation. (See Morris, T. C., and Gregory, Jr., assignors.)
United Shoe Machinery Corporation. (See Seely, Thomas H., assignor.)
United States Harmonica Corporation, The. (See Wetzler, C. E., and Boehm, assignors.)

U. S. Pipe Bending Co. (See Wallace, Philip B., assignor.)
United States Rubber Company. (See Howe, Harold S., assignor.)
Universal Camera Corporation. (See Kende, G., and Cazin, assignors.)
Universal Oil Products Company. (See Benedict, Wayne L., assignor.)
Universal Oil Products Company. (See Flock, Bernard J., assignor.)
Universal Oil Products Company. (See Thomas, Charles L., assignor.)
Upson, Walter L., Litchfield, assignor to The Torrington Manufacturing Co., Torrington, Conn. Propeller type ventilator fan. 2,317,502; Apr. 27.
Urmetz, Walter W., Parma, assignor to The Ferro Engineering Company, Cleveland, Ohio. Stripping mechanism. 2,317,565; Apr. 27.
Usselman, George L., Rocky Point, N. Y., assignor to Radio Corporation of America. Transmission line. 2,317,503; Apr. 27.
Utterback, Ernest, Upper Darby, Pa., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Apparatus for coking oils. 2,317,566; Apr. 27.
Van den Broek, Gerhard J., Nijmegen, Netherlands, vested in the Alien Property Custodian. Apparatus for the manufacture of photographic prints. 2,317,655; Apr. 27.
Van der Ziel, Aldert. (See Strutt, M. J. O., and van der Ziel.)
Van Weenen, Franciscus L. (See Crainwinckel, A., Dippel, Keuning, and Van Weenen.)
Varley, Ernest V., assignor to Staines Kitchen Equipment Company Limited, London, England. Apparatus for washing cups, mugs, drinking glasses, and similar articles. 2,317,829; Apr. 27.
Vaughan, Victor G., assignor, by mesne assignments, to Metals & Controls Corporation, Attleboro, Mass. Thermostat and manufacturing the same. 2,317,830; Apr. 27.
Vaughan, Victor G., and J. D. Bolesky, assignors to Metals & Controls Corporation, Attleboro, Mass. Thermostatic device. 2,317,831; Apr. 27.
Vernon, William F., Newton, Iowa. Automobile vanity mirror. 2,317,656; Apr. 27.
Vincent, Jesse G., Grosse Pointe, assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 2,317,423; Apr. 27.
Vinsonhaler, George R., Wahiawa, Oahu, Territory of Hawaii, assignor to Hawaiian Pineapple Company, Limited, Honolulu, Hawaii. Plow. 2,317,567; Apr. 27.
Volpin, Alexander S., Houston, Tex. Conduit valve. 2,317,657; Apr. 27.
Vorsatz, Fritz, Ludwigshafen-on-the-Rhine, Germany; vested in the Alien Property Custodian. Manufacture of reaction products from sulphite cellulose waste liquor. 2,317,832; Apr. 27.
Voss, John H., Downers Grove, assignor to Associated Electric Laboratories, Inc., Chicago, Ill. Telephone system. 2,317,833; Apr. 27.
Wales, George F., Kenmore, N. Y. Apparatus for perforating sheet material. 2,317,424; Apr. 27.
Walker, Claud H., Portland, Oreg. Priming tube. 2,317,653; Apr. 27.
Wallace, J. D., & Co. (See Wallace, J. D., and Landis, assignors.)
Wallace, John D., and C. H. Landis, assignors to J. D. Wallace & Co., Chicago, Ill. Sawing machine. 2,317,568; Apr. 27.
Wallace, Philip B., assignor to U. S. Pipe Bending Co., San Francisco, Calif. Pipe holding vise. 2,317,702; Apr. 27.
Wallin, Ernst H., Arvika, Sweden. Convertible textile article. 2,317,834; Apr. 27.
Walling, Cheves. (See Kvalnes, D. E., Smith and Walling.)
Walter, Henry E., assignor to Wood Conversion Company, Cloquet, Minn. Artificial fiber board. 2,317,504; Apr. 27.
Walton, Lewis E., West Lawn, Pa. Combination hydraulic and rubber die. 2,317,869; Apr. 27.
Warner Company. (See Murray, James A., assignor.)
Wassell, Helen E., Pittsburgh, Pa., assignor to Carbide and Carbon Chemicals Corporation. Composition for removing wallpaper. 2,317,505; Apr. 27.
Watson, Claude E. (See Cook, O. O., and Watson.)
Watson, William F., Bradenton, Fla. Reel for fishing lines. 2,317,835; Apr. 27.
Weatherford, Heiskell, Jr., et al. (See Williams, Lisle C., assignor.)
Weatherford, J. H., et al. (See Williams, Lisle C., assignor.)
Weaver, James W., Canton, assignor to The Hoover Company, North Canton, Ohio. Filter bag support for suction cleaners. 2,317,569; Apr. 27.
Weaver, Leo L., Cranford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Safety apparatus. 2,317,836; Apr. 27.
Webster Electric Company. (See Campbell, Richard H., assignor.)
Webster, Ronald, Evanston, assignor to The Hydro-Blast Corporation, Chicago, Ill. Method and means for treating ferrous objects. 2,317,837; Apr. 27.
Weinstat, Philip, Allston, Mass. Shoe. 2,317,870; Apr. 27.
Wekeman, Stephen N., Saddle River Township, Bergen County, N. J., assignor to General Printing Ink Corporation, New York, N. Y. Vacuum holder for sheet-like members. 2,317,348; Apr. 27.
Wellman, Homer B. (See Schultz, T. H., Levine and Wellman.)
Welsh, James W., Providence, R. I., assignor to Welsh Manufacturing Company. Goggles. 2,317,658; Apr. 27.
Welsh Manufacturing Company. (See Welsh, James W., assignor.)
Werner, Calvin J. (See Menzies, W. E., and Werner.)
West, Ernest. (See West, Frederick J. and E.)
West, Frederick J. and E., Miles Platting, Manchester, assignors to West's Gas Improvement Company Limited, Manchester, England. Retort discharge mechanism. 2,317,838; Apr. 27.
Western Electric Company. (See Weaver, Leo L., assignor.)
Western States Machine Company, The. (See Hertrich, Joseph, assignor.)
Westin, Charles J., Philadelphia, Pa., assignor to F. J. Stokes Machine Company. Operation check for automatic molding presses. 2,317,839; Apr. 27.
Westinghouse Electric & Manufacturing Company. (See Alsing, Carl F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Parsons, John S., assignor.)
Westinghouse Electric & Manufacturing Company. (See Schmid, Walter, assignor.)
Westinghouse Electric & Manufacturing Company. (See Woodman, Kenneth L., assignor.)
West's Gas Improvement Company Limited. (See West, Frederick J. and E., assignors.)
Wetzler, Charles E., and P. F. Boehm, Long Island City, N. Y., assignor to The United States Harmonica Corporation. Manufacture of harmonicas. 2,317,425; Apr. 27.
Wharam, John J., assignor to Ford Motor Company, Dearborn, Mich. Gearshift mechanism. 2,317,654; Apr. 27.
White, Guy. (See Fensch, R. G., and White.)
White, Harry B., Canton, assignor to The Hoover Company, North Canton, Ohio. Suction cleaner. 2,317,570; Apr. 27.
White, Paul W., Waterbury, Conn., assignor to Parva Products Company, Chicago, Ill. Ball buckle. 2,317,571; Apr. 27.
Whitehead, Thomas, Bellevue, Ky. Polishing or buffing wheel and disks therefor. 2,317,703; Apr. 27.
Whitt, Sidney A., Buffalo, and S. Przyborowski, Tonawanda, assignors to Fedders Manufacturing Company, Inc., Buffalo, N. Y. Direct surface intercooler. 2,317,572; Apr. 27.
Wild, Albert F., Erie, Pa., assignor to General Electric Company. Refrigeration apparatus. 2,317,840; Apr. 27.
Wilkes, Durward O. (See Holloway, F. A. L., and Wilkes.)
Williams, Harry E., and L. A. Durant, Chicago, Ill. Accessory for game apparatus. 2,317,506; Apr. 27.
Williams, Lisle C., Memphis, Tenn., assignor of twenty percent to J. H. Weatherford and H. Weatherford, Jr., both of Memphis, Tenn. Venetian blind. 2,317,659; Apr. 27.
Williams, Lisle C., Memphis, Tenn. Venetian blind. 2,317,660; Apr. 27.
Williams, William J., Rosebery, New South Wales, Australia. Vertical rotary molding machine. 2,317,574; Apr. 27.
Wilson Engineering Corporation. (See McGrath, H. J., and Lammedee, assignors.)
Wilson, Norman B., Toronto, Ontario, Canada. Centrifugal clutch. 2,317,573; Apr. 27.
Wilson, Wesley, Chicago, Ill. Radiant heat drying construction. 2,317,426; Apr. 27.
Winnacker, Karl. (See Boedeker, K., and Winnacker.)
Winter, Otto W., Grand Island, assignor to Columbus McKinnon Chain Corporation, Tonawanda, N. Y. Welding machine electrode. 2,317,962; Apr. 27.
Winter, Philip K., Oakland, Calif. Device for frying doughnuts or the like. 2,317,704; Apr. 27.
Wittrock, Louis A., Sidney, Nebr. Rotary tiller. 2,317,841; Apr. 27.
Wolfers, Philip, assignor of one-quarter to I. Newton Brozan, Aaron Holman, and J. Stanley Halperin, jointly, all of New York, N. Y. Handle. 2,317,349; Apr. 27.
Wolfram, Arthur, Frankfort-on-the-Main-Roedelheim, and H. Jahn, Bad Soden in Taunus, Germany; vested in the Alien Property Custodian. Resinous condensation products and preparing them. 2,317,842; Apr. 27.
Wood Conversion Company. (See Anderson, David B., assignor.)
Wood Conversion Company. (See Walter, Henry E., assignor.)
Wood, Gar, Industries, Inc. (See Barrett, Edward R., assignor.)
Wood, Robert O., Upper Montclair, N. J. Game apparatus. 2,317,705; Apr. 27.
Woodman, Kenneth L., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Steam iron. 2,317,706; Apr. 27.

Worth, Weldon, Dayton, Ohio. Viscosity control valve. 2,317,427; Apr. 27.
Wright's Automatic Tobacco Packing Machine Company. (See Talbot, Richard C., assignor.)
Yavitch, Morris, Los Angeles, Calif. Strainer for plumbing fixtures. 2,317,707; Apr. 27.
Young, Luther P. (See Holmes, A. W., Benjamin and Young.)
Youngstown Steel Door Company, The. (See Doyle, Arthur J., assignor.)
Zareko, Doris. (See Zareko, Walter, assignor.)
Zareko, Walter, assignor to D. Zareko, New York, N. Y. Assembled picture frame or the like. 2,317,708; Apr. 27.
Zim Manufacturing Company. (See Perkman, Herbert A., assignor.)
Zimmerman, Charles E., Chicago, Ill. Cosmetic applicator. 2,317,662; Apr. 27.
Zimmerman, Howard F., assignor to Loretta M. Zimmerman, Chicago, Ill. Portable refrigerator container. 2,317,871; Apr. 27.
Zimmerman, Loretta M. (See Zimmerman, Howard F., assignor.)
Zimmermann, Wilmer, St. Louis, Mo. Tie for newspapers and the like. 2,317,507; Apr. 27.
Zimt, Ilse. (See Crollic, John W., assignor.)
Zimt, Ilse, New York, N. Y. Grease gun. 2,317,872; Apr. 27.
Zoder, Incorporated. (See Zoder, Orren E., assignor.)
Zoder, Orren E., assignor to Zoder, Incorporated, St. Louis, Mo. Trailer truck. 2,317,508; Apr. 27.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 27TH DAY OF APRIL, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Amplifier, Wide band. D. E. Norgaard. Re. 22,306; Apr. 27.

LIST OF PLANT INVENTIONS

Rose. A. Krebs. 577; Apr. 27.
Rose. A. Krebs. 578; Apr. 27.

Rose plant. J. S. Elliott. 579; Apr. 27.

LIST OF DESIGN INVENTIONS

Belt, Maternity and abdominal supporting garter. O. Erteszek. 135,601; Apr. 27.
Board, Bread slicing. S. F. Townsley. 135,564; Apr. 27.
Bottle and stopper, Combined. J. D. Buckingham. 135,569; Apr. 27.
Building facade or similar article. J. Gosling, Jr. 135,576; Apr. 27.
Button. C. H. Frank. 135,555; Apr. 27.
Button, Cloth covered concave eyelet. W. Novick. 135,559; Apr. 27.
Chair, Shampoo. F. H. Ellinger. 135,585; Apr. 27.
Container, Lipstick. H. L. Howard. 135,562; Apr. 27.
Container, Ration. N. T. Naranick. 135,588; Apr. 27.
Dress. B. Cashin. 135,591; Apr. 27.
Envelope and writing paper or similar article, Combined. C. C. Dill. 135,593; Apr. 27.
Fan, Electric. W. A. Spear. 135,599; Apr. 27.
Game board. O. T. Querness. 135,580; Apr. 27.
Handle for kitchen utensils or similar articles. M. J. Zimmer. 135,565–6; Apr. 27.
Hat or similar article. M. Merkent. 135,586; Apr. 27.
Heater, Circulating. E. J. Burke. 135,554; Apr. 27.
Heating unit, Portable. H. B. Holthouse. 135,577; Apr. 27.
Holder, Combined handbag and cosmetic. A. R. Botham 135,568; Apr. 27.
Jodhpurs. B. Cohen. 135,592; Apr. 27.
Lamp lens. R. Cadwallader. 135,570–2; Apr. 27.
Lighter for cigarettes or the like, Table. I. Florman. 135,594; Apr. 27.
Mold, Glass jelly. B. D. Levenson. 135,557; Apr. 27.
Picture frame and salad plate, Combined. S. E. Parker 135,560; Apr. 27.
Pin, Ceramic brooch. E. Handler. 135,595–6; Apr. 27
Pipe, Tobacco. G. R. Comptois. 135,573; Apr. 27.
Rack, Magazine. W. G. Gray. 135,556; Apr. 27.
Rack, Tie. W. G. Williams. 135,589; Apr. 27.
Receptacle, Ash. G. E. J. Alexander. 135,567; Apr. 27.
Ring. A. H. Sauer, Jr. 135,581; Apr. 27.
Scraper or similar article, Corn. S. T. Mizelle, Jr. 135,587; Apr. 27.
Shrine or the like, Home. M. Schechter. 135,582; Apr. 27.
Spectacles, Pair of ophthalmic. H. Stolper. 135,600; Apr. 27.
Stake, Tent. D. A. Wallance. 135,584; Apr. 27.
Stand, Display. D. Marovich. 135,558; Apr. 27.
Statuette or similar article. V. H. Tabor. 135,583; Apr. 27.
Strip for fabric covered structures, Plastic bonding. C. F. Marschner. 135,578; Apr. 27.
Suspenders. L. R. Ryan. 135,563; Apr. 27.
Telescope or the like. M. Rapaport. 135,561; Apr. 27.
Thermometer. H. B. Brown. 135,590; Apr. 27.
Tool, Combination. J. Feldbin. 135,574; Apr. 27.
Toy figure. I. D. Gindhart, Jr. 135,575; Apr. 27.
Tray, Ash. G. R. Penn. 135,597–8; Apr. 27.
Washing basin or similar article, Head. M. Pientkewic 135,579; Apr. 27.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 27TH DAY OF APRIL, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasive, Coated. H. R. Stratford. 2,317,650; Apr. 27.
Accessory for game apparatus. H. E. Williams and L. A. Durant. 2,317,506; Apr. 27.
Accumulator. H. G. André. 2,317,711; Apr. 27.
Accumulator, Deformable or elastic. J. Mercier. 2,317,395; Apr. 27.
Acetic acid, Treatment of. H. M. Guinot. 2,317,758; Apr. 27.
Acid, Purifying benzoic. I. Gubelmann and R. G. Benner. 2,317,455; Apr. 27.
Actuator and control for hydraulic brakes, Power. L. L. Hamilton. 2,317,604; Apr. 27.
Adapter for initialing machines. V. Sorrentino. 2,317,649; Apr. 27.
Adhesive composition, Waterproof. B. J. Dennison. 2,317,891; Apr. 27.
Adjustable abrasive or cutting tools, Automatically adjusting. F. D. Ball. 2,317,714; Apr. 27.
Agent, Coating. K. Billig. 2,317,725; Apr. 27.
Agricultural device. M. S. Harris. 2,317,606; Apr. 27.
Aircraft, Rotary wing. C. G. Pullin. 2,317,342; Apr. 27.
Air-detonating device. G. M. Bicknell. 2,317,582; Apr. 27.
Alcohols, Production of. R. E. Burk. 2,317,949; Apr. 27.
Alkylene-polyamines and preparing them. R. Graf. 2,317,757; Apr. 27.
Amplifier, Carrier frequency. H. Hannemann and E. Oberländer. 2,317,764; Apr. 27.
Apparatus for coking oils. E. Utterback. 2,317,566; Apr. 27.
Apparatus for cutting or flame-machining metal. W. B. Nicholson and E. P. Jones. 2,317,936; Apr. 27.
Apparatus for fitting shoes to feet. D. F. Hyland, J. C. Stiles, and H. L. and J. Brenner. 2,317,913; Apr. 27.
Apparatus for handling elastic filamentary material. J. M. Leach. 2,317,921; Apr. 27.
Apparatus for handling hat fur carrier material or the like. R. H. Plass. 2,317,937; Apr. 27.
Apparatus for measuring strip. A. M. Krieger. 2,317,468; Apr. 27.
Apparatus for packing candy articles or the like. H. F. Goodwin. 2,317,374; Apr. 27.
Apparatus for perforating sheet material. G. F. Wales. 2,317,424; Apr. 27.
Apparatus for producing and dispensing sanitary mouthpieces for bottles, Method and. W. M. Schneider. 2,317,408; Apr. 27.
Apparatus for producing intraosseous anesthesia, Process and. I. E. Sigveland. 2,317,648; Apr. 27.
Apparatus for sizing and classifying crushed slag material and the like. A. L. Ayers and B. E. Pheneger. 2,317,430; Apr. 27.
Apparatus for the manufacture of photographic prints. G. J. van den Broek. 2,317,655; Apr. 27.
Apparatus for the separation of ice and concentrate. G. A. Krause. 2,317,777; Apr. 27.
Apparatus for treatment of artificial materials. H. Dreyfus, R. W. Moncrieff, and F. B. Hill. 2,317,448; Apr. 27.
Apparatus for washing cups, mugs, drinking glasses, and similar articles. E. V. Varley. 2,317,829; Apr. 27.
Applicator, Cosmetic. C. E. Zimmerman. 2,317,662; Apr. 27.
Article handling device. C. D. Ryan. 2,317,645; Apr. 27.
Articles from polymeric compositions, Production of hollow. A. W. Larchar. 2,317,687; Apr. 27.
Attachment for hair clippers. A. T. Martell. 2,317,928; Apr. 27.
Automobile door lock. A. S. Thompson. 2,317,699; Apr. 27.
Azo compounds and material colored therewith. J. B. Dickey and J. G. McNally. 2,317,365; Apr. 27.
Bactericide and making the same. O. O. Cook and C. E. Watson. 2,317,670; Apr. 27.
Bag filling and weighing machine, Automatic. G. W. Talbot. 2,317,865; Apr. 27.
Ball and making same, Inflated. J. T. Riddell. 2,317,939; Apr. 27.
Band snapper for corn husking machines. W. W. P. Stelter. 2,317,822; Apr. 27.
Bar for concrete structures, Reinforcing. G. G. Greulich. 2,317,454; Apr. 27.
Barrette. R. McFadden. 2,317,930; Apr. 27.
Battery, Lead storage. H. Haebler. 2,317,759; Apr. 27.
Bearing. G. E. Landt and J. A. Petho. 2,317,920; Apr. 27.
Bearing for miniature electric motors. K. R. Fritz. 2,317,902; Apr. 27.
Belt, Safety. J. A. Reith. 2,317,346; Apr. 27.
Beverage making apparatus. M. H. Graham. 2,317,453; Apr. 27.
Binder. W. A. Peters. 2,317,345; Apr. 27.
Bituminous composition. J. M. Johnson and E. C. Brown. 2,317,959; Apr. 27.
Blacking out ships while still providing for the ventilation thereof. M. N. Angelant. 2,317,712; Apr. 27.
Blind, Venetian. L. Kasan. 2,317,917; Apr. 27.
Blind, Venetian. L. C. Williams. 2,317,659; Apr. 27.
Blind, Venetian. L. C. Williams. 2,317,660; Apr. 27.
Blower, Air. W. Becht. 2,317,723; Apr. 27.
Board: *See*—
Fiber board. Plotting board.
Mold board.
Bolt retaining means. H. D. Kaufman. 2,317,617; Apr. 27.
Book, Color correlating sample. J. G. Craig. 2,317,673; Apr. 27.
Boron chemically combined from its ores by autoflotation. Concentration of. F. K. Shelton. 2,317,413; Apr. 27.
Box: *See*—
Junction box. Terminal box.
Box made of transparent material. N. E. Clouston. 2,317,884; Apr. 27.
Brace for the rails of railroad tracks. J. F. Dale. 2,317,735; Apr. 27.
Brake: *See*—
Hydraulic brake.
Brake. P. M. Freer. 2,317,599; Apr. 27.
Brake control means. A. Garelli. 2,317,753; Apr. 27.
Brake controller, Electric. W. F. Penrose. 2,317,402; Apr. 27.
Brake valve. R. B. Campbell. 2,317,846; Apr. 27.
Braking system, Fluid pressure. O. H. Fowler. 2,317,601; Apr. 27.
Branch box connector. W. C. Anderson. 2,317,710; Apr. 27.
Brassière. A. S. and V. I. Becker. 2,317,664; Apr. 27.
Breaking agent for emulsions from crude petroleum and salt water and a breakage of said emulsions. K. Boedeker and K. Winnacker. 2,317,726; Apr. 27.
Brush. T. H. Rider. 2,317,485; Apr. 27.
Brush, Roll. C. B. Joslin. 2,317,533; Apr. 27.
Buckle, Ball. P. W. White. 2,317,571; Apr. 27.
Building construction. D. M. Donley. 2,317,955; Apr. 27.
Building construction. R. L. Lindahl. 2,317,926; Apr. 27.
Building construction. A. C. Olsen. 2,317,634–5; Apr. 27.
Building structure. R. W. McLaughlin, Jr. 2,317,621; Apr. 27.
Cable: *See*—
Electric power cable.
Cage for grinding machines and the like. W. P. Gruendler. 2,317,909; Apr. 27.
Calendar. L. B. Martin. 2,317,788; Apr. 27.
Calender and process for making plastic sheets. D. Domizi. 2,317,447; Apr. 27.
Camera. W. C. Huebner. 2,317,612; Apr. 27.
Camera. G. Kende and O. K. Cazin. 2,317,465; Apr. 27.
Can making machine. F. Krueger. 2,317,919; Apr. 27.
Can opener. K. R. Leck. 2,317,541; Apr. 27.
Can perforator and dispenser. V. F. and G. V. Gonch. 2,317,755; Apr. 27.
Canning, Food. F. C. Marx. 2,317,470; Apr. 27.
Cap for receptacles containing dry medicinal materials and the like, Absorbent closure. C. F. Boesel. 2,317,882; Apr. 27.
Car: *See*—
Shuttle car. Toy electric car.
Car construction, House. A. J. Doyle. 2,317,677; Apr. 27.
Carburetor for internal combustion engines. M. Mallory. 2,317,625; Apr. 27.
Cardanol, Polymerized. S. Caplan. 2,317,585; Apr. 27.
Carpet. H. P. Faris. 2,317,595; Apr. 27.
Cart, Timber. H. I. Lewis. 2,317,784; Apr. 27.
Cartridge assembly, Explosive. T. F. Bennett. 2,317,354; Apr. 27.
Cartridge assembly, Explosive. R. B. Smith. 2,317,415; Apr. 27.
Casing head. E. W. Rearwin. 2,317,404; Apr. 27.
Casket. M. S. Harris. 2,317,605; Apr. 27.
Casting apparatus, Pig. F. F. Bollinger and C. L. Kenney. 2,317,584; Apr. 27.
Catalysts, Reactivation of spent. C. L. Thomas. 2,317,494; Apr. 27.

Catalytic cracking. C. E. Hemminger. 2,317,379; Apr. 27.
Catalytic process. E. D. Reeves and K. K. Kearby. 2,317,803; Apr. 27.
Cathodes, Producing secondary electron emitting. P. Görlich. 2,317,754; Apr. 27.
Cellulosic materials, Color-coating. E. R. Boller, H. E. Hanthorn, and R. H. Treadway. 2,317,436; Apr. 27.
Centrifugal clutch. N. B. Wilson. 2,317,573; Apr. 27.
Cereal and the like, Toasting flaked. T. R. James. 2,317,532; Apr. 27.
Chain construction. S. A. Holmes. 2,317,769; Apr. 27.
Chair. E. C. Booth. 2,317,515; Apr. 27.
Checkbook holder. W. P. Exline. 2,317,748; Apr. 27.
Checking station for self-service stores. H. N. Bradley. 2,317,438; Apr. 27.
Cheese, Emulsifying. J. D. Ingle. 2,317,958; Apr. 27.
Chemical compound. O. O. Cook and C. E. Watson. 2,317,671; Apr. 27.
Chlorine dioxide and for separating the same from chlorine, Making. G. L. Cunningham. 2,317,443; Apr. 27.
Cigarette rolling device. R. M. Bond. 2,317,513; Apr. 27.
Circuit for elecrical devices, Operating. H. F. Cypser. 2,317,888; Apr. 27.
Circuit signaling system, Coded track. N. B. Coley. 2,317,732; Apr. 27.
Clamping device. P. S. Morgan. 2,317,690; Apr. 27.
Clamping means for wound clips. S. Schumann 2,317,815; Apr. 27.
Cleaner: *See*—
Suction cleaner.
Clip: *See*—
Wall tie clip.
Clip fastener. G. A. Tinnerman. 2,317,561; Apr. 27.
Clothes rack. F. Botta. 2,317,437; Apr. 27.
Clutch: *See*—
Centrifugal clutch.
Clutch mechanism for centrifugal machines and the like. J. Hertrich. 2,317,528; Apr. 27.
Coat construction. J. Giuseffi. 2,317,373; Apr. 27.
Coating and decorating composition. A. E. Gessler and D. M. Gans. 2,317,371; Apr. 27.
Cock, Fuel. D. Samiran. 2,317,407; Apr. 27.
Cocks, Blowoff. H. J. McGrath and J. M. Lamedec. 2,317,546; Apr. 27.
Coil with temperature compensation, Shielded. F. Bergtold. 2,317,724; Apr. 27.
Coin controlled release mechanism. G. W. Dooley. 2,317,593; Apr. 27.
Combustion chamber for internal combustion engines. E. Hocke. 2,317,536; Apr. 27.
Comminuting apparatus. A. F. Stanley. 2,317,416; Apr. 27.
Communication system. R. H. Campbell. 2,317,358; Apr. 27.
Communication system. D. C. McRae. 2,317,517; Apr. 27.
Composition for preserving cut flowers. A. A. Meyer. 2,317,631; Apr. 27.
Composition for removing wallpaper. H. E. Wassell. 2,317,505; Apr. 27.
Compositions of matter and methods and steps of making and using the same. M. T. Harvey. 2,317,607; Apr. 27.
Condensation product of cashew nut shell liquid distillation residue and method. Polymerization-furfuraldehyde. S. Caplan. 2,317,587; Apr. 27.
Condensation products and preparing them. Resinous. A. Wolfram and H. Jahn. 2,317,842; Apr. 27.
Condensation products. Formaldehyde-crotonaldeyde. W. E. Hanford and R. S. Schreiber. 2,317,456; Apr. 27.
Conduit valve. A. S. Volpin. 2,317,657; Apr. 27.
Connector: *See*—
Branch box connector.
Constricting means for tubular garments. J. F. Holland and J. W. Kinney, Jr. 2,317,768; Apr. 27.
Container: *See*—
Display tablet container. Refrigerator container.
Paperboard container.
Container. J. M. Hothersall. 2,317,381; Apr. 27.
Container. W. E. Taylor. 2,317,420; Apr. 27.
Container sealing. J. P. Kavanaugh. 2,317,773; Apr. 27.
Control, Combustion. F. H. Loftus. 2,317,927; Apr. 27.
Control machine for switch and signal control systems. J. F. Merkel. 2,317,472; Apr. 27.
Control mechanism, Motor vehicle. S. Myerson. 2,317,935; Apr. 27.
Control stick for aircraft. J. Skulkety. 2,317,818; Apr. 27.
Control system. W. Ernst. 2,317,524; Apr. 27.
Control system. W. A. Ray. 2,317,640; Apr. 27.
Control system for dirigible craft, Automatic. H. L. Hull. 2,317,383; Apr. 27.
Controller. Push button. J. L. Bonanno. 2,317,727; Apr. 27.
Conveyer roller. L. D. Donbeck and R. A. Peterson. 2,317,742; Apr. 27.
Conveyor system. A. R. De Burgh. 2,317,675; Apr. 27.
Cooling system for beverage vending machines. W. E. Richmond and A. D. Ames. 2,317,484; Apr. 27.
Cooling trap, primarily for condensing vapors of mercury and the like. H. Schuchmann and W. Steinmetz. 2,317,814; Apr. 27.
Copper clad wire and preparing the same. O. E. Adler and M. J. Krinowitz. 2,317,350; Apr. 27.
Copyholder. H. Stein. 2,317,821; Apr. 27.
Core for tire vulcanizers. A. A. Dorsey. 2,317,676; Apr. 27.
Coring tool. T. B. Losey. 2,317,544; Apr. 27.
Corn sugar product and method. D. D. Peebles and P. D. V. Manning. 2,317,479; Apr. 27.
Coupling: *See*—
Disconnect coupling.
Coupling. P. S. Madsen and A. A. Arnold. 2,317,545; Apr. 27.
Coupling of tubular elements, Effecting detachable. W. A. Bruno. 2,317,729; Apr. 27.
Crate for refrigerator cabinets and the like. M. R. Hull and E. P. Summers. 2,317,613; Apr. 27.
Curler, Hair. R. McFadden. 2,317,929; Apr. 27.
Curler spindle for hair waver. O. A. Langos. 2,317,539; Apr. 27.
Current regulating resistance. K. Richter. 2,317,805; Apr. 27.
Curtain rod device, Extensible. J. Di Martino. 2,317,893; Apr. 27.
Cutting tool for BX armored cable and tubing. J. K. Schaefer. 2,317,944; Apr. 27.
Cylinder for hydraulic braking systems, Master. K. Miller. 2,317,473; Apr. 27.
Damper. C. A. Otto. 2,317,798; Apr. 27.
Deodorant. R. I. Grady. 2,317,908; Apr. 27.
Desurfacing apparatus and process. I. P. Thompson and E. Meincke. 2,317,495; Apr. 27.
Detecting flaws in magnetizable bodies, Method and apparatus for. W. C. Barnes and H. W. Keevil. 2,317,719–21; Apr. 27.
Detecting flaws, Method and apparatus. W. C. Barnes. 2,317,721; Apr. 27.
Detergent dispenser. S. J. Miller. 2,317,548; Apr. 27.
Device for frying doughnuts or the like. P. K. Winter. 2,317,704; Apr. 27.
Device for making frozen confections. E. E. Lindsey. 2,317,624; Apr. 27.
Device for removing and installing camshaft bushings. P. G. Rutten. 2,317,405; Apr. 27.
Device for supporting smokers' pipes. W. Kahn. 2,317,534; Apr. 27.
Die: *See*—
Hydraulic and rubber die. Stamping die.
Punches and die.
Die construction. H. Ford and R. A. Boyer. 2,317,597; Apr. 27.
Die set parts assembly. F. C. Danneman. 2,317,889; Apr. 27.
Die spotting press. H. S. Fullerton. 2,317,851; Apr. 27.
Disazo dye, Dispersible. D. E. Kvalnes, S. B. Smith, and C. Walling. 2,317,387; Apr. 27.
Disconnect coupling, Quick. A. Townhill. 2,317,827; Apr. 27.
Dispatcher for railroads, Message. G. W. North. 2,317,633; Apr. 27.
Dispenser: *See*—
Can perforator and dispenser. Detergent dispenser.
Label dispenser.
Dispensing mechanism, Liquid. E. R. Eichner. 2,317,956; Apr. 27.
Display tablet container. E. Sörensen. 2,317,860; Apr. 27.
Distillation, Fractional. R. E. Burk and E. Kropp. 2,317,952; Apr. 27.
Distillation means, Fractional. R. E. Burk. 2,317,951; Apr. 27.
Door handle assembly, Automobile. F. A. Cooley. 2,317,672; Apr. 27.
Door lock. A. S. Thompson. 2,317,700; Apr. 27.
Drag device for antennas. W. P. Lear. 2,317,622; Apr. 27.
Dressing mechanism. H. N. Seyferth. 2,317,411; Apr 27.
Drier: *See*—
Heel press and drier.
Drive mechanism. E. W. Fuller. 2,317,903; Apr. 27.
Drive, Vehicle. A. L. Lee. 2,317,623; Apr. 27.
Dye intermediate. L. G. Brooker and H. W. J. Cressman. 2,317,357; Apr. 27.
Dyestuffs becoming green when chromed and their manufacture. A. Conzetti and G. Schetty. 2,317,733; Apr. 27.
Easel, Display. E. H. Taylor and W. S. Carter. 2,317,867; Apr. 27.
Educational and amusement device. T. Compere. 2,317,590; Apr. 27.
Electric eye curb indicator. J. R. Toney. 2,317,652; Apr. 27.
Electric heater control. W. R. Tuttle. 2,317,967; Apr. 27.
Electric power cable. T. R. Scott. 2,317,488; Apr. 27.

Electric switch. C. E. Pollard. 2,317,695; Apr. 27.
Electrical capacitor. P. Robinson. 2,317,642; Apr. 27.
Electrical distribution system. J. S. Parsons. 2,317,552; Apr. 27.
Electrical fixture. H. Hubbell. 2,317,382; Apr. 27.
Electrical selector for coin chutes. B. A. Andalikiewicz and D. T. Carlson. 2,317,351; Apr. 27.
Electrical wiring system. J. F. O'Brien. 2,317,964; Apr. 27.
Electrochemical halohydrination and electrode regeneration. M. Tamele and L. B. Ryland. 2,317,866; Apr. 27.
Electron discharge tube. G. P. Chevigny. 2,317,442; Apr. 27.
Electro-optical facsimile synchronizing system. W. G. H. Finch. 2,317,850; Apr. 27.
Elevator. H. S. Fullerton. 2,317,852; Apr. 27.
Emplacement for machine guns, Portable. R. B. Lord. 2,317,392; Apr. 27.
Energy from pyro crystals and minerals, Production of. J. K. Delano. 2,317,532; Apr. 27.
Engine: *See*—
Internal combustion engine.
Engine starter. E. E. Hood. 2,317,344; Apr. 27.
Envelope. A. M. Thompson. 2,317,497; Apr. 27.
Esters, Cellulose fatty acid. R. Hofmann and W. Röhm. 2,317,767; Apr. 27.
Etching. J. J. Ormond. 2,317,551; Apr. 27.
Expansion joint. C. J. Francois. 2,317,598; Apr. 27.
Extrusion device. J. L. Ellis. 2,317,897; Apr. 27.
Fabric and fabric, Method of treating. C. T. Graham. 2,317,375; Apr. 27.
Fabric edge-folding and pressing device. J. Silverman. 2,317,817; Apr. 27.
Fan, Propeller type ventilator. W. L. Upson. 2,317,502; Apr. 27.
Fastener: *See*—
Clip fastener.
Fastener. E. L. Mack. 2,317,787; Apr. 27.
Feeding mechanism, Continuous filament bristle. W. P.-G. Hall and A. O. Bell. 2,317,401; Apr. 27.
Feeding mechanism for sewing machines. A. N. Hale. 2,317,762; Apr. 27.
Felt, Drier. H. N. Hill. 2,317,910; Apr. 27.
Ferrous objects, Treating. R. Webster. 2,317,837; Apr. 27.
Fiber board, Artificial. H. E. Walter. 2,317,504; Apr. 27.
Fibrous materials and the materials obtained thereby, Coloring. H. Bestian, J. Nüsslein and J. Monheim. 2,317,965; Apr. 27.
Filling feeler mechanism. C. D. Brown and R. E. Chard. 2,317,948; Apr. 27.
Filter: *See*—
Magnetic filter.
Finder for photographic purposes. H. Sauer. 2,317,809–10; Apr. 27.
Firearm. E. G. Reising. 2,317,641; Apr. 27.
Fire control system. G. M. Taylor, L. R. Bradshaw and S. G. Green. 2,317,419; Apr. 27.
Fishhook, Safety. A. B. Freeman. 2,317,900; Apr. 27.
Fish lure. V. Lehto. 2,317,781; Apr. 27.
Fitting for doors. R. A. Miller and M. M. Eakins. 2,317,931; Apr. 27.
Flexible support. J. M. Tyler. 2,317,500; Apr. 27.
Floor-treating machine. J. A. Backlund. 2,317,843; Apr. 27.
Flow control device. M. H. Grove and A. U. Bryant. 2,317,376; Apr. 27.
Fluid control valve. W. A. Ray. 2,317,639; Apr. 27.
Fluid pressure device. G. R. Ericson. 2,317,594; Apr. 27.
Fluid temperature regulator, Automatic. C. V. Bauman. 2,317,717; Apr. 27.
Food canning. F. C. Marx. 2,317,470; Apr. 27.
Foods, Process of conditioning. H. A. Noyes. 2,317,397; Apr. 27.
Footwear, Rubber. G. H. Bingham, Jr. 2,317,879–80; Apr. 27.
Frame: *See*—
Trial frame.
Frame or the like, Assembled picture. W. Zareko. 2,317,708; Apr. 27.
Friction damped engine mount. J. M. Tyler. 2,317,501; Apr. 27.
Friction feed. C. G. and E. B. Peterson. 2,317,481; Apr. 27.
Fruit halving device. F. A. Chekian. 2,317,669; Apr. 27.
Fuel injection nozzle. H. Fischlmayr. 2,317,749; Apr. 27.
Fuel injection system for use in multicylinder compression-ignition engines. S. Hinchcliffe. 2,317,947; Apr. 27.
Fuel injector. F. R. King. 2,317,618; Apr. 27.
Fungicidal composition. W. F. Hester. 2,317,765; Apr. 27.
Furnace electrode gland. W. E. Moore. 2,317,933; Apr. 27.
Game apparatus. R. O. Wood. 2,317,705; Apr. 27.
Garden tool. H. S. Power. 2,317,801; Apr. 27.
Garment steamer. C. R. Lendle. 2,317,924; Apr. 27.
Gas discharge device, Irritant. F. Sabini. 2,317,942; Apr. 27.
Gas, Utilization of petroleum refinery. E. B. Hjerpe and W. A. Gruse. 2,317,603; Apr. 27.
Gauge: *See*—
Strike plate gauge.
Gauge. L. L. Lewis. 2,317,925; Apr. 27.
Gearshift mechanism. J. J. Wharam. 2,317,654; Apr. 27.
Gearing, Engine starting. J. E. Buxton. 2,317,953; Apr. 27.
Glass bending apparatus. H. J. Galey. 2,317,904; Apr. 27.
Glazing unit, Bullet resistant. J. H. Sherts. 2,317,945; Apr. 27.
Glove, Swimming. E. B. Coddington. 2,317,886; Apr. 27.
Goggles. J. W. Welsh. 2,317,658; Apr. 27.
Governor apparatus. W. Schmid. 2,317,812; Apr. 27.
Governor attachment for impellers. T. M. Kuehn, 2,317,778; Apr. 27.
Gravity filtration. E. G. Duden. 2,317,847; Apr. 27.
Gravity filtration, Hot process. E. G. Duden. 2,317,848; Apr. 27.
Grease gun. I. Zimt. 2,317,872; Apr. 27.
Greaseproof characteristics to paper, Imparting. E. D. Rich. 2,317,696; Apr. 27.
Grip, Materials testing. R. L. Templin. 2,317,826; Apr. 27.
Guard for paper indicated dobbies. R. G. Turner. 2,317,564; Apr. 27.
Gun. H. S. Bacon. 2,317,579; Apr. 27.
Gun barrels, Rifling. O. W. Bonnafe. 2,317,514; Apr. 27.
Gun, Grease. J. W. Crollie. 2,317 Apr. 27.
Hair treating device, Portable. P. L. H. Burrell and H. L. Larsen. 2,317,883; Apr. 27.
Hammer insert, Rawhide. M. R. Stevens. 2,317,862; Apr. 27.
Handle: *See*—
Package handle.
Handle. P. Wolfers. 2,317,349; Apr. 27.
Handle assembly. G. E. Dey. 2,317,592; Apr. 27.
Hardboard, Making. W. H. Mason, R. M. Boehm and G. G. Simpson. 2,317,394; Apr. 27.
Harmonicas, Manufacture of. C. E. Wetzler and P. F. Boehm. 2,317,425; Apr. 27.
Harrow. J. R. Kovar. 2,317,537; Apr. 27.
Hat pin. J. I. Ellerstein. 2,317,746; Apr. 27.
Hat, Protective. G. H. Delke, Jr. 2,317,954; Apr. 27.
Head lamp. C. F. Kramer. 2,317,619; Apr. 27.
Heat drying construction, Radiant. W. Wilson. 2,317,426; Apr. 27.
Heating apparatus. W. G. Chausse. 2,317,441; Apr. 27.
Heel-attaching machine. T. H. Seely. 2,317,410; Apr. 27.
Heel press and drier, Portable. K. A. Nutt. 2,317,477; Apr. 27.
Helicopter. J. A. J. Bennett. 2,317,340; Apr. 27.
Helicopter and operating same. J. A. J. Bennett. 2,317,341; Apr. 27.
Helix former. A. W. Homes, G. W. Benjamin and L. P. Young. 2,317,530; Apr. 27.
High frequency amplifier circuits. M. J. O. Strutt and A. van der Ziel. 2,317,824; Apr. 27.
Hinge structure. S. De Orlow. 2,317,892; Apr. 27.
Holder: *See*—
Checkbook holder. Welder's electrode holder.
Shoe tree holder.
Holder for sheet-like members, Vacuum. S. N. Wekeman. 2,317,348; Apr. 27.
Hook: *See*—
Picture hook.
Hopper agitating means. W. B. Rogers. 2,317,643; Apr. 27.
Hydraulic and rubber die, Combination. L. E. Walton. 2,317,869; Apr. 27.
Hydraulic brake. W. R. Tucker. 2,317,563; Apr. 27.
Hydrocarbon distillate, Treating. W. L. Benedict. 2,317,600; Apr. 27.
Hydrocarbons, Conversion of. F. E. Frey. 2,317,901; Apr. 27.
Hydrocarbons, Cyclization of. B. S. Greensfelder. 2,317,683; Apr. 27.
Ice creeper. O. Simunds. 2,317,647; Apr. 27.
Ignition motor fuel, Compression. T. H. Schultz, I. E. Levine and H. B. Wellman. 2,317,968; Apr. 27.
Ignition system. E. M. Claytor and W. J. Rady. 2,317,588; Apr. 27;
Incendiary bomb trap. W. C. Scull. 2,317,489; Apr. 27.
Indicating device, Electron ray. J. A. Hultquist. 2,317,460; Apr. 27.
Indicator: *See*—
Electric eye curb indicator.
Ingredient in closed containers, Detecting foreign. G. P. Stout. 2,317,559; Apr. 27.
Inks and composition therefor, Method of setting printing. C. Geese. 2,317,370; Apr. 27.
Inorganic hydrous oxide bodies, and product, Waterproofing. E. A. Hauser. 2,317,685; Apr. 27.
Internal combustion engine. E. C. Silvey. 2,317,946; Apr. 27.
Internal combustion engine with scavenging pump. F. Huber and A. Lentz. 2,317,772; Apr. 27.
Iron: *See*—
Pressing and steaming iron. Steam iron.
Ironing machine. F. S. Stout, W. G. Bond and L. A. Ladner. 2,317,493; Apr. 27.
Joint: *See*—
Expansion joint.
Junction box. H. P. Chandler. 2,317,667; Apr. 27.

Knife unit. S. Clausen. 2,317,731; Apr. 27.
Knitting machine and method of knitting. H. M. Suess. 2,317,417; Apr. 27.
Label dispenser. R. S. Avery. 2,317,576; Apr. 27.
Ladder and like webbing and method and mechanism for producing the same. T. Brindle. 2,317,518; Apr. 27.
Ladder, Folding fire escape. C. J. Hillenbrand. 2,317,459; Apr. 27.
Lamp: *See*—
Head lamp.
Lamp holder and the like, Electric. S. D. Sullam. 2,317,863; Apr. 27.
Lamp starter and maintenance device. W. C. Hall, Jr., and E. L. Le Gette. 2,317,602; Apr. 27.
Lasting machine. F. C. Eastman. 2,317,366; Apr. 27.
Lid for multiple boxes and applying same. W. H. Paxton. 2,317,478; Apr. 27.
Lifter: *See*—
Liquid lifter.
Lighting fixture, Electric. D. J. Biller. 2,317,434; Apr. 27.
Line insulators. M. Pereles. 2,317,799; Apr. 27.
Liquid level controlling means. P. S. Russel. 2,317,556; Apr. 27.
Liquid lifter, Automatic. A. B. Collinson. 2,317,589; Apr. 27.
Liquid material compositions and bases carrying the same, Cashew nut shell. E. C. Homan. 2,317,611; Apr. 27.
Liquid sludge or the like, Incineration of. R. W. Rowen. 2,317,941; Apr. 27.
Lock: *See*—
Automobile door lock. Door lock.
Locking device, Nut. M. F. Saylor. 2,317,347; Apr. 27.
Locomotive. M. Essl. 2,317,849; Apr. 27.
Locomotive for high-voltage direct current. F. Punga. 2,317,802; Apr. 27.
Loop, Slide. G. H. Elwell. 2,317,678–9; Apr. 27.
Lubricating device for aircraft engines. M. Duckstein. 2,317,745; Apr. 27.
Lubrication composition. A. W. Burwell and J. A. Camelford. 2,317,666; Apr. 27.
Machine tool. M. S. Curtis. 2,317,522; Apr. 27.
Magnetic filter. M. Kiek and J. Aninga. 2,317,774; Apr. 27.
Marker, Road. J. C. Haggart, Jr. 2,317,684; Apr. 27.
Marking machine. C. F. Robbins and D. F. Putnam. 2,317,940; Apr. 27.
Mask. J. A. Heidbrink. 2,317,608; Apr. 27.
Material distributing device. R. Gaddis. 2,317,853; Apr. 27.
Material for removing carbon dioxide from water, Preparing a calcined non-slaking dolomitic. F. Tschirner. 2,317,961; Apr. 27.
Material, Making hollow molded objects from organic plastic. F. C. Hall. 2,317,763; Apr. 27.
Material, Producing effects on textile. M. Kerth and A. Link. 2,317,466; Apr. 27.
Materials, Antiseptic. B. R. Harris. 2,317,378; Apr. 21.
Materials containing cellulose, Improving. C. Graenacher and R. Sallmann. 2,317,756; Apr. 27.
Materials, Impregnation of fibrous. E. Schuelke. 2,317,487; Apr. 27.
Materials, Plasticization of synthetic rubber-like. A. Koch and E. Gartner. 2,317,385; Apr. 27.
Measuring instrument. R. Ullman. 2,317,701; Apr. 27.
Metals, Joining of. R. H. D. Barklie and A. Lewis. 2,317,510; Apr. 27.
Military tank. C. F. Shaffer. 2,317,412; Apr. 27.
Mineral oils, Refining. G. S. Bays, Jr. 2,317,722; Apr. 27.
Mineral wool products by the "dry" process, Manufacturing. D. C. Drill. 2,317,895; Apr. 27.
Mirror, Automobile vanity. W. F. Vernon. 2,317,656; Apr. 27.
Mirrors, Manufacture of. E. J. Ballintine. 2,317,876–7; Apr. 27.
Mold board, Adjustable. E. Stroup. 2,317,560; Apr. 27.
Molding machine, Vertical rotary. W. J. Williams. 2,317,574; Apr. 27.
Motor: *See*—
Reciprocating fluid motor.
Motor control. W. E. Menzies and C. J. Werner. 2,317,630; Apr. 27.
Motor vehicle. J. G. Vincent. 2,317,423; Apr. 27.
Mount: *See*—
Friction damped engine mount.
Mounting for heat responsive instruments used in yarn package drying. H. S. Drum and W. C. Dodson. 2,317,896; Apr. 27.
Mounting means, Business machine. C. R. Mourey. 2,317,934; Apr. 27.
Mountings for electrical apparatus. H. A. Bredehoft. 2,317,665; Apr. 27.
Mutoscope. A. Berger. 2,317,881; Apr. 27.
N-vinyl lactams. W. Reppe, H. Krzikalla, O. Dornheim, and R. Sauerbier. 2,317,804; Apr. 27.
Nitro compounds from aqueous alcoholic mixtures containing nitromethane, Recovery of. M. Senkus. 2,317,557; Apr. 27.
Nozzle, Reaction. F. Neugebauer, A. Franz, S. Decher, and K. Meissner. 2,317,795; Apr. 27.
Oil and product obtained thereby, Treating tall. A. F. Oliver and R. C. Palmer. 2,317,797; Apr. 27.
Oil composition and producing the same, Synthetic drying. C. C. Allen and V. E. Haury. 2,317,663; Apr. 27.
Oil line metering plug. H. P. Phillips and W. C. Rivers. 2,317,638; Apr. 27.
Oil, Lubricating. P. K. Frolich and A. H. Gleason. 2,317,751; Apr. 27.
Oil, Refining petroleum. A. P. Hewlett and G. E. Phillips. 2,317,766; Apr. 27.
Oil testing apparatus. R. E. Burk and E. C. Hughes. 2,317,950; Apr. 27.
Oils and product, Producing drying. I. M. Colbeth. 2,317,361; Apr. 27.
Oils, Bodying of drying. J. D. Jenkins. 2,317,915; Apr. 27.
Oils, Process of treating. I. M. Colbeth. 2,317,362; Apr. 27.
Oils, Refining mineral. F. A. L. Holloway and D. O. Wilkes. 2,317,770; Apr. 27.
Operation check for automatic molding presses. C. J. Westin. 2,317,839; Apr. 27.
Optical system. L. L. Melior. 2,3177,790; Apr. 27.
Package, Bottle. A. H. Risch. 2,317,554; Aur. 27.
Package handle. W. J. Kitchen. 2,317,535; Apr. 27.
Packing runners for curtain rails. L. G. Hudson and N. Powell. 2,317,531; Apr. 27.
Panel, Trim. E. P. Bolen and E. R. Detrick. 2,317,583; Apr. 27.
Paperboard container. D. Bensel. 2,317,355; Apr. 27.
Paraffin alkylation process. C. J. Ott. 2,317,694; Apr. 27.
Permeable materials suitable for use as sausage casings, Manufacture of. O. L. Janser. 2,317,779; Apr. 27.
Phenylacetylene, Preparing. W. Sandhaas. 2,317,808; Apr. 27.
Photoelectric cell. E. Körber. 2,317,776; Apr. 27.
Photographic enlarger. G. G. Morin. 2,317,691–2; Apr. 27.
Photographic exposing and developing machine and the like. C. R. Betts, J. W. Nevius, and W. P. Hendrickson. 2,317,343; Apr. 27.
Photographic layers, System of improving. W. Fermazin. 2,317,750; Apr. 27.
Photographic material, Treating. A. Cramwinckel, C. J. Dippel, K. J. Keuning and F. L. Van Weenen. 2,317,591; Apr. 27.
Pickup and dumping attachment for tractors, Power. B. F. Arps. 2,317,578; Apr. 27.
Picture hook. L. E. Frey. 2,317,368; Apr. 27.
Pin: *See*—
Hat pin.
Piston, I. C. Bell. 2,317,433; Apr. 27.
Piston expander. V. D. Ackerman. 2,317,577; Apr. 27.
Piston ring. H. P. Phillips. 2,317,637; Apr. 27.
Piston ring, Composite. E. L. Bauer. 2,317,580; Apr. 27.
Planer, Metal. J. Daugherty. 2,317,674; Apr. 27.
Plasticizers. E. Higgins. 2,317,380; Apr. 27.
Plastics, Method for stress-relieving. J. H. Seaton. 2,317,409; Apr. 27.
Plate, Manufacturing tin. C. G. Preis. 2,317,403; Apr. 27.
Plates and bodies to be applied on iron tools and machine members. H. F. A. Lübbe and E. Krupp. 2,317,786; Apr. 27.
Plotting board. O. J. Mock. 2,317,856; Apr. 27.
Plow. G. R. Vinsonhaler. 2,317,567; Apr. 27.
Plow, Snow. M. F. Fitzpatrick. 2,317,680; Apr. 27.
Plug: *See*—
Oil line metering plug.
Polymerization of isibutylene containing material at low temperature. L. B. Turner. 2,317,868; Apr. 27.
Polymerized styrene-polyisoprene resin product. F. J. Soday. 2,317,857; Apr. 27.
Polymers of high molecular weight, Producing. L. A. Bannon. 2,317,878; Apr. 27.
Power operated window regulator. E. G. Simpson. 2,317,697; Apr. 27.
Power take-off. C. E. Frudden. 2,317,957; Apr. 27.
Press: *See*—
Die spotting press.
Press. M. H. Ballard. 2,317,432; Apr. 27.
Press. E. Cannon. 2,317,440; Apr. 27.
Presser, Pants. W. H. Ryan. 2,317,406; Apr. 27.
Pressing and steaming iron, Combination. E. H. Bassett. 2,317,716; Apr. 27.
Priming tube. C. H. Walker. 2,317,653; Apr. 27.
Printing and composition useful therein. A. E. Gessler and D. J. Bernardi. 2,317,372; Apr. 27.
Printing process for color photography. B. Gáspár. 2,317,369; Apr. 27.
Projection apparatus. D. F. Newman. 2,317,476; Apr. 27.
Projection device. J. J. Ormond. 2,317,550; Apr. 27.
Propeller hub, Aircraft. E. G. McCauley. 2,317,629; Apr. 27.
Puller: *See*—
Tie puller.
Pump: *See*—
Internal combustion engine with scavenging pump.
Purse, Lady's. M. C. Smith. 2,317,820; Apr. 27.

Punch and die. G. H. Miller. 2,317,791; Apr. 27.
Rack: *See*—
Clothes rack.
Radiator, Electromagnetic wave horn. M. Katzin. 2,317,464; Apr. 27.
Radio system, Directional. W. P. Lear. 2,317,922; Apr. 27.
Rake. F. L. Kallal. 2,317,916; Apr. 27.
Reaction products from sulphite cellulose waste liquor, Manufacture of. F. Vorsatz. 2,317,832; Apr. 27.
Reaction products of aldehydes and pyrimidine derivatives. G. F. D'Alelio and J. W. Underwood. 2,317,737; Apr. 27.
Reaction products of aldehydes and pyrimidyl cyanoalkyl sulphides. G. F. D'Alelio and J. W. Underwood. 2,317,736; Apr. 27.
Reaction products of aldehydes and triazine derivatives. G. F. D'Alelio and J. W. Underwood. 2,317,738; Apr. 27.
Reaction products of aldehydes and triazinyl cyanoalkyl sulphides. G. F. D'Alelio and J. W. Underwood. 2,317,739; Apr. 27.
Reactor. B. J. Flock. 2,317,449; Apr. 27.
Receiver, Superregenerative. W. A. Montgomery. 2,317,474; Apr. 27.
Receptacle. R. C. Talbot. 2,317,651; Apr. 27.
Reception medium, Facsimile. R. H. Marriott. 2,317,789; Apr. 27.
Reciprocating fluid motor, Electrically controlled. J. A. Muller and I. B. Lawyer. 2,317,549; Apr. 27.
Reel. M. H. Baal. 2,317,431; Apr. 27.
Reel for fishing lines. W. F. Watson. 2,317,835; Apr. 27.
Refractory body. L. H. Hepner and R. E. Tucker. 2,317,855; Apr. 27.
Refractory, furnaced walls and the like, Means for reinforcing. R. T. Giles. 2,317,451; Apr. 27.
Refrigeration. G. A. Brace. 2,317,517; Apr. 27.
Refrigeration. C. C. Coons. 2,317,519; Apr. 27.
Refrigeration. C. C. Coons. 2,317,520; Apr. 27.
Refrigeration apparatus. C. F. Alsing. 2,317,709; Apr. 27.
Refrigeration apparatus. R. A. King. 2,317,775; Apr. 27.
Refrigeration apparatus. C. F. Scott. 2,317,816; Apr. 27.
Refrigeration apparatus. A. F. Wild. 2,317,840; Apr. 27.
Refrigeration apparatus, Portable. H. F. Zimmerman. 2,317,871; Apr. 27.
Regulator: *See*—
Fluid temperature regulator.
Power operated window regulator.
Window regulator.
Relief valve. W. H. Lebo and R. L. Simpson. 2,317,923; Apr. 27.
Replacement point for rebuilding dragline bucket teeth. L. M. Moore. 2,317,932; Apr. 27.
Resinous compositions. H. C. Cheetham and C. L. Levesque. 2,317,668; Apr. 27.
Retort discharge mechanism. F. J. and E. West. 2,317,838; Apr. 27.
Ribbon bow, Production of. L. D. Hincher. 2,317,609; Apr. 27.
Ring: *See*—
Piston ring.
Rivet and making the same. C. W. Cherry and A. S. Mullgardt. 2,317,360; Apr. 27.
Rivet connection. M. Neubert. 2,317,794; Apr. 27.
Roaster. S. Lako, Jr. 2,317,388; Apr. 27.
Rod: *See*—
Welding rod.
Rod connection with piston and crank-shaft, Connecting. J. Armstrong. 2,317,429; Apr. 27.
Roofing, Making. A. C. Fischer. 2,317,596; Apr. 27.
Routing machine fixture. D. Jones. 2,317,616; Apr. 27.
Rubber-like products from derivatives of cashew nut shell liquid and method for producing the same. S. Caplan. 2,317,586; Apr. 27.
Rubber, Reclaiming of. H. Solakian. 2,317,491; Apr. 27.
Rubber structure. G. P. Hoff. 2,317,911; Apr. 27.
Rubber, Vulcanization of. P. C. Jones. 2,317,463; Apr. 27.
Safety apparatus. L. L. Weaver. 2,317,836; Apr. 27.
Sash construction, Glazed metal. H. Blanco. 2,317,581; Apr. 27.
Sawing machine. J. D. Wallace and C. H. Landis. 2,317,568; Apr. 27.
Scale, Printing. A. Hahn. 2,317,760; Apr. 27.
Scraper. E. R. Barrett. 2,317,511; Apr. 27.
Screen cloth, Making. R. D. Heller. 2,317,457; Apr. 27.
Screw cap molding machine. W. Strauss. 2,317,823; Apr. 27.
Seal for bottles. N. and J. Marino. 2,317,626; Apr. 27.
Seams for tanks, Making corrosion resistant bottom. G. B. Cook. 2,317,734; Apr. 27.
Seat. C. F. Kramer. 2,317,620; Apr. 27.
Seating for automobiles, Auxiliary. H. Doty. 2,317,894; Apr. 27.
Selection system. L. A. Meacham. 2,317,471; Apr. 27.
Sensitizer containing a gel-forming colloidal clay. C. A. Crowley and J. B. Mullen. 2,317,521; Apr. 27.
Separating calcium values from magnesium values. J. A. Murray. 2,317,396; Apr. 27.
Separator. T. B. Loftheim. 2,317,785; Apr. 27.
Sewage or other waste materials, System and method of treating. M. Levine. 2,317,782; Apr. 27.
Sewing machine for collars. H. Johnston. 2,317,614; Apr. 27.
Sewing machine mechanism. C. K. Stotz. 2,317,698; Apr. 27.
Shade, Black-out. A. M. Goodloe. 2,317,452; Apr. 27.
Shear, Power. R. H. Peterson. 2,317,553; Apr. 27.
Sheet material, Laminated. W. C. Calvert. 2,317,730; Apr. 27.
Shielding. F. J. W. Schoenborn. 2,317,813; Apr. 27.
Shoe. P. Weinstat. 2,317,870; Apr. 27.
Shoe bottom units and making the same. T. C. Morris and F. S. Gregory, Jr. 2,317,475; Apr. 27.
Shoe tree holder. E. T. Brace. 2,317,516; Apr. 27.
Shovel, Incendiary protective. H. G. McDonald. 2,317,688; Apr. 27.
Shuttle car. J. D. Russell. 2,317,644; Apr. 27.
Shuttle feeler. R. C. Draper and V. J. Ozella. 2,317,744; Apr. 27.
Signal. A. L. Lamar. 2,317,538; Apr. 27.
Signal device. T. J. Finley and E. J. Burke. 2,317,525; Apr. 27.
Signal mechanism. J. R. Anfiero. 2,317,713; Apr. 27.
Signaling apparatus, Railway. T. W. Tizzard, Jr. 2,317,562; Apr. 27.
Signaling device, Underinflated tire. A. G. Anderson. 2,317,509; Apr. 27.
Slicing machine. W. E. Lanham. 2,317,540; Apr. 27.
Sole for welt shoes, Inner. W. L. Knipe. 2,317,918; Apr. 27.
Speed transmission, Variable. A. Svoboda. 2,317,418; Apr. 27.
Spirit level. E. D. Ball. 2,317,715; Apr. 27.
Spool thread assembly. C. Huber. 2,317,771; Apr. 27.
Spray composition. C. D. Dolman. 2,317,741; Apr. 27.
Stamping die. F. S. Speicher and L. C. Hauer. 2,317,861; Apr. 27.
Starch, Modified. A. D. Fuller. 2,317,752; Apr. 27.
Steam iron. K. L. Woodman. 2,317,706; Apr. 27.
Steel, Production of. P. D. Nielsen. 2,317,793; Apr. 27.
Steering and control mechanism, Automatic. C. L. Paulus and R. K. Stout. 2,317,400; Apr. 27.
Stencil character punch and die sets, Making. O. J. Herb. 2,317,527; Apr. 27.
Stereoscopic photography. S. W. Athey and L. R. Stieff. 2,317,875; Apr. 27.
Stop, Countersink. H. L. Johnson. 2,317,615; Apr. 27.
Storage and dispensing system, Hydraulic. W. J. Peter and A. C. Kaestner. 2,317,800; Apr. 27.
Strainer for plumbing fixtures. M. Yavitch. 2,317,707; Apr. 27.
Strap for anchoring duplex electric conductors. J. A. Teas, Sr. 2,317,825; Apr. 27.
Straw, Production of artificial. G. Schneider. 2,317,486; Apr. 27.
Strike plate gauges. J. M. Johnson. 2,317,462; Apr. 27.
Strip feeding and severing device. A. A. Johnson. 2,317,384; Apr. 27.
Stripping mechanism. W. W. Urmetz. 2,317,565; Apr. 27.
Structure comprising synthetic resin, and making same, Composite. N. A. de Bruyne and C. A. A. Rayner. 2,317,364; Apr. 27.
Styrene-polybutadiene copolymer. F. J. Soday. 2,317,858; Apr. 27.
Styrene-polypiperylene copolymers. F. J. Soday. 2,317,859; Apr. 27.
Submarine weed cutting apparatus. G. C. Foerster. 2,317,367; Apr. 27.
Suction cleaner. R. D. Livingston. 2,317,543; Apr. 27.
Suction cleaner. H. B. White. 2,317,570; Apr. 27.
Support: *See*—
Flexible support.
Support for suction cleaners, Filter bag. J. W. Weaver. 2,317,569; Apr. 27.
Surface active agent. H. Robinette. 2,317,555; Apr. 27.
Surface intercooler, Direct. S. A. Whitt and S. Przyborowski. 2,317,572; Apr. 27.
Surveying instrument, Well. G. L. Kothny. 2,317,386; Apr. 27.
Switch: *See*—
Electric switch. Thermostatic switch.
Switching device. R. F. Mallina. 2,317,469; Apr. 27.
Switching mechanism. P. B. Drake. 2,317,743; Apr. 27.

Syringe construction, Hypodermic. A. E. Smith. 2,317,558; Apr. 27.
Tank: *See*—
Military tank.
Tank for liquid pumps, Blast. W. Nielebock. 2,317,796; Apr. 27.
Tape dispenser and applier, Gummed. L. L. Salfisberg. 2,317,943; Apr. 27.
Tape, Tab. N. I. Fleischer. 2,317,899; Apr. 27.
Telegraph apparatus, Printing. A. E. Thompson and R. D. Salmon. 2,317,496; Apr. 27.
Telemetric system. J. D. Ryder. 2,317,807; Apr. 27.
Telephone system. J. H. Voss. 2,317,833; Apr. 27.
Temperature control, Pasteurizer. N. J. Peters. 2,317,480; Apr. 27.
Tent. N. Bel Geddes. 2,317,682; Apr. 27.
Terminal box. G. R. Folds and R. M. Schultz. 2,317,450; Apr. 27.
Textile article, Convertible. E. H. Wallin. 2,317,834; Apr. 27.
Textiles, Coloring and decorating. N. S. Cassel. 2,317,359; Apr. 27.
Textiles, Method of finishing. W. W. Trowell. 2,317,499; Apr. 27.
Textiles, Sizing synthetic linear polyamide. J. E. Bristol. 2,317,728; Apr. 27.
Thermostat and method of manufacturing the same. V. G. Vaughan. 2,317,830; Apr. 27.
Thermostatic device. V. G. Vaughan and J. D. Bolesky. 2,317,831; Apr. 27.
Thermostatic switch. W. J. Turenne. 2,317,828; Apr. 27.
Tie for newspapers and the like. W. Zimmermann. 2,317,507; Apr. 27.
Tie plate and spike assembly. P. T. Black. 2,317,435; Apr. 27.
Tie puller. P. Ruggeri. 2,317,806; Apr. 27.
Tiller, Rotary. L. A. Wittrock. 2,317,841; Apr. 27.
Timing arrangement. B. F. Lewis. 2,317,783; Apr. 27.
Timing device, Ignition. C. Colvin. 2,317,885; Apr. 27.
Tire inflator, Dual. C. W. Parker. 2,317,636; Apr. 27.
Tire, Pneumatic. H. S. Howe. 2,317,912; Apr. 27.
Tires, Fabric airless. P. J. Swofford. 2,317,864; Apr. 27.
Tobacco, Treating. J. Moser. 2,317,792; Apr. 27.
Toboggan, Laminated. H. N. Smith. 2,317,414; Apr. 27.
Tocopherol, Purification or concentration of. J. G. Baxter. 2,317,353; Apr. 27.
Tool: *See*—
Coring tool. Machine tool.
Garden tool.
Torch cutting apparatus. S. W. Hayes. 2,317,526; Apr. 27.
Toy electric car. G. H. M. Dahl. 2,317,363; Apr. 27.
Transmission. V. Haigh. 2,317,761; Apr. 27.
Transmission gearing, Friction. W. L. Groene. 2,317,854; Apr. 27.
Transmission, Hydrodynamic. W. D. Tipton. 2,317,498; Apr. 27.
Transmission line. G. L. Usselman. 2,317,503; Apr. 27.
Transmission system for ultra short waves. H. Buchholz. 2,317,439; Apr. 27.
Trap: *See*—
Incendiary bomb trap. Vacuum trap.
Tray, Freezing. F. W. Sampson. 2,317,646; Apr. 27.
Tread, Reinforced. H. H. Bashore. 2,317,963; Apr. 27.
Treads, Manufacture of. W. H. Sayre. 2,317,960; Apr. 27.
Trestle. C. E. Dalton. 2,317,444; Apr. 27.
Trial frame. L. J. Alger. 2,317,873; Apr. 27.
Trolling device. A. M. Davidson and C. A. King. 2,317,445; Apr. 27.
Truck. F. E. Bachman. 2,317,352; Apr. 27.
Truck, Car. R. Leppla. 2,317,389–91; Apr. 27.
Truck, Railway. E. G. Hallquist. 2,317,377; Apr. 27.
Truck, Railway. K. F. Nystrom, E. S. Beckette, and V. L. Green. 2,317,399; Apr. 27.
Truck structure, Railway. K. F. Nystrom, E. S. Beckette, and V. L. Green. 2,317,398; Apr. 27.
Truck, Trailer. O. E. Zoder. 2,317,508; Apr. 27.
Tube: *See*—
Electron discharge tube. Priming tube.
Tube lighting apparatus, Luminescent. C. P. Boucher. 2,317,845; Apr. 27.
Tube system and apparatus, Luminescent. C. P. Boucher and F. Kuhl. 2,317,844; Apr. 27.
Tubes, Device for cleaning. W. B. Lincoln. 2,317,542; Apr. 27.
Tufting device. M. McIntyre. 2,317,914; Apr. 27.
Turbine transmission or drive, Highspeed hydraulic. H. O. Putt. 2,317,938; Apr. 27.
Under-drive for traveling cranes, monorails, and the like. A. L. Medenwald, E. B. Spencer, and G. B. Morris. 2,317,689; Apr. 27.
Undergarment. H. H. Smith. 2,317,819; Apr. 27.
Vacuum trap, Self-venting. I. Kirshenbaum and H. McCabe. 2,317,467; Apr. 27.
Valve: *See*—
Brake valve. Relief valve.
Conduit valve. Viscosity control valve.
Fluid control valve.
Valve. O. C. Martin. 2,317,627–8; Apr. 27.
Valve. W. A. V. Thomsen. 2,317,422; Apr. 27.
Valve and the like, Power driven. H. E. Hodgson and C. W. Kuhn. 2,317,529; Apr. 27.
Valve for wells, Bellows type slugging foot. A. Bynton. 2,317,356; Apr. 27.
Valve keeper inserter. H. A. Berkman. 2,317,512; Apr. 27.
Variable face cam. H. Devlin. 2,317,740; Apr. 27.
Vault, Waste. S. Nyboer. 2,317,693; Apr. 27.
Vehicle: *See*—
Motor vehicle.
Veneer gluing machine. R. L. Dennis. 2,317,446; Apr. 27.
Viscosity control valve. W. Worth. 2,317,427; Apr. 27.
Vise, Pipe holding. P. B. Wallace. 2,317,702; Apr. 27.
Vulcanizer. F. C. Dawson. 2,317,890; Apr. 27.
Wall. O. L. Gent. 2,317,907; Apr. 27.
Wall tile clip. D. B. Anderson. 2,317,428; Apr. 27.
Wash-basin assembly. R. G. Fensch and G. White. 2,317,898; Apr. 27.
Water cycle. J. Galkin. 2,317,905; Apr. 27.
Wave generating system. E. Peterson. 2,317,482; Apr. 27.
Welder's electrode holder. C. Laskey. 2,317,780; Apr. 27.
Welding electrode. J. Fletcher. 2,317,681; Apr. 27.
Welding machine electrode. O. W. Winter. 2,317,962; Apr. 27.
Welding rod. N. K. G. Tholand. 2,317,421; Apr. 27.
Welding, soldering, and fusing metals together. A. Rakos. 2,317,483; Apr. 27.
Well bores, Surveying. L. C. Miller. 2,317,632; Apr. 27.
Wheel and disks thereof, Polishing or buffing. T. Whitehead. 2,317,703; Apr. 27.
Wheel construction, Airplane. C. Hollerith. 2,317,610; Apr. 27.
Wheel construction, Dual. V. C. and E. V. Garnett. 2,317,906; Apr. 27.
Wheel structure. G. A. Lyon. 2,317,393; Apr. 27.
Wind sounding device. G. L. Herter. 2,317,458; Apr. 27.
Window operating mechanism. R. W. Treverton. 2,317,966; Apr. 27.
Window regulator. E. G. Simpson. 2,317,490; Apr. 27.
Window structure. P. H. Kuyper. 2,317,686; Apr. 27.
Wire, Coated metal. W. J. Scheiber. 2,317,811; Apr. 27.
Wrench. L. C. Jackson. 2,317,461; Apr. 27.
Wringer, Adjustable pressure. H. W. Altorfer. 2,317,575; Apr. 27.
Yarn processing apparatus. A. L. Ewing. 2,317,747; Apr. 27.
Yarn winding device. R. R. Almy. 2,317,874; Apr. 27.
Yarns or films, Manufacture of artificial textile. J. B. Speakman and N. H. Chamberlain. 2,317,492; Apr. 27.

APPLICATIONS VESTED IN ALIEN PROPERTY CUSTODIAN

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CLASS 1

A.P.C. 238,144 Stapling devices. Rudolf Vancura, Wien/Vienna, Germany Published April 27, 1943.

A.P.C. 276,724. Stapling machines. Franz Muske, Bremen-Sedaldsbruck, Germany, Published April 27, 1943.

A.P.C. 351,747. Paper fastening devices. Josef Kunert, Nixdorf, Sudetenland, Germany. Published April 27, 1943.

A.P.C. 357,954. Shoe-tip tacking machine with punching device. Walter Gleissner, Weissenfels-Saale, Germany. Published April 27, 1943.

CLASS 2

A.P.C. 277,366. Band of textile fabric adapted for having closure elements such as press-button closure elements pressed into the same, or provided with such pressed-in closure elements. Jean Persin, Paris, France. Published April 27, 1943.

A.P.C. 343,057. Manufacture of hosiery. Friedrich Oswald Donner, Chemnitz, Germany. Published April 27, 1943.

A.P.C. 351,649. Bathing cap. Bela Szekeres, Budapest, Hungary. Published April 27, 1943.

A.P.C. 368,083. Double walled bathing cap. Eugen Benzer, Wurtemberg, Germany. Published April 27, 1943.

A.P.C. 434,119½. Breeches, specially pants. Otto Lesser, Berlin, Germany. Published April 27, 1943.

A.P.C. 437,192. Stockings. Tibor Weisz, Budapest, Hungary. Published April 27, 1943.

CLASS 8

A.P.C. 172,764. Method of and means for treating textile materials. Ehrhart Franz, Leipzig, Germany. Published April 27, 1943.

A.P.C. 221,022. Finishing. Kurt Quehl, Zwickau, Germany. Published April 27, 1943.

A.P.C. 275,399. Dyeing cellulose esters. Robert Schnegg, Dormagen, Germany. Published April 27, 1943.

A.P.C. 299,777. Method for bleaching cellulose. Erich Knopf, Berlin, Germany. Published April 27, 1943.

A.P.C. 325,654. Mercerizing baths and treatments with caustic alkali. Anto Volz, Ludwigshafen-on-the-Rhine, Germany. Published April 27, 1943.

A.P.C. 327,734. Process for making artificial textile fibres resistant to damp heat and to hot dyeing. Giorgio Chiera Di Vasco, Turin, Italy. Published April 27, 1943.

A.P.C. 356,112. Process for the manufacture of cigarette paper. Wilhelm Gartner, Darmstadt, Germany. Published April 27, 1943.

A.P.C. 356,113. Method for the preparation of superior cellulose. Wilhelm Gartner, Darmstadt, Germany. Published April 27, 1943.

A.P.C. 356,565. Process of treating fibrous materials and the materials thus obtained. Hermann Haakh, Bad Soden (Taunus), Germany. Published April 27, 1943.

A.P.C. 358,667. Dyeing cellulose esters. Robert Schnegg, Dormagen, Germany. Published April 27, 1943.

A.P.C. 375,488. Process for the carroting of animal hairs. Egon Elod, Heidelberg, Germany. Published April 27, 1943.

A.P.C. 379,722. Process for manufacture of effect threads. Laszlo Hermann, Budapest, Hungary. Published April 27, 1943.

A.P.C. 386,770. Process of improving casein fibers and the material thus obtained. Herbert Bestian et al., Frankfurt-am-Main, Germany. Published April 27, 1943.

A.P.C. 391,542. Process of dyeing shaped articles made from synthetic linear condensation polyamides and polyurethanes. Joachim Mueller et al., Ludwigshafen-on-Rhine, Germany. Published April 27, 1943.

A.P.C. 401,531. Process for the bleaching of cellulose material. Emil Scheller, Lorsbach (Taunus), Germany. Published April 27, 1943.

A.P.C. 416,422. Method of dyeing and finishing textiles. Ernst Schubert et al., Jonsdorf, near Zittau, Germany. Published April 27, 1943.

A.P.C. 416,423. Dyeing and finishing of textiles. Ernst Schubert et al., Jonsdorf, near Zittau, Germany. Published April 27, 1943.

CLASS 9

A.P.C. 283,290. Collapsible boat. Willi Schutte, Berlin, Germany. Published April 27, 1943.

A.P.C. 315,073. Ships' lifeboats. Ane Pieter Schat. Utrecht, Netherlands. Published April 27, 1943.

A.P.C. 332,049. Swimming and life saving equipments. Raffaele Caselle, Rapolla, Italy. Published April 27, 1943.

A.P.C. 370,077. Life-saving suit. Carl Dybberg. Bygody, Aker, Norway. Published April 27, 1943.

A.P.C. 381,116. Luffing davit. Ane Pieter Schat, Utrecht, Netherlands. Published April 27, 1943.

A.P.C. 416,884. Protecting and launching device for lifeboats. Thorolf Schroder-Nielsen, Oslo, Norway. Published April 27, 1943.

A.P.C. 418,094. Tipping gravity davits for lifeboats. Antonino Pampinella, Rome, Italy. Published April 27, 1943.

CLASS 10

A.P.C. 308,146. Method and tool for cutting threads. Karl Schwendenwein, Esslingen, Germany. Published April 27, 1943.

CLASS 12

A.P.C. 373,679. Shoe and boot pasting press with circulating press moulds. Arno Erbe, Freital, near Dresden, Germany. Published April 27, 1943.

A.P.C. 374,645. Shoe forming and toe lasting machine. Heinrich Walther, Sr., Frankfort-on-Main-Oberrad, Germany. Published April 27, 1943.

CLASS 13

A.P.C. 258,310. Method for the cutting of the bevel on hull planks in carvel built vessels. Bjarne Aas, Fredrikstad, Norway. Published April 27, 1943.

A.P.C. 295,028. Method and means for manufacturing glass. Yvan Peyches, Paris, France. Published April 27, 1943.

A.P.C. 334,633. Devices for regulating the temperature of electric furnaces of the resistance type. Erwin Pierre Jung, Paris, France. Published April 27, 1943.

A.P.C. 409,742. Arrangement in self-baking electrodes. Mathias O. Sem et al., Smestad, Norway. Published April 27, 1943.

CLASS 14

A.P.C. 228,204. Suspension bridge. Wilhelm Haupt, Dortmund-Hoerde, Germany. Published April 27, 1943.

A.P.C. 291,581. Portable bridge structure. Georg Thofehrn et al., Berlin, Germany. Published April 27, 1943.

A.P.C. 377,041. Process and device for the tensioning and anchoring of cables, particularly in concrete constructions. Eugene Freyssinet, Neuilly-sur-Seine, France. Published April 27, 1943.

CLASS 15

A.P.C. 190,794. Suction brush for vacuum cleaners. Wilhelm Weimers, Berlin-Reinickendorf, Germany. Published April 27, 1943.

A.P.C. 344,417. Combined carpet sweeper and dust exhaustor. Friedrich Eisenlohr, Stuttgart-Bad Cannstatt, Germany. Published April 27, 1943.

CLASS 16

A.P.C. 368,949. Concealed hinges. Livio Cencioni, Rome, Italy. Published April 27, 1943.

A.P.C. 420,411. Door closers with oil brake. Gunnar N. Pettersen, Oslo, Norway. Published April 27, 1943.

CLASS 17

A.P.C. 387,351. Sausage machine. Karl Gotzinger, Ternitz, Germany. Published April 27, 1943.

A.P.C. 387,504. Process of separating shells and meats of crustacea. Johan E. Geldermans et al., Eindhoven, Holland. Published April 27, 1943.

A.P.C. 387,514. Method of separating meats from the shells of mollusks. Engbert H. Reerink et al., Bussum, Holland. Published April 27, 1943.

CLASS 18

A.P.C. 96,470. Manufacture of artificial textile fibres. Antonio Ferretti, Milan, Italy. Published April 27, 1943.

A.P.C. 106,911. Manufacture of artificial textiles. Stefano Sordelli, Turin, Italy. Published April 27, 1943.

A.P.C. 197,564. Spinning nozzle. Bernhard Wempe, Berlin-Charlottenburg, Germany. Published April 27, 1943.

A.P.C. 206,948. Process and apparatus for the manufacture of artificial sausage skins. Oskar W. Becker et al., Heidelberg, Germany. Published April 27, 1943.

A.P.C. 225,207. Method and apparatus for spinning. Anton Formhals, Mainz, Germany. Published April 27, 1943.

A.P.C. 230,512. Apparatus for forming threads or filaments from mixtures of solid and liquid matter Otto Roelen, Oberhausen-Holten, Germany. Published April 27, 1943.

A.P.C. 233,688. Polarizing bodies. Erwin Kusemann, Klein-Machnow bei Berlin, Germany. Published April 27, 1943.

A.P.C. 245,052. Method and an arrangement for the longitudinal covering of electric wires. Friedrich Klute et al., Berlin-Charlottenburg, Germany. Published April 27, 1943.

A.P.C. 249,246. A method for extruding artificial substances onto wires, tubes, insulated conductors, cables and other shapes. Hans Muller, Berlin-Wilmersdorf, Germany. Published April 27, 1943.

A.P.C. 253,230. Process of manufacturing filaments, films and the like from keratinous materials. Jacob Van Den Bergh et al., Nijmegen, Netherlands. Published April 27, 1943.

A.P.C. 254,159. Photosensitive material and process of making same. Friedrich Lierg, Berlin-Zehlendorf, Germany. Published April 27, 1943.

A.P.C. 257,029. Treatment of wet spun protein products. George S. de Kadt, Leeuwarden, Netherlands. Published April 27, 1943.

A.P.C. 257,030. Process for spinning proteins. George S. de Kadt, Leeuwarden, Netherlands. Published April 27, 1943.

A.P.C. 257,546. Power transmission elements. Herbert Berg, Burghausen, Oberbayern, Germany. Published April 27, 1943.

A.P.C. 258,329. Mechanical closing devices for injection moulding machines. Hans Gastrow, Zerbst in Anhalt, Germany. Published April 27, 1943.

A.P.C. 268,117. Articles molded from synthetic resin. Walter Engel, Nice, France. Published April 27, 1943.

A.P.C. 270,919. Manufacture of artificial textile fibres. Antionio Ferretti, Milan, Italy. Published April 27, 1943.

A.P.C. 273,414. Monofils of synthetic resins. Emil Hubert et al., Dessau-Ziebigk, Germany. Published April 27, 1943.

A.P.C. 273,993. Manufacture of plates of large superficial area. Gustav A. Haseke, Bremen, Germany. Published April 27, 1943.

A.P.C. 277,955. Process for manufacturing artificial fiber from protein contained in soy-bean. Toshiji Kajita et al., Tokyo, Japan. Published April 27, 1943.

A.P.C. 277,956. Process for manufacturing artificial fiber from protein contained in soy-bean. Toshiji Kajita et al., Tokyo, Japan. Published April 27, 1943.

A.P.C. 280,527. Production of threads. Giovanni Campolunghi, Rome, Italy. Published April 27, 1943.

A.P.C. 285,774. Wool-like artificial filaments. Gunther Bugge, Neu-Isenburg, Germany. Published April 27, 1943.

A.P.C. 285,944. Method and means for the production of ornamental screen-like material. Daniel Swarovski, Wattens, Tyrol, Germany. Published April 27, 1943.

A.P.C. 286,033. Apparatus for kneading and mixing rubber. Karl Frei, Oberesslingen, Germany. Published April 27, 1943.

A.P.C. 287,002. Hollow rubber toys of big size and process for their production. Rudolph Fraknoi, Matyasfold, Hungary. Published April 27, 1943.

A.P.C. 295,606. Method of additionally hardening natural or artificial substances of a particular structure having linear chain molecules. Willi Mertens, Berlin-Zehlendorf, Germany. Published April 27, 1943.

A.P.C. 299,781. Process of making floor coverings. Raffaele, Amendola, Milano, Italy. Published April 27, 1943.

A.P.C. 301,162. Producing injection-moulded articles. Heinrich Hopff et al., Ludwigshafen-on-Rhine, Germany. Published April 27, 1943.

A.P.C. 301,175. Manufacture of records especially sound recording records from vinylpolymers. Wilhelm Wehr, Eilenburg, Germany. Published April 27, 1943.

A.P.C. 304,632. Manufacture of flexible sheet material. Remi Gustave Tritsmans et al., Mortsel, near Antwerp, Belgium. Published April 27, 1943.

A.P.C. 304,867. Process and device for the manufacture of gas masks. Emile Jean A. Lejeune, Paris, France. Published April 27, 1943.

A.P.C. 307,983. Synthetic linear polyamides. Paul Schlack, Berlin-Treptow, Germany. Published April 27, 1943.

A.P.C. 313,138. Manufacture of shaped products, such as flexible tubes, thin sheets or threads, from animal fibrous starting materials. Hans Freudenberg, Weinheim/Baden, Germany. Published April 27, 1943.

A.P.C. 314,526. Process and apparatus for continuously producing plastic masses. Klaus Raschig, Ludwigshafen-am-Rhein, Germany. Published April 27, 1943.

A.P.C. 314,880. Process for the manufacture of fibres, filaments, threads, films and the like from solutions of proteins, particularly casein. Maria Gesina Ter Horst, Amsterdam, Holland. Published April 27, 1943.

A.P.C. 317,950. Process and device for manufacturing pressings. Alfred Suchann, Vienna, Germany. Published April 27, 1943.

A.P.C. 322,152. Method of mass production of objects formed of moldable material having embedded a plurality of small pieces. Daniel Swarvoski, Wattens, Tyrol, Germany. Published April 27, 1943.

A.P.C. 323,524. Process for the production of artificial leather, linoleum, covering fabrics, driving belts, packing rings and similar structures. Emil Hubert et al., Dessau-Ziebigk, Germany. Published April 27, 1943.

A.P.C. 326,533. Production of hollow products. Walter Opavsky, Altenhammer/Bayer Ostmark, Germany. Published April 27, 1943.

A.P.C. 328,374. Manufacture of fibers and foils. Joachim Amende et al., Ludwigshafen-Rhein, Germany. Published April 27, 1943.

A.P.C. 330,725. Embodiment in the process for manufacturing artificial textile fibres from animal casein. Antonio Ferretti, Milan, Italy. Published April 27, 1943.

A.P.C. 330,726. Embodiment in the process for manufacturing artificial textile fibres from animal casein. Antonio Ferretti, Milan, Italy. Published April 27, 1943.

A.P.C. 330,727. Process for manufacturing artificial textile fibres from casein. Antonio Ferretti, Milan, Italy. Published April 27, 1943.

A.P.C. 330,728. Embodiment in the process for manufacturing artificial textile fibres from animal casein. Antonio Ferretti, Milan, Italy. Published April 27, 1943.

A.P.C. 334,656. Process for producing filaments, threads, fibres, bands, films, and the like from proteins. Lambertus A. Van Bergen, Aarle-Rixtel, Netherlands. Published April 27, 1943.

A.P.C. 337,660. Vulcanizing molds for vehicle tires made of rubber. Carl Hubener, Hannover, Germany. Published April 27, 1943.

A.P.C. 337,674. Molding press. Heinrich Schmidberger, Vienna, Germany. Published April 27, 1943.

A.P.C. 337,675. Molding press. Heinrich Schmidberger, Vienna, Germany. Published April 27, 1943.

A.P.C. 338,886. Process of producing articles by an injection moulding machine. Gerhard Kirchner, Roda-Bei Ilmenau, Thuringia, Germany. Published April 27, 1943.

A.P.C. 339,371. Method for the manufacture of pencil-leads. Otto Manfred, Brun, Moravia. Published April 27, 1943.

A.P.C. 341,183. Process for the production of artificial filaments, fibers, and foils. Johannes Kleine, Dessau, Germany. Published April 27, 1943.

A.P.C. 341,238. Welding burner for thermoplastic materials. Fritz Rolf Meyer et al., Koln-Mulheim, Germany. Published April 27, 1943.

A.P.C. 341,900. Process for the production of protheses. Max Burkhardt et al., Hanau-on-the-Main, Germany. Published April 27, 1943.

A.P.C. 342,400. Presses for making work-pieces conically tapering in longitudinal direction. Wilhelm Manken et al., Waren, near Berlin, Germany. Published April 27, 1943.

A.P.C. 342,401. Presses for making work-pieces conically tapering in longitudinal direction. Ulrich Nissen, Berlin-Hermsdorf, Germany. Published April 27, 1943.

A. P. C. 342,900. Copying models. Hanns Fickert et al., Frankfort-on-the-Main, Germany. Published April 27, 1943.

A.P.C. 343,168. Method of manufacturing synthetic fibres from polyvinyl alcohol. Ichiro Sakurada et al., Kyoto, Japan. Published April 27, 1943.

A.P.C. 344,455. Insulated carbon body. Ottmar Conradty, Rothenbach-on-the-Pegnitz, Germany. Published April 27, 1943.

A.P.C. 346,897. Manufacturing male members of snaps. Juzo Morita, Schinmachidori, Nishi-ku, Osaka, Japan. Published April 27, 1943.

A.P.C. 347,559. Conical belts. Johann Meyer, Berlin-Steglitz, Germany. Published April 27, 1943.

A.P.C. 348,991. Processes for the manufacture of artificial textile fibres. Antonio Ferretti, Milan, Italy. Published April 27, 1943.

A.P.C. 348,993. Processes for the manufacture of artificial textile fibres. Antonio Ferretti, Milan, Italy. Published April 27, 1943.

A.P.C. 348,994. Processes for the manufacture of artificial textile fibres. Antonio Ferretti, Milan, Italy. Published April 27, 1943.

A.P.C. 349,256. Spinning method. Gerhard Aschenbrenner et al., Babelsberg, near Berlin, Germany. Published April 27, 1943.

A.P.C. 352,364. Process for the production of shaped structures from reversibly moldable synthetic resins. Eugen Dumont, Troisdorf, near Cologne, Germany. Published April 27, 1943.

A.P.C. 354,117. Mutual precipitation of polyamides and cellulose. Kurt Thinius, Eilenburg, Germany. Published April 27, 1943.

A.P.C. 358,465. Manufacture of fibers from synthetic linear polycondensation products. Paul Schlack, Berlin-Treptow, Germany. Published April 27, 1943.

A.P.C. 359,975. Method of producing sound band matrices. Hugo Westerkamp, Koln-Poll, Germany. Published April 27, 1943.

A.P.C. 360,188. Process for the production of tightening plates. Karl L. Diehl, Opladen, Germany. Published April 27, 1943.

A.P.C. 360,776. Manufacture of artificial filaments and fibers from viscose. Heinrich Fink et al., Rottweil-am-Neckar, Germany. Published April 27, 1943.

A.P.C. 361,649. Increasing the elasticity of textile fibres. Walter Voigt, Saalfeld/Saale, Germany. Published April 27, 1943.

A.P.C. 362,260. Method and apparatus for producing fine hollow threads. Ludwig Egger et al., Burghausen, Germany. Published April 27, 1943.

A.P.C. 362,296. Key head. Hans Martin et al., Erfurt, Germany. Published April 27, 1943.

A.P.C. 362,460. Threads of high bending strength. Herbert Berg et al., Burghausen, Germany. Published April 27, 1943.

A.P.C. 363,920. Multistage longitudinal covering machine. Rudolf Arnold et al., Berlin-Charlottenburg, Germany. Published April 27, 1943.

A.P.C. 364,354. Process of decreasing the sensitiveness to water of formed materials from interpolyamides. Paul Moller et al., Dessau, Germany. Published April 27, 1943.

A.P.C. 368,312. Method and means for producing articles from a thermoplastic material. Emil Hempel, Zerbst (Anhalt), Germany. Published April 27, 1943.

A.P.C. 368,953. Producing threads and the like from viscose. Jureuus Harms, Berlin-Wilmersdorf, Germany. Published April 27, 1943.

A.P.C. 369,127. Process for the production of artificial filaments, fibers and foils. Johannes Kleine, Dessau, Germany. Published April 27, 1943.

A.P.C. 369,228. Light polarizing bodies and method of producing same. Kurt Meyer et al., Berlin-Zehlendorf, Germany. Published April 27, 1943.

A.P.C. 369,752. Pressed slabs of wooden material and process of manufacturing the same. Richard Schweizer et al., Hamburg, Germany. Published April 27, 1943.

A.P.C. 371,188. Method and apparatus for molding under pressure, particularly injection molding plastic material. Fritz von Opel, New York, N. Y., a citizen of Lichtenstein. Published April 27, 1943.

A.P.C. 373,140. Artificial fibers. Erich Graumann et al., Premnitz, Germany. Published April 27, 1943.

A.P.C. 374,597. Optical element. Herre, Rinia, Eindhoven, Holland. Published April 27, 1943.

A.P.C. 378,642. Spinning nozzle for the production of artificial hollow threads. Hermann Holzmann. Hanau-am-Main, Germany. Published April 27, 1943.

A.P.C. 375,092. Polyamide articles. Wilhelm Wehr, Ellenburg, Germany. Published April 27, 1943.

A.P.C. 375,537. Manufacture of artificial fibres, threads, bands, ribbons. horsehair, films and the like. Leo Ubbelohde, Berlin-Charlottenburg, Germany. Published April 27, 1943.

A.P.C. 378,721. Spinning frame for the production of artificial silk in continuous operation. Otto Bochmann, Remscheld-Lennep, Germany. Published April 27, 1943.

A.P.C. 379,672. Treatment of wet spun protein products. Georg S. de Kadt, Leerwarden, Netherlands. Published April 27, 1943.

A.P.C. 381,674. Die or pressure casting machines for plastic masses. Gerhard Thilenius, Koln, Germany. Published April 27, 1943.

A.P.C. 382,342. Polyamide articles. Wilhelm Wehr, Ellenburg, Germany. Published April 27, 1943.

A.P.C. 382,773. Process for manufacturing casein filaments. Antonio Ferretti, Milan, Italy. Published April 27, 1943.

A.P.C. 391,751. Melting apparatus. Wolf Rodenacker, Berlin-Zehlendorf, Germany. Published April 27, 1943.

A.P.C. 391,802. Method of connecting parts made of thermoplastic artificial materials, preferable consisting of mixed polymerizates. Jakob Custers, Munchen-Gladbach, Germany. Published April 27, 1943.

A.P.C. 395,688. Manufacture of articles or plastic material having projecting pattern or ornamentation in the surface thereof. Frantisek Grundel, Napajedla, Bohemia and Moravia. Published April 27, 1943.

A.P.C. 399,750. Superpolyamide films. Otto Herrmann et al., Wiesbaden, Germany. Published April 27, 1943.

A.P.C. 400,859. Process of moulding objects. Jan C. Derksen, Eindhoven, Holland. Published April 27, 1943.

A.P.C. 405,458. Method and apparatus for molding under pressure, particularly injection molding plastic material. Fritz von Opel, New York, N. Y., a citizen of Lichtenstein. Published April 27, 1943.

A.P.C. 432,515. Elastic connecting members. Jean Felix Paulsen, Saint-Genis-Laval, France. Published April 27, 1943.

A.P.C. 521,022. Manufacture of cellulose compounds. Leon Lilienfeld, Vienna, Germany. Published April 27, 1943.

A.P.C. 715,003. Polymerized vinyl compounds. Carl Wulff et al., Ludwigshafen-on-Rhine, Germany. Published April 27, 1943.

CLASS 19

A.P.C. 182,910. Yarn and method of making same. Ehrhart Franz, Leipzig, Germany. Published April 27, 1943.

A.P.C. 330,410. Method of and arrangement for extracting metal bodies from webs of textile materials. Hubert Duesberg, Brussels, Belgium. Published April 27, 1943.

A. P. C. 331,471. Carding machines with direct drive. Hubert Duesberg, Brussels, Belgium. Published April 27, 1943.

A.P.C. 351,493. Method and apparatus for the loosening of matted fibrous materials. Rudolf Kern, Seiburg, Germany. Published April 27, 1943.

A.P.C. 359,969. Removing woody matter from the stem fibres of textile plants. Leonida Antonelli, Padova, Italy. Published April 27, 1943.

A.P.C. 362,480. Method of manufacturing wool or silk-like fibres from the collagen such as fatty layers, tendous, etc., of animals. Yoshio Ishida, Shimo Ochiai, Yodobashi-ku, Tokyo, Japan. Published April 27, 1943.

A.P.C. 394,669. Pressure device for drawing cylinders for fly frames having three, four or more cylinders. Luigi Marzoli, Palazzolo Sull'Oglio, Italy. Published April 27, 1943.

A.P.C. 394,670. Pressure hinged lever system for cylinders of silver or lap drawing frames for use in spinning textile fibres of various kinds. Luigi Marzoli, Palazzolo Sull'Oglio, Italy. Published April 27, 1943.

A.P.C. 397,475. Automatic silk-titre regulating device. Antonio Tasso, Genoa, Italy. Published April 27, 1943.

A.P.C. 410,217. Method and apparatus for extracting fibers from fibrous husks. Hilarion G. Henares, Manila, P. I. Published April 27, 1943.

CLASS 20

A.P.C. 185,492. Materials comprising corrugated wood. Friedrich Wilhelm Franke, Leipzig, Germany. Published April 27, 1943.

A.P.C. 235,842. Wooden frame trusses. Wilhelm Suhlberg, Niesky (Oberlausitz), Germany. Published April 27, 1943.

A.P.C. 327,119. Partuetry flooring. Lorenz Malzer, Frankfurt (Main), Germany. Published April 27, 1943.

A.P.C. 362,468. Reinforced door of wood and/or insulation material. Johannes Brynjulvsen Een, Oslo, Norway. Published April 27, 1943.

A.P.C. 367,214. Sound absorbing or attenuant arrangement for reverberant rooms. Heinrich Benecke, Berlin, Germany. Published April 27, 1943.

A.P.C. 382,255. Transparent clear sight foil sheet materials. Otto Bornemann, Berlin-Grunewald, Germany. Published April 27, 1943.

A.P.C. 417,671. Sound absorbing structure. Hanns-Heinz Wolff, Berlin, Germany. Published April 27, 1943.

A.P.C. 443,629. Compressed foliated wood. Marcel Francois Crouet, Beauchamp, France. Published April 27, 1943.

CLASS 21

A.P.C. 342,356. Process and to suitable apparatus for disinfection and for destruction of bacteria, respectively. Richard Muller, Berlin, Germany. Published April 27, 1943.

A.P.C. 364,400. Long-fiber light-weight timber. Pier Carlo Ricchiardi et al., Paris, France. Published April 27, 1943.

A.P.C. 434,266. Process for sterilization of organic substances containing microorganisms, bacteria, fungi, or spores. Henry M. Christensen, Copenhagen, Denmark. Published April 27, 1943.

A.P.C. 390,995. Wood impregnating plants. Axel C. Blichfeldt-Petersen, Hellerup, near Copenhagen, Denmark. Published April 27, 1943.

CLASS 22

A.P.C. 162,538. Process for casting metal ingots and devices thereto. Walter Roth et al., Hannover, Germany. Published April 27, 1943.

A.P.C. 176,880. Inside-lined light metal engine-cylinder and method of making same. Alfred Lesage, Schweinfurt, Germany. Published April 27, 1943.

A.P.C. 388,131. Centrifugated tubular bodies and processes and apparatuses for their manufacture. Jacques Boucher, Paris, France. Published April 27, 1943.

A.P.C. 436,540. Molds and in particular to foundry cores and to their manufacture. Georges Passeleco, Paris, France. Published April 27, 1943.

CLASS 23

A.P.C. 249,348. Methods and apparatus for determining combustible gases in gas mixtures. Reinhold Weber, Kassel Kirchditmold, Germany. Published April 27, 1943.

A.P.C. 259,213. Synthetic asbestos and process for making same. Werner Ludke, Leipzig, Germany. Published April 27, 1943.

A.P.C. 264,995. Apparatus for performing endothermic catalytic reactions in the gas-phase. Roman Witkiewicz, Lwow, Poland. Published April 27, 1943.

A.P.C. 270,689. Process of manufacturing alkaline silicates in powder form. David Kusman, Brussels, Belgium. Published April 27, 1943.

A.P.C. 280,215. Process for the production of caustic burned magnesia. Josef Berlek, Radenthein, Germany. Published April 27, 1943.

A.P.C. 293,101. Method of preparing sodium perborate of low bulk density. Hugo Nees, Francfort-on-Main, Germany. Published April 27, 1943.

A.P.C. 306,071. Processes for the manufacture of ammonium nitrate. Giacomo Fauser, Milan, Italy. Published April 27, 1943.

A.P.C. 322,548. Extraction of vanadium and phosphorus from residues of the preparation of alumina according to the alkaline method. Franco Sciacca, Milan, Italy. Published April 27, 1943.

A.P.C. 323,570. Methods for solving raw aluminates of lime in water and eventually recovering alumina from such solutions. Jean Charles Seailles, Paris, France. Published April 27, 1943.

A.P.C. 323,624. Plant for the preparation of hydrogen under pressure. Georges Francois Jaubert, Paris, France. Published April 27, 1943.

A.P.C. 325,811. Manufacture of nitrates of metals of the alkaline metal group. Henry Johnsen, Notodden, Norway. Published April 27, 1943.

A.P.C. 333,370. Process of preparing polyphosphates and polyphosphate mixtures. Karl R. Andress et al., Erlangen, Germany. Published Apri 27, 1943.

A.P.C. 339,015. Process of manufacturing sodium cyanide. David Kusman, Brussels, Belgium. Published April 27, 1943.

A.P.C. 347,040. Process of producing magnesium oxide. Wilhelm Moschel et al., Bitterfeld, Germany. Published April 27, 1943.

A.P.C. 347,565. Method for the removal of carbonic oxide from gases or mixtures of gases containing sulphur compounds by a contact process with steam catalysis. Richard Brandt, Berlin, Germany. Published April 27, 1643.

A.P.C. 352,420. Apparatus for carrying out catalytic gas reactions. Wilhelm Pfannmuller et al., Mannheim, Germany. Published April 27, 1943.

A.P.C. 353,130. Process for removing oxygen out of industrial gas-mixtures. Friedrich Martin, Mulheim-Ruhr, Germany. Published April 27, 1943.

A.P.C. 355,830. Process for the dehydration and calcination of potash alum. Gino Gallo, Pisa, Italy. Published April 27, 1943.

A.P.C. 359,350. Decomposition of sodium aluminate liquor. Hans Tiedemann, Tokyo, Japan. Published April 27, 1943.

A.P.C. 362,376. Recovery of sulphur from hydrogen sulfide or hydrogen sulfide containing gases. Heinrich Koppers, Essen, Germany. Published April 27, 1943.

A.P.C. 365,238. Process for extracting potassium and aluminium from a mixture of potassium and aluminium silicates. Gerlando Marullo, Milan, Italy. Published April 27, 1943.

A.P.C. 365,412. Appliance for catalytic reactions. Carlo Picconi, Terni, Italy. Published April 27, 1943.

A.P.C. 368,458. Process for extracting magnesia from aqueous solutions containing convertible magnesium salts, such as sea-water, etc. Jean Charles Seailles, Paris, France. Published April 27, 1943.

A.P.C. 369,402. Process for extracting potassium aluminate from mixed potassium aluminium silicates. Giacomo Fauser, Milan, Italy. Published April 27, 1943.

A.P.C. 370,863. Process of preparing anhydrous sodium-orthosilicate and sodium pyrosilicate. Eduard Zintl, Darmstadt, Germany. Published April 27, 1943.

A.P.C. 374,583. Method and device for detecting traces of foreign gases, vapours or mists in the atmosphere. Jan Boeke, Eindhoven, Holland. Published April 27, 1943.

A.P.C. 375,665. Process for the production of alkali metal percarbonate. Friedrich Pressel et al., Rheinfelden/Baden, Germany. Published April 27, 1943.

A.P.C. 375,666. Process for the production of alkali métal percarbonates. Friedrich Pressel et al., Rheinfelden/Baden, Germany. Published April 27, 1943.

A.P.C. 379,872. Process for the decomposition of metal salts to form oxides. Karl Ebner, Oberursel/Taunus, Germany. Published April 27, 1943.

A.P.C. 383,338. Method and device for partial or complete azotizing of calcium carbide and carbide mixtures. Rudolf Wendlandt et al., Piesteritz, near Halle, Germany. Published April 27, 1943.

A.P.C. 389,254. Process for preparing alumina from aluminum sulfite. Friedrich W. Wrigge et al., Lautawerk (Lausitz), Germany. Published April 27, 1943.

A.P.C. 391,007. Producing alumina. Walter Dyckerhoff et al., Mainz-Amoneburg, Germany. Published April 27, 1943.

A.P.C. 397,105. Removing acetylene hydrocarbons from gases. Hans Klein, Mannheim, Germany. Published April 27, 1943.

A.P.C. 397,992. Device for the continuous cleavage of fats, oils and similar substances. Georg Pieter G. Stalmann, Hamburg-Harburg, Germany. Published April 27, 1943.

A.P.C. 398,345. Method of wet gas purification. Heinrich Koppers, Essen, Germany. Published April 27, 1943.

A.P.C. 398,346. Contrivance for the recovery of sulphur from gases containing hydrogen sulphide. Heinrich Koppers, Essen, Germany. Published April 27, 1943.

A.P.C. 404,503. Manufacture of titanium dioxide. Josef Heinen, Koln-Rhein, Germany. Published April 27, 1943.

A.P.C. 417,204. Decomposition of sodium aluminate liquor. Hans Tiedemann, Akaska-ku, Tokyo, Japan. Published April 27, 1943.

A.P.C. 419,788. Process for the production of substantially anhydrous calciumnitrate. Hendrik de Bruijn et al., Geleen, Netherlands. Published April 27, 1943.

A.P.C. 422,869. Production of ammonium sulfate. Johannes Stephanus A. J. M. Van Aken, Lutterade, Holland. Published April 27, 1943.

A.P.C. 426,648. Processes for extracting aluminum from coal mine products. Adriaan C. Van Es et al., Huizen, Netherlands. Published April 27, 1943.

A.P.C. 430,168. Method for the transmutation in the composition of matter. Johannes de Kroes, Soerabaja, Java, Netherlands East Indies. Published April 27, 1943.

CLASS 24

A.P.C. 319,344. Snap fasteners. Alfred Boenecke, Berlin-Schoneberg, Germany. Published April 27, 1943.

A.P.C. 327,513. Flexible strip for producing slide clasp fasteners. Alfred Boenecke, Berlin-Schoneberg, Germany. Published April 27, 1943.

A.P.C. 328,113. Sliding clasp fasteners. Hermann Kohl, Stolberg, Germany. Published April 27, 1943.

A.P.C. 359,453. Pins for temporary fastening of buttons. Thea Stumpf, Francfort-on-Main, Germany. Published April 27, 1943.

A.P.C. 411,751. Devices for clamping textiles, papers, and the like. Efim Siedner, Berlin, Germany. Published April 27, 1943.

A.P.C. 416,269. Fasteners for detachably assembling two parts. Jean Emile Francois Gobin Dit Daude, Neuilly-sur-Seine, France. Published April 27, 1943.

CLASS 25

A.P.C. 203,137. Manufacture of electrolyser cell frames. Ewald Zdansky, Berlin-Schoneberg, Germany. Published April 27, 1943.

A.P.C. 203,714. Method of producing armoured concrete. Ewald Hoyer, Berlin-Halensee, Germany. Published April 27, 1943.

A.P.C. 290,985. Process for the manufacture of hollow bodies. Viktor Ehrenhaft, Brunn, Moravia. Published April 27, 1943.

A.P.C. 320,199. Manufacturing fibro-cement pipes. Giovanni Guerci, Turin, Italy. Published April 27, 1943.

A.P.C. 358,175. Method and apparatus for the production of ceramic shaped bodies, especially clay tiles. Wilhelm Avenhaus, Zwickau, Germany. Published April 27, 1943.

CLASS 26

A.P.C. 356,883. Fabric-simulating material. Lambertus Te Strake, Deurne, Netherlands. Published April 27, 1943.

CLASS 28

A.P.C. 234,900. Nets, ropes, sails and other articles for fishing and seafaring use. Emil Hubert et al., Dessau-Ziebigk, Germany. Published April 27, 1943.

A.P.C. 363,096. Binders for use in the production of threads from glass fibers. Michael De Ruyter et al., Dusseldorf, Germany. Published April 27, 1943.

A.P.C. 373,136. Warping machine. Georg Wiggermann, Munchen-Gladbach, Germany. Published April 27, 1943.

A.P.C. 381,952. Warping machine. Georg Wiggermann, Munchen-Gladbach, Germany. Published April 27, 1943.

CLASS 29

A.P.C. 191,168. Hot forging. Fritz Singer, Starnberg, Germany. Published April 27, 1943.

A.P.C. 238,270. Hydraulically operating gears or transmitting devices. Hans Molly, Berlin-Tempelhof, Germany. Published April 27, 1943.

A.P.C. 262,291. Milling planer with swingable tool-spindle. Raimondo Bolaffi, Milan, Italy. Published April 27, 1943.

A.P.C. 272,716. Method of manufacturing hollow valves. Louis Camille Andre Gardelle et al., Paris, France. Published April 27, 1943.

A.P.C. 275,082. Piston rings and method of making same. Tetsutaro Hiromi et al., Yodobashi-ku, Tokyo, Japan. Published April 27, 1943.

A.P.C. 275,357. Securing the heads to the cylinders of internal combustion engines. Theodor Hembold, Munich, Germany. Published April 27, 1943.

A.P.C. 278,768. Process and installation for the manufacture of shaped metal products. Robert Mnutsch, Brussels, Belgium. Published April 27, 1943.

A.P.C. 290,911. Wheels. Paul Lemmerz, Konigswinter-am-Rhein, Germany. Published April 27, 1943.

A.P.C. 308,727. Method for repairing roll passes. Simon Hellmanns, Dortmund-Berghofen, Germany. Published April 27, 1943.

A.P.C. 314,204. Blades for exhaust turbines and the method for the manufacture thereof. Gustav Zellbeck et al., Munich, Germany. Published April 27, 1943.

A.P.C. 326,822. Driving device for machines for the continuous automatic mass production of workpieces. Gerhard Reiners, Neubrandenburg, Germany. Published April 27, 1943.

A.P.C. 352,616. Metal sawing machines. Takao Hasegawa, Osaka, Japan. Published April 27, 1943.

A.P.C. 370,078. Multi-spindle automatic lathe with feeding spindle-drum and box-shaped, mutually staying upper works. Erwin Kohring, Cologne-Poll, Germany. Published April 27, 1943.

A.P.C. 370,079. Multi-spindle automatic lathe with feeding spindle drum. Erwin Kohring, Koln-Poll, Germany. Published April 27, 1943.

A.P.C. 376,570. Tool with hard metal cutting edge. Richard Braun, Stuttgart-S, Germany. Published April 27, 1943.

A.P.C. 377,048. Process for protecting aluminium alloys. Gaston Gauthier, Chambery (Savoie), France. Published April 27, 1943.

A.P.C. 377,049. Process for protecting aluminium alloys. Gaston Gauthier, Chambery Savoie, France. Published April 27, 1943.

A.P.C. 377,251. Process of producing metal fibres. Camille Cito, Uccle-Brussels, Belgium. Published April 27, 1943.

A.P.C. 379,134. Feeding and clamping device for multi-spindle automatic lathes for the treatment of rod-shaped material. Erwin Kohring, Cologne-Poll, Germany. Published April 27, 1943.

A.P.C. 385,760. Method of manufacturing hollow poppet valves. Gabriel Jeudi, alias Jeudy et al., Nogent-sur-Marne, France. Published April 27, 1943.

A.P.C. 392,514. Magnetic circuit comprising a laminated coiled core. Jan Kuperus, Eindhoven, Holland. Published April 27, 1943.

A.P.C. 430,822. Construction of welded tanks and other structures. Raymond Saulnier, Paris, France. Published April 27, 1943.

A.P.C. 430,823. Methods of assembly of tanks and the like. Raymond Saulnier, Paris, France. Published April 27, 1943.

CLASS 30

A.P.C. 380,735. Cutter mechanism. Jan de Groot, Eindhoven, Holland. Published April 27, 1943.

A.P.C. 380,736. Dry-shaving apparatus. Jan de Groot, Eindhoven, Holland. Published April 27, 1943.

A.P.C. 442,096. Safety-razors with a comb member co-operating with one or more cutters. Peter Harald Pedersen et al., Copenhagen, Denmark. Published April 27, 1943.

CLASS 32

A.P.C. 244,033. Protective paste for tooth-cements. Ernst Muhlbauer, Berlin, Germany. Published April 27, 1943.

A.P.C. 263,646. Dental unit. Meinolf Ebbers et al., Nordhorn, Germany. Published April 27, 1943.

A.P.C. 286,126. Manufacture of artificial tooth. Paul Jean Jacques Gonon et al., Paris, France. Published April 27, 1943.

CLASS 33

A.P.C. 271,134. Telescopic sights on guns. Wolfgang Rossmanith, Solothurn, Switzerland. Published April 27, 1943.

A.P.C. 298,514. Course indicator device. Heinrich Roland, Berlin-Steglitz, Germany. Published April 27, 1943.

A.P.C. 312,533. Apparatus for plotting maps from photographs. Walther Bauersfeld, Jena, Germany. Published April 27, 1943.

A.P.C. 353,760. Screw gauge. Richard Wildermuth, Stuttgart-Bad-Cannstatt, Germany. Published April 27, 1943.

A.P.C. 374,007. Fire-control apparatus for direct-aiming anti-aircraft firearms. Georges Pierre Andre Allec, Paris, France. Published April 27, 1943.

A.P.C. 382,644. Device for guiding the tool in copying machines, engraving machines, etc. Rudolf Wilhelm Lipp, Berlin-Pankow, Germany. Published April 27, 1943.

A.P.C. 439,950. Methods and apparatus for performing gauging and reproducing operations. Leon E. M. Van Den Kieboom, Semeac, near Tarbes, France. Published April 27, 1943.

CLASS 34

A.P.C. 262,245. Drying printed webs. Hans Fischer, Augsburg, Germany. Published April 27, 1943.

A.P.C. 288,821. Method and apparatus for recovering solvents. Hiroshi Horio, Nishinariku, Osaka, Japan. Published April 27, 1943.

A.P.C. 304,843. Process for dehydrating vegetable produce. Johan Bastiaan Van Heutsz, The Hague, Netherlands. Published April 27, 1943.

A.P.C. 321,025. Method of drying sheets. Hermann Basler, Berlin-Dahlem, Germany. Published April 27, 1943.

CLASS 35

A.P.C. 270,788. Instructive and demonstration apparatus or toy for the construction of various electric machines and devices. Maurice Latour, La Varenne-Saint-Hilaire, France. Published April 27, 1943.

A.P.C. 360,844. Testing and training device for two-ears sound locators. Max Maurer, Vienna, Germany. Published April 27, 1943.

A.P.C. 386,191. Films for the teaching of languages. Gustave Damien Vignal, Paris, France. Published April 27, 1943.

A.P.C. 401,387. Aiming apparatus. Albin Gerstenberger, Zella-Mehlis in Thuringen, Germany. Published April 27, 1943.

A.P.C. 418,491. Process and devices for the use of the phonograph in teaching. Joseph Louis Routin, Paris, France. Published April 27, 1943.

CLASS 36

A.P.C. 378,807. Soles for shoes and sandals. Paul Gelling, Berlin, Germany. Published April 27, 1943.

A.P.C. 395,495. Footwear. Wilhelm Wehr, Eilenburg, Germany. Published April 27, 1943.

A.P.C. 417,644. Heels and bridges (articulations) made of rigid material for boots and shoes. Sandor Lusztig, Budapest, Hungary. Published April 27, 1943.

A.P.C. 443,954. Pressed metal sole for shoes and shoe embodying said sole. Henri Perrot, Paris, France. Published April 27, 1943.

CLASS 37

A.P.C. 382,443. Devices for dredging gravel or the like. Kurt von Hagen, Wissel, near Kleve, Germany. Published April 27, 1943.

A.P.C. 393,715. A pusher mechanism for tractors. Anton Lentz, Heidelberg, Germany. Published April 27, 1943.

CLASS 40

A.P.C. 310,291. Signs. Magdalin Christian Gleerup Moller, Copenhagen, Denmark. Published April 27, 1943.

A.P.C. 390,216. Polarizing filter and method of making the same. Hans Sauer, Dresden-A, Germany. Published April 27, 1943.

CLASS 41

A.P.C. 331,888. Proceeding for superficial colouring decoration by means of colour transport and penetration into the pores of various bodies. Giuseppe Tagliabue, Monza, Italy. Published April 27, 1943.

A.P.C. 378,286. Camouflage. Karoly Heins Schwimmer et al., Budapest, Hungary. Published April 27, 1943.

A.P.C. 403,392. Photo-mechanical printing process and printing material for carrying out the same. Andre Rott, Berchem-Antwerp, Belgium. Published April 27, 1943.

CLASS 42

A.P.C. 253,661. Fire arms. Alessandro Gal, Oltrona Al Lago, Gavirate, Varese, Italy. Published April 27, 1943.

A.P.C. 257,508. Guns having sliding and exchangeable barrels. Karl Kehne, Berlin-Tegel, Germany. Published April 27, 1943.

A.P.C. 257,533. Grip for fire-arms, especially pistols, and method for their production. Johannes Schwarz, Berlin-Dahlem, Germany. Published April 27, 1943.

A.P.C. 285,144. Automatic guns having sliding barrels. Wolfgang Rossmanith, Solothurn, Switzerland. Published April 27, 1943.

A.P.C. 390,195. Automatic firearms. Josef Koucky, Brno, Bohemia. Published April 27, 1943.

A.P.C. 304,226. Breech mechanism for automatic firearms. Paul De Kiraly et al., Budapest, Hungary. Published April 27, 1943.

A.P.C. 305,568. Automatic gun. Goffredo Prola, Rome, Italy. Published April 27, 1943.

A.P.C. 307,807. Automatic and semi-automatic firearms. Josef Koucky, Brno, Bohemia. Published April 27, 1943.

A.P.C. 308,845. Bolt closer for automatic arms. Gino Revelli, Rome, Italy. Published April 27, 1943.

A.P.C. 308,871. Firing mechanism for automatic arms. Gino Revelli, Rome, Italy. Published April 27, 1943.

A.P.C. 361,184. Device for controlling the gas pressure in automatic blank cartridge firing in automatic guns. Hugo Schmeisser, Suhl, Germany. Published April 27, 1943.

A.P.C. 371,796. Straight-line breech lock for automatic firearms. Ernst Altenburger et al., Oberndorf, Germany. Published April 27, 1943.

A.P.C. 373,181. Gun barrel. Woldemar Born, Stuttgart, Germany. Published April 27, 1943.

CLASS 44

A.P.C. 362,688. Method for the production of a fire lighting means and fire lighting material made according to this method. Carl Schunck, Cologne-Sulz, Germany. Published April 27, 1943.

A.P.C. 364,294. Treatment of acid sludge. Carl Zerbe, Hamburg, Germany. Published April 27, 1943.

CLASS 45

A.P.C. 273,370. Apparatus for storing and conveying card index cards and other articles accommodated in containers. Otto Alfred Becker, Saarbrucken, Germany. Published April 27, 1943.

A.P.C. 317,991. Record filing cabinet or the like, etc. Enrico Bertello, Borgo S. Dalmazzo (Cuneo), Italy. Published April 27, 1943.

A.P.C. 323,734. Apparatus for storing and conveying of index cards or other suitable articles in containers, or the like. Otto Alfred Becker, Saarbrucken Germany. Published April 27, 1943.

A.P.C. 399,921. Swing front face drawer for vertical filing cabinet. Auguste Hubert Liesken, Brussels, Belgium. Published April 27, 1943.

CLASS 46

A.P.C. 319,792. Toy building set of metal. Carl Markes et al., Ludenscheid, Germany. Published April 27, 1943.

A.P.C. 353,973. Tracks for toy vehicles. Ernst Hern, Nurnberg, Germany. Published April 27, 1943.

A.P.C. 377,378. Figures, dolls, or other bodies, and the method of producing same. Johannes Mittmann, Berlin-Weissensee, Germany. Published April 27, 1943.

CLASS 47

A.P.C. 251,858. Method of fertilizing land. Giovanni Friedmann, Milan, Italy. Published April 27, 1943.

A.P.C. 324,426. Process of making ornamental figures. Enrico Bentiglioli, Bologna, Italy. Published April 27, 1943.

A.P.C. 340,363. Method of protecting plants against frost. Leo Lowenstein, Berlin-Wilmersdorf, Germany. Published April 27, 1943.

A.P.C. 369,352. Method of treating seeds. Hans Ulrich Amlong et al., Posen, Germany. Published April 27, 1943.

A.P.C. 382,458. Seed cultivation. Bela Nemeth, Kreszthely, Hungary. Published April 27, 1943.

A.P.C. 443,971. Rose. Johan Hendrik Kluis et al., Boskoop, Netherlands. Published April 27, 1943.

CLASS 48

A.P.C. 243,050. Method of converting liquid hydrocarbons into highly compressible dry gas. Robert Arnold, The Hague, Holland. Published April 27, 1943.

A.P.C. 263,042. Regulating the operation of a gas producer. Cyrille Alfred Alexis Bazille, Gennevilliers, France. Published April 27, 1943.

A.P.C. 285,434. Safety devices for gas conduits. Ernst Weese, Berlin-Grunewald, Germany. Published April 27, 1943.

A.P.C. 303,852. Process for the production of a water gas particularly suitable for synthetic purposes. Gabor Szigeth, Budapest, Hungary. Published April 27, 1943.

A.P.C. 385,193. Method and device for regulating the operation of gas generators. Eugen Lell, Berlin-Weissensee, Germany. Published April 27, 1943.

A.P.C. 400,520. Methods and apparatus for producing gaseous motor fuels. Nicanor G. Maramba, Manila, P. I. Published April 27, 1943.

A.P.C. 422,552. Gas producer by solid fuel, combined with a purifier, and suitable to feed gas motors, and especially auto motors. Eduardo Ussani D'Accadia, Milano, Italy. Published April 27, 1943.

CLASS 49

A.P.C. 113,559½. Method of and plant for melting refractory minerals in revolving-tube furnaces. Georg Zotos, Berlin-Charlottenburg, Germany. Published April 27, 1943.

A.P.C. 125,892. Method of producing perforated glass sheets. Bernhard Wempe, Berlin-Charlottenburg, Germany. Published April 27, 1943.

A.P.C. 187,733. Wire glass. Jacques Marie Darodes De Tailly et al., Saint-Remy, France. Published April 27, 1943.

A.P.C. 196,776. Process and apparatus for the continuous spinning of filaments and ribbons from quartz and other refractory oxides. Franz Skaupy et al., Berlin-Lichterfelde-West, Germany. Published April 27, 1943.

A.P.C. 209,150. Glass-to-metal seals. Otto Karl et al., Berlin, Germany. Published April 27, 1943.

A.P.C. 246,223. Automatic machine for the manufacture of bottles and like articles. Emile Roirant, Paris, France. Published April 27, 1943.

A.P.C. 268,616. Heating ovens, particularly those for hardening glass plates. Felix Vranken, Jemeppe-sur-Sambre, Belgium. Published April 27, 1943.

A.P.C. 275,121. Method of producing insulating material from glass. Bernard Weiner, Prague, Bohemia-Moravia. Published April 27, 1943.

A.P.C. 288,242. Non-splintering laminated glass. Adolf Kampfer, Berlin, Germany. Published April 27, 1943.

A.P.C. 303,058. Method of and apparatus for producing glass fibers. Gedeon von Pazsiczky, Hamburg-Wandsbek, Germany. Published April 27, 1943.

A.P.C. 314,727. Systems and devices for tempering hollow glass articles. Alberto Quentin, Milan, Italy. Published April 27, 1943.

A.P.C. 333,410. Process and apparatus for the continuous production of corrugated glass sheets. Louis Boudin, Saint-Gobain, France. Published April 27, 1943.

A.P.C. 340,441. Methods of sealing electric discharge vessels. Rudolf Scharfnagel, Stuttgart, Germany. Published April 27, 1943.

A.P.C. 375,868. Apparatuses for manufacturing hollow glass articles. Emile Robert Bonnefoy-Cudraz, Courbevoie, France. Published April 27, 1943.

A.P.C. 382,311. Process and apparatus for making spinning nozzles. Bernhard Wempe, Berlin-Schlachtensee, Germany. Published April 27, 1943.

A.P.C. 383,370. Hollow glass bodies and method of manufacturing the same. Karl Rudolph, Dresden, Germany. Published April 27, 1943.

A.P.C. 414,756. Processes and devices for welding glass to metal and articles obtained thereby. Bernard Long, Paris, France. Published April 27, 1943.

A.P.C. 418,602. Forming necks on glass containers. Jakob Dichter, Berlin-Schoneberg, Germany. Published April 27, 1943.

A.P.C. 418,603. Apparatus for shaping glass tubing. Jakob Dichter, Berlin-Schoneberg, Germany. Published April 27, 1943.

A.P.C. 418,604. Manufacture of ampoules. Jakob Dichter, Berlin-Schoneberg, Germany. Published April 27, 1943.

A.P.C. 423,106. Method and apparatus for making seals. Erich Mickley, Berlin-Zehlendorf, Germany. Published April 27, 1943.

CLASS 50

A.P.C. 293,523. Device for converting a controlling impulse into an alternating current impulse. Adolf Krussmann, Berlin-Friedenau, Germany. Published April 27, 1943.

CLASS 51

A.P.C. 223,269. Work turning device for machine tools. Kurt Zwick, Munchen, Germany. Published April 27, 1943.

A.P.C. 250,446. Centrifuges for granular material for cleaning and scaling plants. Karl Grocholl, Brieg-Schusselndorf, Germany. Published April 27, 1943.

A.P.C. 363,377. Device for sharpening razor blades. Louis Stark, Vienna, Germany. Published April 27, 1943.

A.P.C. 382,051. Tool grinding machine. Kurt Zwick, Munchen, Germany. Published April 27, 1943.

A.P.C. 422,615. Grinding machine. Max Ahnert, Aschersleben, Germany. Published April 27, 1943.

A.P.C. 425,448. Semi-automatic machine intended for finishing the grooves of ball bearing rings. Emile Francois Louis Beduneau, Thomery, France. Published April 27, 1943.

CLASS 52

A.P.C. 322,485. High-explosive. Ascanio Dumontel, Milan, Italy. Published April 27, 1943.

A.P.C. 398,401. Process for the gelatinization of cellulose nitrate. Miklos Makay, Budapest, Hungary. Published April 27, 1943.

A.P.C. 398,402. Process for the production of guncotton gelatin suitable for being converted into guncotton devoid of solvent. Miklos Makay, Budapest, Hungary. Published April 27, 1943.

CLASS 53

A.P.C. 260,412. Devices for extracting coffee and/or tea. Desider Perlusz et al., Budapest, Hungary. Published April 27, 1943.

A.P.C. 306,443. Cooking-utensil. Tjien To Oey-Semarang, Java, Netherlands East Indies. Published April 27, 1943.

A.P.C. 373,226. Apparatus for the production, in a closed space, of gases, vapours or decoctions, especially a tea or coffee kettle. Susannah Berger, nee Keresztes, Budapest, Hungary. Published April 27, 1943.

CLASS 57

A.P.C. 328,795. Methods and apparatus for spinning kapok yarns. Alfred Michel, Paris, France. Published April 27, 1943.

CLASS 58

A.P.C. 359,791. Chronometric electric circuit. Renato Di Giuseppe, Rome, Italy. Published April 27, 1943.

A.P.C. 361,148. Alarm clock movements. Helmut Junghans, Schramberg-Sulgen, Eckenhof, Germany. Published April 27, 1943.

A.P.C. 361,149. Gear members. Helmut Junghans, Schramberg-Sulgen, Eckenhof, Germany. Published April 27, 1943.

A.P.C. 382,857. Watch case. Helmut Sickinger, Pforzheim, Germany. Published April 27, 1943.

CLASS 60

A.P.C. 165,198. Gas turbines. Karl Leist, Berlin, Germany. Published April 27, 1943.

A.P.C. 215,792. Aircraft engines. Franz Neugebauer et al., Allach, near Munich, Germany. Published April 27, 1943.

A.P.C. 217,505. Apparatus for gas turbines. George Jendrassik, Budapest, Hungary. Published April 27, 1943.

A.P.C. 240,197. Master cylinder unit. Paul Schmidt, Solingen, Germany. Published April 27, 1943.

A.P.C. 240,907. Combustion chamber for gas-flow engines. Max Adolf Muller, Biederitz, Germany. Published April 27, 1943.

A.P.C. 257,613. Power engine plant. Michael Martinka, Duisberg, Germany. Published April 27, 1943.

A.P.C. 261,139. Pressure responsive system. Hans Waltenbauer, Dessau-Torten, Germany. Published April 27, 1943.

A.P.C. 272,652. Hydraulic mechanism for producing a reciprocating motion. Fritz Egersdorfer, Berlin, Germany. Published April 27, 1943.

A.P.C. 280,012. Marine power plants. Henri Tailleferre, Paris, France. Published April 27, 1943.

A.P.C. 287,284. Internal combustion engines. Johannes Schmidt, Berlin-Eichkamp, Germany. Published April 27, 1943.

A.P.C. 304,834. Aircraft power plants for high altitude flight. Georges Boulet, Plessis-Robinson, France. Published April 27, 1943.

A.P.C. 326,817. Heat exchanger. Luigi D'Amelio, Naples, Italy. Published April 27, 1943.

A.P.C. 330,189. Combustion engines. Job Boudewijn Glijam, Rotterdam, Netherlands. Published April 27, 1943.

A.P.C. 330,429. Systems for cooling a fluid charged with thermic energy. Georges Boulet, Plessis-Robinson, France. Published April 27, 1943.

A.P.C. 337,704. Adjustable reaction nozzle. Anselm Franz et al., Dessau, Germany. Published April 27, 1943.

A.P.C. 344,286. Fireless locomotive with high accumulator pressure. Paul Gilli, Vienna, Germany. Published April 27, 1943.

A.P.C. 352,145. Hydraulic starter. Hans Molly, Berlin-Tempelhof, Germany. Published April 27, 1943.

A.P.C. 352,305. Liquid change-speed gearing. Johannes Krudewig, Goppingen, Germany. Published April 27, 1943.

A.P.C. 353,552. Casing for gas turbines. Alfred Schutte, Augsburg, Germany. Published April 27, 1943.

A.P.C. 366,364. Rudder machine for automatic pilots. Guido Wunsch et al., Berlin, Germany. Published April 27, 1943.

A.P.C. 366,840. Hydraulic drives. Robert Obtresul, Magdeburg, Germany. Published April 27, 1943.

A.P.C. 367,667. Reaction propelling device with supercharged engine. Rene Anxionnaz et al., Paris, France. Published April 27, 1943.

A.P.C. 367,702. Process and apparatus for rotary engines, mainly gas turbines. George Jendrassik, Budapest, Hungary. Published April 27, 1943.

A.P.C. 368,274. Power plants in motor vehicles including an internal combustion engine with hydraulic gear. Karl Maybach, Friedrichshafen-Bodensee, Germany. Published April 27, 1943.

A.P.C. 373,038. Internal combustion engines. Fredrik Hurum, Oslo, Norway. Published April 27, 1943.

A.P.C. 378,652. Auto-winding-aero machine. Cipriano C. Alvizo, Cebu, P. I. Published April 27, 1943.

A.P.C. 383,877. Variable speed hydraulic couplings. Kiitiro Saito, Urudo, Saitama-Ken, Japan. Published April 27, 1943.

A.P.C. 391,003. Process and device for the production of gases at high pressure and motor fed with these gases. Maurice Bouffart, Brussels, Belgium. Published April 27, 1943.

A.P.C. 396,779. Device for the supply of hydraulic control apparatus for motor vehicles. Andre Adolphe Morton, Paris, France. Published April 27, 1943.

A.P.C. 397,246. Valveless engine. Vittorio Pogioli, Milan, Italy. Published April 27, 1943.

A.P.C. 412,884. Locomotive. Ernst Baumann, Berlin-Charlottenburg, Germany. Published April 27, 1943.

A.P.C. 428,304. Gas turbine motor plants. Louis Armand Hermitte, La Courneuve, France. Published April 27, 1943.

A.P.C. 434,985. System and devices for controlling thermal gas turbine motive units. Marcel Henri Louis Sedille, Paris, France. Published April 27, 1943.

A.P.C. 434,986. Gas turbine installations operating on gaseous fuels. Marcel Henri Louis Sedille, Paris, France. Published April 27, 1943.

CLASS 61

A.P.C. 291,610. Device for navigating ships in locks, docks and so on. Heinrich Breitwieser, Griesheim, near Darmstadt, Germany. Published April 27, 1943.

A.P.C. 302,452. Method and device for constructing piles. Edgard Frankignoul, Brussels, Belgium. Published April 27, 1943.

A.P.C. 348,940. Process and means for lowering a construction with a comparatively large base into the soil. Bernardus Hermanus Henricus Zweers, Naarden, Netherlands. Published April 27, 1943.

A.P.C. 357,993. Regulating device for pile-driver monkeys. Paul Pfeiffer, Hamburg-Altona, Germany. Published April 27, 1943.

CLASS 62

A.P.C. 140,767. Process for removing the substances condensed in cold accumulators in the cooling of gases. Jean Le Rouge, Boulogne-sur-Seine, France. Published April 27, 1943.

A.P.C. 303,181. Refrigerating apparatus of the compression type. Rudolf Hintze, Berlin-Charlottenburg, Germany. Published April 27, 1943.

A.P.C. 308,027. Process and apparatus for refrigeration. Julius Farago, Budapest, Hungary. Published April 27, 1943.

A.P.C. 320,181. Refrigerating apparatus. Giusto Catalani, Genova-Bolzaneto, Italy. Published April 27, 1943.

A.P.C. 327,080. Temperature-responsive control mechanism, especially for refrigerating apparatus. Peter Pfaff et al., Berlin-Siemensstadt, Germany. Published April 27, 1943.

A.P.C. 336,692. Refrigerator equipped with a motor-driven refrigerating apparatus of the compression type. Hans Schirrmeister, Berlin-Siemensstadt, Germany. Published April 27, 1943.

A.P.C. 337,854. Motor-driven refrigerating apparatus of the compression type. Rudolf Hintze, Berlin-Charlottenburg, Germany. Published April 27, 1943.

A.P.C. 339,562. Thermal pump. Rudolf Bottcher, Hohen-Neurendorf, Berlin, Germany. Published April 27, 1943.

A.P.C. 367,328. Ice plant operating with compresssion and evaporation. Reinhard Wussow et al., Berlin-Charlottenburg, Germany. Published April 27, 1943.

A.P.C. 373,012. Process of adsorbing gases and vapors. Siegfried Kiesskalt et al., Frankfurt-am-Main, Germany. Published April 27, 1943.

A.P.C. 373,486 Methods and machines for making an artificial ice product Axel Gruhn, Skaade Bakker, near Hojbjerg, Denmark. Published April 27, 1943.

A.P.C. 380,596. Refrigerating apparatus of the compression type. Rudolf Hintze, Berlin-Charlottenburg, Germany. Published April 27, 1943.

A.P.C. 389,130. Refrigerators. Rudolf Hintze et al., Berlin-Charlottenburg, Germany. Published April 27, 1943.

A.P.C. 403,175. Refrigerators. Carl Kuhnel, Berlin-Charlottenburg, Germany. Published April 27, 1943.

A.P.C. 412,875. Refrigerating apparatus of the compression type. Rudolf Hintze, Berlin-Charlottenburg, Germany. Published April 27, 1943.

CLASSIFICATION OF PATENTS

ISSUED APRIL 27, 1943

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

1— 10: 2,317,478
56: 2,317,815
2— 3: 2,317,954
14: 2,317,658
25: 2,317,819
42: 2,317,664
227: 2,317,768
268: 2,317,373
4— 190: 2,317,693
2,317,707
191: 2,317,898
8— 74: 2,317,965
114.6: 2,317,466
116: 2,317,756
9— 18: 2,317,905
21: 2,317,886
10— 27: 2,317,360
12— 14: 2,317,366
42: 2,317,410
48: 2,317,477
60: 2,317,913
128.1: 2,317,516
142: 2,317,879
2,317,880
146: 2,317,475
13— 17: 2,317,933
15— 6: 2,317,570
50: 2,317,843
76: 2,317,829
104.06: 2,317,542
131.1: 2,317,662
167: 2,317,485
236: 2,317,533
250.4: 2,317,903
16— 114: 2,317,349
163: 2,317,892
18— 6: 2,317,800
10: 2,317,447
14: 2,317,687
16: 2,317,823
2,317,839
18: 2,317,676
38: 2,317,597
48: 2,317,409
54: 2,317,492
55: 2,317,763
59: 2,317,903
20— 2: 2,317,621
5: 2,317,926
16: 2,317,931
22— 9: 2,317,574
62: 2,317,584
95: 2,317,565
23— 66: 2,317,396
152: 2,317,443
288: 2,317,449
24— 17: 2,317,507
73: 2,317,678
2,317,679
129: 2,317,825
171: 2,317,571
221: 2,317,787
263: 2,317,826
27— 4: 2,317,605
28— 2: 2,317,904
71.5: 2,317,747
2,317,921
74: 2,317,375
29— 34: 2,317,425
88.2: 2,317,405
148: 2,317,734
189: 2,317,510
30— 16: 2,317,541
96: 2,317,944
114: 2,317,540
200: 2,317,928
32— 26: 2,317,648
33— 80: 2,317,856
33— 147: 2,317,468
174: 2,317,925
197: 2,317,462
205.5: 2,317,386
2,317,632
214: 2,317,715
34— 89: 2,317,896
35— 40: 2,317,560
55: 2,317,673
36— 11.5: 2,317,870
22: 2,317,918
62: 2,317,647
37— 42: 2,317,680
126: 2,317,511
128: 2,317,578
142: 2,317,932
38— 71: 2,317,406
77: 2,317,706
2,317,716
40— 2: 2,317,899
119: 2,317,788
152: 2,317,708
41— 24: 2,317,504
42: 2,317,551
42— 6: 2,317,579
16: 2,317,641
43— 4: 2,317,445
27: 2,317,900
46: 2,317,781
45— 138: 2,317,583
46— 180: 2,317,458
47— 61: Pl.Pt. 577
Pl.Pt. 578
Pl.Pt. 579
49— 67: 2,317,904
51— 8: 2,317,837
184.3: 2,317,714
193: 2,317,703
268: 2,317,650
53— 3: 2,317,453
5: 2,317,388
7: 2,317,704
55— 76: 2,317,537
56— 8: 2,317,367
400.1: 2,317,916
60— 35.6: 2,317,795
54.6: 2,317,473
2,317,601
97: 2,317,524
62— 7: 2,317,484
2,317,516
2,317,840
89: 2,317,775
91.5: 2,317,871
99: 2,317,709
108.5: 2,317,646
114: 2,317,624
119.5: 2,317,517
2,317,519
2,317,520
122: 2,317,814
124: 2,317,777
66— 110: 2,317,417
67— 29: 2,317,465
68— 5: 2,317,448
263: 2,317,575
71— 2: 2,317,631
72— 46: 2,317,634
2,317,635
2,317,955
101: 2,317,451
111: 2,317,454
118: 2,317,428
2,317,907
73— 51: 2,317,950
74— 3: 2,317,812
7: 2,317,953
11: 2,317,957
74— 25: 2,317,594
164: 2,317,481
189.5: 2,317,498
190: 2,317,854
194: 2,317,418
249: 2,317,709
328: 2,317,423
424.8: 2,317,529
477: 2,317,761
484: 2,317,654
567: 2,317,740
75— 56: 2,317,793
136: 2,317,786
76— 4: 2,317,851
107: 2,317,527
77— 73.5: 2,317,615
78— 54: 2,317,794
81— 5.1: 2,317,512
26: 2,317,702
60: 2,317,461
154: 2,317,690
82— 2: 2,317,522
83— 6: 2,317,416
17: 2,317,909
85— 1: 2,317,665
36: 2,317,561
88— 1.5: 2,317,809
2,317,810
16.6: 2,317,875
19: 2,317,881
24: 2,317,476
2,317,550
2,317,691
2,317,692
51: 2,317,873
57: 2,317,750
78: 2,317,684
98: 2,317,656
89— 36: 2,317,392
40: 2,317,412
41: 2,317,419
90— 13.2: 2,317,616
28.1: 2,317,514
49: 2,317,674
91— 51: 2,317,874
92— 39: 2,317,394
93— 1: 2,317,408
95— 2: 2,317,369
2,317,612
7: 2,317,521
75: 2,317,343
88: 2,317,591
2,317,750
97— 53: 2,317,567
118: 2,317,560
235: 2,317,841
98— 37: 2,317,712
40: 2,317,798
99— 80: 2,317,532
117: 2,317,958
182: 2,317,470
193: 2,317,397
100— 71: 2,317,563
101— 4: 2,317,649
28: 2,317,861
38: 2,317,940
416: 2,317,370
426: 2,317,372
102— 24: 2,317,354
2,317,415
103— 234: 2,317,356
105— 35: 2,317,849
153: 2,317,689
190: 2,317,389
2,317,390
2,317,391
2,317,399
197: 2,317,352
105— 210: 2,317,377
226: 2,317,398
341: 2,317,363
409: 2,317,677
106— 45: 2,317,855
252: 2,317,603
269: 2,317,959
107— 14: 2,317,897
109— 58.5: 2,317,945
110— 12: 2,317,941
112— 2: 2,317,698
136: 2,317,614
214: 2,317,762
113— 7: 2,317,919
38: 2,317,440
44: 2,317,809
116— 173: 2,317,525
117— 15: 2,317,359
35: 2,317,876
2,317,877
60: 2,317,779
65: 2,317,499
66: 2,317,486
86: 2,317,606
103: 2,317,811
114: 2,317,403
123: 2,317,685
126: 2,317,487
139: 2,317,728
152: 2,317,436
2,317,789
120— 28: 2,317,821
121— 41: 2,317,640
123— 32: 2,317,536
50: 2,317,946
73: 2,317,772
117: 2,317,885
119: 2,317,582
127: 2,317,625
139: 2,317,947
146.5: 2,317,588
196: 2,317,745
125— 11: 2,317,411
127— 30: 2,317,479
33: 2,317,752
128— 146: 2,317,608
218: 2,317,558
129— 41: 2,317,345
130— 33: 2,317,822
131— 47: 2,317,513
142: 2,317,792
260: 2,317,534
132— 31: 2,317,883
33: 2,317,539
41: 2,317,929
48: 2,317,930
68: 2,317,746
135— 1: 2,317,682
136— 31: 2,317,711
64: 2,317,759
89: 2,317,776
137— 53: 2,317,923
68: 2,317,556
139: 2,317,376
2,317,549
144: 2,317,427
138— 30: 2,317,395
31: 2,317,796
44: 2,317,638
139— 20: 2,317,518
68: 2,317,564
231: 2,317,744
274: 2,317,948
408: 2,317,910
140— 7: 2,317,457
105: 2,317,530
143— 6: 2,317,568
144— 279: 2,317,446
145— 36: 2,317,862
146— 28: 2,317,669
159: 2,317,731
148— 9: 2,317,495
149— 23: 2,317,493
151— 8: 2,317,347
152— 307: 2,317,864
356: 2,317,912
359: 2,317,911
406: 2,317,610
422: 2,317,636
154— 2: 2,317,364
2,317,595
2,317,596
2.23: 2,317,488
16: 2,317,939
27: 2,317,895
50: 2,317,730
52.5: 2,317,452
155— 11: 2,317,894
12: 2,317,620
54: 2,317,515
158—117.5: 2,317,927
160— 101: 2,317,686
178: 2,317,659
2,317,660
225: 2,317,917
161— 15: 2,317,538
164— 21: 2,317,432
60: 2,317,553
84.5: 2,317,384
166— 14: 2,317,404
167— 14: 2,317,908
22: 2,317,378
2,317,765
32: 2,317,741
169— 4: 2,317,836
170— 62: 2,317,938
68: 2,317,778
159: 2,317,502
173: 2,317,629
171— 97: 2,317,552
242: 2,317,724
327: 2,317,523
172— 179: 2,317,802
239: 2,317,807
246: 2,317,642
279: 2,317,630
281: 2,317,482
173— 328: 2,317,863
330: 2,317,382
334.1: 2,317,710
174— 35: 2,317,813
60: 2,317,450
101: 2,317,964
210: 2,317,799
175— 183: 2,317,718
2,317,719
2,317,720
2,317,721
375: 2,317,888
176— 124: 2,317,602
2,317,844
177— 311: 2,317,472
2,317,652
324: 2,317,713
178— 7.1: 2,317,850
34: 2,317,496
44: 2,317,439
2,317,503
179— 1: 2,317,358
18: 2,317,471
2,317,833
27.52: 2,317,743
179—27.54: 2,317,469
171: Re.22,306
2,317,764
2,317,824
180— 1: 2,317,619
46: 2,317,623
79.1: 2,317,400
182— 12: 2,317,653
183— 51: 2,317,569
77: 2,317,785
186— 1: 2,317,438
187— 17: 2,317,852
188— 72: 2,317,599
152: 2,317,604
189— 76: 2,317,581
192— 3: 2,317,935
105: 2,317,528
107: 2,317,573
107.3: 2,317,742
193— 37: 2,317,356
194— 2: 2,317,593
100: 2,317,351
196— 10: 2,317,603
2,317,694
2,317,901
217— 36: 2,317,613
219— 4: 2,317,681
5: 2,317,962
8: 2,317,421
2,317,780
10: 2,317,483
20: 2,317,967
34: 2,317,426
220— 27: 2,317,420
221— 23: 2,317,755
47.3: 2,317,887
47.4: 2,317,872
67: 2,317,800

221— 73.5: 2,317,942
95: 2,317,956
129: 2,317,643
223— 38: 2,317,817
46: 2,317,609
70: 2,317,924
224— 5: 2,317,820
9: 2,317,834
57: 2,317,535
226— 116: 2,317,589
227— 49: 2,317,346
228— 44: 2,317,459
229— 14: 2,317,651
17: 2,317,355
2,317,381
45: 2,317,773
72: 2,317,407
230— 114: 2,317,723
134: 2,317,513
236— 12: 2,317,717
56: 2,317,467
238— 204: 2,317,435
336: 2,317,735
240— 1: 2,317,845
78: 2,317,431
242— 84.5: 2,317,835
124: 2,317,431
135: 2,317,771

244— 17: 2,317,340
2,317,341
2,317,342
76: 2,317,383
83: 2,317,818
246— 33: 2,317,732
130: 2,317,562
248— 5: 2,317,500
2,317,501
19: 2,317,934
32: 2,317,368
36: 2,317,867
363: 2,317,348
249— 60: 2,317,865
250— 11: 2,317,464
2,317,922
13: 2,317,547
20: 2,317,474
27: 2,317,783
27.5: 2,317,442
2,317,754
33: 2,317,622
40: 2,317,460
251— 20: 2,317,657
31: 2,317,422
90: 2,317,407
252— 39: 2,317,666
47: 2,317,751

252— 161: 2,317,505
175: 2,317,961
331: 2,317,726
357: 2,317,555
254— 43: 2,317,806
255— 1.4: 2,317,544
257— 2: 2,317,480
236: 2,317,572
248: 2,317,441
258— 24: 2,317,633
260— 22: 2,317,371
2,317,668
29: 2,317,611
32: 2,317,725
2,317,891
38: 2,317,960
42: 2,317,736
2,317,737
2,317,738
2,317,739
46: 2,317,585
2,317,586
2,317,587
86.5: 2,317,385
2,317,857
2,317,858
2,317,859

260— 93: 2,317,868
94: 2,317,878
97.5: 2,317,797
124: 2,317,832
155: 2,317,365
160: 2,317,387
196: 2,317,733
227: 2,317,767
239: 2,317,804
283: 2,317,357
333: 2,317,353
387: 2,317,670
2,317,671
398: 2,317,361
2,317,362
407: 2,317,915
525: 2,317,455
583: 2,317,737
602: 2,317,456
619: 2,317,697
635: 2,317,557
638: 2,317,949
668: 2,317,683
720: 2,317,491
735: 2,317,380
785: 2,317,463
261— 66: 2,317,952
112: 2,317,951

265— 5: 2,317,760
47: 2,317,701
266— 23: 2,317,526
2,317,936
268— 19: 2,317,697
124: 2,317,490
125: 2,317,966
271— 2.2: 2,317,937
64: 2,317,655
273— 118: 2,317,506
137: 2,317,705
275— 8: 2,317,853
277— 20: 2,317,627
2,317,628
53: 2,317,546
280— 18: 2,317,414
33.1: 2,317,508
96.1: 2,317,906
242: 2,317,606
281— 19: 2,317,748
284— 14: 2,317,545
18: 2,317,827
285— 162: 2,317,598
180: 2,317,729
290— 38: 2,317,344
292— 166: 2,317,699
254: 2,317,700
333: 2,317,617

292— 347: 2,317,672
352: 2,317,592
294— 50.6: 2,317,801
55: 2,317,489
103: 2,317,688
297— 15: 2,317,830
2,317,831
299— 83: 2,317,548
107.2: 2,317,618
107.6: 2,317,749
300— 8: 2,317,401
301— 37: 2,317,393
303— 6: 2,317,753
54: 2,317,846
304— 5: 2,317,444
308— 111: 2,317,602
238: 2,317,920
309— 4: 2,317,433
12: 2,317,577
20: 2,317,429
45: 2,317,580
2,317,637
312— 31.1: 2,317,882
113: 2,317,437

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

2,317,350: 204— 28
2,317,353: 260— 333
2,317,365: 260— 155
2,317,385: 260— 86.5
2,317,397: 99— 193
2,317,435: 238— 204
2,317,445: 43— 4
2,317,452: 154— 52.5
2,317,484: 62— 7

2,317,486: 117— 66
2,317,487: 117— 126
2,317,491: 260— 720
2,317,512: 81— 5.1
2,317,524: 60— 97
2,317,525: 116— 173
2,317,541: 30— 16
2,317,543: 260— 134
2,317,552: 171— 97

2,317,554: 206— 44
2,317,607: 260— 619
2,317,621: 20— 2
2,317,643: 221— 129
2,317,695: 85— 1
2,317,675: 198— 19
2,317,713: 177— 324
2,317,723: 230— 114
2,317,751: 252— 47

2,317,757: 260— 583
2,317,766: 196— 50
2,317,781: 43— 46
2,317,804: 260— 239
2,317,811: 117— 103
2,317,816: 62— 7
2,317,830: 62— 7
2,317,842: 260— 92
2,317,845: 240— 1

2,317,857: 260— 86.5
2,317,858: 260— 86.5
2,317,859: 260— 86.5
2,317,864: 152— 307
2,317,882: 312— 31.1
2,317,883: 132— 31
2,317,896: 34— 89
2,317,914: 28— 2
2,317,917: 160— 225

2,317,940: 101— 38
2,317,942: 221— 73.5
2,317,952: 261— 66
2,317,960: 260— 38

U. S. GOVERNMENT PRINTING OFFICE: 1943

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Appeals for the District of Columbia

THE HYDRAULIC PRESS CORPORATION, INC., AND ERNST

v.

COE, COMMISSIONER OF PATENTS

No. 8,210. Decided February 15, 1943

1. WORDS AND PHRASES—"FORCE."
"The word 'force' may have a mathematical or technical physical meaning and one of common usage. The two are not identical, but they are closely related. As applied to physical forces, the one is a function of the other. • • • 'Force' may mean either exact pressure times exact area to which the pressure is applied, or it may mean simply an operative physical power, without taking account of the exact quantity applied."

2. CLAIMS—INTERPRETATION—"DRAWING FORCE."
Where appellants alleged that the term "drawing force" was used in their claims in its mathematical or technical physical meaning, but none of the claims gave any evidence of having been drawn in technical mathematical language or that of physics *Held* that "It is difficult to believe that claims drawn thus would depart, in a single instance, from the general pattern to employ a term in an unusual technical meaning, without saying so explicitly, particularly when the term has also a common one which fits into the pattern."

3. SAME—SAME—SAME.
"The term must be taken, both from the general pattern and purpose of the claims and from its more ordinary meaning, to have been used in its common, rather than its more technical sense. The history of these claims, as shown by the record, also lends weight to this view. And it derives support from the rule • • • that the claims must be given the broadest interpretation of which they reasonably are susceptible."

4. PATENTABILITY—HYDRAULIC PRESS.
Certain method claims in an application disclosing a hydraulic press for forming sheet metal *Held* properly rejected to appellants in view of the prior art.

APPEAL from the District Court of the United States for the District of Columbia. Affirmed.

Mr. D. C. Staley (*Mr. H. A. Toulmin, Jr.*, and *Mr. John M. Mason* of counsel) for The Hydraulic Press Corporation, Inc., and Ernst.

Mr. W. W. Cochran (*Mr. E. L. Reynolds* of counsel) for the Commissioner of Patents.

Before GRONER, Chief Justice, and VINSON and RUTLEDGE, Associate Justices.

RUTLEDGE, *A. J.*:

Appellants' suit, to secure a decree authorizing the issuance of a patent, was filed pursuant to Rev. Stat. § 4915 (1878), 35 U. S. C. § 63 (1940). The appeal is from a judgment of dismissal. The claimed invention relates to a hydraulic press for forming sheet metal into various shapes. The principal issue is whether appellants' claims have been anticipated by the Ferris patent, No. 1,970,134.

Claims 4, 5, and 7 are the only ones now in issue, the others having been abondoned or cancelled. Claim 4 may be taken as typical, but we set forth the other two in the margin, with variations from the language of claim 4 indicated in italics.[1] Claim 4 is as follows:

4. A method of generating and utilizing hydraulic power for clamping articles being drawn comprising clamping the article by hydraulic means at its periphery with different pressures at different locations therearound, applying a drawing force to the article while so clamped, *diverting a portion of the drawing force to generate hydraulic pressure during the drawing operation, and applying the pressure so generated to produce the clamping action.* [Italics added.]

Appellants' present position is that Ernst's invention over Ferris consists in the features disclosed in the italicized language. They insist, contrary to appellee's contention, that Ferris does not disclose them, and apparently concede that the features described in the remaining language are found in Ferris. The basic position of the Patent Office is that the claims are too broad. That is, they are drawn so broadly that they are readable on Ferris and consequently cannot be allowed, whether or not Ernst's modifications would be inventive and claims allowable if drawn in properly limited terms. However, it is not conceded that invention exists, and the district court found expressly there is none. The positions of both parties have varied somewhat during the proceedings, including those in the Patent Office,[2] and in order to make the respective contentions clear we turn to a more specific statement of the facts.

The chief claimed advantages of appellants' invention are increased efficiency and economy of operation. Higher operating speed is achieved, it is said, at the same time with greater conservation of energy. It is not disputed that Ernst has made a useful improvement upon the prior art or that it has been commercially successful. Appellants' machine, as disclosed in the drawings, is much simpler than that of Ferris with, it may be assumed, the resulting economies simplicity usually brings.

The general characteristics of the two disclosures are set forth in the trial court's findings of fact as follows:

The Ernst application here involved discloses an hydraulic press for forming sheet metal in which the metal to be shaped is clamped at its periphery while the central

[1] "5. A method of generating and utilizing hydraulic power for clamping articles being drawn comprising clamping the article by hydraulic means at its periphery with different pressures at different locations therearound, applying a drawing force to the article while so clamped, diverting a portion of the drawing force to generate hydraulic pressure during the drawing operation, and applying the pressure so generated to produce the clamping action *and release the excess pressure at a predetermined maximum.*" [Italics added.]
"7. A method of generating and utilizing hydraulic power for clamping articles being drawn comprising clamping the article by hydraulic means at its periphery with different pressures at different locations therearound, applying a drawing force to the article while so clamped, diverting a portion of the drawing force to generate hydraulic pressure during the drawing operation, applying the pressure so generated to *assist the clamping action, applying a retracting force to the member applying the drawing force, diverting a portion of the retracting force to generate pressure and applying the pressure thus generated to maintain the clamping pressure during retraction.*" [Italics added.]

[2] Cf. note 3 infra.

portion is forced into a die cavity by means of a plunger. The plunger is actuated by an hydraulically operated piston and the clamping pressure is applied by means of auxiliary pistons which move in cylinders formed in a block at one end of the main piston. The arrangement is such that as the main piston moves the drawing plunger toward the work it also serves to generate hydraulic pressure in the cylinders containing the clamping pistons.

The Ferris Patent No. 1,970,134 discloses a press in which a sheet of metal is clamped at its margin while the central portion is forced into a cavity by means of an hydraulically actuated plunger. The liquid for actuating the plunger is supplied by a pump which, the patent states, is driven at a constant speed. The same pump also supplies liquid to the hydraulically actuated mechanism which clamps the periphery of the sheet during the drawing operation. The clamping means may be adjusted to provide different pressures at different portions of the periphery. The means for effecting this adjustment comprises adjustable relief valves for releasing pressure fluid at different points on the periphery when predetermined pressures are attained.

The processes are identical in using hydraulic force, derived from a pump, for both clamping and drawing or plunging operations. The former holds the work piece in place, while the latter molds it to the desired shape. Both clamp the work piece at its periphery to a die, with different pressures at different locations around the periphery. In both this differential in clamping pressure is maintained by relief valves which allow the liquid to escape when the pressures reach desired points. This feature permits adjustment of the clamping pressure to work pieces of irregular thickness and shape. Both use hydraulically operated pistons or mechanisms for applying the clamping pressure. Both processes apply the drawing force to the central part of the work piece while it is held in place by the clamping force. Both use a piston to apply the drawing force, hydraulically operated. In both the drawing force, derived through the piston, forces the central portion of the work piece into a cavity in the die, thus molding the metal into the desired shape. These are the principal and basic features of identity, though it should be mentioned that in both instances the only force which is introduced into the machine, whether for the clamping or for the plunging operation, comes from a single source, namely, the pump which Ferris specifies shall be operated at constant speed.

We turn now to the features of difference. The two processes operate in opposite directions. In Ferris the die is at the top and the plunging piston at the bottom of the machine. Both the clamping and the plunging or drawing operations are applied in an upward direction against the work piece and the die. In Ernst the die is at the bottom and the plunging piston operates downwardly against the work piece and the die to which is is clamped. This difference in itself is immaterial. But the basic difference, and the one in which invention is claimed, lies in the operation of the clamping force. This will be described in detail. To do this, however, further attention must be given to the operation of the drawing force, with which the clamping force is associated in both machines, but in a somewhat different manner.

As has been stated, the whole force introduced into the machine in both cases, that is, the only external force, is derived from a pump, which in fact supplies the pressure for both the clamping and the plunging or drawing operations. Because it will be convenient to distinguish it from other forces, we shall call this total force introduced into the machine from the pump the external force.

In Ferris this force leaves the pump at one point and travels a very short distance, probably not more than a few inches, in a single pipe. The pipe then branches into two separate pipelines, one of which carries liquid to the clamping mechanism, the other conducting it to the plunging piston. One line therefore carries what may be called the clamping force, the other the drawing force. It is obvious that the clamping force is diverted from the supply line which extends from the pump to the drawing ram or piston. Operation of the clamping mechanism necessarily requires a continuous flow of liquid from the pump as long as the clamps are in action. In other words, the clamping pistons operate by direct and continuous application of force from the pump. It will be recalled also that the clamping pressures exerted by these pistons vary and the differential is maintained by relief valves which allow the liquid to escape when the pressure reaches a certain point. It is obvious there is a diversion of part of the external force from drawing or plunging purposes to the clamping function and that a part of the force diverted is entirely lost or wasted, namely, that represented by the liquid which escapes through the relief valves. Appellee says this constitutes a "diversion of drawing force" within the meaning of appellants' claims.

It should be mentioned also that Ferris' clamping mechanism is a complicated one, consisting of numerous pistons to each of which, through a cylinder, a portion of the clamping force is applied. In other words, after the liquid which supplies the clamping force is diverted from that which supplies the drawing force and has traveled a considerable distance to its work, the pipeline through which it runs is again divided into a number of smaller or separate ones, each of which leads into a cylinder from which a clamping piston is operated. Appellants characterize this general scheme of separating drawing force or liquid from clamping force out of the total external force supplied from the pump as being one of "independent fluid lines" or "parallel flow arrangement."

The method of separating the two forces, and especially of applying the clamping force, in Ernst is as follows. As in Ferris, the external force (liquid) leaves the pump at one point and travels a short distance through a single pipe. This leads to a four-way valve. From this valve, the liquid which creates the drawing force runs through a pipe into the drawing cylinder where it exerts downward pressure upon the drawing piston head. As in Ferris, this creates the drawing force which performs the molding operation directly on the work piece. But, as will appear, it also has a part in the clamping operation. In other words, the downward application of the drawing force has

two functions in Ernst, namely, the primary one of performing the drawing operation which molds the work piece, and a secondary one to assist in the clamping operation which holds it in place.

Understanding of the latter requires further detailed description of the clamping process and arrangement as a whole. Two features are outstanding, the arrangement of the clamping mechanism in coordination with the drawing mechanism and the method of introducing and applying the liquid used for clamping purposes. The former will be described first, as it supplies a basis for clear understanding of the latter.

In a very general way it can be said that the drawing and clamping functions are performed by the same machinery, but with the application of different forces at different intervals. More specifically, both drawing and clamping operations are performed by successive operations of the upper part of the press, that is, all except the stationary member or die at the bottom upon which the work piece is laid and to which it is clamped down for molding by depression into the cavity at the center of the die. This upper portion all moves downward, except the inverted cylinder at the top, which is stationary.

The movable apparatus consists principally of four parts, connected with each other in the following order from top to bottom: (1) the drawing piston which moves downward from the inverted cylinder when the drawing force is applied above the piston head; (2) a platen (or heavy metal block) which is attached firmly to the piston at its lower end, just outside the bottom of the inverted cylinder, and moves up and down exactly as the piston does; (3) a second, but much less thick metal block, otherwise of the same dimensions as the platen, which is called the clamping member and is movably, not firmly, attached to the platen just above it; and (4) a pressing member, which is shaped on its bottom to conform to the cavity in the die and does the immediate work of molding the work piece by pressing it down into this cavity. The pressing member is attached firmly to the bottom of the platen in the center and moves up and down in exact coordination with the platen's motion. It does this through a hole in the center of the movable clamping member.

This somewhat complicated description of the whole movable upper portion of the press can be simplified somewhat by pointing out that the piston proper, the platen and the pressing member are all firmly attached together and move with one motion when pressure is applied from above or is released. Their principal function is the drawing operation. On the other hand, the clamping member is attached to the platen, not firmly, but movably, and therefore does not move with the identical motion which actuates the other parts, but moves with them in the same direction at a different rate. Its function is primarily in connection with the clamping operation.

The attachment of the clamping member to the platen is peculiar and important. It is accomplished by means of cylinders and pistons. The cylinders are located within the body of the platen and are inverted, as is the drawing or pressing cylinder. They may be called the clamping cylinders. Attached firmly to the top of the clamping member are two upright pistons which operate up and down within the clamping cylinders. They may be called the clamping pistons. When hydraulic pressure is applied within the clamping cylinders to the heads of the clamping pistons, the latter move downward and take with them the clamping member, which holds the work piece in place on the die.

Introduction of liquid into the clamping cylinder takes us back to the four-way valve, from which liquid also is introduced, as has been shown, through one outlet into the drawing cylinder chamber above the drawing piston head. Through another outlet from the valve liquid is carried by another pipeline into the drawing cylinder, but at a point near its bottom. Below its head the piston is somewhat smaller in diameter than the cylinder and in this space between the piston and the cylinder wall the liquid flows upward to a point just below the piston head. There it enters an aperture in the piston itself, which first leads horizontally to the center of the piston and thence downward through its length and into the platen to a point about level with the tops of the clamping cylinders. From this point the liquid flows through horizontal apertures or "pipes" in the platen to the clamping cylinders and fills them. Check valves in the horizontal lines of flow prevent the liquid from returning in the direction of the pump when clamping pistons exert pressure upward against the liquid in the tops of the clamping cylinders. Apertures also lead outwardly from the clamping cylinders to the relief valves and thus allow escape of liquid from the cylinders when the clamping pressure reaches the desired point. This substantially completes the detailed description of the parts and arrangement of the mechanism and the manner in which the liquid is introduced for the work both of drawing and of clamping. It remains to describe briefly the coordinated operation of the process as a whole.

It is obvious that the clamping member, with its upright pistons resting against the liquid in the clamping cylinders contained in the platen, forms a kind of cushion between the die beneath and the movable upper portion of the press. The cushioning effect is useful chiefly in the clamping operation. This takes place, as in Ferris, just before the drawing operation. The whole process of clamping and drawing occurs, in a general way, as follows.

The clamping cylinders being filled with liquid (which takes place during upward recession of the drawing piston), liquid is pumped through the four-way valve into the drawing cylinder, and this creates pressure upon the drawing piston head driving the piston and the platen downward. As they descend, they meet resistance first from the action of the clamping pistons against the liquid in the

clamping cylinders. This creates pressure in the latter, which continues until the point is reached at which the relief valves function to allow escape of liquid from the clamping cylinders. When this takes place, the clamping operation is completed and the work piece is held firmly in place between the clamping member and the die, ready for the drawing operation. Continued pressure then is applied to the drawing piston head, and this forces the drawing-piston—platen—pressing-member combination further down, so that the pressing member descends through the aperture in the clamping member, makes contact with the work piece, and presses it down into the die cavity, thus molding it to the desired shape. When this is finished, the pressure on the drawing piston is removed, the drawing piston and other firmly connected parts return upward, thus releasing the pressure upon the clamping member, which then releases the molded work piece from its grasp. During the return stroke of the drawing piston upward, liquid again enters the clamping cylinders from the four-way valve, as above described, and fills them. The press is then ready to begin another clamping and drawing operation.

As has been said, Ernst and Ferris are alike in using a single pump which supplies the total external force and expels this for a short distance through a single pipe.

From that point there is difference. In Ferris the pump, moving at constant speed, supplies continuous pressure which is applied directly for both clamping and drawing. In Ernst there is likewise a separation of the drawing fluid pipe from the clamping fluid pipe, at the four-way valve. But the liquid does not flow through these pipes at the same time, as in Ferris, in a continuous column of pressure. As we understand the process, the liquid flows from the valve first through one, then through the other. It is only when the drawing piston is moving upward, and therefore no liquid is flowing to the head of the drawing piston, that fluid enters the clamping cylinders. Conversely when liquid is moving to the head of the drawing piston, and it is moving downward, the resulting pressure created by this movement in the clamping cylinders prevents entrance there of any liquid from the four-way valve. Thus, while in Ferris the pump supplies a direct, continuous and simultaneously working pressure through both the drawing fluid pipes and the clamping fluid pipes to the drawing piston and the clamping pistons respectively, in Ernst the pump supplies pressure which, after it leaves the four-way valve, is applied alternately, first to fill the clamping cylinders, then to drive the drawing piston down. Hence, the liquid in the clamping cylinders supplies the first resistance to the downward motion of the drawing piston, and this in turn creates a pressure of resistance in the clamping cylinders to the downward motion, which then continues its downward pressure for the drawing operation.

As distinguished from Ferris, therefore, the two liquid flow lines to the drawing and clamping cylinders operate in alternate intervals to conduct the liquid for its work; the liquid introduced into the clamping cylinders acts directly in opposition to the force of the liquid applied to the drawing piston head; the entire external force of the pump is available to apply to the drawing piston head as it moves downward for the work; both clamping and drawing operations are accomplished with a single downward movement of the drawing piston; and the liquid introduced into the clamping cylinders during the previous return stroke of the drawing piston acts in performance of the clamping operation, not as a direct and continuous application of force from the pump (as it is in Ferris), but as a cushion creating resistance against the down stroke of the drawing piston. This arrangement and action appellants characterize as an application of force "in series" in contradistinction to the "parallel flow" arrangement of Ferris. In these features they now find the invention, though the claims were much broader when the proceedings in the Patent Office began.[3]

It may be that these features of improvement are inventive.[4] But, as the case is before us, the issue is whether the invention as described in claims 4, 5, and 7 shows patentable features not disclosed in Ferris. The claims must be read therefore, not merely with a view to whether the allegedly patentable features they describe are disclosed in appellants' process, but whether Ferris also discloses them. Appellants insist the claims disclose invention beyond Ferris in the following features: (1) the diversion of a portion of the drawing force; (2) to generate hydraulic pressure; (3) during the drawing operation; and (4) apply the pressure so generated to produce the clamping action (claims 4 and 5); and (5) release the excess pressure at a predetermined maximum (claim 5); or (claim 7) to apply the pressure so generated to assist the clamping action, (*a*) applying a retracting force to the member applying the drawing force, (*b*) diverting a portion of the retracting force to generate pressure, and (*c*) applying the pressure thus generated to maintain the clamping pressure during retraction.

Appellee says there is no invention in these features, which are all readable on Ferris; and if there

[3] The application came successively before several Examiners. The original ten claims were rejected first as being directed "to the method of drawing metal," which the Examiner held is the same regardless of the source of pressure fluid; he therefore rejected them twice on Ferris, basing the second rejection on the ground that "the source or manner of developing the clamping pressures is not a material and patentable limitation *in the method of drawing metal.*" [Italics added.]

Ernst then cancelled all claims except 4, 5, 6, and 7, and requested reconsideration for them stating: "These claims have been amended so that they are *no longer directed to a method of drawing articles* but are *now* directed to a *method of generating and utilizing hydraulic power for clamping articles being drawn.*" [Italics added.] The amended claims were again rejected: (1) as misleading, inaccurate and not readable on the instant disclosure; (2) on Ferris, as containing no more than functional limitations over that disclosure; and (3) as disclosing only the function of an apparatus, though purporting to be directed to a method. Claim 6 was then cancelled, and on reconsideration claims 4, 5, and 7 were again and finally rejected on Ferris. The Board of Patent Appeals affirmed the Examiner's decision, holding that "in so far as the claims recite true methods they do not distinguish in any patentable respect from the reference [Ferris]." This suit then followed.

[4] Cf. text infra.

were invention in the alleged simplicity of the particular devices or applications appellants have made, they have failed to recite such features in the claims.

Appellants emphasize especially the diversion of a portion of the drawing force to generate hydraulic pressure during the drawing operation and apply this to the clamping action. They insist that

> "a portion of the 'force' *capable of being developed* by the press ram [drawing piston] has been diverted, or used, to generate the clamping pressure," [Italics added.]

and that this is not disclosed by or inherent in Ferris. In this they are at odds with appellee over the meaning of "drawing force." Appellants give it one of mathematical exactitude, appellee one of physical force without reference to quantity.

In appellants' view, there is a definite distinction between the "fluid pressure" developed by the hydraulic pump and "drawing force" as this term is used in their claims. According to this, "force" is the product of "area" times "pressure," so that if a fluid pressure of 2000 lbs. is delivered by the pump to the head of the ram and the latter contains 100 square inches, the "force" developed by the ram will be 200,000 lbs. If then a fluid pressure of 500 lbs. is to be developed in the clamping cylinders and the clamping pistons have a total effective area of 20 square inches, a "force" of 10,000 lbs. is needed for the clamping pressure; and this will be diverted from the total force the ram can develop, leaving a "drawing force" of 190,000 lbs. for the drawing operation. It is said the diversion is not wasteful, since appellants' so-called "series operation arrangement" permits greater speed of press cycle operation. This is because the entire flow of liquid from the pump is directed to the ram, so that by a continuous forward movement it closes upon the work piece and at the same time clamps it for pressing. Under Ferris' so-called "parallel flow arrangement," however, it is said the fluid pressure stands in the clamping cylinders and the drawing cylinder simultaneously, so that with a pump developing 2000 lbs. pressure, the "force" exerted by the clamping rams will be entirely independent of the "force" exerted by the drawing ram; and the fact that one pump supplies fluid pressure for both kinds of rams does not affect the "drawing force" capable of being produced and used for a drawing operation by the main ram. Thus, it is said, if the Ferris ram can produce a drawing force of 200,000 lbs., none of it will be diverted, "because there is no resistance offered to the advancement of the main ram other than the metal blank." Consequently, appellants conclude, there is no diversion of "drawing force" in the Ferris process. Nor, further, is there generation of clamping force during the drawing operation by such a diversion.

Appellee objects to this mathematical view of "drawing force" and to identifying "drawing force" exclusively with the power applied by the ram. This, on two grounds: first, that the language of the claims should be given the broadest interpretation it will reasonably support, cf. *In re Carr*, 54 App. D. C. 283, 297 Fed. 542 (1924), 323 O. G. 4; second, because "drawing force," as appellants use it, does not mean, as might be supposed, the force applied to the tool which actually does the drawing, but refers to the force exerted on the piston which actuates the drawing tool. The two are not the same, since part of the former is diverted to the clamping mechanism of Ernst and never reaches the drawing tool or pressing member. Hence, appellee urges, "drawing force" must be construed to include any force, a portion of which is eventually applied to the drawing tool. The claims are not limited to an arrangement in which force is diverted from a piston or equivalent member and, in fact, no such member is recited in any of them. Accordingly, it is said, appellants have drawn their claims broadly to include any arrangement in which part of a force directed toward the drawing member is deviated to the clamping mechanism, and this is disclosed in Ferris.

Since the latter's pump projects a continuous column of pressure to the ram and also to the clamping mechanism, and this flows through one pipe from the outlet of the pump to the point of separation, the diversion of part of the pressure created by the pump to the clamping mechanism, is a diversion of "drawing force." Without this diversion, the whole of the pressure delivered by the pump would be delivered to the drawing operation. It is not material, in appellee's view, so far as the claims are concerned, whether the clamping pressure is generated directly by fluid diverted from the supply line of the main ram or is allowed to pass to the ram and then is built up as clamping pressure by elements acting in opposition to the ram. The action of the press is the same in either case.

[1] The word "force" may have a mathematical or technical physical meaning and one of common usage. The two are not identical, but they are closely related. As applied to physical forces, the one is a function of the other. We need not determine whether, in view of this, the difference would be sufficiently substantial to support as inventive a claim using the one when considered in relation to a prior disclosure using the other. As to that, because of their obviously close relationship, we have some doubt. But we have more that the term "drawing force" was used in appellants' claims solely in its mathematical or technical physical meaning, as now is claimed.

[2] [3] None of the three claims gives any evidence of having been drawn in technical mathematical language or that of physics. All are drawn in commonly used mechanical terms. This is, perhaps, commendable. But it is also revealing. It is difficult to believe that claims drawn thus would depart, in a single instance, from the general pattern to employ a term in an unusual technical meaning, without saying so explicitly, particularly when the term has also a common one which fits into the pattern. "Force" may mean either exact pressure times exact area to which the pressure is applied, or it may mean simply an operative physical power, without taking account of the exact quantity applied. There is nothing to show that the claims

were concerned with exact quantity of force, whether "drawing," "clamping," or "retracting." They were concerned with the application of forces performing different functions, but not with the exact volume of any. There is therefore no more reason for believing that "drawing force" was used with greater reference to its quantity or amount than was "retracting force" (claim 7), or "hydraulic power," "with different pressures," "the excess pressure," etc. We think therefore that the term must be taken, both from the general pattern and purpose of the claims and from its more ordinary meaning, to have been used in its common, rather than its more technical sense. The history of these claims, as shown by the record, also lends weight to this view.[5] And it derives support from the rule, stated in *In re Carr*, supra, that the claims must be given the broadest interpretation of which they reasonably are susceptible. Furthermore, if we were in greater doubt than we are, the matter has been found against appellants both by the trial court and consistently in the Patent Office. In view of this, we should be hesitant to overturn their findings, though our own view might lean the other way. *Abbott* v. *Coe*, 71 App. D. C. 195, 109 F.(2d) 449 (1939), 512 O. G. 3.

It follows that the claims, so far as they rest upon "diverting a portion of the drawing force" and applying this "to generate hydraulic pressure during the drawing operation" and then applying the generated pressure to produce clamping action, are readable directly on Ferris. Claim 4 and so much of claims 5 and 7 therefore were properly rejected.

Claim 5 includes the additional limitation of releasing the excess pressure in the clamping mechanism at a predetermined maximum. Ferris clearly discloses this feature.

Claim 7 adds that pressure is maintained upon the clamping mechanism during the withdrawal of the drawing plunger. Ferris does not mention this specifically, but it does not involve invention, nor is it claimed to do so apart from the other features. In the Ferris structure, this could be accomplished obviously by maintaining the supply of pressure fluid to the clamping mechanism until it is desired to release the clamps. Claim 7 also states the pressure applied to the clamps during retraction of the drawing piston is generated by diverting a portion of the retracting force. (It is not claimed this has a mathematical significance such as is claimed for "drawing force.") In Ferris, retraction of the ram is accomplished by pressure from the pump and the pump also provides the pressure for actuating the clamping mechanism. Hence, the clamp pressure may be regarded as generated by a diversion from the retracting force. Claims 5 and 7 therefore also were properly disallowed.

[4] We need not determine whether in some one or more of their mechanical structures appellants have perfected an invention over Ferris. If they have done so, what is new and inventive has not been described in claims sufficiently definite and limited. That their machines involve useful improvements is not disputed. We express no opinion whether these amount to invention. In our opinion the evidence is sufficient to sustain the trial court's finding that the claims in issue disclose no invention over the Ferris patent and disclosure.

Accordingly, the judgment is affirmed.

[5] Cf. note 3 supra.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

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BULLETIN OF DECISIONS OF PATENT OFFICE ON TRADE-MARKS

RENDERED DURING MARCH, 1943

BEACON LOOMS, INC., v. AMERICAN-NATIONAL BAG & BURLAP CO., INC., Opposition No. 22,352.

In a decision rendered March 2, 1943 (166 Ms. Dec., 127, 56 U. S. P. Q. 470), *First Assistant Commissioner Frazer* denied a petition by Beacon Looms, Inc., of Brooklyn, N. Y. Within thirty days after publication, this company filed its notice of opposition to the application of American-National Bag & Burlap Co., Inc., also of Brooklyn, N. Y., for registration of a trade-mark. However, the filing fee was not received in the Patent Office until one day after the expiration of the statutory period. Because the fee was not paid "within the thirty days allowed by statute from the date of publication of the trade-mark opposed," the Examiner of Trade-Marks refused to institute the opposition proceeding. The petition asked "that the notice of opposition be accepted and that proceedings be instituted in due course."

The First Assistant Commissioner denied the petition upon authority of *John Wagner & Sons* v. *Thirton, Millet & Co.*, 121 O. G. 690, 1906 C. D. 105, and for the reasons there stated.

THE CARBORUNDUM COMPANY v. ALOX CORPORATION, Opposition No. 21,061.

In a decision rendered March 3, 1943 (166 Ms. Dec. 128, 56 U. S. P. Q. 473), *Assistant Commissioner Van Arsdale* passed upon a petition by Alox Corporation, of Niagara Falls, N. Y., for reconsideration of his decision of December 31, 1942 (546 O. G. 605, 56 U. S. P. Q. 112).

The complete decision of the Assistant Commissioner upon the petition for reconsideration reads as follows:

"The applicant Alox Corporation herein petitions for reconsideration of the decision of December 31, 1942, asserting that the holding therein that applicant's record establishes applicant has not used its mark on the actual goods named in its application is contrary to the facts and applicant's record does establish that applicant has used its mark as a trade-mark applied to those goods.

"The record has been reviewed in the light of this petition and careful attention has been given to those portions of the record to which applicant has called particular attention, but I am still of the opinion that the record establishes affirmatively applicant's non-use of its mark as a trade-mark on lubricating oils and greases and penetrating oils, which are the goods named in petitioner's application involved herein.

"Reconsideration has been accorded but the previous decision is believed to be correct and is adhered to."

In another decision rendered the same day (166 Ms. Dec. 127, 56 U. S. P. Q. 473), the Assistant Commissioner denied a petition by The Carborundum Company, of Niagara Falls, N. Y., for modification of said decision of December 31, 1942.

The complete decision of the Assistant Commissioner upon the petition for modification reads as follows:

"The party Carborundum Company petitions for modification of the decision of December 31, 1942 herein.

"Petitioner requests that in view of the adjudication in the decision that apart from the opposition the applicant, because of its failure to use its mark as a trade-mark on the goods named in its application here involved, is not entitled to the registration for which it has applied, the affirmance of the decision of the Examiner dismissing the notice of opposition should be deleted from said decision rendered on appeal.

"This case is before me only as a result of opposer's appeal from the decision of the Examiner dismissing opposer's notice of opposition and it would seem quite inappropriate not to render a decision on the only question on which the appeal was taken. Further, in the event both applicant and opposer appealed the decision the court might prefer to pass on opposer's appeal rather than on applicant's appeal as in *The Pep Boys, Manny, Moe & Jack* v. *The Fisher Brothers Company*, 25 C. C. P. A. 818, 94 Fed. (2d) 204, 492 O. G. 247, or might prefer to pass on both appeals as in *Celanese Corporation of America* v. *Vanity Fair Silk Mills*, 18 C. C. P. A. 998, 47 Fed. (2d) 375, 409 O. G. 6. As in the latter case the present opposition is one of two companion opposition proceedings.

"The petition is denied."

R. H. MACY & CO., INC., v. FARR BROS. CO., INC., Opposition No. 21,186.

In a decision rendered March 3, 1943 (166 Ms. Dec. 128, 56 U. S. P. Q. 472), *First Assistant Commissioner Frazer* affirmed the decision of the Examiner of Trade-Mark Interferences sustaining the opposition of R. H. Macy & Co., Inc., of New York, N. Y., to the application of Farr Bros. Co., Inc., of Allentown, Pa., for registration of a trade-mark claimed to have been used since August 1, 1940.

Applicant's mark comprises the expression "Grocees," the letters of which are individually inclosed within irregularly arranged rectangular borders; a representation of the soles of a pair of feet; and the disclaimed notation "Room to Grow from Heel to Toe." Applicant's goods are described in the application as

"Boys', girls', misses', children's and infants' shoes made of leather, rubber, and fabric, and/or combinations of said materials."

Opposer relied upon its ownership of a trade-mark registered December 9, 1924, for "children's and boys' and girls' shoes of leather, rubber, fabric, and combinations." The registered mark is the notation "Gro-Shoe," with the picture of a tree separating the two words. The word "Shoe" is disclaimed in the registration.

Several specific contentions were raised before the First Assistant Commissioner by the applicant. The First Assistant Commissioner discussed these contentions as follows:

"Applicant contends that the goods of the parties are 'specifically different,' because opposer's shoes are said to be 'orthopedically constructed' and great care is taken in correctly fitting such shoes to the foot of the purchaser. However, as described in opposer's registration and in the opposed application the goods are substantially identical, and must be so considered for the purposes of this proceeding.

"In arguing that confusion is unlikely, applicant points to the fact that opposer's shoes are sold only by its own store. But it cannot be presumed that all purchasers are familiar with that fact, and it seems to me that many

of opposer's customers may be expected to assume that shoes sold at other stores under marks confusingly similar to opposer's mark are of the same origin as opposer's shoes.

* * * * * * *

"Applicant insists, and properly so, that in comparing the marks they should not be dissected, but must be considered in their entirety. But that does not mean that the marks may not be analyzed 'to determine which portion of a mark would be considered by purchasers as the dominant feature indicating origin.' *In re Sears, Roebuck and Co.* (C. C. P. A.), 132 Fed.(2d) 341, 547 O. G. 397."

The First Assistant Commissioner concluded that the marks of the parties are confusingly similar, saying:

"The marks here involved differ considerably in appearance; but the only nondisclaimed word features are 'Gro' and 'Gro-ees,' respectively, and in conversation those are the features by which the goods would probably be designated. To that extent, at least, it is obvious that the concurrent use of the two marks on identical merchandise would be reasonably likely to lead to confusion, and that opposer would thus be damaged by the proposed registration."

EX PARTE LASKIN BROTHERS, INC., Serial No. 439,779.

In a decision rendered March 3, 1943 (166 Ms. Dec. 130, 56 U. S. P. Q. 471), *Assistant Commissioner Van Arsdale* affirmed the action of the Examiner of Trade-Marks in refusing registration to Laskin Brothers, Inc., of Philadelphia, Pa., of the mark "Caress" for panties, slips, night dresses, combinations which are garments comprising a brassière portion, an abdominal portion and a pantie portion, and petticoats. The Examiner refused registration in view of a prior registration to another of the same word "Caress" for hosiery.

In his decision the Assistant Commissioner said:

"Applicant contends that the fact that the owner of the cited registration has consented to applicant being granted registration on this application conclusively establishes that no confusion or deception would be caused by the concurrent use of the marks on the goods to which they are applied and therefore the goods are merchandise of not the same descriptive properties. However I am unable to agree with applicant's contention since it appears to be too well established that the goods are merchandise of the same descriptive properties. *R. H. Macy & Company, Inc.*, v. *H. W. Carter & Sons*, 56 App. D. C. 249, 12 F.(2d) 190, 350 O. G. 470; *Lewis* v. *New Way Hosiery Company*, 503 O. G. 871, 41 U. S. P. Q. 624; *Lincoln Stores, Inc.*, v. *Mitchell & Weber, Inc.*, 532 O. G. 777, 51 U. S. P. Q. 196.

"Since the marks are identical and are applied to merchandise of the same descriptive properties applicant is not entitled to the registration for which it has applied."

EX PARTE NUTTER BROS., Serial No. 447,886.

In a decision rendered March 3, 1943 (166 Ms. Dec. 131, 56 U. S. P. Q. 471), *Assistant Commissioner Van Arsdale* affirmed the action of the Examiner of Trade-Marks in refusing to Nutter Bros., of Sanford, Maine, the registration for which said applicant had applied.

Registration was refused in view of a prior registration to another. Applicant's mark and the mark of the prior registration were compared by the Assistant Commissioner in the following manner:

"Both applicant's mark and the mark of the cited registration are applied to apples. Both of these marks have as their dominant feature the representation of an apple displayed as a caricature of a man's face or head adorned with a crown. Alongside of the pictorial feature of applicant's mark are the words 'King Krunch', and in a similar position in the mark of the registration are the words 'Apple King—A Royal Pack' ".

In finding these marks to be confusingly similar, the Assistant Commissioner said:

"The funny faces pictured in the marks are outstanding therein and are so similar that notwithstanding the difference in the words appearing alongside the caricatures it is my opinion the marks as a whole are so similar in appearance that their concurrent use on the identical goods to which they are applied would be likely to cause confusion and mistake in the mind of the public and to deceive purchasers. That confusing similarity between marks may result from their similarity in appearance although the marks may include different words is well established. *American Fruit Growers* v. *Michigan Fruit Growers*, 17 C. C. P. A. 906, 38 F.(2d) 696, 393 O. G. 789."

EX PARTE SPALSBURY STEIS DEEVERS SHOE COMPANY, Serial No. 451,093.

In a decision rendered March 3, 1943 (166 Ms. Dec. 132, 56 U. S. P. Q. 474), *Assistant Commissioner Van Arsdale* affirmed the action of the Examiner of Trade-Marks in refusing registration to Spalsbury Steis Deevers Shoe Company, of St. Louis, Mo., of the mark "Active-Service" for shoes. The Assistant Commissioner agreed with the Examiner that said mark is merely descriptive of the goods. He said:

"The designation 'active service shoes' in its ordinary and dictionary meaning is descriptive of shoes for active service wear as opposed to lounging wear and is merely descriptive of shoes of that type and character."

C. HOWARD HUNT PEN CO. v. PARROT SPEED FASTENER CORPORATION (SPEED PRODUCTS COMPANY, ASSIGNEE, SUBSTITUTED), Oppositions Nos. 20,211, 20,212, and 20,213.

C. HOWARD HUNT PEN CO. v. SPEED PRODUCTS COMPANY, Oppositions Nos. 20,453, 20,454, and 20,455.

In a decision rendered March 4, 1943 (166 Ms. Dec., 132, — U. S. P. Q. —), *Assistant Commissioner Van Arsdale* denied a third petition for rehearing filed by Speed Products Company with regard to his decision of January 8, 1943 (547 O. G. 611, 56 U. S. P. Q. 231).

In his decision upon said petition, the Assistant Commissioner stated:

"Petitioner again calls attention to a decision of the Examiner of Interferences in another opposition proceeding instituted by a different opposer on the basis of goods different from the goods of the opposer here, and states that applicant is securing a registration of the mark 'Speedmatic' for stapling machines on an application against which the present opposer has not filed notice of opposition.

"These matters are not considered to be pertinent here."

OLIVER FARM EQUIPMENT COMPANY v. DEERE & COMPANY, Opposition No. 21,734.

In this opposition proceeding the Examiner of Trade-Mark Interferences dismissed the opposition of Oliver Farm Equipment Company, of Chicago, Ill., to the application of Deere & Company, of Moline, Ill., for registration of a trade-mark, but refused the registration applied for on an ex parte ground.

Applicant appealed from the decision, but because its notice of appeal had not been served on counsel for opposer, counsel for applicant was advised that, until proof of service was filed, the appeal would

not be set for hearing. Applicant then petitioned that the requirement for service be withdrawn.

In a decision rendered March 6, 1943 (166 Ms. Dec. 133, 56 U. S. P. Q. 587), *First Assistant Commissioner Frazer* denied said petition, saying:

"In a sense, the question is moot, because the petition is accompanied by proof of service of the notice of appeal. However, in view of the situation that has developed, a dismissal of the petition would not suffice to dispose of the matter presented.

"In his decision the Examiner of Interferences fixed February 8, 1943, as applicant's limit of appeal, and February 18 as opposer's limit of appeal. Applicant's notice of appeal was filed on February 8, but was not served until March 2. In the meantime opposer had filed no appeal, and its time to appeal had expired.

"Opposer is not a party to applicant's appeal 'other than in form.' *Island Road Bottling Co.* v. *Drink-Mor Beverage Co.* (C. C. P. A.), 132 Fed. (2d) 129, 548 O. G. 3. However, opposer was entitled to be advised of the filing of the appeal in order that it may determine its own course of action in the inter partes proceeding. Had applicant failed to appeal within the time fixed, the decision of the Examiner of Interferences refusing the proposed registration would have become final, and there would have been no occasion for opposer to appeal from his decision dismissing the opposition. But had opposer known of applicant's appeal, it may have desired to continue the prosecution of its opposition. In any event, it should have been afforded the opportunity to do so.

"Opposer's time to appeal from the decision of the Examiner of Interferences is extended to expire March 26, 1943. Applicant's appeal will now be set for hearing, and opposer's appeal, in the event it files one, will be set for the same date."

FOLEY & COMPANY v. MILES LABORATORIES, INC., Cancellation No. 3944.

In a decision rendered March 16, 1943 (166 Ms. Dec. 134, 57 U. S. P. Q. 44), *First Assistant Commissioner Frazer* reversed the decision of the Examiner of Trade-Mark Interferences and thereby sustained the petition of Foley & Company, of Chicago, Ill., to cancel trade-mark registration No. 390,138, issued September 9, 1941, upon an application filed April 21, 1941, to Miles Laboratories, Inc., of Elkhart, Ind. Respondent's mark is the word "Vitamiles," and the goods named in its registration are "vitamin tablets." The petition to cancel was based upon petitioner's ownership of the trade-mark "Vitabuild," registered April 5, 1938, for "vitamin compound of vitamins A, B, D, and G for general tonic use." Both registrations were effected under the provisions of the act of February 20, 1905.

In holding that there would be no likelihood of confusion between the trade-marks involved, the Examiner of Trade-Mark Interferences said:

"Admittedly the first syllables, namely 'Vita' are identical; however, considering the nature of the goods to which the marks are applied, namely, vitamin preparations, the Examiner is of the opinion that purchasers of these products would understand that 'Vita' is merely an abbreviation of 'vitamin' and would give less consideration thereto in determining origin than would be given to a wholly arbitrary term such as the last syllables of the respective marks."

The First Assistant Commissioner disagreed with this position of the Examiner. He stated:

"The marks * * * must be considered in their entirety. If, when so considered, they appear to be confusingly similar, it is immaterial that a portion of either or both may be suggestive, or even descriptive. Petitioner must be presumed to own its mark as registered, and if that mark is so nearly resembled by respondent's mark as to be likely to cause confusion or mistake in the mind of the public or to deceive purchasers, respondent was not entitled to the use of its mark at the date of its application for registration thereof, and the statute requires that 'the Commissioner shall cancel the registration.'

"In view of the fact that the goods of the parties are substantially identical, coupled with the presumption, which I think is warranted, that they are sold over the same counters to the same class of purchasers to be used for the same purposes, it is my opinion that the words 'Vitamiles' and 'Vitabuild' are too nearly alike in appearance and in sound to be used concurrently as trade-marks for such goods without likelihood of confusion. Each is a three-syllable word containing nine letters. The first two syllables are common to both, and the third syllables have two letters in common. Moreover, their similarity in appearance is greatly enhanced by the fact that, as registered, both marks are printed in condensed Gothic capitals which are so nearly the same as to be practically indistinguishable."

In its answer to the petition for cancellation, respondent pleaded a long list of alleged registrations for various products of marks which include the term "vita." Respondent urged that these registrations

"show that by reason of the existence of a large number of marks in which the syllables 'vita' are included, the public does not rely on those syllabes as indicating the origin of goods bearing marks including such syllables."

However, because such registrations were not introduced in evidence, the First Assistant Commissioner stated that they might not properly be considered, citing *Langendorf United Bakeries, Inc.*, v. *General Foods Corporation*, 29 C. C. P. A. 831, 125 Fed.(2d) 159. The First Assistant Commissioner added that, even were they in the record, they would not be helpful to respondent's case, and cited *Skelly Oil Co.* v. *Powerine Co.*, 24 C. C. P. A. 790, 86 Fed.(2d) 752, and *Pepsodent Co.* v. *Comfort Manufacturing Co.*, 23 C. C. P. A. 1224, 83 Fed.(2d) 906.

It was also contended by respondent that petitioner, having taken no testimony, had failed to prove itself injured by the registration of respondent's mark, because there was no proof that petitioner was using its own mark at the time the petition was filed. This contention the First Assistant Commissioner treated as follows:

"Paragraph 2 of the petition reads:

"'Petitioner has adopted and used in its business the trade-mark "Vitabuild" and petitioner is now and has continuously since the adoption been the owner of registered trade-mark No. 355,905 of April 5, 1938, for the trade-mark "Vitabuild" on a vitamin compound of vitamins A, B, D, and G for general tonic use.'

"Respondent answered this allegation in the following language:

"'Answering paragraph 2 of the petition to cancel, registrant admits the issuance of registration No. 355,905 dated April 5, 1938, but registrant has no knowledge as to the other allegations of said paragraph and therefore denies the same.'

"In other words, respondent admits the issuance of the registration pleaded, but denies petitioner's ownership and use of the registered mark. As pointed out by the Court of Customs and Patent Appeals in *Ely & Walker Dry Goods Co.* v. *Sears, Roebuck & Co.*, 24 C. C. P. A. 1244, 90 Fed. (2d) 257, registration of a mark under the act of 1905 is prima facie evidence of ownership, and ownership implies use. And while that was an opposition proceeding, 'similar rules, insofar as the same may be applicable, having in mind the nature of such proceedings, are applicable in opposition and cancelation proceedings.' *Derby Oil Co.* v. *White Star Refining Co.*, 20 C. C. P. A. 816, 62 Fed. (2d) 984; *American Cyanamid Co.* v. *Synthetic Nitrogen Products Corp.*, 19 C. C. P. A. 1235, 58 Fed. (2d) 984. There being no evidence to the contrary, the fact that petitioner was using its mark at or about the time of filing its petition to cancel is thus sufficiently established by the record."

MAXIMILIAN BRETH v. CUTTING ROOM APPLIANCES CORP., Opposition No. 20,872.

In a decision rendered March 20, 1943 (166 Ms. Dec. 137, 57 U. S. P. Q. 46), *First Assistant Commissioner Frazer* reversed the decision of the Examiner of Trade-Mark Interferences dismissing

the opposition of Maximilian Breth, of New York, N. Y., to the application of Cutting Room Appliances Corp., also of New York, N. Y., for registration of a trade-mark, thereby sustaining the opposition. The First Assistant Commissioner affirmed the action of the Examiner in refusing the registration applied for on the ground that applicant's mark is descriptive of the goods to which it is appropriated.

The mark sought to be registered consists in the three letters "C. R. A." The goods set forth in the application are

"silk and woolen unwinders, cloth laying and spreading machines, clamps, pin bars, and pattern hangers for use in cutting rooms of clothing manufacturers to facilitate inspection, treatment and cutting of cloth material."

In his decision the First Assistant Commissioner set out the basis of opposition and discussed the questions of descriptiveness and damage as follows:

"Opposer deals in identical merchandise. He has never used the letters 'C. R. A.,' alone, in connection with his merchandise; but for approximately a quarter of a century immediately preceding applicant's entry in the field, he had described his goods as 'cutting room appliances.' No other dealer had ever employed this expression; and its persistent, extensive and exclusive use by opposer had made it synonymous in the trade with the name of his business.

"Opposer had a saleman named H. Walter Gilbert, who is now an officer of the applicant corporation, and appears to have been instrumental in its organization. I cannot escape the conviction that the prime motive of Mr. Gilbert and his associates in selecting the corporate name of this new concern was to confuse customers as to the origin of applicant's products, and thereby to share in the good will of opposer's business. At any rate, that would seem to have been the inevitable result.

"Applicant's trade-mark 'C. R. A.,' when displayed in association with applicant's name, can have no other meaning than 'cutting room appliances;' and as pointed out by the Examiner, applicant in its advertising has assiduously taught the public to regard the mark as having that significance. It is true that much of this advertising occurred after the filing of the application to register, but it is nonetheless persuasive evidence of applicant's intent from the outset to render the mark equivalent to the words.

"The argument of applicant's counsel on this phase of the case is summarized in his brief on appeal as follows:

"'Applicant's trade-mark "C. R. A." has never been used in the trade as a descriptive phrase. The argument of the Examiner of Interferences that applicant itself has rendered the mark "C. R. A." descriptive by teaching the public that it stands for the descriptive phrase "cutting room appliances" is erroneous. What applicant did was merely to suggest its trade-mark in its corporative name and its corporative name in its trade-mark.'

"Manifestly that is a distinction without a difference, because applicant's corporative' name is also the name of the goods with which the mark is used, and to suggest the corporate name is thus necessarily to suggest the goods.

* * * * * * *

"Having used the descriptive expression 'cutting room appliances,' and having the undoubted right to continue such use, it is my opinion that opposer would be damaged by the registration to applicant of a mark possessing 'the same significance in the trade.' *Burmel Handkerchief Corporation* v. *Cluett, Peabody & Co.*, 29 C. C. P. A. 1024, 127 Fed. (2d) 318. While he did not expressly so state, the Examiner seems to have taken the view that the issue of descriptiveness was not raised by the notice of opposition. There is no direct allegation in the notice that 'cutting room appliances' is descriptive of opposer's goods; but its use is alleged, and the goods are named, and the fact of descriptiveness is obvious. I think the pleading is sufficient to support a judgment sustaining the opposition on that ground."

SMITH, KLINE & FRENCH LABORATORIES v. CLIFF C. OWEN, Opposition No. 20,857.

In a decision rendered March 23, 1943 (166 Ms. Dec. 139, 57 U. S. P. Q. 47), *First Assistant Commissioner Frazer* affirmed the decision of the Examiner of Trade-Mark Interferences sustaining the opposition of Smith, Kline & French Laboratories, of Philadelphia, Pa., to the application of Cliff C. Owen, of Salisbury, N. C., for registration of the notation "Ox-O-Ment" as a trade-mark for "a preparation for acid indigestion, gas, heartburn, sour stomach and the like." This mark was claimed to have been used since January 1, 1940.

Opposer relied upon its ownership of the trade-mark "Oxo-Ate," registered July 24, 1928, for "medicine for the treatment of arthritis."

The First Assistant Commissioner agreed with the Examiner of Interferences that the goods of the parties are goods of the same descriptive properties. He said:

"The case was submitted on a stipulation in lieu of testimony, from which it appears that applicant's product is in powder form and is sold over the counter to the general public, and that opposer's product is in tablet form and is sold over the counter and also on prescription. Both are stock remedies of a character usually to be found in drug stores; and while they are intended for the treatment of different ailments, judicial notice may be taken of the fact that they are sold to the same general class of purchasers. It is asserted in applicant's brief that the price per package of his own goods is ten cents, and that the price of opposer's goods is 'around sixty cents.' I find nothing in the record to indicate the price of opposer's goods; but even if applicant's statement be accepted as correct, it is obvious that both items are marketed in small containers and are comparatively inexpensive."

The First Assistant Commissioner also concluded that opposer might be damaged by the registration of applicant's mark. He stated:

"Both marks are printed in conventional capital letters. Each contains three syllables, the first two in common. There is a difference in the last syllables, but even so the marks as a whole are quite similar in appearance and also in sound. Moreover, in so far as the record discloses, both are purely arbitrary, and are thus more likely to be confused than if they were 'made up of ordinary words used in everyday conversation.' *The Bon Ami Co.* v. *McKesson & Robbins, Inc.*, 25 C. C. P. A. 826, 93 Fed. (2d) 915."

EX PARTE DIFFERENTIAL STEEL CAR COMPANY, Serial No. 418,140.

In a decision rendered March 25, 1943 (166 Ms. Dec. 141, — U. S. P. Q. —), *First Assistant Commissioner Frazer* dismissed an appeal by one Henry Fort Flowers from the refusal of the Examiner of Trade-Marks to register a mark upon the application of Differential Steel Car Company, of Findlay, Ohio. He said:

"Mr. Flowers is president of the applicant corporation, but he is not a party to this proceeding, and in his personal capacity has no legal interest therein. Clearly he is without right to prosecute the appeal."

SKOL COMPANY, INC., v. NELS L. OLSON, Opposition No. 21,541.

In this proceeding the Examiner of Trade-Mark Interferences sustained the opposition of Skol Company, Inc., of New York, N. Y., to the application of Nels L. Olson, of Detroit, Mich., for registration of a trade-mark, and refused the registration applied for on the further ground that applicant had made no use of his mark in interstate commerce at the time the application was filed. The matter is now pending on applicant's appeal from the Examiner's decision.

In a decision rendered March 26, 1943 (166 Ms. Dec. 142, — U. S. P. Q. —), *First Assistant Com-*

missioner Frazer denied a motion by the applicant. The nature of the motion and the attitude of the First Assistant Commissioner thereto appear from the following excerpts from the decision:

"Asserting that he has now filed a new application, presumably a duplicate of the one here opposed, applicant moves that the new application be substituted for the opposed application in this proceeding. In support of his motion applicant cites the case of *Fortune Tobacco Co. v. Axton-Fisher Tobacco Co.*, 159 Ms. D. 260, 22 U. S. P. Q. 366, where such a substitution was permitted under somewhat similar circumstances. There, however, the substitution was made upon stipulation. In his decision the First Assistant Commissioner said:

"'Agreed to by both parties, the procedure is consistent with modern equity practice that pays more attention to substance than to form. Nor is it seen how it could affect adversely the interests of the general public.'

"I am inclined to follow that case, but I do not think its doctrine should be extended, as proposed in effect by applicant. I doubt the authority of the Patent Office to substitute one application for another in an opposition proceeding without the opposer's consent; and even if the authority exists, its exercise in the instant case would establish an undesirable precedent.

"A stipulation of the parties covering the subject matter of the motion will be given favorable consideration."

EX PARTE HAROLD H. CLAPP, INC., Serial No. 438,609.

In a decision rendered March 30, 1943 (166 Ms. Dec. 143. — U. S. P. Q. —), *Assistant Commissioner Van Arsdale* affirmed the action of the Examiner of Trade-Marks in refusing a registration applied for by Harold H. Clapp, Inc., of Rochester, N. Y. The Examiner refused registration of applicant's mark on the ground that the surname "Clapp's" thereof is not distinctively displayed and is dominating in the mark.

In agreeing with the Examiner, the Assistant Commissioner said:

"The fact that the name 'Clapp's' is in the possessive form is immaterial, *In re Nisley Shoe Co.*, 19 C. C. P. A. 1211, 58 Fed. (2d) 426, and since the name 'Clapp's' is the dominating feature of the mark and is not 'written, printed, impressed, or woven in some particular or distinctive manner' the mark is not registrable. *In re Sears, Roebuck & Company*, (C. C. P. A.), 132 Fed. (2d) 341, 56 U. S. P. Q. 166."

KOEHRING COMPANY v. ISAACSON IRON WORKS, Opposition No. 21,121.

In this opposition proceeding the Examiner of Trade-Mark Interferences sustained the opposition of Koehring Company, of Milwaukee, Wis., to the application of Isaacson Iron Works, of Seattle, Wash., for registration of a trade-mark, and refused the registration applied for on the further ground that applicant had made no use of its mark at the time its application to register was filed. Applicant appealed from that part of the decision sustaining the opposition.

In a decision rendered March 30, 1943 (166 Ms. Dec. 143, — U. S. P. Q. —), *First Assistant Commissioner Frazer* dismissed said appeal. He said:

"No appeal has been taken from the ex parte rejection of the application, and applicant's only reference thereto is found in its brief on appeal as follows:

"'With respect to the Examiner of Interference's remarks concerning applicant's right of registration on the involved application, that situation was anticipated by applicant early in this proceedings and a subsequent application for the trade-mark was filed and opposer stipulated that the new application filed, curing the defect of interstate use, be substituted in this opposition proceeding.'

"There is such a stipulation in the record, but it was entered into 'subject to the approval of the Examiner of Trade-Mark Interferences,' and was expressly disapproved by that official. The Examiner's decision refusing registration having become final, the appeal from his decision sustaining the opposition thus presents a moot question, because the opposed application is no longer pending. * * *

"Upon stipulation of the parties, consideration will be given to the reinstatement of the appeal, and the substitution in this proceeding of the second application referred to in applicant's brief, in accordance with the procedure outlined in *Fortune Tobacco Co. v. Axton-Fisher Tobacco Co.*, 159 Ms. D. 260, 22 U. S. P. Q. 366."

TRADE-MARKS

OFFICIAL GAZETTE, APRIL 27, 1943

[VOL. 549. NO. 4]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 447,307. HERCULES POWDER COMPANY, Wilmington, Del. Filed Sept. 25, 1941.

IMPERIAL BRAND

No claim is made to the word "Brand" apart from the mark.

FOR SYNTHETIC RESINS FOR USE IN THE MANUFACTURE OF VARNISHES, PAINTS, LACQUERS, ENAMELS, ADHESIVES, AND PRINTING INKS.

Claims use since Oct. 1, 1931.

Ser. No. 447,308. HERCULES POWDER COMPANY, Wilmington, Del. Filed Sept. 25, 1941.

LEWISOL

FOR SYNTHETIC RESINS FOR USE IN THE MANUFACTURE OF VARNISHES, PAINTS, LACQUERS, ENAMELS, ADHESIVES, AND PRINTING INKS.

Claims use since Oct. 1, 1931.

Ser. No. 452,027. SOONER COAL MINING COMPANY, Kansas City, Mo. Filed Mar. 30, 1942.

SOONER COAL You'd Sooner Have It!

The word "Coal" is disclaimed apart from the mark.

FOR COAL.

Claims use since Feb. 27, 1942.

CLASS 2

RECEPTACLES

Ser. No. 458,105. THE OPTICASE COMPANY, Newark, N. J. Filed Jan. 22, 1943.

OPTICASE

FOR SPECTACLE CASES AND JEWELRY CASES NOT MADE OF PRECIOUS METALS.

Claims use since June, 1940.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 456,846. DENNIS CHEMICAL CO., St. Louis, Mo. Filed Nov. 16, 1942.

DEN-TEX

FOR COMPOUNDS FOR REMOVING PAINT, LACQUER AND SIMILAR MATERIAL FROM THE HANDS.

Claims use since Aug. 15, 1942.

Ser. No. 458,175. JOHN W. HOLMES, doing business as Wilmer Products, Carnegie, Pa. Filed Jan. 26, 1943.

HUM

FOR ANTISEPTIC HOME CLEANING COMPOUND IN POWDER FORM FOR GENERAL USE, HAVING INCIDENTAL WATER SOFTENING PROPERTIES.

Claims use since Nov. 20, 1942.

Ser. No. 458,976. UNIVERSAL WHEEL & ABRASIVE CORP., Chicago, Ill. Filed Mar. 8, 1943.

NUBON

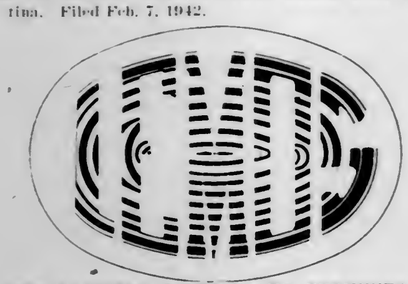
FOR ABRASIVE WHEELS.

Claims use since Feb. 10, 1943.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 450,836. ENRIQUE LEMOS, Buenos Aires, Argentina. Filed Feb. 7, 1942.



FOR VACCINES, SERUMS, AND FERMENTS FOR THE TREATMENT OF HUMAN MALADIES.
Claims use since February, 1927.

Ser. No. 454,600. EMERY INDUSTRIES, INC., Cincinnati, Ohio. Filed July 30, 1942.



No claim is made to the words "Laboratory-Controlled Throughout Production" apart from the mark. Applicant is the owner of registered trade-mark No. 363,690, registered under the 10-year proviso for the name "Emery."
FOR TEXTILE OILS AND TEXTILE OIL BASES, SCOURING OILS AND SCOURING OIL BASES, PLASTICIZING OILS AND PLASTICIZERS, EMULSIFYING AGENTS AND BASES, WETTING AND DISPERSING AGENTS AND BASES, FAT SPLITTING REAGENTS AND SAPONIFIERS, ABSORBEFACIENTS, FATTY ACIDS, GLYCERINE, AND SOLID FATTY BODIES SUCH AS STEARIC ACID AND THE LIKE.
Claims use since May 15, 1941.

Ser. No. 455,462. CAESAR A. STOPPELLI, doing business under the names Safe Drug Store and Triac Pharmacal Co., New York, N. Y. Filed Sept. 10, 1942.

FERBINATES

FOR TONIC AND RECONSTRUCTIVE.
Claims use since Oct. 15, 1941.

Ser. No. 455,512. A. R. MAAS CHEMICAL CO., South Gate, Calif. Filed Sept. 14, 1942.

DRI-TRI

The word "Dri" is disclaimed apart from the mark.
FOR ANHYDROUS TRISODIUM PHOSPHATE.
Claims use since Apr. 9, 1942.

Ser. No. 455,653. CHARLES E. FROSST & Co., Montreal, Quebec, Canada, and Richmond, Va. Filed Sept. 21, 1942.

OSTOFORTE

FOR MEDICINAL PRODUCTS FOR USE AS A MEDICINE IN THE MITIGATION AND TREATMENT OF PSORIASIS, CHRONIC ARTHRITIS AND ALLIED CONDITIONS, WHERE HIGH DOSAGES OF ACTIVATED STEROLS ARE INDICATED, SAID PRODUCTS BEING IN THE FORM OF CAPSULES, TABLETS, PILLS LIQUIDS AND OINTMENTS, CONTAINING STEROLS WHICH HAVE BEEN SUBJECTED TO THE CONTROLLED RAYS OF ULTRA-VIOLET LIGHT.
Claims use since Dec. 28, 1940.

Ser. No. 456,127. MCKESSON & ROBBINS, INCORPORATED, New York, N. Y. Filed Oct. 10, 1942.



The words "A Toilet Preparation for the Scalp and Hair" and "McKesson & Robbins, Incorporated" are disclaimed apart from the mark.
FOR PERFUMED TOILET PREPARATION FOR THE PURPOSE OF CLEANSING THE SCALP AND HAIR, IMPARTING A LUSTRE TO THE HAIR AND KEEPING IT WELL GROOMED AND IN PLACE.
Claims use since Sept. 17, 1937.

Ser. No. 456,829. RALPH PADALINO, Elizabeth, N. J. Filed Nov. 14, 1942.

CREV-EX
FUNGICIDAL DRESSING

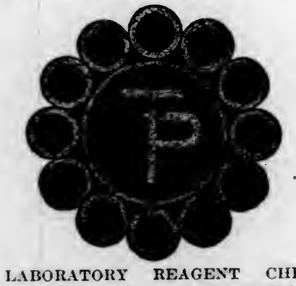
The words "Fungicidal Dressing" are disclaimed.
FOR LIQUID MEDICINE FOR THE TREATMENT OF ATHLETE'S FOOT.
Claims use since June 14, 1942.

Ser. No. 457,777. PURITAN CHEMICAL COMPANY, Atlanta, Ga. Filed Jan. 6, 1943.

Thirsty-Sak

Applicant disclaims the word "Sak" except in association with the word "Thirsty."
FOR DEVICE CONTAINING CHEMICALS FOR USE IN ABSORBING MOISTURE AND AS A DEODORIZER
Claims use since Dec. 1, 1942.

Ser. No. 458,035. FISHER SCIENTIFIC COMPANY, Pittsburgh, Pa. Filed Jan. 20, 1943.



FOR LABORATORY REAGENT CHEMICALS—NAMELY, AMMONIUM PERSULPHATE, HYDROCHLORIC ACID, HYDROFLUORIC ACID, CUPRIC SULFATE, MAGNESIUM OXIDE AND SODIUM CARBONATE (ESCHKA'S MIXTURE), POTASSIUM HYDROXIDE, SODIUM HYDROXIDE, SODIUM BISMUTHATE, PERCHLORIC ACID, AND POTASSIUM IODIDE.
Claims use since June 1, 1940.

Ser. No. 458,671. ARKANSAS COMPANY, INC., Newark, N. J. Filed Feb. 22, 1943.

ARKOL-A

FOR SOFTENING AGENTS USED IN PROCESSING OF TEXTILES.
Claims use since April, 1941.

Ser. No. 458,675. ARKANSAS COMPANY, INC., Newark, N. J. Filed Feb. 22, 1943.

INHIBITOL

FOR PROTECTING AGENTS AGAINST FADING USED IN THE FINISHING OF TEXTILE FABRICS.
Claims use since April, 1941.

Ser. No. 458,742. RAYBESTOS-MANHATTAN, INC., Stratford, Conn. Filed Feb. 22, 1943.

Rayflex

FOR PLASTICIZER FOR SYNTHETIC RUBBER COMPOUNDS.
Claims use since Jan. 6, 1943.

Ser. No. 458,935. DIAMOND ALKALI COMPANY, Pittsburgh, Pa. Filed Mar. 6, 1943.



FOR LAUNDRY SOURS, SILICATED ALKALIS CONTAINING SODIUM OXIDE AND SILICA, ALKALIS CONTAINING SODIUM COMPOUNDS, LAUNDRY SODAS, CLEANERS AND CLEANSERS, FOR USE IN TREATING WATER.
Claims use since 1912.

Ser. No. 459,029. W. G. REARDON LABORATORIES, INC., Port Chester, N. Y. Filed Mar. 11, 1943.

Mouseed

Applicant is the owner of Reg. No. 169,600.
FOR PREPARATION FOR EXTERMINATING RODENTS.
Claims use since June 26, 1925.

Ser. No. 459,070. DELETE DISTRIBUTORS, INC., New York, N. Y. Filed Mar. 13, 1943.

DeLete

FOR DEPILATORY.
Claims use since Jan. 2, 1943.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 458,296. WAYNE FOUNDRY COMPANY, Detroit, Mich. Filed Feb. 1, 1943.

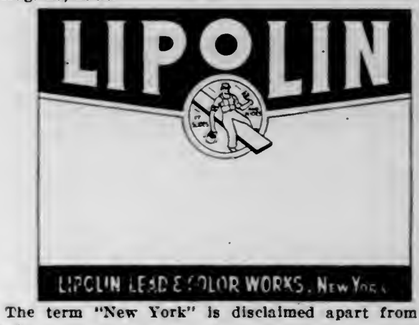
TIFFINITE

FOR METAL CASTINGS MADE FROM CLOSE GRAIN ALLOYED CAST IRON.
Claims use since May 15, 1941.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 454,970. ALEXANDER S. LIPTON, doing business as Lipolin Lead & Color Works, New York, N. Y. Filed Aug. 18, 1942.



The term "New York" is disclaimed apart from the mark.
FOR READY MIXED PAINTS.
Claims use since June 15, 1937.

Ser. No. 456,679. UNIVERSAL ZONOLITE INSULATION CO., Chicago, Ill. Filed Nov. 6, 1942.

Pulvazon

FOR PAINT PIGMENT.
Claims use since Nov. 3, 1942.

Ser. No. 457,331. DUBBEK BROTHERS & COMPANY LIMITED, Crayford, England. Filed Dec. 11, 1942.

PETROPUT

FOR GLAZING PUTTY FOR WINDOWS AND THE LIKE.
Claims use since May 29, 1942.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 458,362. THE WHITNEY BLAKE COMPANY, New Haven, Conn. Filed Feb. 5, 1943.

PLASTITE

FOR INSULATED WIRES AND CABLES.
Claims use since Dec. 17, 1942.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 451,092. J. JAY SMITH, doing business as Esseneff Company, Chicago, Ill. Filed Feb. 19, 1942.

HI-HAND BAR-BOWL

The word "Bowl" is disclaimed apart from the mark. The representation of the figure is fanciful.
FOR DICE GAME COMPRISING A PLURALITY OF DICE HAVING VARIED FACE MARKINGS INDICATIVE OF PRONE AND UPRIGHT POSITIONS OF BOWLING PINS WHICH DICE ARE THROWN IN PLAY AND THE RESULTING INDICATIONS SCORED AS IN BOWLING.
Claims use since Feb. 5, 1942.

Ser. No. 458,152. JEROME H. HAIFLEY, Los Angeles, Calif. Filed Jan. 25, 1943.

VIC-TOY

The word "Toy" is disclaimed apart from the mark.
FOR TOY AIRPLANES.
Claims use since June 7, 1942.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 454,498. THE B-H TOOL AND SUPPLY CO., Detroit, Mich. Filed July 25, 1942.

bh

FOR HIGH SPEED METAL CUTTING TOOLS—NAMELY, TWIST DRILLS, REAMERS, TAPS, DIES, GAUGES, FILES, HACKSAWS AND TUNGSTEN CARBIDE TIPPED TOOLS FOR INDUSTRIAL MANUFACTURING USE.
Claims use since Jan. 2, 1936.

Ser. No. 455,130. PLASTALLOY COMPANY, Burbank, Calif. Filed Aug. 26, 1942.

PLASTALLOY.

FOR MACHINE TOOL ELEMENTS—NAMELY, JIGS, FIXTURES, PUNCHES, AND DIES.
Claims use since Apr. 1, 1941.

Ser. No. 455,761. NATIONAL SILVER COMPANY, New York, N. Y. Filed Sept. 25, 1942.

FARRIAS

FOR TABLEWARE AND CUTLERY MADE OUT OF BASE METAL, STAINLESS STEEL OR CARBON STEEL—NAMELY, SPOONS, KNIVES, FORKS, BUTCHER KNIVES, PARING KNIVES, SLICING KNIVES, CLEAVERS, COOK FORKS, TABLE KNIVES, AND CARVING SETS.
Claims use since Aug. 31, 1942.

Ser. No. 456,346. JOHN A. ROYAL, East Boothbay, Maine. Filed Oct. 22, 1942.

MULTI - SHAV

FOR RAZOR BLADE SHARPENERS.
Claims use since April, 1938.

Ser. No. 458,979. WHEEL TRUEING TOOL COMPANY OF DELAWARE, Detroit, Mich. Filed Mar. 8, 1943.

TRUCO

FOR DIAMOND DRESSING TOOLS.
Claims use since May 1, 1933.

Ser. No. 459,101. AMERICAN SAW & MFG. COMPANY, Springfield, Mass. Filed Mar. 15, 1943.

Hackmaster

FOR HACK SAW BLADES.
Claims use since Feb. 15, 1943.

Ser. No. 459,107. CHICAGO FLEXIBLE SHAFT COMPANY, Chicago, Ill. Filed Mar. 15, 1943. Under section 5b of the act of 1905 as amended in 1920.

STEWART

FOR OIL PUMPS.
Claims use since 1921.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 458,328. GEORGE A. DOSTAL, New York, N. Y. Filed Feb. 4, 1943.

MAGNI-RAY

No claim is made to the term "Ray."
FOR MAGNIFIER APPARATUS, ITS USE BEING FOR INSPECTORS, PHYSICIANS, BANKS, AND DEFENSE PLANTS.
Claims use since May 1, 1941.

Ser. No. 458,427. THE HARLEQUIN CORPORATION, New York, N. Y. Filed Feb. 9, 1943.

GENUINE *harlequin*

No claim is made to the word "Genuine" apart from the mark.
FOR OPHTHALMIC MOUNTINGS AND LENSES AND PARTS THEREOF.
Claims use since Jan. 22, 1943.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 458,273. EMIL LEICHTER, New York, N. Y. Filed Feb. 1, 1943.

BARONET

FOR WATCHES.
Claims use since Sept. 1, 1942.

Ser. No. 458,274. EMIL LEICHTER, New York, N. Y. Filed Feb. 1, 1943.

ENICAR

FOR WATCHES.
Claims use since Sept. 1, 1942.

Ser. No. 458,567. PAUL V. EISNER & Co., New York, N. Y. Filed Feb. 16, 1943.

RENSIE

FOR WATCHES AND CLOCKS.
Claims use since Jan. 15, 1943.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 455,699. HARRY S. BICK, doing business as Kramer & Bick, New York, N. Y. Filed Sept. 23, 1942.



FOR WOMEN'S AND MEN'S ARTICLES OF JEWELRY FOR PERSONAL ADORNMENT, MADE OF GOLD—NAMELY, BRACELETS, NOT INCLUDING WATCHES, PENDANTS, BROOCHES, EARRINGS, COLLAR HOLDERS, TIE CLIPS, AND CUFF LINKS.
Claims use since June 15, 1942.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 454,828. ELMER PAUL HARRISON, doing business as Velocity Steam Systems, Chicago, Ill. Filed Aug. 10, 1942.

VELOCITY

FOR AUTOMATICALLY CONTROLLED STEAM VAPORIZING, CONDITIONING, AND ECONOMIZING UNITS FOR USE WITH LAUNDRY DRIERS, IRONERS AND PRESSERS, PAPER DRIERS, CORRUGATORS AND CALENDERS, AND OTHER STEAM USING HEATING AND DRYING DEVICES, AND PARTS THEREOF—NAMELY, CONTROL UNITS FOR REGULATING THE AMOUNT OF WATER SUPPLIED FOR CONVERSION INTO STEAM, STEAM CONDENSERS, FEED WATER STORAGE TANKS, BOILER FEED WATER HEATERS, AND BOILER FEED WATER DEAERATION DEVICES.
Claims use since July 15, 1940.

Ser. No. 456,585. CHICAGO FLEXIBLE SHAFT COMPANY, Chicago, Ill. Filed Nov. 2, 1942. Under section 5b of the act of 1905 as amended in 1920.

STEWART

FOR HEAT TREATING FURNACES, HARDENING AND TEMPERING FURNACES, AND OVEN FURNACES (Group 1); CASE HARDENING FURNACES (Group 2); MUFFLE FURNACES (Group 3); COMBINATION FURNACES, CRUCIBLE FURNACES, FORGES, AND PRESSURE BLOWERS (Group 4); RIVET HEATERS (Group 5); BRAZING FURNACES, DIP BRAZING FURNACES, SOLDERING FURNACES, AND RIVET FURNACES (Group 6); CARBURIZING FURNACES, HIGH SPEED STEEL FURNACES, AND WELDING FURNACES (GROUP 7); SOLDERING IRON HEATERS, POTS FOR LIQUID BATH HEAT TREATING FURNACES, METAL MELTING FURNACES, ANNEALING FURNACES, CYANIDE POT FURNACES, SOFT METAL MELTING FURNACES, AND OIL BURNERS (Group 8); SPECIAL METAL PROCESSING FURNACES, AND LEAD POT FURNACES (Group 9); ALUMINUM MELTING FURNACES (Group 10); DIE CASTING FURNACES (Group 11); AUTOMATIC FORGE FURNACES (Group 12); TINNING FURNACES (Group 13); GALVANIZING FURNACES (Group 14); MOTOR DRIVEN BLOWER UNITS AND TILTING METAL MELTING FURNACES (Group 15); CREMATING FURNACES (Group 16); ENAMELLING FURNACES (Group 17); PICKLING FURNACES, AND OXIDIZING FURNACES (Group 18); FRITTING FURNACES, ROTARY TYPE FURNACES, AND CAR TYPE FURNACES (Group 19); DRYING OVENS (Group 20); SHRINKING FURNACES (Group 21); LIQUID FUEL GASIFIERS, AND GLASS BENDING FURNACES (Group 22); RECIRCULATING FURNACES (Group 23); ALUMINUM AND ALUMINUM ALLOY HEAT TREATING FURNACES, GLASS MELTING FURNACES, AND PROPORTIONAL GAS INJECTORS (Group 24); CONVEYOR TYPE FURNACES, AND TUBE ANNEALING FURNACES (Group 25); RECIPROCATING HEARTH FURNACES, PUSHER TYPE FURNACES, ATMOSPHERIC CONTROL ANNEALING FURNACES; AND

PROPORTIONAL GAS MIXERS (Group 26); ROTARY HEARTH FURNACES (Group 27); ATMOSPHERIC CONTROL FURNACES, ATMOSPHERIC CONTROL BRAZING FURNACES, RECUPERATORS FOR HEAT INTERCHANGE, ALUMINUM BRAZING FURNACES, SHELL NOSING FURNACES (Group 28); AND MAGNESIUM AND MAGNESIUM ALLOY HEAT TREATING FURNACES (Group 29).

Claims use on the goods in Group 1, since 1898; Group 2, since 1903; Group 3, since 1904; Group 4, since 1905; Group 5, since 1906; Group 6, since 1907; Group 7, since 1908; Group 8, since 1909; Group 9, since 1910; Group 10, since 1914; Group 11, since 1915; Group 12, since 1916; Group 13, since 1917; Group 14, since 1921; Group 15, since 1922; Group 16, since 1923; Group 17, since 1924; Group 18, since 1925; Group 19, since 1927; Group 20, since 1928; Group 21, since 1930; Group 22, since 1933; Group 23, since 1934; Group 24, since 1935; Group 25, since 1936; Group 26, since 1937; Group 27, since 1938; Group 28, since 1939; and Group 29, since 1941.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 458,905. BOONVILLE MANUFACTURING CORP., Boonville, N. Y. Filed Mar. 5, 1943.

RIDAK

FOR PAPER GASKETS.
Claims use since Feb. 5, 1943.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 452,256. WHITTLE MUSIC COMPANY, Dallas, Tex. Filed Apr. 9, 1942.

ZENITH

. BAND AND ORCHESTRA INSTRUMENTS—NAMELY, SAXOPHONES, CLARINETS, TRUMPETS, CORNETS, FRENCH HORNS, TROMBONES, SOUSAPHONES, BARITONE HORNS, AND MELLOPHONES OR ALTO HORNS.
Claims use since June, 1916.

CLASS 37

PAPER AND STATIONERY

Ser. No. 457,899. ERNEST J. LINK, doing business as Link Paper Company, New York, N. Y. Filed Jan. 13, 1943.
Applicant disclaims the words "Stencil Board" apart from the mark.

SIGNET STENCIL BOARD

FOR STENCIL BOARDS.
Claims use since June, 1930.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 451,297. THE CUDAHY PACKING COMPANY, Chicago, Ill. Filed Feb. 28, 1942.

HELPMATE

FOR RADIO SCRIPTS PUBLISHED FROM TIME TO TIME.
Claims use since Sept. 22, 1941.

Ser. No. 457,431. MICHAEL BAKER, JR., doing business as Baker Engineers, Rochester, Pa. Filed Dec. 16, 1942.

THE MUNICIPAL NEWS LETTER

No claim is made to the words "News Letter" apart from the mark.
FOR NEWS LETTERS PUBLISHED MONTHLY.
Claims use since Nov. 1, 1942.

Ser. No. 458,348. TRIBUNE COMPANY, Chicago, Ill. Filed Feb. 4, 1943.

Household Forum

FOR NEWSPAPER COLUMN.
Claims use since Mar. 3, 1940.

Ser. No. 458,821. J. HORACE STRUNK, Bangor, Pa. Filed Feb. 27, 1943.

FAIREST OF THE MONTH

FOR SECTION IN A PERIODICAL MAGAZINE.
Claims use since Jan. 22, 1942.

CLASS 39

CLOTHING

Ser. No. 445,930. FRIEDMAN-MARKS CLOTHING COMPANY, INC., Richmond, Va. Filed Aug. 4, 1941.

Penn Hall

The words "Penn" and "Clothes" are disclaimed apart from the mark.
FOR MEN'S SUITS AND COATS.
Claims use since January, 1932.

Ser. No. 451,499. MILLBROOK MANUFACTURING CORPORATION, New York, N. Y. Filed Mar. 9, 1942.

Twinkle Spun

The word "Spun" is disclaimed apart from the mark.
FOR CHILDREN'S AND WOMEN'S SKI SUITS, BEACH WEAR—NAMELY, SLACKS, SHORTS, SKIRTS, PLAY SUITS, SHIRTS, AND COVERALLS, AND SPORTSWEAR — NAMELY, SKIRTS, JACKETS, SLACKS, SHIRTS, SHORTS, SKI-PANTS, SKI-JACKETS, RIDING PANTS AND SNOW SUITS.
Claims use since 1936.

Ser. No. 456,083. SALFAIR HATS, New York, N. Y. Filed Oct. 8, 1942.

Sal-Slyde

The word "Slyde" is disclaimed apart from the mark.
FOR LADIES' AND CHILDREN'S HATS.
Claims use since Sept. 10, 1942.

Ser. No. 456,176. FRANK CARDONE, Brooklyn, N. Y. Filed Oct. 14, 1942.

Primitive Footwear

No claim is made to the word "Footwear" apart from the mark.
FOR SHOES OF ALL TYPES AND MOCCASINS, MADE OF LEATHER, RUBBER, FABRIC OR ANY COMBINATIONS THEREOF.
Claims use since June 20, 1941.

Ser. No. 457,395. JOHN LUCURELL, Seattle, Wash. Filed Dec. 14, 1942.

Vicki

FOR LADIES' TRIMMED HATS.
Claims use since Oct. 12, 1942.

Ser. No. 457,466. FAIRMOOR SPORTSWEAR, INC., New York, N. Y. Filed Dec. 17, 1942.

FAIRDOWNE

FOR LADIES' SUITS AND COATS.
Claims use since Nov. 12, 1942.

Ser. No. 457,467. FAIRMOOR SPORTSWEAR, INC., New York, N. Y. Filed Dec. 17, 1942.

Fairleigh

FOR LADIES' SUITS AND COATS.
Claims use since Nov. 12, 1942.

Ser. No. 457,862. ORANGE KNITTING MILLS, INCORPORATED, Orange, Va. Filed Jan. 11, 1943.



The word "Virginia" is disclaimed apart from the mark.
FOR HOSIERY.
Claims use since Nov. 28, 1942.

Ser. No. 458,059. HARRY C. BELBER CO., INC., New York, N. Y. Filed Jan. 21, 1943.

Dura-Veil

The word "Veil" is disclaimed apart from the mark.
FOR WOMEN'S HOSIERY.
Claims use since Dec. 28, 1942.

Ser. No. 458,359. THE PARIS NECKWEAR COMPANY, INC., New York, N. Y. Filed Feb. 5, 1943.



The picture is fanciful. Applicant disclaims the word "Cravats."
FOR MEN'S AND BOYS' NECKTIES.
Claims use since June 10, 1937.

Ser. No. 458,646. CAROL CRAWFORD, INC., New York, N. Y. Filed Feb. 20, 1943.

VERSATILER

FOR LADIES' DRESSES.
Claims use since Feb. 15, 1943.

Ser. No. 458,751. CLUETT, PEABODY & CO., INC., Troy, N. Y. Filed Feb. 25, 1943.

SUMARA

FOR NECKTIES.
Claims use since Feb. 8, 1943.

Ser. No. 458,782. THE H. W. GOSSARD CO., Chicago, Ill. Filed Feb. 26, 1943.

Glider

FOR CORSETS, GIRDLES, COMBINATION CORSETS AND BRASSIÈRES, AND HOSE SUPPORTERS.
Claims use since Feb. 11, 1943.

Ser. No. 459,043. DALY BROS. SHOE CO. INC., Boston, Mass. Filed Mar. 12, 1943.

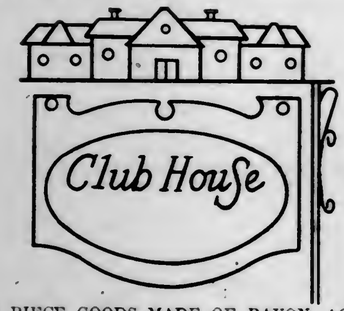
STATION WAGON

FOR SHOES OF LEATHER, RUBBER, FABRIC, AND/OR COMBINATIONS THEREOF.
Claims use since Jan. 28, 1942.

CLASS 42

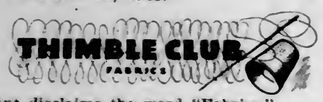
KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 457,252. PRESSMAN-GUTMAN CO., Philadelphia, Pa. Filed Dec. 7, 1942.



FOR PIECE GOODS MADE OF RAYON, ACETATE RAYON, COTTON, WOOL, OR COMBINATIONS OF THESE MATERIALS.
Claims use since February, 1942.

Ser. No. 458,490. COHN-HALL-MARX CO., New York, N. Y. Filed Feb. 12, 1943.



Applicant disclaims the word "Fabrics."
FOR COTTON, RAYON, AND/OR SILK PIECE GOODS OR COMBINATIONS THEREOF.
Claims use since Jan. 19, 1943.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 455,406. RUTH WELLS, Los Angeles, Calif. Filed Sept. 7, 1942.

URIN-EASE

Applicant disclaims the word "Urin" apart from the mark.
FOR PORTABLE URINALS.
Claims use since July 22, 1941.

CLASS 45

BEVERAGES, NONALCOHOLIC

Ser. No. 457,668. ZIMBA BEVERAGE CO., INC., New York, N. Y. Filed Dec. 30, 1942.

LEBRO

FOR MALTLESS NON-ALCOHOLIC BEVERAGES, SYRUPS, FLAVORS, EXTRACTS AND CONCENTRATES.
Claims use since Nov. 15, 1941.

Ser. No. 459,045. B. T. FOOKS MANUFACTURING COMPANY, Camden, Ark. Filed Mar. 12, 1943.

Lemonette

FOR SOFT DRINKS AND FOUNTAIN SYRUPS.
Claims use since 1911.

Ser. No. 459,046. B. T. FOOKS MANUFACTURING COMPANY, Camden, Ark. Filed Mar. 12, 1943.

Orangette

FOR SOFT DRINKS AND FOUNTAIN SYRUPS.
Claims use since 1911.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 455,934. STELLA CHEESE COMPANY, Chicago, Ill. Filed Oct. 2, 1942.

WISCONSIN

PINELAND

The word "Wisconsin" is disclaimed apart from the mark.
FOR BLUE CHEESE.
Claims use since Aug. 7, 1942.

Ser. No. 457,689. CHARLES BANKS STOUT, Memphis, Tenn. Filed Dec. 31, 1942.

MARYLAND'S QUEEN

The term "Maryland's" is not claimed apart from the mark.
FOR WHEAT FLOUR.
Claims use since 1937.

Ser. No. 457,800. ALBERS MILLING COMPANY, Portland, Oreg. Filed Jan. 8, 1943.



The applicant is the owner of trade-mark No. 380,553, registered Aug. 27, 1940.
FOR SMALL DOG AND CAT FOOD.
Claims use since June 1, 1942.

Ser. No. 458,123. SARASOTA CELERY COMPANY, Sarasota, Fla. Filed Jan. 23, 1943.

SARA RED

No claim is made to the word "Red" apart from the mark.
FOR CELERY.
Claims use since Apr. 7, 1942.

Ser. No. 458,293. CHARLES EDWARD STOKER, Louisville, Ky. Filed Feb. 1, 1943.

Tenderex

FOR DRESSED POULTRY, CONSISTING OF CHICKENS AND TURKEYS.
Claims use since Dec. 1, 1942.

Ser. No. 458,353. THE ATLANTIC SUPPLY COMPANY, Baltimore, Md. Filed Feb. 5, 1943.

Di-Gra-Sol

FOR FEEDS—NAMELY, CONDENSED DISTILLERS' SOLUBLES FOR LIVESTOCK AND POULTRY.
Claims use since Dec. 10, 1941.

Ser. No. 458,756. FOOD RESEARCH DISTRIBUTING CORPORATION, Chicago, Ill. Filed Feb. 25, 1943.

Bounty Cup

FOR PREPARATION OF ROASTED CEREAL AND VEGETABLE SUBSTANCES USEABLE WITH OR WITHOUT ADDITION OF COFFEE FOR THE MAKING OF A NON-ALCOHOLIC BEVERAGE.
Claims use since Feb. 15, 1943.

Ser. No. 458,772. WOOD & SELICK, INC., New York, N. Y. Filed Feb. 25, 1943.

NUTCORETTES

FOR PREPARATION MADE FROM FRUIT PITS, SUGAR, ETC., FOR USE AS AN INGREDIENT OF CONFECTIONERY AND BAKED GOODS OR AS A TOPPING FOR CAKE AND PASTRY.
Claims use since July 27, 1942.

Ser. No. 458,775. ADA MILLING COMPANY, Ada, Okla. Filed Feb. 26, 1943.

WHITE FACE



FOR STOCK AND CATTLE FEED.
Claims use since Dec. 7, 1942.

Ser. No. 458,829. ALLIED MILLS, INC., Chicago, Ill. Filed Mar. 3, 1943.

OCEAN - SIDE

FOR POULTRY FEEDS.
Claims use since Jan. 9, 1943.

Ser. No. 458,920. KLEIN CHOCOLATE CO., INC., Elizabethtown, Pa. Filed Mar. 5, 1943.

SILVER BELLS

FOR CHOCOLATE.
Claims use since January, 1913.

Ser. No. 458,953. B. SPILIADIS & CO., INC., New York, N. Y. Filed Mar. 6, 1943.

FAROS

FOR CANNED OLIVE OIL.
Claims use since May, 1921.

CLASS 48

MALT BEVERAGES AND LIQUORS

Ser. No. 439,238. PFEIFFER BREWING COMPANY, Detroit, Mich. Filed Dec. 27, 1940.



No claim is made to the wording "No Deposit To Pay—Containers You Throw Away," "Glasolite," "Flavor," and "Beer" apart from the mark. Applicant disclaims exclusive right in a carton colored orange. Applicant is owner of Reg. No. 338,474, under the 10-year proviso.

FOR BEER.

Claims use since Dec. 5, 1940.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 426,291. THE GENERAL TIRE & RUBBER COMPANY, Akron, Ohio. Filed Dec. 6, 1939.

GENERAL

FOR MOLDED RUBBER GOODS—NAMELY, LAMP PADS AND PLUGS FOR HOLES.

Claims use since Apr. 28, 1939.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

APRIL 27, 1943

401,110. PAJAMAS, NIGHTGOWNS, SLIPS, PANTIES, VESTS, HOUSECOATS, NEGLIGEES, AND ROBES. COLLEGIATE MANUFACTURING COMPANY, INC., New York, N. Y.
Filed May 17, 1941. Serial No. 443,653. PUBLISHED FEBRUARY 9, 1943. Class 39.

401,111. ANTIPAIN TABLET. MAX BASKIES, doing business as Maxim Chemical Works Ltd., Boston, Mass.
Filed May 17, 1941. Serial No. 443,665. PUBLISHED FEBRUARY 16, 1943. Class 6.

401,112. POWER SHOVELS. UNIVERSAL UNIT POWER SHOVEL CORP., Milwaukee, Wis.
Filed June 25, 1941. Serial No. 444,842. PUBLISHED FEBRUARY 9, 1943. Class 23.

401,113. PHOTOGRAPHIC DEVELOPERS. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y.
Filed July 16, 1941. Serial No. 445,385. PUBLISHED FEBRUARY 9, 1943. Class 6.

401,114. CANDIES. THE METRO CHOCOLATE CO. INC., New York, N. Y.
Filed August 5, 1941. Serial No. 445,999. PUBLISHED FEBRUARY 16, 1943. Class 46.

401,115. BATH CABINETS. FRANK W. SIEFFERT, doing business as Peerless Steel Shower Co., Chicago, Ill.
Filed September 11, 1941. Serial No. 446,980. PUBLISHED NOVEMBER 4, 1941. Class 13.

401,116. MECHANICAL FEED MIXERS FOR MIXING FEEDS FOR FARM ANIMALS. MOORMAN MANUFACTURING COMPANY, Quincy, Ill.
Filed October 15, 1941. Serial No. 447,818. PUBLISHED FEBRUARY 2, 1943. Class 23.

401,117. NONALCOHOLIC BEVERAGES AND THE BASES, SYRUPS, CONCENTRATES, AND EXTRACTS FOR MAKING SAME. THE SQUIRT COMPANY, Beverly Hills, Calif.
Filed October 31, 1941. Serial No. 448,308. PUBLISHED DECEMBER 23, 1941. Class 45.

401,118. METAL DRIVE CORD—NAMELY, A METAL MULTI-STRAND FLEXIBLE DRIVING ELEMENT; DIAL DRIVE CORD—NAMELY, A WAXED, OR OTHERWISE TREATED CORD, ETC. PHILCO CORPORATION, Philadelphia, Pa.
Filed December 3, 1941. Serial No. 449,152. PUBLISHED FEBRUARY 16, 1943. Class 7.

401,119. CUTTERS FOR MACHINE TOOLS. KEARNEY & TRECKER CORPORATION, West Allis, Wis.
Filed December 12, 1941. Serial No. 449,421. PUBLISHED FEBRUARY 9, 1943. Class 23.

401,120. GYPSUM CEMENT COMPOSITIONS. UNITED STATES GYPSUM COMPANY, Chicago, Ill.
Filed December 24, 1941. Serial No. 449,746. PUBLISHED FEBRUARY 16, 1943. Class 12.

401,121. NOVELTIES AND CURIOS—NAMELY, STATUES, CORAL NETS, NET FLOATS, DAGGERS, SWORDS, SHIP MODELS, SHARKSTEETH, TURTLE SHELLS, BRASS SHIELDS, ORIENTAL MASKS, AND BOWS AND ARROWS. ESTHER BERGERON, Oakland, Calif.
Filed January 5, 1942. Serial No. 449,986. PUBLISHED FEBRUARY 16, 1943. Class 50.

401,122. RADIO APPARATUS CONSISTING OF AIRCRAFT RECEIVERS, COMBINATION RECEIVER-TRANSMITTERS, ULTRA-HIGH FREQUENCY TRANSMITTERS, ULTRA-HIGH FREQUENCY RECEIVERS, INTERPHONES, AND AIRCRAFT TRANSMITTERS. DAVID A. MARCUS, doing business as Electronic Specialty Co., Los Angeles, Calif.
Filed January 5, 1942. Serial No. 449,997. PUBLISHED FEBRUARY 16, 1943. Class 21.

401,123. METAL CUTTING LUBRICATING COMPOUND. SULFLO, INC., Elizabeth, N. J.
Filed January 9, 1942. Serial No. 450,120. PUBLISHED FEBRUARY 9, 1943. Class 15.

401,124. METAL CUTTING LUBRICATING COMPOUND. SULFLO, INC., Elizabeth, N. J.
Filed January 9, 1942. Serial No. 450,128. PUBLISHED FEBRUARY 9, 1943. Class 15.

401,125. RODENTICIDE. W. H. PLUNKETT, doing business as Plunkett Chemical Company, Chicago, Ill.
Filed February 3, 1942. Serial No. 450,692. PUBLISHED APRIL 7, 1942. Class 6.

401,126. VETERINARY PREPARATION FOR THE PREVENTION OF MASTITIS. WALTER HOLLAND REYNOLDS, Takanini, New Zealand.
Filed February 16, 1942. Serial No. 451,020. PUBLISHED FEBRUARY 16, 1943. Class 6.

401,127. EGGS. NORTHERN COLD STORAGE AND WAREHOUSE CO., doing business as Northern Egg Producers, Duluth, Minn.
Filed March 13, 1942. Serial No. 451,605. PUBLISHED FEBRUARY 16, 1943. Class 46.

401,128. EGGS. NORTHERN COLD STORAGE AND WAREHOUSE CO., doing business as Northern Egg Producers, Duluth, Minn.
Filed March 13, 1942. Serial No. 451,606. PUBLISHED FEBRUARY 16, 1943. Class 46.

401,129. TOWEL SETS, SHEETS AND PILLOW CASES, WASH CLOTHS, CRIB COVERS, STOCKINETTE SHEETS, ETC. A. S. LAZARUS & CO., INC., New York, N. Y.
Filed March 14, 1942. Serial No. 451,629. PUBLISHED FEBRUARY 16, 1943. Class 42.

401,130. SEMISOLID COATING MATERIAL NOT IN THE NATURE OF A PAINT FOR USE IN WATERPROOFING POROUS BASE MATERIALS. WINNER MANUFACTURING CO. INC., Trenton, N. J.
Filed May 15, 1942. Serial No. 453,046. PUBLISHED FEBRUARY 16, 1943. Class 6.

401,131. PERFUME, COLOGNE, AND CREAM COLOGNE. FRANCES DENNEY, Philadelphia, Pa.
Filed May 25, 1942. Serial No. 453,238. PUBLISHED DECEMBER 1, 1942. Class 6.

401,132. COAL. BELL & ZOLLER COAL COMPANY, Chicago, Ill.
Filed June 5, 1942. Serial No. 453,486. PUBLISHED FEBRUARY 16, 1943. Class 1.

401,133. COTTON FLANNEL, KNITTED COTTON PADDING, COTTON COVER CLOTH IN THE FORM OF WIDE SHEETING, DUCK, AND SATEEN, ALL IN THE PIECE, BOLT, OR ROLL. SOUTHERN MILLS, INCORPORATED, Atlanta, Ga.
Filed July 9, 1942. Serial No. 454,124. PUBLISHED FEBRUARY 9, 1943. Class 42.

401,134. SYNTHETIC RUBBERLIKE COMPOSITIONS IN SHEET, ROD, TUBE, OR PASTE FORM. THE DAYTON RUBBER MANUFACTURING COMPANY, Dayton, Ohio.
Filed October 16, 1942. Serial No. 456,237. PUBLISHED FEBRUARY 16, 1943. Class 50.

401,135. MIXTURE OF COLORLESS FRACTIONS OF CRUDE COAL TAR FOR USE AS AN INGREDIENT OF OINTMENTS AND LOTIONS FOR THE TREATMENT OF SKIN DISEASES. J. LEON LASCOFF & SON, New York, N. Y.
Filed July 16, 1942. Serial No. 454,259. PUBLISHED FEBRUARY 16, 1943. Class 6.

401,136. PIECE GOODS CONSISTING IN WHOLE OR IN PART OF SILK, RAYON, WOOL, OR COTTON. THE SCHWARZENBACH HUBER CO., New York, N. Y.
Filed July 21, 1942. Serial No. 454,379. PUBLISHED FEBRUARY 16, 1943. Class 42.

401,137. BLANKETS MADE OF COTTON, WOOL, OR SYNTHETIC FIBRE, AND ANY COMBINATION THEREOF. NASHUA MANUFACTURING COMPANY, Boston, Mass.
Filed July 23, 1942. Serial No. 454,457. PUBLISHED FEBRUARY 16, 1943. Class 42.

401,138. DERMATOLOGICAL PREPARATION. THE LANNETT COMPANY, INCORPORATED, Philadelphia, Pa.
Filed July 28, 1942. Serial No. 454,556. PUBLISHED FEBRUARY 9, 1943. Class 6.

401,139. FIBRE WRENCHES, WRENCH SOCKETS, SCREW DRIVERS, HEX HEAD ALIGNING TOOLS, GLAND NUT WRENCHES, ETC. PHILCO CORPORATION, Philadelphia, Pa.
Filed July 30, 1942. Serial No. 454,609. PUBLISHED FEBRUARY 9, 1943. Class 23.

401,140. REFRIGERATING APPARATUS—NAMELY, REFRIGERATORS, REFRIGERATING MACHINES AND PARTS THEREOF. YATES-AMERICAN MACHINE COMPANY, Beloit, Wis.
Filed August 3, 1942. Serial No. 454,708. PUBLISHED FEBRUARY 16, 1943. Class 31.

401,141. MEDICINAL COMPOUND FOR THE TREATMENT OF COLDS. ARTHUR V. ALLEN, doing business as A. V. Allen, Oak Park, Ill.
Filed August 18, 1942. Serial No. 454,959. PUBLISHED JANUARY 19, 1943. Class 6.

401,142. GLASS COFFEE BREWERS. HILL-SHAW COMPANY, Chicago, Ill.
Filed August 24, 1942. Serial No. 455,073. PUBLISHED FEBRUARY 16, 1943. Class 13.

401,143. CLEANING AND POLISHING PREPARATION FOR FURNITURE, RADIOS, AUTOMOBILES, AND PAINTED AND ENAMELED SURFACES. MARY BUNDZIK, Johnstown, Pa.
Filed August 27, 1942. Serial No. 455,131. PUBLISHED FEBRUARY 16, 1943. Class 16.

401,144. BAKER'S PRODUCTS—NAMELY, SUGAR WAFERS, FIG BARS, GRAHAM TOFFEES, CREAM SANDWICHES, PEANUT BUTTER BITES, AND BUTTER WAFER SANDWICHES. BARDIN & JENSEN, Los Angeles, Calif.
Filed September 8, 1942. Serial No. 455,410. PUBLISHED FEBRUARY 16, 1943. Class 46.

401,145. COMPRESSED GASES—NAMELY, HYDROGEN, OXYGEN, NITROGEN, ACETYLENE, CARBON DIOXIDE AND CARBO-HYDROGEN, AND SOLID CARBON DIOXIDE. NATIONAL CYLINDER GAS COMPANY, Chicago, Ill.
Filed September 9, 1942. Serial No. 455,439. PUBLISHED NOVEMBER 17, 1942. Class 6.

401,146. LADIES' AND MISSES' COATS. HAMMER-SICES, INC., Chicago, Ill.
Filed September 21, 1942. Serial No. 455,655. PUBLISHED FEBRUARY 9, 1943. Class 39.

401,147. CARBONATED BEVERAGES. EMIL E. ZELLER, doing business as Sparkle Beverage Co., Tappahannock, Va.
Filed September 21, 1942. Serial No. 455,687. PUBLISHED FEBRUARY 16, 1943. Class 45.

401,148. WINDOW CURTAINS, DRAPERIES, AND BEDSPREADS. SAMUEL PERLMUTTER, doing business as Empire Curtain Mfg. Co., Boston, Mass.
Filed September 24, 1942. Serial No. 455,733. PUBLISHED FEBRUARY 9, 1943. Class 42.

401,149. WORSTED FABRICS, PRIMARILY FOR WOMEN'S OUTER WEAR, IN THE PIECE AND CUT LENGTHS. COLLINS & AIKMAN CORPORATION, Philadelphia, Pa., and New York, N. Y.
Filed September 26, 1942. Serial No. 455,791. PUBLISHED FEBRUARY 16, 1943. Class 42.

401,150. BLENDED FABRICS WHICH ARE PREDOMINANTLY WOOL AND WHICH ARE PRIMARILY FOR WOMEN'S OUTER WEAR IN THE PIECE AND CUT LENGTHS. COLLINS & AIKMAN CORPORATION, Philadelphia, Pa., and New York, N. Y.
Filed September 26, 1942. Serial No. 455,792. PUBLISHED FEBRUARY 16, 1943. Class 42.

401,151. WORSTED FABRICS FOR WOMEN'S AND MEN'S SUITINGS IN THE PIECE AND CUT LENGTHS. COLLINS & AIKMAN CORPORATION, Philadelphia, Pa., and New York, N. Y.
Filed September 26, 1942. Serial No. 455,793. PUBLISHED FEBRUARY 16, 1943. Class 42.

401,152. PIECE GOODS MADE OF A MIXTURE OF COTTON, RAYON, AND WOOL. AMOSKEAG-LAWRENCE MILLS, INC., Manchester, N. H.
Filed October 1, 1942. Serial No. 455,881. PUBLISHED FEBRUARY 16, 1943. Class 42.

401,153. YARNS MADE OF A MIXTURE OF COTTON, RAYON, AND WOOL. AMOSKEAG-LAWRENCE MILLS, INC., Manchester, N. H.
Filed October 1, 1942. Serial No. 455,882. PUBLISHED FEBRUARY 16, 1943. Class 43.

401,154. COTTON PIECE GOODS. EXETER MANUFACTURING COMPANY, Exeter, N. H., and New York, N. Y.
Filed October 2, 1942. Serial No. 455,912. PUBLISHED FEBRUARY 16, 1943. Class 42.

401,155. CASTINGS AND FORGINGS HIGHLY RESISTANT TO HEAT AND CORROSION, AND COMPOSED OF A METALLIC ALLOY CONTAINING CHROMIUM. DRIVER-HARRIS COMPANY, Harrison, N. J.
Filed October 7, 1942. Serial No. 456,015. PUBLISHED FEBRUARY 16, 1943. Class 14.

401,156. GERMICIDES, DISINFECTANTS, AND DEODORIZERS. STANLEY HOME PRODUCTS, INC., Westfield, Mass.
Filed October 10, 1942. Serial No. 456,132. PUBLISHED FEBRUARY 16, 1943. Class 6.

401,157. HAIR AND TOOTH BRUSHES. STANLEY HOME PRODUCTS, INC., Westfield, Mass.
Filed October 10, 1942. Serial No. 456,133. PUBLISHED FEBRUARY 9, 1943. Class 29.

401,158. SPRING PRESSURE BRAKE FOR USE AS AN ATTACHMENT TO THE ACCELERATOR PEDAL OF AUTOMOTIVE VEHICLES TO SERVE AS A WARNING AGAINST EXCESSIVE SPEED. THE B. F. GOODRICH COMPANY, New York, N. Y., and Akron, Ohio.
Filed October 24, 1942. Serial No. 456,387. PUBLISHED FEBRUARY 16, 1943. Class 23.

401,159. AIRPLANES AND STRUCTURAL PARTS THEREOF. CURTISS-WRIGHT CORPORATION, New York and Buffalo, N. Y., Columbus, Ohio, and St. Louis, Mo.
Filed October 27, 1942. Serial No. 456,460. PUBLISHED FEBRUARY 16, 1943. Class 19.

401,160. COSMETICS—NAMELY, BLACK-OUT CREAM OF THE TYPE USED BY COMMANDO TROOPS FOR THE BLACKING OUT OF THE FACE AND HANDS. THE J. B. WILLIAMS COMPANY, Glastonbury, Conn.
Filed October 27, 1942. Serial No. 456,480. PUBLISHED FEBRUARY 16, 1943. Class 6.

401,161. BREAD. QUALITY BAKERS OF AMERICA CO-OP., INC., New York, N. Y.
Filed October 31, 1942. Under the act of February 20, 1905, as amended June 10, 1038. Serial No. 456,566. PUBLISHED FEBRUARY 16, 1943. Class 46.

401,162. ANIMAL SHEARING MACHINES, ANIMAL CLIPPING MACHINES, HAND-PIECES FOR SHEARING AND CLIPPING MACHINES, ETC. CHICAGO FLEXIBLE SHAFT COMPANY, Chicago, Ill.
Filed November 2, 1942. Serial No. 456,584. PUBLISHED FEBRUARY 9, 1943. Class 23.

401,163. CURTAINS, DRAPERIES, BEDSPREADS, SLIP COVERS, AND FURNITURE SCARFS MADE OF COTTON, RAYON, SILK, WOOL, AND MIXTURES OF SAME. HOUSE BEAUTIFUL CURTAINS, INC., New York, N. Y.
Filed November 6, 1942. Serial No. 456,672. PUBLISHED FEBRUARY 2, 1943. Class 42.

401,164. RUGS, FLOOR MATS, AND FLOOR COVERINGS OF COMBINATION COTTON AND FIBRE MATERIALS. DELTOX RUG COMPANY, Oshkosh, Wis.
Filed November 7, 1942. Serial No. 456,681. PUBLISHED FEBRUARY 2, 1943. Class 42.

401,165. FOOD PRODUCT, FOR ADDITION TO CHOPPED MEAT, FOWL, FISH, ETC., CONSISTING OF A COMBINATION OF WHOLE WHEAT, SKIM MILK, SOYA MEAL, CORN, OATS, ONION FLAKES, YEAST, A FLAVORING INGREDIENT, AND SALT. PLANNED FOODS, INC., New York, N. Y.
Filed November 11, 1942. Serial No. 456,750. PUBLISHED FEBRUARY 16, 1943. Class 46.

401,166. CARGO WINCHES. LAKE SHORE ENGINEERING COMPANY, Iron Mountain, Mich.
Filed November 12, 1942. Serial No. 456,776. PUBLISHED FEBRUARY 9, 1943. Class 23.

401,167. KNIVES FOR HOBBY, ARTS, AND CRAFTS. X-ACTO CRESCENT PRODUCTS, INC., New York, N. Y.
Filed November 12, 1942. Serial No. 456,784. PUBLISHED FEBRUARY 16, 1943. Class 23.

401,168. PAINT PIGMENTS. INTERCHEMICAL CORPORATION, New York, N. Y.
Filed November 14, 1942. Serial No. 456,825. PUBLISHED FEBRUARY 16, 1943. Class 16.

401,169. SEPARABLE FASTENERS OF THE BUTTON AND BUTTON HOLE TAPE TYPE. PLAK-KLOZ COMPANY, New York, N. Y.
Filed November 14, 1942. Serial No. 456,831. PUBLISHED FEBRUARY 16, 1943. Class 40.

401,170. FOUNTAIN PENS, MECHANICAL PENCILS, COMBINATION FOUNTAIN PENS AND MECHANICAL PENCILS, FOUNTAIN PEN FEEDS, PEN POINTS, ERASERS FOR PENCILS, AND PENCIL LEADS. DAVID KAHN, INC., North Bergen, N. J.
Filed November 17, 1942. Serial No. 456,874. PUBLISHED FEBRUARY 16, 1943. Class 37.

401,171. PIECE GOODS MADE WHOLLY OR PARTIALLY OF CELLULOSE DERIVATIVES. CELANESE CORPORATION OF AMERICA, New York, N. Y.
Filed November 18, 1942. Serial No. 456,883. PUBLISHED JANUARY 19, 1943. Class 42.

401,172. ASH TRAYS, ASPARAGUS DISHES, ASPARAGUS EATERS, ASPARAGUS RACKS, ASPARAGUS SERVERS, PUDDING BASINS AND BOWLS, BELLS, BELLOWS, BELT CLASPS, ETC. SUCKLING LIMITED, Birmingham, England.
Filed November 18, 1942. Serial No. 456,909. PUBLISHED FEBRUARY 16, 1943. Class 28.

401,173. INSULATED ELECTRIC CABLES. THE TELEGRAPH CONSTRUCTION & MAINTENANCE COMPANY, LIMITED, London, England.
Filed November 18, 1942. Serial No. 456,910. PUBLISHED FEBRUARY 16, 1943. Class 21.

401,174. FRUIT AND VEGETABLE EXTRACTS AND JUICES IN SOLIDIFIED FORM, FOR FOOD PURPOSES. PRIME PRODUCTS, INC., Tampa, Fla.
Filed November 19, 1942. Serial No. 456,928. PUBLISHED FEBRUARY 16, 1943. Class 46.

401,175. LIQUID COUGH MEDICINE TO BE TAKEN INTERNALLY. ROSE WARFIELD, doing business as C Y C Products Co., Chicago, Ill.
Filed November 20, 1942. Serial No. 456,950. PUBLISHED FEBRUARY 9, 1943. Class 6.

401,176. ALTERNATING CURRENT ELECTRIC WELDING APPARATUS AND DIRECT CURRENT WELDING APPARATUS. NATIONAL CYLINDER GAS COMPANY, Chicago, Ill.
Filed November 21, 1942. Serial No. 456,957. PUBLISHED FEBRUARY 16, 1943. Class 21.

401,177. ENVELOPES. FIELD-ERNST ENVELOPE CO., San Francisco, Calif.
Filed November 24, 1942. Serial No. 457,005. PUBLISHED FEBRUARY 16, 1943. Class 37.

401,178. WATER-REPELLENT PIECE GOODS OF COTTON AND RAYON. KANMAK TEXTILES, INC., New York, N. Y.
Filed November 24, 1942. Serial No. 457,008. PUBLISHED FEBRUARY 2, 1943. Class 42.

401,179. WATCHES. JACK STERN, doing business as Ovis Watch Co., New York, N. Y.
Filed November 24, 1942. Serial No. 457,017. PUBLISHED FEBRUARY 16, 1943. Class 27.

401,180. SMOKING AND CHEWING TOBACCO, CIGARETTES, CIGARS, AND SNUFF. THE AMERICAN TOBACCO COMPANY, New York, N. Y.
Filed November 25, 1942. Serial No. 457,025. PUBLISHED FEBRUARY 16, 1943. Class 17.

401,181. SAPONACEOUS COMPOUNDS FOR CLEANING THE HANDS, SHAVING CREAMS, SHAVING STICKS, SHAVING POWDER, OUTFIT PACKAGES CONTAINING SOAP AND TOWEL, ETC. NICHOLAS W. ORLOFF, New York, N. Y.
Filed November 25, 1942. Serial No. 457,044. PUBLISHED FEBRUARY 16, 1943. Class 4.

401,182. CRAYONS. MILTON BRADLEY COMPANY, Springfield, Mass.
Filed November 30, 1942. Serial No. 457,111. PUBLISHED FEBRUARY 16, 1943. Class 37.

401,183. THREE-COLOR SCREENED PLATES FOR LETTER PRESS PRINTING, ROTARY PRESS PRINTING, NEWSPAPER PRINTING, ROTOGRAVURE, AND LITHOGRAPHY. SPECTRATONE, INC., Berkeley, Calif.
Filed December 2, 1942. Serial No. 457,176. PUBLISHED FEBRUARY 2, 1943. Class 23.

401,184. EDIBLE NUTS. E. F. KEMP, INC., Somerville, Mass.
Filed December 4, 1942. Serial No. 457,202. PUBLISHED FEBRUARY 16, 1943. Class 46.

401,185. FRESH MILK. THE BORDEN COMPANY, New York, N. Y.
Filed December 5, 1942. Serial No. 457,216. PUBLISHED FEBRUARY 16, 1943. Class 46.

401,186. LADIES' APPAREL—NAMELY, SLIPS, NIGHTGOWNS, PAJAMAS, BLOOMERS, CHEMISES, BRASSIÈRES, NEGLIGEES, PETTICOATS, UNDERVESTS, AND UNDERSHIRTS. QUEEN ANNE UNDIES, INC., New York, N. Y.
Filed December 5, 1942. Serial No. 457,229. PUBLISHED FEBRUARY 9, 1943. Class 39.

401,187. PRUNE JUICE FOR BEVERAGE PURPOSES. MAX AMS, INC., New York, N. Y.
Filed December 7, 1942. Serial No. 457,233. PUBLISHED FEBRUARY 9, 1943. Class 45.

401,188. SPUN RAYON CLOTH IN THE PIECE. FASHION SILKS CORP., New York, N. Y.
Filed December 7, 1942. Serial No. 457,242. PUBLISHED FEBRUARY 16, 1943. Class 42.

401,189. PERFUME AND EAU DE COLOGNE. LEHN & FINK PRODUCTS CORPORATION, Bloomfield, N. J.
Filed December 8, 1942. Serial No. 457,277. PUBLISHED FEBRUARY 9, 1943. Class 6.

401,190. DRY SHAVERS AND PARTS THEREOF. REMINGTON RAND INC., Buffalo, N. Y.
Filed December 8, 1942. Serial No. 457,281. PUBLISHED FEBRUARY 2, 1943. Class 23.

401,191. DRY SHAVERS AND PARTS THEREOF. REMINGTON RAND INC., Buffalo, N. Y.
Filed December 8, 1942. Serial No. 457,282. PUBLISHED FEBRUARY 2, 1943. Class 23.

401,192. CHEMICAL DYE PREPARATION. THE RUBBER CITY MANUFACTURING CO., Akron, Ohio.
Filed December 8, 1942. Serial No. 457,286. PUBLISHED FEBRUARY 9, 1943. Class 6.

401,193. FLUID PRESSURE CONTROL SELECTOR VALVES FOR MARINE CONTROL EQUIPMENTS OF THE CLASS OPERATIVE BY COMPRESSED AIR, ETC. WESTINGHOUSE AIR BRAKE COMPANY, Borough of Wilmerding, Pa.
Filed December 10, 1942. Serial No. 457,323. PUBLISHED FEBRUARY 2, 1942. Class 23.

401,194. LUBRICATING OILS. UNION OIL COMPANY OF CALIFORNIA, Los Angeles, Calif.
Filed December 12, 1942. Serial No. 457,376. PUBLISHED FEBRUARY 9, 1943. Class 15.

401,195. TABLET HAVING ANALGESIC AND MILD HYPNOTIC PROPERTIES. THE CHICAGO PHARMACAL COMPANY, Chicago, Ill.
Filed December 14, 1942. Serial No. 457,380. PUBLISHED FEBRUARY 16, 1943. Class 6.

401,196. WOODEN DRUMS TO CONTAIN LOOSE, SEMI-SOLID, AND SOLID MATERIALS. THE GREIF BROS. COOPERAGE CORPORATION, also doing business as Seymour & Peck Co., Cleveland, Ohio, and Chicago, Ill
Filed December 14, 1942. Serial No. 457,390. PUBLISHED FEBRUARY 16, 1943. Class 2.

401,197. OIL FILTERS AND PARTS THEREOF. HUTCHENS INDUSTRIES, Eau Claire, Wis.
Filed December 14, 1942. Serial No. 457,392. PUBLISHED FEBRUARY 9, 1943. Class 23.

401,198. ANTISEPTIC TANNIC ACID JELLY. THE WM. S. MERRELL COMPANY, Cincinnati, Ohio.
Filed December 14, 1942. Serial No. 457,400. PUBLISHED FEBRUARY 16, 1943. Class 6.

401,199. FRESH CITRUS FRUIT AND FRESH VEGETABLES. JAMES WADE WALLACE, doing business as Wallace Fruit Company, Edinburg, Tex.
Filed December 14, 1942. Serial No. 457,406. PUBLISHED FEBRUARY 16, 1943. Class 46.

401,200. PLAYING CARDS. THE UNITED STATES PLAYING CARD COMPANY, Cincinnati, Ohio.
Filed December 15, 1942. Serial No. 457,426. PUBLISHED FEBRUARY 16, 1943. Class 22.

401,201. ART NEEDLEWORK YARNS MADE OF WOOL. BERNHARD ULMANN CO. INC., New York, N. Y.
Filed December 16, 1942. Serial No. 457,454. PUBLISHED FEBRUARY 16, 1943. Class 43.

401,202. VAGINAL SUPPOSITORY. THE CHICAGO PHARMACAL COMPANY, Chicago, Ill.
Filed December 17, 1942. Serial No. 457,460. PUBLISHED FEBRUARY 16, 1943. Class 6.

401,203. PHONOGRAPH RECORDS. CONTINENTAL RECORD COMPANY, INC., New York, N. Y.
Filed December 17, 1942. Serial No. 457,463. PUBLISHED FEBRUARY 16, 1943. Class 36.

401,204. FRESH AVOCADO PEARS. CAL-ROYAL CO., INC., New York, N. Y.
Filed December 18, 1942. Serial No. 457,491. PUBLISHED FEBRUARY 16, 1943. Class 46.

401,205. ROACH POISON. MCCORMICK & CO., INCORPORATED, Baltimore, Md.
Filed December 18, 1942. Serial No. 457,501. PUBLISHED FEBRUARY 16, 1943. Class 6.

401,206. CANNED PEELED TOMATOES WITH TOMATO PASTE. V. SABELLA & CO., INC., New York, N. Y.
Filed December 18, 1942. Serial No. 457,512. PUBLISHED FEBRUARY 16, 1943. Class 46.

401,207. STOMACH BITTERS. MARK VANDEWART COMPANY INC., New York, N. Y.
Filed December 18, 1942. Serial No. 457,519. PUBLISHED FEBRUARY 9, 1943. Class 6.

401,208. PRECOOKED CEREAL FOOD. NESTLE'S MILK PRODUCTS, INC., New York, N. Y.
Filed December 22, 1942. Serial No. 457,563. PUBLISHED FEBRUARY 16, 1943. Class 46.

401,209. PERFUME, TOILET WATER, EAU DE COLOGNE, FACE AND DUSTING POWDER, TALC, LIPSTICK. LES PARFUMS WORTH DE PARIS, INC., New York, N. Y.
Filed December 23, 1942. Serial No. 457,577. PUBLISHED FEBRUARY 9, 1943. Class 6.

401,210. OIL SHAMPOOS, TAR SHAMPOO, EUCALYPTUS SHAMPOO, PINE NEEDLES SHAMPOOS, DANDRUFF REMOVER SHAMPOO, LIQUID COLOR RINSES, CONCENTRATED NEUTRAL RINSES, LEMON RINSE, WAVE-SET PREPARATION, HAIR LACQUER, AND BLUING FOR THE HAIR. AR-JAY LABORATORIES, INC., Ontario, Calif.
Filed December 26, 1942. Serial No. 457,597. PUBLISHED FEBRUARY 9, 1943. Class 6.

401,211. MEDICINAL RESPIRATORY VACCINE USED FOR PROTECTION AGAINST RESPIRATORY INFECTIONS. ELI LILLY AND COMPANY, Indianapolis, Ind.
Filed December 28, 1942. Serial No. 457,626. PUBLISHED FEBRUARY 16, 1943. Class 6.

401,212. PACKAGED STERILE DRUGS IN POWDER OR CRYSTALLINE FORM INTENDED FOR LOCAL APPLICATION ON WOUNDS AND INFECTED AREAS OF THE BODY. ELI LILLY AND COMPANY, Indianapolis, Ind.
Filed December 28, 1942. Serial No. 457,627. PUBLISHED FEBRUARY 16, 1943. Class 6.

401,213. BOARD GAME PLAYED WITH MOVABLE PIECES. MILTON BRADLEY COMPANY, Springfield, Mass.
Filed December 31, 1942. Serial No. 457,672. PUBLISHED FEBRUARY 16, 1943. Class 22.

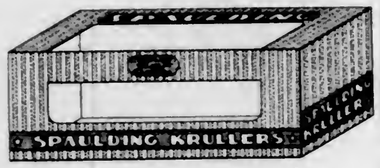
401,214. PHONOGRAPH RECORDS. JOSEPH M. DAVIS, doing business as Beacon Record Co., New York, N. Y.
Filed January 1, 1943. Serial No. 457,703. PUBLISHED FEBRUARY 16, 1943. Class 36.

401,215. MEDICINAL PREPARATION RECOMMENDED FOR THE RELIEF OF COUGH AND DYSPNEA DURING COLDS AND AS AN EXPECTORANT. SANDOZ CHEMICAL WORKS, INC., New York, N. Y.
Filed January 1, 1943. Serial No. 457,709. PUBLISHED FEBRUARY 16, 1943. Class 6.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

401,216. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SPAULDING BAKERIES, INC., Binghamton, N. Y. Filed Nov. 30, 1939. Serial No. 426,108.



The drawing is lined for orange and blue.
FOR BAKERY PRODUCTS—NAMELY, CRULLERS.
Claims use since September, 1938.

401,217. (CLASS 12. CONSTRUCTION MATERIALS.) PLASTERGON WALL BOARD COMPANY, Buffalo, N. Y. Filed June 26, 1940. Serial No. 433,404.

EVERBRITE

FOR WALL BOARD.
Claims use since June 20, 1940.

401,218. (CLASS 12. CONSTRUCTION MATERIALS.) PLASTERGON WALL BOARD COMPANY, Buffalo, N. Y. Filed June 26, 1940. Serial No. 433,405.

HILUSTRE

FOR WALL BOARD.
Claims use since Apr. 4, 1940.

401,219. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) LAPIN PRODUCTS, INC., New York, N. Y. Filed Feb. 21, 1941. Serial No. 440,864.

"OPTIKS"

FOR SPECTACLES AND SUNGLASSES OF MOLDED CELLULOSE ACETATE OR OTHER PLASTICS.
Claims use since Jan. 1, 1939.

401,220. (CLASS 39. CLOTHING.) WILLIAM E. LEWIS, RENWICK G. ARDREY, CECIL O. HALL, AND RUSSELL L. DAUGHERTY, Huntington, W. Va. Filed Nov. 5, 1941. Serial No. 448,416.

AMERICA'S OFFICIAL



BAND SHOE

FOR SHOES MADE OF LEATHER, FABRIC, AND RUBBER OR COMBINATIONS OF SUCH MATERIALS.
Claims use since Oct. 29, 1941.

401,221. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CHAS. BERNSTEIN & SON, INC., New York, N. Y. Filed Jan. 7, 1942. Serial No. 450,045.

THICKORD

FOR TEXTILE FABRICS IN THE PIECE MADE OF WOOL, COTTON, SILK, RAYON, AND MIXTURES THEREOF.
Claims use since Oct. 22, 1941.

401,222. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SHAPIRO & SON CURTAIN CORPORATION, New York, N. Y. Filed Jan. 21, 1942. Serial No. 450,381.

Everwear

FOR WINDOW CURTAINS.
Claims use since 1936.

401,223. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) C. B. SHANE CORPORATION, Chicago, Ill. Filed Feb. 6, 1942. Serial No. 450,814.

CORT

FOR SNAP FASTENER TAPE, AND BUTTON AND BUTTONHOLE TAPE.
Claims use since Dec. 15, 1941.

401,224. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE COLUMBIA MILLS, INC., New York, N. Y. Filed Feb. 14, 1942. Serial No. 450,958.

REVERSE-A-NET

FOR CURTAINS.
Claims use since Jan. 1, 1942.

401,225. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CONTINENTAL WOOLEN COMPANY, New York, N. Y., assignor to Louis Scall. Filed Apr. 28, 1942. Serial No. 452,637.



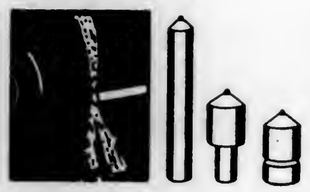
FOR PIECE GOODS OF WOOLEN TWEED.
Claims use since Jan. 20, 1942.

401,226. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HASLAMS LIMITED, Manchester, England. Filed July 16, 1942. Serial No. 454,257.



FOR PIECE GOODS COMPOSED WHOLLY OR MAINLY OF COTTON OR WHOLLY OR MAINLY OF RAYON AND BED SHEETS AND PILLOW CASES.
Claims use since 1919.

401,227. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MAURICE S. DESSAU, New York, N. Y. Filed Aug. 15, 1942. Serial No. 454,924.



FOR DIAMOND-POINTED TOOLS, USED FOR ALL INDUSTRIAL PURPOSES, AND FOR DRESSING AND TRUING GRINDING WHEELS.
Claims use since Jan. 2, 1938.

401,228. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE E. INGRAHAM COMPANY, Bristol, Conn. Filed Jan. 5, 1943. Serial No. 457,761.

INGRAHAM

FOR WOODEN CABINETS FOR RADIO RECEIVERS.
Claims use since January, 1937.

TRADE-MARK REGISTRATIONS RENEWED

22,622. **"SUN" AND DRAWING.** STOVE POLISH OR BLACKING. Registered March 7, 1893. MORSE BROS., Canton, Mass. Re-renewed March 7, 1943, to J. L. Prescott Company, Passaic, N. J., a corporation of New Jersey, assignee.

23,250. **"SANTA CLAUS" AND DRAWING.** SHELLED POP CORN. Registered June 27, 1893. THE ALBERT DICKINSON COMPANY, Chicago, Ill., a corporation of Illinois. Re-renewed June 27, 1943.

23,347. **K 15.** FARM OR AGRICULTURAL SEEDS. Registered July 11, 1893. THE ALBERT DICKINSON COMPANY, Chicago, Ill., a corporation of Illinois. Re-renewed July 11, 1943.

23,509. **SPOT CORD.** BRAIDED SASH CORD. Registered August 15, 1893. SAMSON CORDAGE WORKS, Boston, Mass., a corporation of Massachusetts. Re-renewed August 15, 1943.

155,620. **KREMOLA.** FACE CREAM. Registered June 6, 1922. DR. C. H. BERRY CHEMICAL CO. Renewed June 6, 1942, to Kremola Company, Inc., Chicago, Ill., a corporation of Illinois, successor.

163,168. **"O-JIB-WA" AND DRAWING.** MEDICINAL BITTERS. Registered January 2, 1923. WILFRED T. SHAFE, doing business as O-Jib-Wa's Indian Medicine Company. Renewed January 2, 1943, to Kenneth W. Shafe, doing business as O-Jib-Wa Medicine Company, Flint, Mich., successor.

164,226. **PURITAN MAKE.** LADIES' HOUSE AND STREET DRESSES AND MEN'S, LADIES' AND CHILDREN'S BATH ROBES ALL MADE OF COTTON GOODS. Registered February 13, 1923. SAMUEL L. HOFFMAN, Brooklyn, N. Y., and Jersey City, N. J. Renewed February 13, 1943, to Leo M. Cooper, doing business as Puritan Uniform Company, New York, N. Y., assignee by mesne assignments.

164,753. **GOLD MARK.** MEN'S, LADIES, AND CHILDREN'S HOSIERY. Registered February 27, 1923. REINGOLD HOSIERY CO., New York, N. Y. Renewed February 27, 1943, to Samuel F. Newmark, doing business as "Gold Mark Hosiery Co.," Brooklyn and New York, N. Y., assignee.

165,208. **CURALAK.** SOAPS. Registered March 6, 1923. LIGHTFOOT SCHULTZ COMPANY, Hoboken, N. J. Renewed March 6, 1943, to Lightfoot Schultz Co., New York, N. Y., and Hoboken, N. J., a corporation of New York.

165,797. **TOROS.** CANDIES. Registered March 20, 1923. MASON, AU & MAGENHEIMER CONFECTIONERY MANUFACTURING COMPANY, Brooklyn, N. Y., a corporation of West Virginia. Renewed March 20, 1943.

165,801. **"RUNKEL'S ECLIPSE" AND DRAWING.** SWEET VANILLA CHOCOLATE. Registered March 20, 1923. RUNKEL BROTHERS, INC. Renewed March 20, 1943, to Lamont, Corliss & Company, New York, N. Y., a corporation of New York, assignee by mesne assignments.

166,045. **ALL IN ALL.** CORSETS, BRASSIERES, CORSET COVERS, WAISTS, AND UNDERWEAR OF TEXTILE FABRIC FOR WOMEN. Registered March 27, 1923. KOPS BROS. Renewed March 27, 1943, to Kops Brothers, Inc., New York, N. Y., a corporation of New York, assignee.

166,046. **SUZANNE.** CORSETS, BRASSIERES, CORSET COVERS, WAISTS, AND UNDERWEAR OF TEXTILE FABRIC FOR WOMEN. Registered March 27, 1923. KOPS BROS. Renewed March 27, 1943, to Kops Brothers, Inc., New York, N. Y., a corporation of New York, assignee.

166,110. **MASCOT.** CLOTHESLINES. Registered March 27, 1923. TRIBBLE CORDAGE MILLS, INC., Boston, Mass. Renewed March 27, 1943, to Tribble Cordage Mills, Inc., Woburn, Mass., a corporation of Maine.

166,124. **LITE-O-RITE.** COMBINATION POCKET PENCILS AND POCKET LIGHTERS. Registered March 27, 1923. THE ART METAL WORKS, INC., Newark N. J., a corporation of New Jersey. Renewed March 27, 1943.

166,207. **CARMEN.** BRASSIERES. Registered March 27, 1923. CARMEN MANUFACTURING COMPANY. Renewed March 27, 1943, to George S. Abelson, doing business as Carmen Manufacturing Company, Chicago, Ill., assignee.

166,215. **VIVIANNE.** CORSETS, BRASSIERES, AND UNDERWEAR OF TEXTILE FABRIC FOR WOMEN. Registered March 27, 1923. KOPS BROS. Renewed March 27, 1943, to Kops Brothers, Inc., New York, N. Y., a corporation of New York, assignee.

166,382. **SERVISPAR.** VARNISH. Registered April 3, 1923. THE PARAFFINE COMPANIES, INC., San Francisco, Calif., a corporation of Delaware. Renewed April 3, 1943.

166,632. **"HAPPY BABY" AND DRAWING.** BABY BATH ROBES. Registered April 10, 1923. JACOB KAPLAN. Renewed April 10, 1943, to Modern Bathrobe and Novelty Co., New York, N. Y., a firm, successor.

166,846. **"MARVEL" AND DRAWING.** MEN'S AND BOYS' HATS. Registered April 17, 1923. GREATER N. Y. HAT & CAP WORKS. Renewed April 17, 1943, to Greater New York Hat Co., New York, N. Y., a firm, assignee by mesne assignments.

166,859. **"BESTOV" AND DRAWING.** STATIONARY ENGINES AND OTHER CERTAIN NAMED MACHINES FOR ICE-CREAM AND DAIRY PLANTS. Registered April 17, 1923. CHERRY-BASSETT-WINNER COMPANY, Wilmington, Del., and Philadelphia, Pa. Renewed April 17, 1943, to Cherry-Burrell Corporation, Chicago, Ill., a corporation of Delaware, assignee.

166,909. **SUPREME COVERCLOTH.** COTTON SHEETING FOR COVERING THE PADDING ON IRONING ROLLS. Registered April 17, 1923. TINGUE, BROWN & CO., New York, N. Y., a corporation of New York. Renewed April 17, 1943.

167,913. **ZINOX.** COLD CREAM. Registered May 8, 1923. BRISTOL-MYERS COMPANY. Renewed May 8, 1943, to Bristol-Myers Company, New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

168,648. **SOMBRERO.** FRESH VEGETABLES AND CERTAIN NAMED FRESH FRUITS. Registered May 29, 1923. WITHERS BROTHERS, Placentia, Calif., a copartnership. Renewed May 29, 1943.

168,871. **CHOCOLATE WHIPS.** CHOCOLATE CANDIES. Registered May 29, 1923. E. GREENFIELD'S SONS, New York and Brooklyn, N. Y. Renewed May 29, 1943, to Henry Heide, Incorporated, New York, N. Y., a corporation of New York, by merger.

168,872. **HIGH BOYS.** CHOCOLATES AND CANDIES. Registered May 29, 1923. E. GREENFIELD'S SONS, New York and Brooklyn, N. Y. Renewed May 29, 1943, to Henry Heide, Incorporated, New York, N. Y., a corporation of New York, by merger.

169,812. **FRUIT SALAD.** ICE CREAM. Registered July 3, 1923. PHILLIP SMOLINSKY, doing business as Parkview Pharmacy. Renewed July 3, 1943, to Parkview Pharmacies, Kansas City, Mo., a co-partnership, assignee.

170,041. **OKLAHOMA CITY TIMES.** DAILY NEWSPAPER. Registered July 10, 1923. THE OKLAHOMA PUBLISHING COMPANY, Oklahoma City, Okla., a corporation of Oklahoma. Renewed July 10, 1943.

170,045. **THE DAILY OKLAHOMAN.** DAILY NEWSPAPER. Registered July 10, 1923. THE OKLAHOMA PUBLISHING COMPANY, Oklahoma City, Okla., a corporation of Oklahoma. Renewed July 10, 1943.

170,164. **PREMIER CHOC-O-MEL.** A FLAVORING PREPARATION FOR FOOD PRODUCTS. Registered July 10, 1923. FRANCIS H. LEGGETT & COMPANY, New York, N. Y., a corporation of New York. Renewed July 10, 1943.

170,226. **DECKOLOR.** LAUNDRY BAGS. Registered July 10, 1923. TINGUE, BROWN & CO., New York, N. Y., a corporation of New York. Renewed July 10, 1943.

170,761. **"HAWKEYE" AND DRAWING.** FIBER BOXES. Registered July 24, 1923. IOWA FIBER BOX COMPANY. Renewed July 24, 1943, to Iowa Fiber Box Company, Keokuk, Iowa, a corporation of Delaware, successor.

170,862. **"HUM" AND DRAWING.** CHEESE. Registered July 24, 1923. HOLLAND FOOD CORPORATION, New York, N. Y., a corporation of New York. Renewed July 24, 1943.

170,881. **"BITURINE" AND DRAWING.** CERTAIN NAMED PAINTS AND PAINT COATINGS, AND PAINT ENAMELS AND VARNISHES. Registered July 24, 1923. HILL-HUBBELL AND COMPANY. Renewed July 24, 1943, to General Paint Corporation, San Francisco, Calif., a corporation of Nevada, assignee.

171,030. **"AMERICAN COPPER PRODUCTS CORPORATION" AND DRAWING.** BARE AND INSULATED WIRE, CABLE, AND CORDAGE FOR ELECTRICAL PURPOSES. Registered July 31, 1923. AMERICAN COPPER PRODUCTS CORPORATION, Elizabeth Port, N. J. Renewed July 31, 1943, to Phelps Dodge Copper Products Corporation, New York, N. Y., and Dover, Del., a corporation of Delaware, assignee by mesne assignments.

171,057. **WECO.** POWDER PUFFS AND CERTAIN NAMED BRUSHES. Registered July 31, 1923. WESTERN BOTTLE MANUFACTURING COMPANY. Renewed July 31, 1943, to Weco Products Company, Chicago, Ill., a corporation of Illinois, by change of name.

171,071. **RADIO.** FRESH APPLES. Registered July 31, 1923. W. A. BOLINGER, doing business as Bolinger Orchards, Methow, Wash. Renewed July 31, 1943.

171,214. **WONDERROBE.** WARDROBE TRUNKS. Registered July 31, 1923. SEWARD TRUNK AND BAG COMPANY, Petersburg, Va., a corporation of Virginia. Renewed July 31, 1943.

171,297. **VEE POINT.** HOSIERY. Registered August 7, 1923. BURSON KNITTING COMPANY, Rockford, Ill., a corporation of Illinois. Renewed August 7, 1943.

171,334. **MALABOZA.** FOOD FLAVORINGS AND SPICES. Registered August 7, 1923. B. HELLER & COMPANY, Chicago, Ill., a corporation of Illinois. Renewed August 7, 1943.

171,346. **"JR" AND DRAWING.** BARLEY-MALT EXTRACT. Registered August 7, 1923. JACOB RUPPERT, New York, N. Y., a corporation of New York. Renewed August 7, 1943.

171,392. **KARNAVAR.** SILK PIECE GOODS. Registered August 7, 1923. H. R. MALLISON & CO., INC. Renewed August 7, 1943, to Mallinson Fabrics Corporation, New York, N. Y., a corporation of New York, assignee.

171,442. **BULL DOG.** FLOOR CLIPS FOR FASTENING WOODEN FLOORS OR THE LIKE TO A CONCRETE CONSTRUCTION. Registered August 7, 1923. BULL DOG FLOOR CLIP COMPANY. Renewed August 7, 1943, to W. C. Krabiel, doing business as Bull Dog Floor Clip Company, Winterset, Iowa, assignee by mesne assignments.

171,522. **WECO.** HANDKERCHIEFS AND HAIR NETS. Registered August 7, 1923. WESTERN BOTTLE MANUFACTURING COMPANY, doing business as the Western Company. Renewed August 7, 1943, to Weco Products Company, Chicago, Ill., a corporation of Illinois, by change of name.

171,535. **"EASY WORK" AND DRAWING.** LIME. Registered August 7, 1923. BREWER & COMPANY, INC., Worcester, Mass., a corporation of Massachusetts. Renewed August 7, 1943.

171,537. **FLEXTAN.** LEATHER BELTING. Registered August 7, 1923. CHICAGO BELTING COMPANY. Renewed August 7, 1943, to Chicago Belting Company, Chicago, Ill., a corporation of Delaware, assignee.

171,578. **"ICE CREAM MAKERS' FRIEND" AND DRAWING.** FLAVORING COMPOUND. Registered August 7, 1923. B. HELLER & COMPANY, Chicago, Ill., a corporation of Illinois. Renewed August 7, 1943.

171,579. **"CANDY MAKERS' FRIEND" AND DRAWING.** FLAVORING COMPOUND FOR USE IN CONFECTIONERY. Registered August 7, 1923. B. HELLER & COMPANY, Chicago, Ill., a corporation of Illinois. Renewed August 7, 1943.

171,580. **"BAKERS' FRIEND" AND DRAWING.** FLAORING COMPOUND FOR USE IN CAKES, PASTRY AND OTHER BAKERY GOODS. Registered August 7, 1923. B. HELLER & COMPANY, Chicago, Ill., a corporation of Illinois. Renewed August 7, 1943.

171,590. **ALLIGATORS.** TRACTION WHEELS. Registered August 7, 1923. THE BUCKEYE TRACTION DITCHER COMPANY, Findlay, Ohio, a corporation of Ohio. Renewed August 7, 1943.

171,599. **"NODAK" AND DRAWING.** CERTAIN NAMED SOFT DRINKS. Registered August 7, 1923. THE GRAND FORKS BOTTLING WORKS. Renewed August 7, 1943, to Grand Forks Coca-Cola Bottling Company, Grand Forks, N. Dak., a corporation of North Dakota, assignee.

171,735. **DURA.** WINDOW REGULATORS. Registered August 14, 1923. THE DURA COMPANY, Toledo, Ohio. Renewed August 14, 1943, to Detroit Harvester Company, Detroit, Mich., a corporation of Michigan, assignee.

171,776. **"COCK O' THE WALK" AND DRAWING.** SHIRTS, NIGHT SHIRTS, PYJAMAS, AND BOYS' BLOUSES. Registered August 14, 1923. PHILLIPS-JONES CORPORATION, New York, N. Y., a corporation of New York. Renewed August 14, 1943.

171,791. **NAVALOY.** BABBITT METAL. Registered August 14, 1923. U. T. HUNGERFORD BRASS & COPPER CO., New York, N. Y. Renewed August 14, 1943, to Chase Brass & Copper Co. Incorporated, Waterbury, Conn., a corporation of Connecticut, assignee by mesne assignments.

172,030. **IRON CLAD.** LEATHER BOOTS AND SHOES. Registered August 21, 1923. DUGAN & HUDSON CO., Rochester, N. Y. Renewed August 21, 1943, to R. H. Macy & Co., Inc., New York, N. Y., a corporation of New York, assignee by mesne assignments.

172,051. **CREAM OF VEGETABLE OIL.** VEGETABLE SHORTENING COMPOUND. Registered August 21, 1923. THE N. K. FAIRBANK COMPANY, assignor to The American Cotton Oil Company, Union Township, near Guttenberg, N. J., and Chicago, Ill. Renewed August 21, 1943, to Lever Brothers Company, Cambridge, Mass., a corporation of Maine, assignee by mesne assignments.

172,122. **MATRIX.** SHOES MADE OF LEATHER. Registered August 21, 1923. E. P. REED & CO., Rochester, N. Y., a corporation of New York. Renewed August 21, 1943.

172,133. **"MATRIX" AND DRAWING.** SHOES MADE OF LEATHER. Registered August 21, 1923. E. P. REED & CO., Rochester, N. Y., a corporation of New York. Renewed August 21, 1943.

172,286. **FRALINGER'S.** SALT-WATER TAFFY. Registered August 28, 1923. THEO. J. LAPERES, INC., Atlantic City, N. J., a corporation of New Jersey. Renewed August 28, 1943.

172,296. **ZAL.** APPARATUS FOR GENERATING AND DIFFUSING VAPORIZED GERMICIDES OR DISINFECTANTS. Registered August 28, 1923. NEWTON, CHAMBERS & CO. LIMITED, near Sheffield, England. Renewed August 28, 1943, to Newton, Chambers & Company Limited, Thorncliffe, Sheffield, England, a corporation of United Kingdom.

172,317. **MAZE-LITE.** ELECTRICAL LIGHTING FIXTURES. Registered August 28, 1923. ST. LOUIS BRASS MFG. CO., St. Louis, Mo., a corporation of Missouri. Renewed August 28, 1943.

172,336. **KERITE.** INSULATED WIRE AND CABLES. Registered August 28, 1923. THE KERITE INSULATED WIRE & CABLE COMPANY, INC., Seymour, Conn., and New York, N. Y. Renewed August 28, 1943, to The Kerite Insulated Wire & Cable Company, Inc., New York, N. Y., a corporation of Connecticut.

172,347. **"FREEZE-EM-PICKLE" AND DRAWING.** CHEMICAL PREPARATIONS USED IN THE CURING OF MEAT. Registered August 28, 1923. B. HELLER & COMPANY, Chicago, Ill., a corporation of Illinois. Renewed August 28, 1943.

172,397. **BULL-DOG.** INSULATORS, SPLIT INSULATORS, ASSEMBLED SPLIT INSULATORS, AND KNOBS. Registered August 28, 1923. ILLINOIS ELECTRIC PORCELAIN COMPANY, Macomb, Ill., a corporation of Illinois. Renewed August 28, 1943.

172,399. **"YANKEE" AND DRAWING.** ELECTRIC AUTOMOBILE LAMPS. Registered August 28, 1923. AMERICAN AUTO LAMP CO. INC., New York, N. Y. Renewed August 28, 1943, to Yankee Metal Products Corp., Norwalk, Conn., a corporation of New York, assignee.

172,410. **REPRESENTATION OF A DIAMOND WITHIN A RECTANGLE.** HAME TRIMMINGS AND SADDLERY HARDWARE. Registered August 28, 1923. U. S. HAME COMPANY. Renewed August 28, 1943, to Ushco Manufacturing Company, Inc., Buffalo, N. Y., a corporation of New York, by change of name.

172,517. **GAULIN.** HOMOGENIZER FOR RENDERING HOMOGENEOUS THE INGREDIENTS OF COMPOUNDED PRODUCTS. Registered September 4, 1923. MANTON-GAULIN MANUFACTURING COMPANY, INC., Boston and South Boston, Mass. Renewed September 4, 1943, to Manton-Gaulin Manufacturing Company, Inc., Everett, Mass., a corporation of Massachusetts.

172,576. **"HYLAND'S 14."** REMEDY FOR COLD IN HEAD AND CERTAIN OTHER AILMENTS AND DISEASES. Registered September 11, 1923. GEORGE H. HYLAND, doing business as Standard Homeopathic Company. Renewed September 11, 1943, to Standard Homepathic Company, Los Angeles, Calif., a corporation of Nevada, assignee.

172,654. **AIRCO.** BEEHIVES AND COMB FOUNDATIONS. Registered September 11, 1923. THE A. I. ROOT COMPANY, Medina, Ohio, a corporation of Ohio. Renewed September 11, 1943.

172,661. **MALMÖ.** WRAPPING PAPER. Registered September 11, 1923. HUFF, BARNES & OPIE, INC., Pittsburgh, Pa., a corporation of Pennsylvania. Renewed September 11, 1943.

172,674. **"KNAPP" AND DRAWING.** CERTAIN NAMED SHEET METAL CONSTRUCTION MATERIALS. Registered September 11, 1923. KNAPP BROTHERS MANUFACTURING COMPANY, Chicago, Ill. Renewed September 11, 1943, to Knapp Brothers Manufacturing Company, Joliet, Ill., a corporation of Illinois.

172,743. **PULL-EASY.** HORSE AND MULE FEED. Registered September 11, 1923. THE STURGES COMPANY, Meridian, Miss., a corporation of Mississippi. Renewed September 11, 1943.

172,799. **"CHALLENGE" AND DRAWING.** WINDMILLS AND CERTAIN NAMED ENGINES, PUMPS, FEED GRINDERS, AND OTHER MACHINERY. Registered September 11, 1923. CHALLENGE COMPANY, Batavia, Ill., a corporation of Illinois. Renewed September 11, 1943.

172,825. **"MURDOCK RADIO" AND DRAWING.** CERTAIN NAMED WIRELESS APPARATUS. Registered September 11, 1923. WM. J. MURDOCK CO., Chelsea, Mass., a voluntary association of trust. Renewed September 11, 1943.

172,834. **OVERSET.** THREADS. Registered September 11, 1923. MANUFACTURERS SUPPLIES COMPANY, St. Louis, Mo., a corporation of Missouri. Renewed September 11, 1943.

172,836. **DUNMURRY.** WOOLEN PIECE GOODS. Registered September 11, 1923. ROBERT H. LINTON, New York, N. Y. Renewed September 11, 1943.

172,948. **"BETTER SHOES FOR LESS MONEY" AND DRAWING.** LEATHER SHOES. Registered September 11, 1923. ENDICOTT JOHNSON CORPORATION, Endicott, N. Y., a corporation of New York. Renewed September 11, 1943.

172,972. **DR. H. F. DICKSON'S.** SALVE FOR THE TREATMENT OF PNEUMONIA, INFLUENZA, CROUP, ASTHMA, AND COLDS. Registered September 11, 1923. HUGH F. DICKSON, Covington, Tenn. Renewed September 11, 1943.

REISSUES

APRIL 27, 1943

22,306

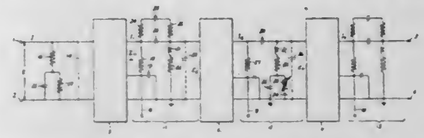
WIDE BAND AMPLIFIER

Donald E. Norgaard, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Original No. 2,280,532, dated April 21, 1942, Serial No. 391,378, May 1, 1941. Application for reissue February 27, 1943, Serial No. 477,413

16 Claims. (Cl. 179—171)

13. A wide band amplifier having resistance in shunt with the input thereof and capacity shunting a portion of said resistance, and having an interstage network comprising an interstage coupling capacity shunted by a second resistance and having shunt resistance at either side of said coupling capacity, said first resistance, said portion and said capacity shunting said portion being proportioned to accentuate current of low frequency within a predetermined band to be amplified with respect to current of high frequencies in said predetermined band, and said coupling capacity, second resistance and shunt



resistances being proportioned relative to said capacity shunting said portion, said portion and said first resistance to attenuate said low frequency currents to produce uniform amplification at all frequencies in said predetermined band.

PLANT PATENTS

GRANTED APRIL 27, 1943

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

577

ROSE

Alfred Krebs, Montebello, Calif., assignor to Edward E. Marsh, Pasadena, Calif., and himself, jointly

Application June 2, 1941, Serial No. 396,316

1 Claim. (Cl. 47—61)

The bush rose herein described characterized by its crimson-carmine shaded buds, retaining the same color to open bloom, characterized in the long, barbed sepals of the bud structure, characterized in the dainty multiple barb formation of the leaves, the lack of thorns, its vigorous growing qualities, its long-lasting qualities, the ability of the buds to open in water when cut, and in that the full scent of the rose develops in full bloom, and further characterized in that the size and shape of the bud and rose very closely approximate that of the common variety of Cecil Brunner.

578

ROSE

Alfred Krebs, Montebello, Calif., assignor to Edward E. Marsh, Pasadena, Calif., and himself, jointly

Application June 2, 1941, Serial No. 396,317

1 Claim. (Cl. 47—61)

The rose variety herein described characterized by its velvety carmine buds of velvety texture and sheen wherein each bud has one long sepal characterized further in that the bush has no thorns, the flower has long-lasting qualities, and in that the full scent of the rose flower develops in full bloom and further characterized in that the size of the bud is larger than that of the common variety of bush of the Cecil Brunner rose but is smaller in size than the Paul Scarlet bud.

579

ROSE PLANT

John S. Elliott, Madbury, N. H.

Application December 7, 1942, Serial No. 468,133

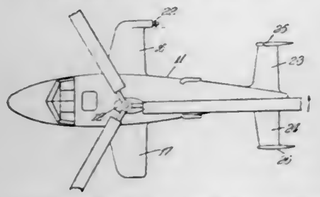
1 Claim. (Cl. 47—61)

The new and distinct variety of hybrid tea rose plant herein disclosed, characterized particularly by its vigorous growth; its prolific flower production; the high percentage of high-quality flowers produced; its heavy, erect flower stems; its abundant and substantial dark green foliage; and the outstanding combination of good form, pleasing fragrance and delicate clear yellow color of its flowers which last exceptionally well.

PATENTS

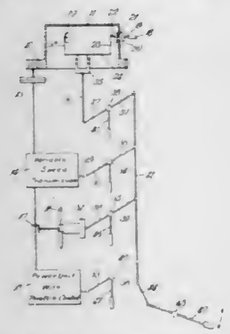
GRANTED APRIL 27, 1943

2,317,340
HELICOPTER
James Allan Jamieson Bennett, Esher, England, assignor to Autogiro Company of America, Willow Grove, Pa., a corporation of Delaware
Application August 23, 1940, Serial No. 353,810
In Great Britain February 18, 1939
34 Claims. (Cl. 244—17)



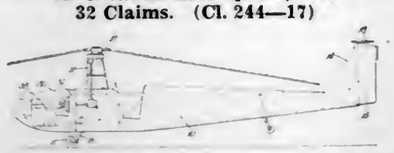
1. In an aircraft, a power-driven variable-pitch sustaining rotor, a power-driven variable-pitch airscrew mounted to rotate on a generally horizontal axis which is offset from the rotor axis so as to set up a counter torque, and a unified control for normally effecting conjoint change of airscrew pitch and rotor pitch comprising a movable member coupled to affect by its movement one of said pitches and also coupled to affect the other of said pitches by the same movement.

2,317,341
HELICOPTER AND METHOD OF OPERATING SAME
James Allan Jamieson Bennett, Esher, England, assignor to Autogiro Company of America, Willow Grove, Pa., a corporation of Delaware
Application August 23, 1940, Serial No. 353,809
In Great Britain January 24, 1939
26 Claims. (Cl. 244—17)



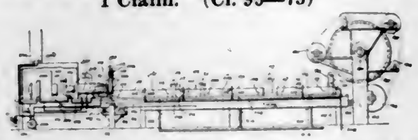
1. The method of operating an aircraft having a variable pitch sustaining rotor and a variable speed power transmission for driving the rotor, which method includes driving the rotor with the machine on the ground in preparation for take-off, this driving being effected with the mean rotor blade pitch at a non-lifting angle and with the power transmission adjusted to a high transmission ratio, and effecting take-off of the aircraft by raising the mean rotor blade pitch angle while continuing the drive of the rotor but at a decreased transmission ratio.

2,317,342
ROTARY WING AIRCRAFT
Cyril George Pullin, Genista, Newton Mearns, Scotland, assignor to Autogiro Company of America, Willow Grove, Pa., a corporation of Delaware
Application April 6, 1940, Serial No. 328,232
In Great Britain April 3, 1939
32 Claims. (Cl. 244—17)



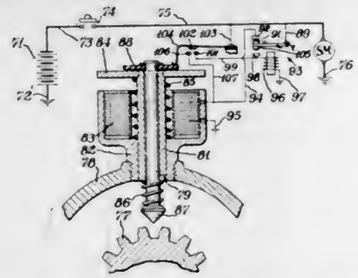
1. In an aircraft, rotative sustaining blades which under power impose a reactive torque upon the craft acting about a generally vertical axis, airscrew blades which under power produce a generally horizontal thrust imposing a direct torque upon the craft acting about said vertical axis in a sense opposite to said reactive torque, power means on the craft, and transmission means taking power from the power means and incorporating automatic differentially-acting means through which the power is divided between the sustaining blades and the airscrew blades to effect a substantial balance between said torques under a predetermined flight condition.

2,317,343
PHOTOGRAPHIC EXPOSING AND DEVELOPING MACHINE AND THE LIKE
Orville R. Bettes, John W. Nevius, and Wilhelm Petrus Hendrickson, Long Beach, Calif.
Original application July 18, 1938, Serial No. 219,786. Divided and this application July 21, 1939, Serial No. 285,828
1 Claim. (Cl. 95—75)
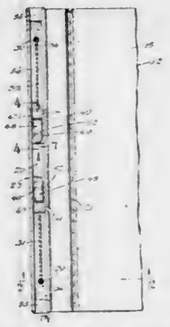


In the apparatus of the class described adapted for photographically reproducing pictures upon the surface of a sensitized paper which is moving continually and in one continuous operation, in combination, a frame member, a light producing means mounted upon said frame member, a light rays concentrating means associated with said light producing means for concentrating said light rays passing therethrough, an aperture holder frame mounted upon said frame member, an aperture holder means slidably disposed in said holder frame and positioned in juxtaposition to said light rays concentrating means, an aperture disposed in said aperture holder means for allowing said light rays to pass therethrough and be restricted to its size, a picture film member disposed in said aperture, a sensitized surface paper disposed in close proximity to said picture film member, a sensitized paper carrying means mounted upon said frame member, means mounted upon said frame member and connected to said paper carrying means for moving said aperture holding means and for moving said sensitized paper at the same speed, resilient means connected to said aperture holder means for retracting of said aperture holder at intervals, a shutter member connected to said light rays concentrating means for shutting off the light while said aperture holder means is in its retracting movement so that the picture from said film may be reproduced upon said sensitized paper surface, and sensitized paper developing and drying means mounted upon said frame member for holding said paper in position during its continuous movement and for completing the photographic reproduction of picture from said film in one continuous operation, substantially as described.

2,317,344
ENGINE STARTER
E. Elliott Hood, Elmira, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application March 4, 1942, Serial No. 433,303
8 Claims. (Cl. 290—38)



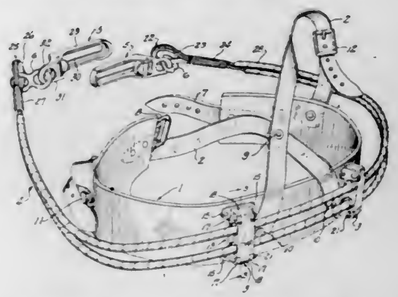
1. In an engine starter a drive pinion, a detent, means causing the detent to engage the teeth of the pinion and resist its rotation, and means responsive to the ejection of the detent from the teeth of the pinion by the initial rotation of the pinion for withdrawing the detent and maintaining it retracted from the pinion.

2,317,345
BINDER
William A. Peters, Chicago, Ill., assignor of one-half to William E. O'Connor, Chicago, Ill.
Application September 23, 1941, Serial No. 411,983
12 Claims. (Cl. 129—41)



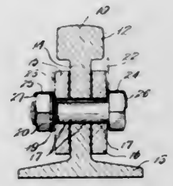
1. A binder of the class described consisting of a pair of covers, a pliable member having its one end removably connected to one of said covers, a hollow member attached to said other cover, a semi-U-shaped movable member attached to the other end of said pliable member and engaging said hollow member, and a combination cam and lever member associated with said movable member for locking said movable member at various positions within said hollow member.

2,317,346
SAFETY BELT
Joseph A. Reith, Milwaukee, Wis., assignor to Milwaukee Safety Appliance Co., Milwaukee, Wis., a corporation of Wisconsin
Application April 25, 1941, Serial No. 390,234
7 Claims. (Cl. 227—49)



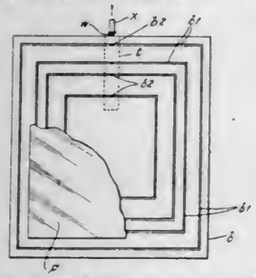
1. A safety harness comprising a belt, a rope-receiving closed chock secured to said belt, an attaching rope having coupling means for engaging anchor terminals, said rope being disposed in and freely slidable through said chock and said chock having a movable portion providing access thereto whereby said rope and said coupling means may be assembled upon or removed from said belt as a unit.

2,317,347
NUT LOCKING DEVICE
Michael F. Saylor, Elyria, Ohio
Application March 24, 1939, Serial No. 263,965
2 Claims. (Cl. 151—8)



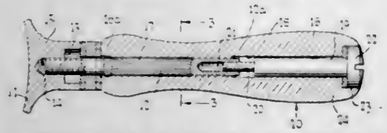
1. A bolted assembly comprising adjacent members having aligned openings, a bolt having its shank extending through the aligned openings in said members and its head engageable with the outer face of one of said members, a nut detachably engageable with the shank of said bolt for maintaining said members in assembled relation, and a locking means for said nut comprising a strip of metal having a portion extending through the aligned openings between the outer peripheral surface of said shank and inner peripheral surface of the openings, laterally extending portions disposed between the outer sides of said members and the inner adjacent surfaces of said nut and bolt head respectively and projecting end portions bent into engagement with one of the side faces of said nut and bolt head respectively for securing said nut against accidental removal.

2,317,348
VACUUM HOLDER FOR SHEETLIKE MEMBERS
Stephen N. Wekeman, Saddle River Township, Bergen County, N. J., assignor to General Printing Ink Corporation, New York, N. Y., a corporation of Delaware
Application July 17, 1942, Serial No. 451,267
10 Claims. (Cl. 248—363)



10. In a device of the character described, a plate structure having a plane surface provided with a set of grooves defining substantially a rectangular area on said plane surface, and means for applying a suction effect to said grooves to thereby retain in association with said plate structure a sheet-like member having its marginal section covering said grooves, said sheet-like member, while thus associated with said plate structure, being retained in position only by the suction effect existing at said grooves whereby said sheet-like member retains its plane configuration in the area thereof within said grooves.

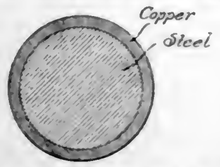
2,317,349
HANDLE
Philip Wolfers, New York, N. Y., assignor of one-fourth to I. Newton Brozan, Aaron Holman, and J. Stanley Halperin, jointly, all of New York, N. Y.
Application October 11, 1940, Serial No. 360,694
2 Claims. (Cl. 16—114)



1. A handle adapted to be detachably locked to an article having a threaded handle receiving portion, said handle comprising a shank having a threaded end adapted to engage the threaded handle receiving portion of said article, a gripping member mounted on said shank, and means to releasably lock said shank against rotation relative to said article, said means comprising means to restrain said gripping member from rotating and shifting axially relative to said shank, and means to restrain said gripping member from rotating relative to said article.

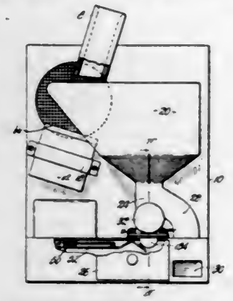
2,317,350
COPPER CLAD WIRE AND METHOD OF PREPARING THE SAME
Orville E. Adler and Maurice J. Krinowitz, Niles, Mich., assignors to National-Standard Company, a corporation of Michigan
Application November 1, 1938, Serial No. 238,278
7 Claims. (Cl. 204—35)

1. A copper clad wire comprising a ferrous base, an adherent layer of copper deposited from a cyanide solution upon the base, a thin layer of copper thereon deposited from an acid solution, a thin layer of copper upon the acid deposited



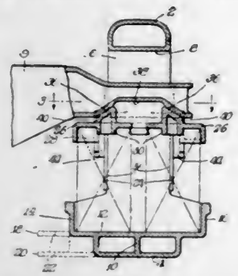
copper which has been deposited from a cyanide solution, and a relatively thick layer of acid deposited copper thereon.

2,317,351
ELECTRICAL SELECTOR FOR COIN CHUTES
Boley A. Andalikiewicz and Drexel T. Carlson, Kansas City, Mo., assignors to C. Earl Hovey, trustee, Kansas City, Mo.
Application October 25, 1940, Serial No. 362,718
10 Claims. (Cl. 194—100)



4. In an electrical selector of the character described for eliminating slugs, structure providing a path of travel for coins to a point of discharge; an element causing all coins to vibrate while in said path; parts responsive to the vibrations of genuine coins; an element for diverting slugs from the path to prevent them from passing to the point of discharge; and means controlled by the responsive parts to operate the diverting means.

2,317,352
TRUCK
Fred E. Bachman, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application December 19, 1940, Serial No. 370,768
16 Claims. (Cl. 105—197)



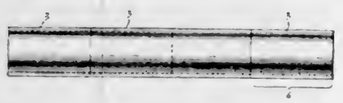
3. In a railway car truck, a side frame having tension and compression members and spaced

columns forming therewith a bolster opening, said columns having rectangular openings aligned longitudinally of the frame and comprising an L-section at each side of said rectangular openings, one leg of each L affording a friction surface, the other leg of said L forming a bolster guide area, a spring group seated on said tension member and including a central coil and other coils therearound, a spring cap assembly seated on said other coils and comprising opposite plate members engaging said friction surfaces, each of said members presenting raised pads with diagonal bolster supporting surfaces, and a bolster projecting into said bolster opening with complementary faces in engagement with said last-mentioned surfaces, said pads being aligned over respective coils other than said central coil.

2,317,353
PURIFICATION OR CONCENTRATION OF TOCOPHEROL
James G. Baxter, Rochester, N. Y., assignor to Distillation Products, Inc., Rochester, N. Y., a corporation of Delaware
No Drawing. Application August 31, 1940, Serial No. 355,088
7 Claims. (Cl. 260—338)

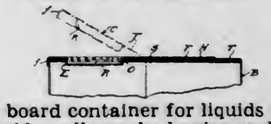
1. The process of preparing a relatively purified concentrate of tocopherol from crude materials which contain tocopherol and which are derived from the sludge, scum or like by-product produced during the carrier gas treatment of tocopherol containing vegetable oils, and which contain relatively large amounts of free fatty acids as impurities which process comprises adding an acid esterification catalyst and a lower aliphatic alcohol to the crude material, heating this mixture until the reaction is substantially complete, removing excess alcohol and then separating volatile reaction products including esters of the fatty acid impurities by vacuum distillation.

2,317,354
EXPLOSIVE CARTRIDGE ASSEMBLY
Thomas Francis Bennett, Joplin, Mo., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
Application April 24, 1940, Serial No. 331,299
6 Claims. (Cl. 102—24)



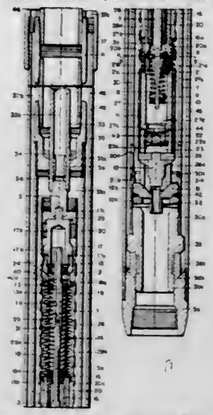
1. An explosive device comprising a plurality of explosive cartridges disposed co-axially in end-to-end abutting relationship, threads formed on the exterior throughout the length of each of said cartridges, said threads being directed in a common direction and forming a thread throughout the length of the cartridge assembly, a connecting sleeve surrounding each pair of adjacent cartridges and extending across the joint therebetween, said sleeves abutting one another end-to-end, and threads formed on the interior of said sleeves and in engagement with the threads on said cartridges, said threads on said sleeves forming a thread throughout the length of the sleeve assembly.

2,317,355
PAPERBOARD CONTAINER
Duryea Bensel, Los Angeles, Calif., assignor, by mesne assignments, to American Can Company, New York, N. Y., a corporation of New Jersey
Original application November 6, 1936, Serial No. 109,439. Divided and this application August 25, 1938, Serial No. 226,777
1 Claim. (Cl. 229—17)



A paper board container for liquids comprising connected side wall panels; having end flaps sealingly adhered to form a top closure wall joined to said panels and having therein near a corner thereof a filling and pouring opening; the upper margins of said panels where they join the top closure wall being inwardly crimped to form a projecting ledge at the edge of the top wall; a hinged closure member for said opening having therein a cupped part sealingly engaged in the opening; said member including downwardly and inwardly crimped flanges engaged against the adjacent body panel portions and under said ledge; said section and flanges being disposed in covering relation with all portions of the ledges, top wall and panel portions adjacent to the pouring opening, over which the liquid may flow in the pouring operation, to maintain said portions and the liquid clean; said cupped part having its bottom part of relatively wide diameter so that the latter may be sprung into and out of the closing position, and to cooperate with the inturned flanges to hold the member in place.

2,317,356
BELLOWS TYPE SLUGGING FOOT VALVE FOR WELLS
Alexander Boynton, San Antonio, Tex.
Application November 28, 1938, Serial No. 242,770
15 Claims. (Cl. 103—234)



1. A well flowing device including, a casing, an eduction tube therein, a slug measuring pipe spaced outside said tube and extending upwardly from the lower end of said tube a predetermined distance, means sealing between the lower ends of said tube and said pipe, a fluid passage to said tube above its lower end, a chamber in said tube, an upper outlet therefrom to said tube, a valve normally closing said outlet, a lower inlet to said chamber to admit well liquid to the

chamber, a valve in said inlet, means connected with said valves to open said outlet and simultaneously close said inlet, in response to a predetermined fluid pressure in said chamber, and means to conduct fluid under pressure into said casing and said measuring pipe, there being an opening between said measuring pipe and said chamber.

2,317,357

DYE INTERMEDIATE

Leslie G. S. Brooker and Homer W. J. Cressman, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application August 21, 1940, Serial No. 353,502
14 Claims. (Cl. 260—283)

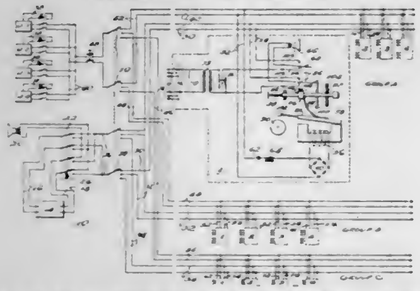
1. A process for preparing a cyclammonium quaternary salt comprising oxidizing, with a halogen, a compound selected from the group consisting of N-alkyl-N-arylthioamides, N,N-diarylthioamides, N - alkyl - N - arylselenoamides and N,N-diarylselenoamides in which the aryl groups contain a hydrogen atom attached to the aryl nucleus in at least one of the positions ortho to the amide nitrogen atom.

2,317,358

COMMUNICATION SYSTEM

Richard H. Campbell, Racine, Wis., assignor to Webster Electric Company, Racine, Wis., a corporation of Delaware

Application June 7, 1941, Serial No. 397,098
27 Claims. (Cl. 179—1)



1. In an intercommunicating system, the combination including, a central station having operatively associated therewith a source of alternating current signal voltage, a substation having operatively associated therewith means responsive to said signal voltage, a communication circuit between said stations, a signal circuit extending to said substation from said source of signal voltage, switch means at said central station for effecting the connection of the signal voltage source to said signal circuit, and communication circuit controlling means operatively associated with said substation operated by said signal voltage responsive means.

2,317,359

METHOD OF COLORING AND DECORATING TEXTILES

Norman S. Cassel, Ridgewood, N. J., assignor to Interchemical Corporation, New York, N. Y., a corporation of Ohio

No Drawing. Application August 6, 1940, Serial No. 351,647
3 Claims. (Cl. 117—15)

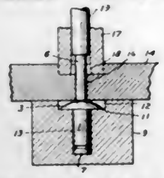
1. The method of continuously decorating fabric which comprises coloring it overall with a pigmented lacquer-in-water emulsion and printing it locally with a pigmented lacquer without drying between operations, and thereafter drying the cloth whereby a combination overall dyeing and local decorative effect is obtained in a continuous operation.

2,317,360

RIVET AND METHOD OF MAKING THE SAME

Carl W. Cherry and Alex S. Mulgardt, San Francisco, Calif.; said Mulgardt assignor to said Cherry

Application May 24, 1940, Serial No. 337,028
8 Claims. (Cl. 10—27)



1. In the method of making a rivet assembly out of a rivet stem and a hollow rivet, the steps of inserting the stem into the hollow rivet, forming of a gripping surface on the inserted end of the stem and simultaneously applying the forces forming said gripping surface to said stem so as to increase the tightness of contact between the stem and the hollow rivet so as to hold the relatively movable parts of the rivet assembly in predetermined relative position.

2,317,361

PROCESS OF PRODUCING DRYING OILS, AND PRODUCT

Ivor M. Colbeth, East Orange, N. J., assignor to The Baker Castor Oil Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application May 25, 1938, Serial No. 209,980
3 Claims. (Cl. 260—398)

1. A liquid oily castor oil product having drying properties and containing chemically combined boron.

3. The process which comprises treating castor oil with a boron compound by heating it slowly up to a temperature of about 260° C. to form a boron compound and then decomposing said compound by rapidly heating it to about 300° C.

2,317,362

PROCESS OF TREATING OILS

Ivor M. Colbeth, East Orange, N. J., assignor to The Baker Castor Oil Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application July 17, 1940, Serial No. 346,023
7 Claims. (Cl. 260—398)

1. The process which comprises reacting glycerides containing hydroxylated fatty acid radicals with a small quantity of boryl pyrosulphate in order to produce unsaturated linkages.

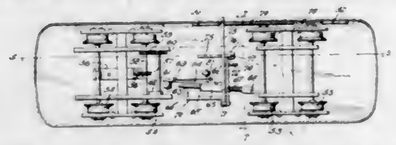
2,317,363

TOY ELECTRIC CAR

George H. M. Dahl, Washington, D. C.

Application October 5, 1939, Serial No. 298,104
20 Claims. (Cl. 105—341)

1. In a toy electric street car, a sliding door, means for opening said door, a member movable in a direction parallel to the plane of the door to close said door, means for connecting said member to the driving gear of the car for causing said member to be moved thereby, means for



normally rendering said connecting means inoperative and means operated during the opening movement of the door for positioning said connecting means to close the door after it has been fully opened.

2,317,364

COMPOSITE STRUCTURE COMPRISING SYNTHETIC RESIN, AND METHOD FOR MAKING SAME

Norman Adrian de Bruyne and Claude Albert Abbs Rayner, Duxford, England, assignors, by mesne assignments, to Aero Research Limited, Duxford, England, a company of Great Britain

No Drawing. Application October 9, 1940, Serial No. 360,512. In Great Britain October 13, 1939
13 Claims. (Cl. 154—2)

1. A method of joining together two surfaces at least one of which comprises a hardened formaldehyde condensation product, said method comprising coating at least one of the said surfaces with an adhesive mixture comprising an aniline-formaldehyde condensation product and an initial phenol-formaldehyde condensation product, applying the coated surface to the second surface, and hardening the adhesive mixture at a temperature of about 140° C. under a pressure of about 200 lbs. per square inch.

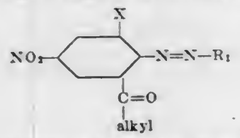
2,317,365

AZO COMPOUNDS AND MATERIAL COLORED THEREWITH

Joseph B. Dickey and James G. McNally, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application July 11, 1941, Serial No. 401,973
11 Claims. (Cl. 260—152)

1. The azo dye compounds having the formula:



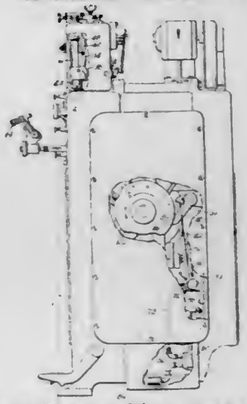
wherein X represents a member selected from the group consisting of hydrogen, a halogen atom, a nitro group, a hydroxy group and an alkoxy group and R_1 represents a member selected from the group consisting of a benzene nucleus containing an amino group in para position to the azo bond shown, a naphthalene nucleus containing an amino group in para position to the azo bond shown, a 1,2,3,4-tetrahydroquinoline nucleus joined through the carbon atom in its 6 position to the azo bond shown and a benzomorpholine nucleus joined through the carbon atom in its 6 position to the azo bond shown and wherein said amino groups and the nitrogen atom forming a part of the 1,2,3,4-tetrahydroquinoline and benzomorpholine nuclei are substituted with a member selected from the group consisting of an aliphatic group free of a carbon to phosphorus linkage, an aralkyl group and a cycloalkyl group.

2,317,366

LASTING MACHINE

Fred C. Eastman, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application May 8, 1942, Serial No. 442,193
28 Claims. (Cl. 12—14)



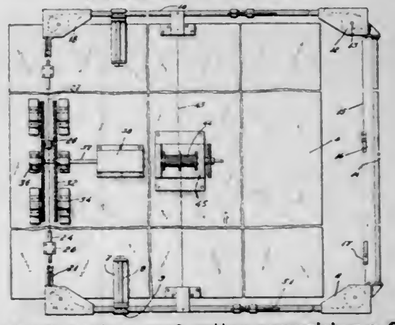
1. In a lasting machine, means for wiping a portion of an upper on a last into lasted position, means for gripping the margin of that portion of the upper and for pulling the upper to assist in shaping it over the last, a device arranged to clamp that portion of the upper on the wiping means first in a location farther outward than the edge of the last bottom to control the upper in the wiping operation, and means to cause said device thus to clamp the upper initially after it has been subjected to a pull by the upper-gripping means and while it is held under tension thereby and to maintain the clamping pressure on the upper thereafter in the course of the wiping operation.

2,317,367

SUBMARINE WEED CUTTING APPARATUS

Gustav C. Foerster, Milwaukee, Wis.

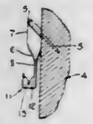
Application November 4, 1940, Serial No. 364,301
5 Claims. (Cl. 56—8)



1. A submarine weed cutter comprising a float, a pair of cutter supporting arms, means pivotally supporting the arms to the float, a cutter reciprocably carried between the arms at the outer ends thereof, flexible means carried by the arms for movement longitudinally thereof and at-

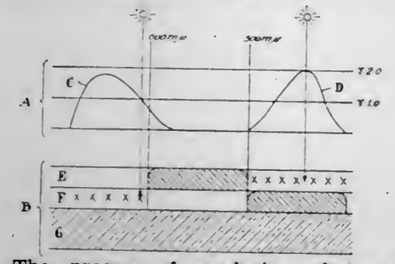
tached to the cutter at each end thereof to form an endless member, means for driving the flexible means for reciprocably actuating the cutter and means for raising and lowering the arms.

2,317,368
PICTURE HOOK
Louis E. Frey, Albany, N. Y., assignor, by mesne assignments, to Norman A. Henderson, Albany, N. Y.
Application July 9, 1940, Serial No. 344,539
3 Claims. (Cl. 248—32)



1. A hook device of the character described comprising a web and provided at one end forming the top of said device with nail receiving means whereby said device is adapted to be secured to a wall, said web at the other end being bent outwardly and upwardly to form a hook open at the top, and said hook being partially enclosed at the sides by integral portions extending upwardly from the bottom thereof and provided with vertically extending tapered slots adapted to receive and frictionally to hold a picture wire against slippage when wedged therein.

2,317,369
PRINTING PROCESS FOR COLOR PHOTOGRAPHY
Béla Gáspár, Hollywood, Calif., assignor to Chromogen, Incorporated, a corporation of Nevada
Application December 4, 1940, Serial No. 368,549
7 Claims. (Cl. 95—2)



1. The process of producing photographic multicolor prints from a multicolor printing prototype containing color separation records in the form of differently colored part images by printing said part images in superposition on to the individual light-sensitive layers of the multilayer printing film, developing the prints in the respective layers of said printing film, and converting the superposed prints into differently colored part images by a coloring process yielding dye images of essentially equal color gradation from silver images of unequal gradation, the multilayer printing film comprising layers of silver halide emulsion which are selectively sensitive for different spectral ranges of light the color of the part images of the printing prototype being absorbent for light of said different spectral ranges respectively, the light used in printing from said prototype on to said light-sensitive printing film being selected within said different spectral ranges, respectively, and of such spectral composition that the products of the color gradation of each individual part image of the prototype multiplied by the contrast of that emulsion of the printing film into which the part image is printed when exposed to such light are in the same ratio as are the gradations of silver images which by said coloring process are transformed into dye images of essentially equal color gradation.

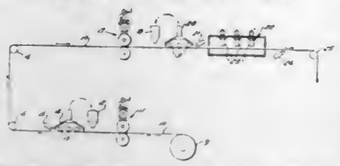
2,317,370
METHOD OF SETTING PRINTING INKS AND COMPOSITION THEREFOR
Charles Geese, Somerton, Pa.
No Drawing. Application June 13, 1940, Serial No. 340,338
9 Claims. (Cl. 101—416)

1. The method of setting printing ink comprising applying an alkaline silicate solution in finely divided form to a freshly printed surface.

2,317,371
COATING AND DECORATING COMPOSITION
Albert E. Gessler, New York, and David M. Gans, Bronx, N. Y., assignors to Interchemical Corporation, New York, N. Y., a corporation of Ohio
No Drawing. Application June 6, 1940, Serial No. 339,094
6 Claims. (Cl. 260—22)

1. A composition comprising copper phthalocyanine dispersed in a liquid comprising a heat-convertible synthetic resin soluble in aromatic hydrocarbons and insoluble in saturated aliphatic hydrocarbons, dissolved in a volatile liquid pine terpene, the composition being substantially free of aromatic hydrocarbons and of unsaturated aliphatic hydrocarbons.

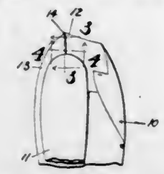
2,317,372
METHOD OF PRINTING AND COMPOSITION USEFUL THEREIN
Albert E. Gessler, New York, and Dominic J. Bernardi, Astoria, Long Island, N. Y., assignors to Interchemical Corporation, New York, N. Y., a corporation of Ohio
Application December 26, 1940, Serial No. 371,660
10 Claims. (Cl. 101—426)



1. The method of producing high finish prints on a web traveling at high speed, which comprises printing on a surface of the traveling web with a press-stable ink containing a petroleum hydrocarbon liquid, dusting the resultant ink film with a composition consisting essentially of a resin having a softening point of at least about 100° C. and soluble in the hot petroleum hydrocarbon, and whose standard solution as defined in this specification has a viscosity of at least 10 poises at 30° C., removing excess dusting composition, and heating the printed surface to melt the powder.

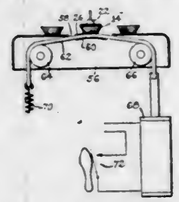
2,317,373
COAT CONSTRUCTION
Jerome Giuseffi, Cincinnati, Ohio, assignor to The Goodall Worsted Company, Sanford, Maine, a corporation of Maine
Application October 18, 1940, Serial No. 361,762
5 Claims. (Cl. 2—268)

1. A coat of the skeleton-lined type formed with a front and rear section joined along a shoulder seam lining material attached to the shoulder portion of the coat only at the collar



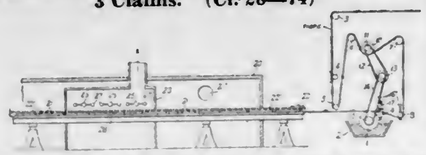
and sleeve head, and a shoulder pad attached to the under side of said lining material and to the shoulder portion of the coat only at the sleeve head.

2,317,374
APPARATUS FOR PACKING CANDY ARTICLES OR THE LIKE
Herbert F. Goodwin, Melrose, Mass., assignor of one-half to Edgar P. Lewis & Sons, Inc., Malden, Mass., a corporation
Application January 27, 1939, Serial No. 253,138
11 Claims. (Cl. 214—8.5)



1. Packing apparatus for candy articles or the like having means for retaining a nested stack of flexible sided cups including an arm having a stack holding terminal extending into the innermost cup of the stack and a cup separating wiper disposed to cooperate with the terminal of the arm and provided with a rubbing element for separating the cup engaging the wiper from the stack and positioning it at one side of the stack with the opening uppermost.

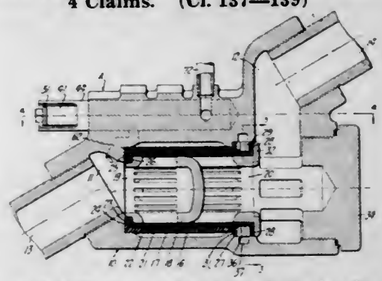
2,317,375
METHOD OF TREATING FABRIC, AND FABRIC
Clarence T. Graham, North Attleboro, Mass., assignor, by mesne assignments, to Defiance Manufacturing Company, Barrowsville, Mass., a corporation of Massachusetts
Application January 27, 1938, Serial No. 187,136
3 Claims. (Cl. 28—74)



1. The method of finishing a woven textile fabric that includes an unfinished, plain, relatively open mesh ground, spaced raised pattern or figure forming portions on the obverse side of said ground constituted by roving or yarn fibers having bight portions interengaged with threads of said ground and end portions lying substantially flat on the obverse side of said ground, to form a fabric having a finished ground, and unfinished, substantially upstanding and artificially fluffed, spaced, raised pattern or figure forming portions on the obverse side of said ground, including the steps of: applying a liquid finishing material to the reverse side only of said fabric ground; drying said finishing material before it substantially penetrates the said end portions of the fibers; and fluffing the pattern or figure forming portions by substantially separating the fiber ends and causing them to assume an upstanding attitude away from the fabric ground.

3. A treated fabric including a base of warp and weft threads, raised spaced pattern or figure forming portions formed of rovings extending through and engaged with several threads of the base, the free ends of said rovings having an upstanding attitude away from the base, fluffed up and in substantial separation from each other, the base of the fabric and the portions of the rovings engaged therewith being starched and the fluffiness of the pattern or figure forming portions being substantially unaffected by the starch.

2,317,376
FLOW CONTROL DEVICE
Marvin H. Grove, Piedmont, and Austin U. Bryant, Berkeley, Calif., assignors to Fluid Control Engineering Co., a copartnership
Application April 15, 1942, Serial No. 438,994
4 Claims. (Cl. 137—139)

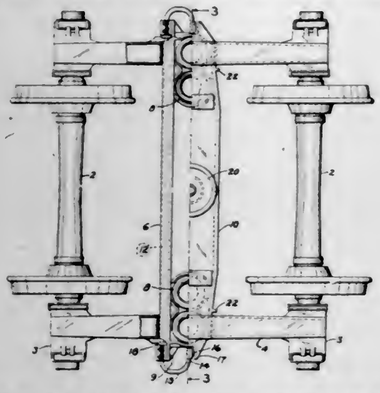


1. In a flow control device, a body having passages for flow of fluid, a tube of resilient material disposed within the body and having its ends sealed with respect to the body about the passages, a circularly contoured barrier disposed within the tube intermediate the ends of the same, the adjacent annular portion of the tube being adapted to engage and seal upon the periphery of the barrier, a second tube of resilient material surrounding the first tube, the ends of the second tube being sealed with respect to the end portions of the first tube, the space between said tubes being adapted to receive fluid under pressure, and means forming a closed fluid chamber about the second named tube, said last named chamber being likewise adapted to receive fluid under pressure.

2,317,377
RAILWAY TRUCK
Einar G. Hallquist, Wallingford, Pa., assignor to General Steel Castings Corporation, Granite City, Ill., a corporation of Delaware
Application September 22, 1939, Serial No. 296,030
8 Claims. (Cl. 105—210)

1. In a railway truck having wheeled axles, separately formed side frames carried thereon, a spring plank extending between said side frames and holding them in spaced relation, springs carried on said spring plank, a bolster mounted on said springs, and a torque rod extending alongside said spring plank and journaled thereon and having arms extending transversely of said spring plank beyond the ends thereof and pivotally con-

nected to the ends of said bolster independently of said springs to equalize the vertical movement

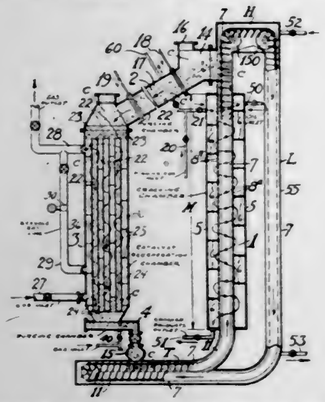


of the ends of said bolster and the springs supporting the same.

2,317,378
ANTISEPTIC MATERIALS
Benjamin R. Harris, Chicago, Ill.
No Drawing. Application February 5, 1941, Serial No. 377,488
22 Claims. (Cl. 167—22)

1. Antiseptic materials comprising higher molecular weight aliphatic alcohol poly-esters of aliphatic amino poly-carboxylic acids.

2,317,379
CATALYTIC CRACKING
Charles E. Hemminger, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application April 1, 1939, Serial No. 265,388
1 Claim. (Cl. 196—52)

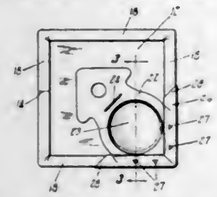


A process for catalytic conversion of hydrocarbons which comprises continuously moving a column of catalyst particles upwardly through a conversion zone, introducing heated hydrocarbon vapors into the top portion of said column, passing the heated hydrocarbon vapors transversely through the upwardly moving column of catalyst particles and back and forth through said column at lower levels and removing cracked vapors from the bottom of said catalyst zone.

2,317,380
PLASTICIZER
Edward Higgins, Brooklyn, N. Y., assignor of fifty per cent to Maximillian C. Meyer, Brooklyn, N. Y.
No Drawing. Application January 21, 1939, Serial No. 252,122
8 Claims. (Cl. 260—735)

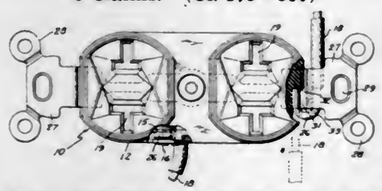
3. A plasticized compound which comprises chlorinated rubber and an ester of tri-carballylic acid.

2,317,381
CONTAINER
John M. Hothersall, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application October 6, 1939, Serial No. 298,300
1 Claim. (Cl. 229—17)



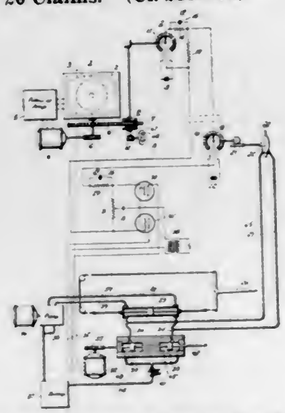
A tamper-proof fiber container for liquids, comprising a tubular fibre body of substantially square cross section having a fibre top end member adhesively secured to an end thereof in an outwardly projecting seam joint overhanging the upper end of said body, a dispensing opening in said end member adjacent a corner thereof and a closure element hingedly secured to said end member for closing and sealing said opening, said closure element having a forwardly extending marginal flange overlying and secured to said end seam joint adjacent angularly extending portions of the latter, and a metallic sealing band of substantial channel section and angular shape embracing and secured to the localized angularly extending portions only of said seam joint by means of spaced substantially parallel inwardly projecting portions of said band respectively engaging over the marginal flange of said closure element and beneath said overhanging seam joint, said sealing band further including an integral inwardly struck tongue formed in the portion thereof engaging over the marginal flange of said closure element and penetrating said flange in locking engagement therewith, whereby to maintain said closure element in sealing position preventing unauthorized undetected opening of the container.

2,317,382
ELECTRICAL FIXTURE
Harvey Hubbell, Long Hill, Conn.
Application June 10, 1941, Serial No. 397,371
9 Claims. (Cl. 173—330)



9. In an electrical fixture, a body of insulating material, an electrical contact in said body, a binding screw on said contact with its head exposed for operation from one side of the body to clamp a wire looped about the screw under the head against the contact, means on the body around which the stripped end of an insulated wire may be bent to form the loop, and a channel in the surface of said body leading from an edge thereof to receive the unstripped end of said wire and being of a length to indicate the length of wire to be stripped for forming said loop.

2,317,383
AUTOMATIC CONTROL SYSTEM FOR DIRIGIBLE CRAFT
Harvard L. Hull, Leonia, N. J., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York
Application January 27, 1940, Serial No. 315,913
26 Claims. (Cl. 244—76)



1. In automatic steering apparatus for dirigible craft, a direction maintaining instrument, means for setting a course relative to the direction maintained by said instrument, a rudder, means for returning the craft to the set course responsive to departure therefrom including a servo system operatively connected to position said rudder, and a controller for said servo system continuously actuated in accordance with a combination of the force due to fluid pressure on said rudder and the rate of change of said force.

2,317,384
STRIP FEEDING AND SEVERING DEVICE
Arthur A. Johnson, Bridgeport, Conn., assignor to Autographic Register Company, Hoboken, N. J., a corporation of New Jersey
Application August 7, 1941, Serial No. 405,846
18 Claims. (Cl. 164—84.5)



1. In a strip feeding and severing device, means for advancing a strip having a longitudinal weakened severing line past a severing position; means retaining the portion of the strip on one side of the severing line against lateral movement toward said line at the severing position; strip-engaging means engaging the other portion of the strip in advance of said severing position, and maintaining said engagement as the strip passes beyond said position; and automatic means for progressively moving said strip-engaging means divergently outward from the severing line incident to operation of the strip-advancing means as the strip moves beyond said severing position, whereby the strip is subjected to transverse tension sufficient to sever it progressively along the severing line at the severing position.

2,317,385
PLASTICIZATION OF SYNTHETIC RUBBER-LIKE MATERIALS
Albert Koch, Cologne-Dunnwald, and Erich Gartner, Leverkusen-I. G. Werk, Germany, assignors to Jasco Incorporated, a corporation of Louisiana
No Drawing. Application March 19, 1941, Serial No. 384,210. In Germany March 20, 1937
6 Claims. (Cl. 260—86)

1. The process which consists in subjecting synthetic rubber-like materials selected from the group consisting of emulsion polymerizates of a butadiene-1.3 hydrocarbon, emulsion copolymerizates of mixtures of butadiene-1.3 hydrocarbons and of emulsion copolymerizates of butadiene-1.3 hydrocarbons with copolymerizable compounds containing a single vinyl group to an oxidizing reaction with free oxygen at elevated temperatures of above about 80° C. in contact with up to about 4% of anti-oxidants thereby substantially improving the plasticity and softness of said materials.

2,317,386
WELL SURVEYING INSTRUMENT
Gottdank L. Kothny, Strafford, Pa., assignor to Sperry-Sun Well Surveying Company, Philadelphia, Pa., a corporation of Delaware
Application March 14, 1942, Serial No. 434,726
6 Claims. (Cl. 33—205.5)



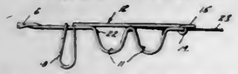
1. A well surveying instrument comprising a casing adapted to enter a bore hole, means for supporting a record member within said casing, means, comprising an electrical circuit, for effecting marking of said record member in accordance with the position of said casing, and means for controlling flow of current in said circuit, said means comprising a battery, and a circuit for drawing heavy currents from said battery so that the current falls off rapidly thereby to effect a controlling action.

2,317,387
DISPERSIBLE DISAZO DYE
Donovan E. Kvalnes, Penns Grove, N. J., and Sanford B. Smith, Hockessin, and Cheves Walling, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 19, 1940, Serial No. 341,304
7 Claims. (Cl. 260—160)

1. A dispersible disazo compound represented by the formula A—N=N—M—N=N—E wherein A is the residue after diazotization of an aryl sulfon-amide of the benzene and naphthalene

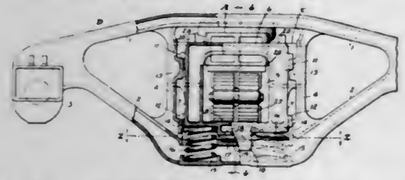
series containing a diazotizable primary amine group, the amido nitrogen of the sulfon-amide group having at least one hydrogen; M represents the residue after coupling and diazotization of an azo dye coupling component of the group consisting of primary arylamines which are devoid of water solubilizing groups and is from the group consisting of the 1-(amino-phenyl)-3-methyl-5-pyrazolones and the primary arylamines of the benzene and naphthalene series; and E is the radical of an azo dye coupling component of the hydroxy benzene series which is devoid of water solubilizing groups.

2,317,388
ROASTER
Samuel Lako, Jr., Chino, Calif.
Application January 23, 1942, Serial No. 428,007
7 Claims. (Cl. 53—5)



1. A roaster comprising a wire frame including front, rear and side frame members, said side frame members being curved downwardly at spaced intervals to form aligned valleys adapted for supporting frankfurters therein, a top of substantially U-shaped wire construction, eyes formed at the ends of the top pivotally connecting the same to one of the frame members, and catches formed from a portion of the top at the free end thereof for releasable engagement with an opposite frame member.

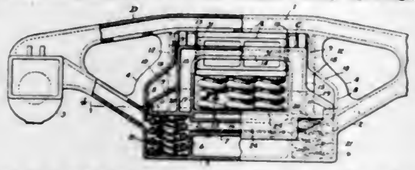
2,317,389
CAR TRUCK
Rudolph Leppla, Davenport, Iowa, assignor, by mesne assignments, to McConway & Torley Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Application March 3, 1941, Serial No. 381,428
7 Claims. (Cl. 105—190)



2. In a car truck, the combination with the side frames, having central openings and vertical guide members at the sides thereof, of a transom having its ends disposed in said openings, said side frames having spring receiving pockets underlying the openings thereof, springs in said pockets to support the ends of the transom, said transom having flanges which overlie the vertical guide members and flanges which straddle portions of the side frame beneath the opening thereof to prevent movement of the side frame longitudinally of the transom.

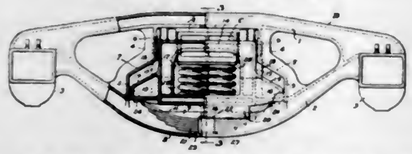
2,317,390
CAR TRUCK
Rudolph Leppla, Davenport, Iowa, assignor, by mesne assignments, to McConway & Torley Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Application March 12, 1941, Serial No. 382,955
24 Claims. (Cl. 105—190)

14. In a car truck having side frames and superimposed sets of supporting and cushioning springs, one of said sets of springs having materially greater yieldability than the other set, the lower springs being supported upon the side frames, a supporting member interposed between the sets of cushioning springs, a car body supporting bolster supported in the region of its end portions upon the uppermost set of cushioning springs, and means for limiting the downward movement of the supporting member carried by the more yieldable set of cushioning springs to



limit the deflection of the latter set of cushioning springs, said limiting means being so disposed as to provide a range of movement for said springs of greater yieldability sufficient to enable the latter springs to support the weight of a car loaded substantially to capacity and to cushion normal service shocks when the car is empty or lightly loaded, the upper springs of less yieldability, bearing the load at all times, whereby they serve to dampen vibrations for a lightly loaded car and to cushion a heavily loaded car.

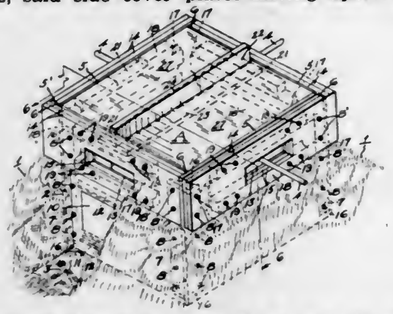
2,317,391
CAR TRUCK
Rudolph Leppla, Davenport, Iowa, assignor, by mesne assignments, to McConway & Torley Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Application April 3, 1941, Serial No. 386,702
5 Claims. (Cl. 105—190)



4. In a car truck, a side frame having top and bottom chords and spaced guide columns connecting said chords, the portion of the bottom chord between said columns being in the form of an upwardly opening channel, a transom having an end portion guided for vertical movement between said columns, a bolster yieldably supported upon the transom, a semi-elliptic leaf spring having its central portion seated in said channel and its opposite end portions supporting the end portion of the transom, and interengaging seats on the transom and bottom chord to limit the compression of said elliptic spring.

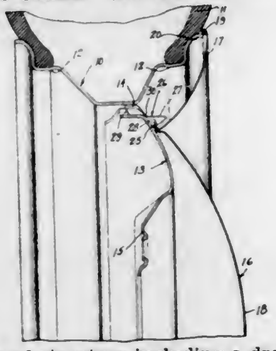
2,317,392
PORTABLE EMPLACEMENT FOR MACHINE GUNS
Royal B. Lord, Fort Riley, Kans.
Application September 27, 1940, Serial No. 358,694
6 Claims. (Cl. 89—36)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

6. A machine gun emplacement comprising pairs of interchangeable base plates containing firing ports, said base plates symmetrically arranged, with diagonally opposite ends of one of said pairs of base plates abutting diagonally opposite ends of another pair, supporting members mounted on said base plates, port covers slidably mounted on said supporting members and adapted to be operated to open and close said firing ports, side cover plates mounted on said base plates, said side cover plates having apertures



therein registering with the firing ports in said base plates, a beam mounted on certain of said port cover supporting members, and bombproof top cover section plates adapted to seat on said beam and certain of said port cover supporting members.

2,317,393
WHEEL STRUCTURE
George Albert Lyon, Allenhurst, N. J.
Application September 29, 1941, Serial No. 412,754
6 Claims. (Cl. 301—37)

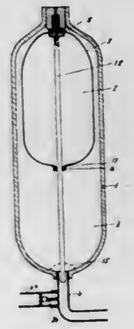


1. In a wheel structure including a drop center rim carrying a tire and a body part having a wheel bolt-on flange, a circular wheel cover member comprising a ring of curved cross section for disposition over an outer side of the rim and a central hub cap for disposition over the wheel body part to conceal the bolt-on flange thereof, the inner edge of the ring being lockseamed to the outer edge of the hub cap to form an inclined flange extending generally radially outwardly and axially inwardly toward the wheel rim, and spring means cooperating with said wheel and said flange to retain detachably said cover member on the wheel.

2,317,394
PROCESS FOR MAKING HARDBOARD
William H. Mason, Robert M. Boehm, and George G. Simpson, Laurel, Miss., assignors to Masonite Corporation, Laurel, Miss., a corporation of Delaware
No Drawing. Application November 18, 1939, Serial No. 305,102
2 Claims. (Cl. 92—39)

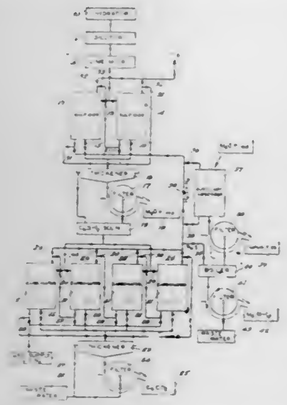
1. The double-activation process of making superior hard fiber board, which comprises the steps of subjecting wood or woody ligno-cellulose material, composed of ligno-cellulose fibers containing the natural fiber encrustation, in small pieces, to the action of steam at a temperature over 200° C. and corresponding pressure maintaining the treatment with steam at such temperature and pressure for a time that it is too long with relation to the steam temperature for production of raw fiber by means of explosion with steam, but not long enough to produce a general breakdown of fiber structure or conversion to a state of predominant plasticity, to thereby produce a material initial activation of the self-bonding properties of the ligno-cellulose fibers, reducing the steam treated fibrous material to greater fineness, removing at least part of the water-soluble constituents, forming a sheet of the fine fiber, drying the sheet, subjecting the sheet to sustained consolidating pressure of at least 500 lbs. per sq. in. in a platen press between pressing surfaces heated to a temperature over 200° C. and maintaining the application of said pressure and temperature to the sheet for a period of time which with pressure and temperature used is sufficient to activate the self-bonding properties of the ligno-cellulose fibers a second time and produce the superior hard fiber board, the time of sustained pressure application being approximately three minutes when platen pressure of 700 pounds per square inch is used with pressing surfaces at a temperature of 210° C.

2,317,395
DEFORMABLE OR ELASTIC ACCUMULATOR
Jean Mercier, Neuilly-sur-Seine, France; vested in the Alien Property Custodian
Application September 13, 1938, Serial No. 229,641
In France May 31, 1938
3 Claims. (Cl. 138—30)



3. An accumulator of liquid under pressure which comprises, in combination, a rigid container adapted to be fed with said liquid, a flexible deformable bag in said container fixed at one end thereto and filled with gas under pressure, said bag being provided with a hole at its other end, a rod rigidly fixed to said container at the part thereof where said bag is also fixed thereto and extending through said bag, said rod and said part of the container being provided with a conduit for forcing gas under pressure into said bag, and an annular elastic reinforcement carried by said bag around said hole thereof, tightly applied on said rod and slidable thereon, whereby the second mentioned end of said bag is guided in said container.

2,317,396
PROCESS FOR SEPARATING CALCIUM VALUES FROM MAGNESIUM VALUES
James A. Murray, Paoli, Pa., assignor to Warner Company, Devault, Pa., a corporation of Delaware
Application January 26, 1940, Serial No. 315,851
4 Claims. (Cl. 23—66)

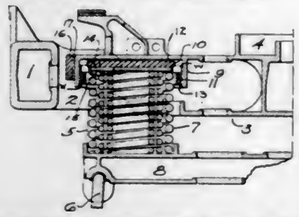


3. A process of separating calcium values from other constituents of a material containing mixtures thereof, comprising converting said material into a lime milk, passing a stream of hydrogen sulfide into contact with the lime milk at a rate in excess of the rate of reaction of hydrogen sulfide with magnesium hydroxide and at a rate at which the hydrogen sulfide is completely absorbed in the presence of unreacted calcium hydroxide, discontinuing said stream of hydrogen sulfide as soon as hydrogen sulfide is evident in the effluent gas, at which point at least all but an immaterial amount of the calcium hydroxide has been converted to calcium hydrosulfide and substantially none of the magnesium hydroxide has been converted to magnesium hydrosulfide, thereafter separating the solution of calcium hydrosulfide from the undissolved constituents, passing a stream of carbon dioxide into contact with the calcium hydrosulfide solution to precipitate calcium carbonate and generate hydrogen sulfide, and returning said generated hydrogen sulfide to the prior sulfiding step.

2,317,397
PROCESS OF CONDITIONING FOODS
Harry A. Noyes, Newton, Mass.
No Drawing. Application February 10, 1938, Serial No. 189,760
8 Claims. (Cl. 99—192)

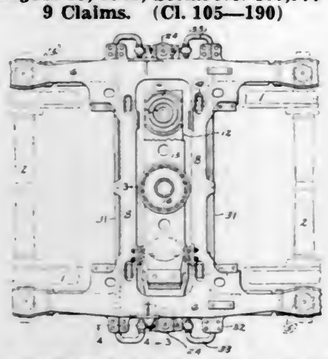
1. A method of flavoring frozen foodstuffs comprising applying a solution of compatible flavoring materials to the foodstuff at predetermined intervals to form successive films of the said material thereon, maintaining the temperature of the foodstuffs at a point below its freezing temperature and above the freezing temperature of the said film over a period of time sufficient to allow each successive film in turn to permeate the frozen foodstuff, effecting uniform distribution of flavoring materials throughout the foodstuff, a substantial concentration of flavoring material being attained therein with no loss of natural flavors of the foodstuff.

2,317,398
RAILWAY TRUCK STRUCTURE
Karl F. Nystrom, Milwaukee, Wis., Edmund S. Beckette, East St. Louis, Ill., and Vernon L. Green, Milwaukee, Wis.; said Beckette assignor to General Steel Castings Corporation, Granite City, Ill., a corporation of Delaware
Application February 15, 1940, Serial No. 318,982, now Patent No. 2,272,426, dated February 10, 1942, which is a division of application Serial No. 237,820, October 31, 1938, now Patent No. 2,241,418, dated May 13, 1941. Divided and this application August 15, 1941, Serial No. 406,976
6 Claims. (Cl. 105—226)



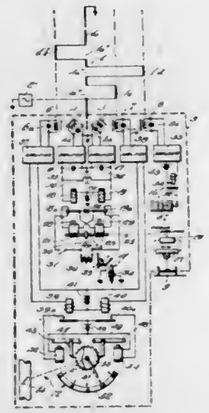
1. A railway truck bolster having a downwardly facing recess for receiving the upper end of a bolster supporting spring, there being a flat pad of rubber-like material in the bottom of said recess for overlying the bolster supporting spring and supporting the bolster, the edge of said pad being spaced from the side of said recess, and there being a ring of rubber-like material mounted on the side of said recess below said pad and independently of said pad and positioned adjacent the periphery of said pad for opposing the side of the spring and receiving thrusts therefrom due to relative horizontal movement of the spring and bolster.

2,317,399
RAILWAY TRUCK
Karl F. Nystrom, Milwaukee, Wis., Edmund S. Beckette, East St. Louis, Ill., and Vernon L. Green, Milwaukee, Wis.; said Beckette assignor to General Steel Castings Corporation, Granite City, Ill., a corporation of Delaware
Application May 6, 1940, Serial No. 333,608, which is a division of application Serial No. 237,820, October 31, 1938, now Patent No. 2,241,418, dated May 13, 1941. Divided and this application August 15, 1941, Serial No. 406,977
9 Claims. (Cl. 105—190)



1. In a railway truck, a frame, a lateral motion bolster which is spring supported near its opposite ends from said frame, a torque rod extending transversely of and journalled in said frame with arms extending towards said bolster, links pivoted on said arms and depending therefrom and swinging transversely of the truck, and pivotal connections between the lower ends of said links and respective portions of said bolster spaced apart laterally of the truck whereby said torque rod and said links stabilize vertical movement of the bolster ends and also accommodate movement of the bolster transversely of the truck.

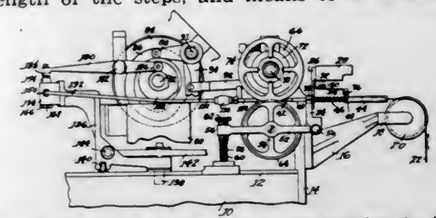
2,317,400
AUTOMATIC STEERING AND CONTROL MECHANISM
Charles L. Paulus and Raymond K. Stout, Dayton, Ohio, assignors of one-half to John B. Brady, Washington, D. C.
Application August 19, 1940, Serial No. 353,290
15 Claims. (Cl. 180—79.1)



1. An electrical steering and control system for mobile devices comprising a conductive element disposed to define a substantially continuous prearranged course and having auxiliary conductive elements of limited extent located at selected positions laterally in association with said prearranged course, inductive means carried by the mobile device and cooperatively related to the conductive element defining said substantially continuous prearranged course, means controlled by cooperation of said conductive element and said inductive means for directing the movement of the mobile device along said course, auxiliary inductive means carried by the mobile device and cooperatively related to said auxiliary conductive elements of limited extent, and means controlled by cooperation of said auxiliary conductive elements and said auxiliary inductive means for controlling the operation of the mobile device in movement along said prearranged course.

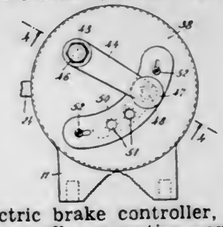
2,317,401
CONTINUOUS FILAMENT BRISTLE FEEDING MECHANISM
William Penn-Gaskill Hall, Berwyn, Pa., and Albert O. Bell, Leominster, Mass., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application December 13, 1940, Serial No. 370,030
20 Claims. (Cl. 300—8)

1. In a device of the class described, means adapted to feed a filament in steps, means effective to vary the lengths of the separate steps, means effective to predetermine the variations in length of the steps, and means to sever short



lengths from said filament in proportion to the lengths of said steps.

2,317,402
ELECTRIC BRAKE CONTROLLER
William F. Penrose, Irvington, N. J., assignor to Empire Electric Brake Corporation, a corporation of Delaware
Application September 20, 1940, Serial No. 357,589
1 Claim. (Cl. 201—56)

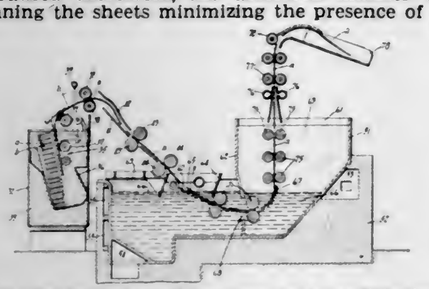


In an electric brake controller, a base plate supporting controller operating parts, a controller lever pivotally mounted on the base plate, a stop member pivotally mounted on the base plate in position to engage the controller lever and limit the travel thereof, a cover enclosing the controller parts mounted on the base plate, a shaft connected to said stop and extending through the cover, an instantly movable stop-adjustment lever connected to said shaft outside the cover, whereby the position of the stop member relatively to the controller lever may be adjusted instantly at will by manipulation of the stop-adjustment lever, and spring-actuated detent means for non-rigidly holding the stop-adjustment lever in any of a plurality of pre-selected positions, said detent means sufficing to hold the stop in position and limit the travel of the controller operating lever upon application thereto of a normal force, but permitting the stop to be forced out of such selected position upon application to the controller lever of a substantially greater than normal operating force.

2,317,403
METHOD OF MANUFACTURING TIN PLATE
Carl G. Preis, New York, N. Y., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application March 7, 1941, Serial No. 382,242
2 Claims. (Cl. 117—114)

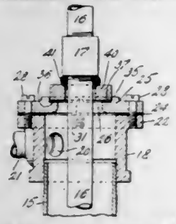
1. A method of preparing tin plate stock for the subsequent cutting of non-rectangular articles therefrom with a minimum of waste material, comprising immersing and continuously passing ferrous stock in individual sheet form having oppositely disposed scroll cut edges through a molten tin bath with the scroll cut edges disposed laterally of the sheets in respect to their direction of travel through said bath, said scroll cut sheets each having a total area corresponding closely to the total area of

the tin coated non-rectangular articles to be produced therefrom, the described manner of tinning the sheets minimizing the presence of a



drip edge in the scroll cut area and conditioning the individual tinned sheets for the subsequent production of said non-rectangular tin coated articles with a minimum of waste material.

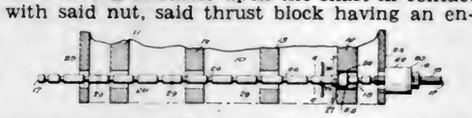
2,317,404
CASING HEAD
Earle W. Rearwin, Buffalo, N. Y., assignor of one-half to Fred Dobmeier, Buffalo, N. Y.
Application November 16, 1940, Serial No. 365,968
3 Claims. (Cl. 166—14)



1. A casing head for a well and through which tubing may extend into the casing, including a collar member adapted to be secured to the upper end of the casing and having an internal diameter not substantially less than the internal diameter of said casing, a cover member removably secured to the upper portion of said collar member to form a substantially gas-tight joint therewith and having a substantially central opening of a diameter materially less than that of said collar member, but larger than the outside diameter of said tubing, means for removably securing said cover member to said collar member, upright guide pins secured to one of said members and arranged in spaced relation about the axis of said opening therein and extending substantially parallel to said axis, the other of said members having holes into which said pins extend when said members are in operative relation to each other for releasably holding said cover member and collar member in operative relation to each other independently of said securing means, whereby said cover member may be lifted from said collar member when said securing means are released, and means for use in forming a seal between said cover member and said tubing.

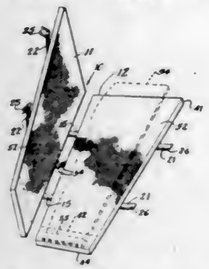
2,317,405
DEVICE FOR REMOVING AND INSTALLING CAMSHAFT BUSHINGS
Paul G. Rutten, United States Army
Application May 6, 1941, Serial No. 392,087
2 Claims. (Cl. 29—88.2)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A device for extracting old camshaft bushings and inserting new camshaft bushings in place of the old ones in a motor block, comprising a common guide means extending the entire length of the motor block, having one end portion threaded, an adjusting nut on the threaded portion thereof, a plurality of reduced portions on said common guide means, said reduced portions being uniformly reduced and regularly spaced apart from each other so that one of said reduced portions will lie adjacent any bearing surface surrounding said guide means, each of said reduced portions being adapted to receive a horseshoe ring, together with a plurality of transverse openings through the guide means, said transverse openings being spaced apart from each other and positioned between said reduced portions and adapted to receive a cross pin, a thrust block shiftable upon the shaft in contact with said nut, said thrust block having an en-



larged portion and a reduced portion, a thrust sleeve contacting said shiftable thrust block adapted to contact the base of said motor block, a bushing holding member adapted to be moved longitudinally on said common guide means to any selected position relative to said reduced portions, said guide means adapted to keep said bushing holding member in alignment during operation, said bushing holding member provided with an enlarged portion for engaging one end of a bushing, an elongated portion of sufficient length and diameter for fully accommodating and internally engaging and guiding a bushing which is engaging and extending from said enlarged portion, said horseshoe ring adapted to prevent the moving of said movable bushing member relative to said guide means and said cross pin adapted to prevent rotation of said guide means during the operation of the device.

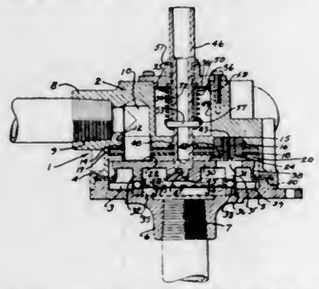
2,317,406
PANTS PRESSER
William H. Ryan, River Forest, Ill.
Application February 23, 1940, Serial No. 320,224
4 Claims. (Cl. 38—71)



1. A pants presser comprising a pair of complemental sections wired for electric heat and between which a pair of trousers is adapted to be pressed, cloth covers extending over substantially the entire juxtaposed faces of said sections, cuff-pressing means adjacent an end of each of said sections and disposed adjacent and overlying a portion of the wiring and shielded by the associated cover, said cuff-pressing means being disposed to press said covers against the opposite sides of the assembled cuffs of the trousers, means resiliently mounting said cuff-pressing means to accommodate cuffs of different thicknesses, and

insulation between said portion of said wiring and said cover and normally substantially spaced from said cover when said presser is not in use, whereby said insulation will not interfere with substantial yield of said cuff-pressing means to accommodate cuffs of different thicknesses.

2,317,407
FUEL COCK
David Samiran, Fairfield, Ohio
Application July 21, 1941, Serial No. 403,375
20 Claims. (Cl. 251—90)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

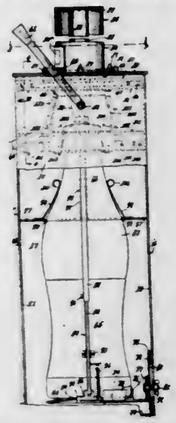


1. In a multiple-way valve, a valve body provided with a cylindrical valve chamber, a valve seat member floatingly mounted in said chamber and having a plurality of ports therein concentrically arranged with respect to the longitudinal axis of said chamber, a plurality of inlet passages in said valve body each in communication with a respective one of said ports, a resilient seal interposed between said valve seat member and said valve body to permit of such floating movement of said valve seat member relative to said valve body, an outlet passage communicating with said chamber, a valve disc rotatable in and rigidly fixed against axial movement with respect to said valve body, said valve disc sealingly engaging said valve seat member under the bias of said resilient seal and having a single opening therein adapted to be rotated into register with any one of the ports in said valve seat member to permit fluid flow from any one of said inlet passages to said outlet passage, and operating mechanism operable from external of said valve body for rotating said valve disc.

2,317,408
METHOD AND APPARATUS FOR PRODUCING AND DISPENSING SANITARY MOUTHPIECES FOR BOTTLES
Wendel M. Schneider, Oak Park, Ill.
Application June 10, 1940, Serial No. 339,632
21 Claims. (Cl. 93—1)

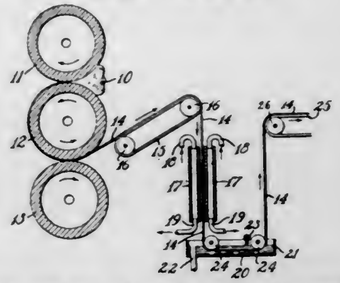
1. A method of applying sanitary mouthpieces to bottles for drinking purposes consisting in taking a preformed annular freely open ended body in the shape of a frustum of a cone, dropping the same around the bottle mouth to frictionally engage externally thereon only at the interior of the body and then pressing portions of the body laterally inwardly only into restricted areas of the outside of the bottle neck by means through which the bodies pass when dropped into position for removal with the bottle.

6. An apparatus for applying sanitary mouthpieces to bottles or the like, comprising a magazine for containing a supply thereof, means therebelow for releasing the blanks for axially feeding and fitting over a bottle mouth, means for checking the blanks and means therebeneath



for receiving and compressing the blanks about the mouth of the bottle.

2,317,409
METHOD FOR STRESS-RELIEVING PLASTICS
John H. Seaton, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application January 5, 1940, Serial No. 312,543
4 Claims. (Cl. 18—48)

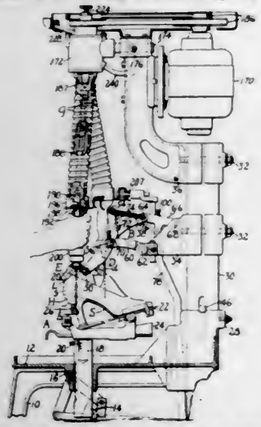


1. The method of relieving the stresses from lengths of anisotropic thermoplastic material, produced by progressive deformation of a mass of the material, which comprises progressively moving the material in a vertical direction through a heating zone in which it is exposed to radiant energy sufficient to raise its temperature to a point at which internal stresses are relieved, the material being out of contact with any supporting structure and substantially free from tension during its passage through the heating zone.

2,317,410
HEEL-ATTACHING MACHINE
Thomas H. Seely, Melrose, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application April 21, 1941, Serial No. 389,547
35 Claims. (Cl. 12—42)

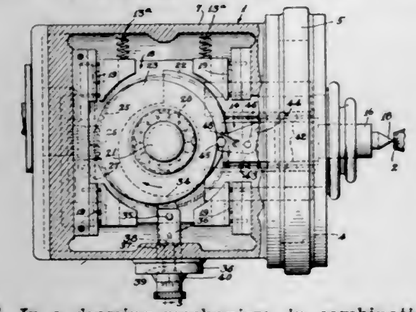
1. In a heel-attaching machine, a support for a lasted shoe and a heel to be attached thereto, a tool for operating upon the work, a work-clamping device including a lever movable into

engagement with the last of the work upon the support and thereupon extending upwardly and



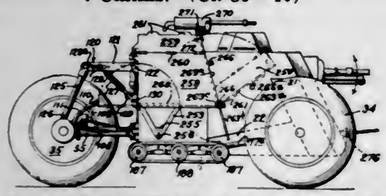
rearwardly from said last, and a mounting for the lever situated above the support.

2,317,411
DRESSING MECHANISM
Harold N. Seyferth, East Detroit, Mich., assignor to Ex-Cell-O Corporation, Detroit, Mich., a corporation of Michigan
Application November 8, 1941, Serial No. 418,299
19 Claims. (Cl. 125—11)



1. In a dressing mechanism, in combination, a support, a dressing tool holder mounted for movement in forward and reverse directions, and means for moving said holder, said means including a lost motion toggle connection for causing the paths of forward and reverse movement of said holder to be non-coincident.

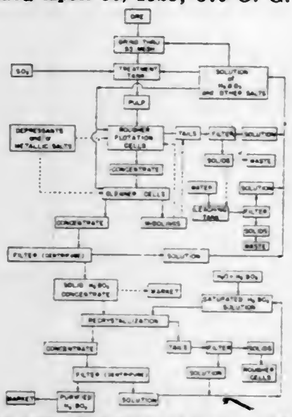
2,317,412
MILITARY TANK
Cleve F. Shaffer, San Francisco, Calif.
Application September 5, 1939, Serial No. 293,369
7 Claims. (Cl. 89—40)



1. In a mobile military tank, an amored body having an operator's compartment provided with a forward wall inclined rearwardly from bottom to top, said forward wall having an opening to receive a gun mount, said body having an inset at a forward portion of each of its side walls, said insets being of lesser length than the height of said side walls and terminating short of the top thereof providing an elongated inset having an upper shoulder whereby said body may be supported upon detachable wheel suspension means mounted in said insets.

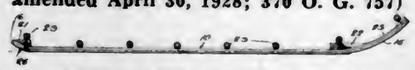
7. In a mobile military tank, an armored body having at its forward portion an operator's compartment of one width and having its rearward portion extended laterally transversely on each side of the body to a greater width than the operator's compartment, said extended portions comprising panniers having a bottom, armored front and exterior side walls, said front wall having hinged mounting relative to said bottom wall whereby said front wall may be tilted forwardly, and means to support the front wall in a forwardly tilted position.

2,317,413
PROCESS FOR THE CONCENTRATION OF BORON CHEMICALLY COMBINED FROM ITS ORES BY AUTOFLOTATION
Francis Keith Shelton, Boulder City, Nev., assignor to the Government of the United States, as represented by the Secretary of the Interior, and his successor or designee
Application September 11, 1940, Serial No. 356,300
4 Claims. (Cl. 209—166)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



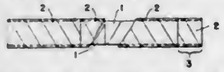
1. In the auto-flotation of boric acid, the step which comprises floating the boric acid in the presence of froth-controlling metallic salts whose cations form insoluble borates, said salts being selected from the group consisting of aluminum and copper salts.

2,317,414
LAMINATED TOBOGGAN
Harvey N. Smith, Washington, D. C.
Application October 28, 1941, Serial No. 416,807
2 Claims. (Cl. 280—18)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



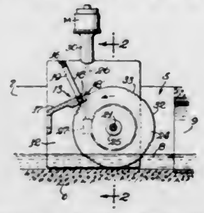
1. A toboggan having front and rear sweeps, said toboggan being constructed of two or more layers of wood so arranged that the grain of the layers lies at right angles to each other, laminated compressed plasticized runners running lengthwise of the toboggan, reinforcing means secured to the toboggan at the beginning of the front and rear sweeps, the layers and runners of said toboggan being united by a plastic.

2,317,415
EXPLOSIVE CARTRIDGE ASSEMBLY
Roscoe B. Smith, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
Application April 24, 1940, Serial No. 331,291
4 Claims. (Cl. 102—24)



1. An explosive device comprising a plurality of tubular explosive cartridges disposed co-axially and with their adjacent ends in abutting relationship and forming a joint therebetween, and a plurality of longitudinally disposed tubular sleeves around said cartridges, said sleeves being disposed with their ends in abutting relationship and forming a joint therebetween, said joints formed between said sleeves being staggered relative to said joints between said cartridges.

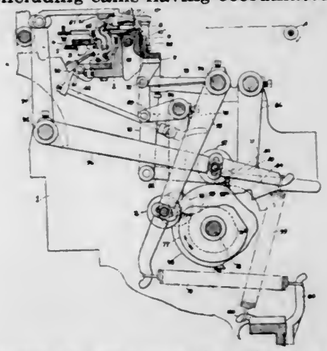
2,317,416
COMMINUTING APPARATUS
Alfred F. Stanley, Freeport, Ill.
Application March 26, 1941, Serial No. 385,271
7 Claims. (Cl. 83—6)



1. Comminuting apparatus comprising, in combination, a horizontal shaft extending across a flow passage for liquid above the normal level of the liquid, a series of generally circular comminuting members mounted on said shaft in spaced relation with their lower edges immersed in the liquid, each of said members having a peripheral cutting edge interrupted at circumferentially spaced points by groups of radially projecting teeth, means for driving said shaft to rotate the immersed portions of the members counter to the flow of liquid in the passage, said teeth acting to engage debris carried by the liquid and to carry the same along with the rotating members, and a comb member extending across the passage above the liquid level positioned to coact with the teeth and cutting edges of the members in comminuting the debris.

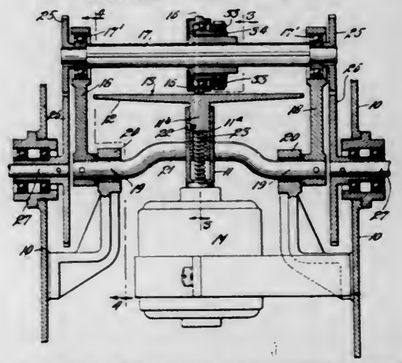
2,317,417
KNITTING MACHINE AND METHOD OF KNITTING
Herbert M. Suess, Philadelphia, Pa.
Application May 7, 1938, Serial No. 206,652
33 Claims. (Cl. 66—110)

1. In a knitting machine, the combination with a rocking needle bar having mounted therein hooked needles with movable catches, a fixed press bar, means for rocking said needle bar and thereby rocking the full length of said needles en masse toward said press bar to operate said catches, of measuring sinkers movable sequentially, and means including a reciprocating slur cock for moving said sinkers successively and consecutively between consecutive needles aforesaid, each sinker forming a kink of yarn into the final form in which it is to be knitted before any succeeding sinker forms a kink of yarn, and means including cams having coordinated eccen-



tric sections for beginning the retraction of said sinkers concurrently with the beginning of the rocking of said needles toward said press bar and immediately after the forward movement of the last of the measuring sinkers and maintaining substantially constant the distance between the yarn engaging surfaces of the sinkers and needles respectively during the initial rocking of the needles toward the press bar to maintain substantially uniform the tension on yarn lying between the sinkers and needles.

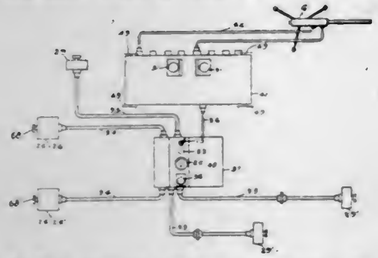
2,317,418
VARIABLE SPEED TRANSMISSION
Antonin Svoboda, Forest Hills, N. Y., assignor to Abax Corporation, New York, N. Y., a corporation of New York
Application March 26, 1942, Serial No. 436,231
6 Claims. (Cl. 74—194)



1. In a variable-speed transmission comprising a friction disc and a friction wheel having its periphery in contact with the face of the disc, a mounting for the friction wheel permitting free movement thereof along its axis and perpendicular to its axis comprising a shaft for the friction wheel extending across the face of the friction disc, a spline connection between said shaft and the friction wheel, a support for the said shaft pivoted on an axis behind the face of the friction

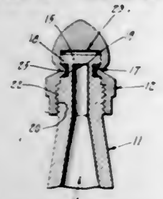
disc and intersecting the axis of the friction disc, and resilient means permitting a slight separating movement between said shaft and the friction disc in the direction of the axis of the friction disc.

2,317,419
FIRE CONTROL SYSTEM
Galen M. Taylor, Cooper, Tex., Lewis R. Bradshaw, Herndon, Va., and Samuel G. Green, Gray, Ga.
Application January 4, 1940, Serial No. 312,381
4 Claims. (Cl. 89—41)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A fire control system comprising in combination, a control box, a gear train mounted in the control box movable proportionally to data to be set upon the training mechanism of a gun, a flexible transmission cable assembly connected with said gear train adapted to transmit motion from the latter to said training mechanism, a data transmitter comprising a variable resistance, a receiver comprising a variable resistance mounted in the control box, means connecting the variable element of the resistance of said receiver to the gear train for movement thereby, means interconnecting the transmitter and receiver into a Wheatstone bridge circuit, and a milliammeter connected across the arms of the bridge and detachably mounted on the control box; whereby data may be transmitted electrically from a station remote from the control box thereto by unbalancing the bridge and mechanically from the control box to the training mechanism by balancing the bridge.

2,317,420
CONTAINER
William E. Taylor, Riverside, Conn., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application December 20, 1940, Serial No. 371,034
5 Claims. (Cl. 220—27)

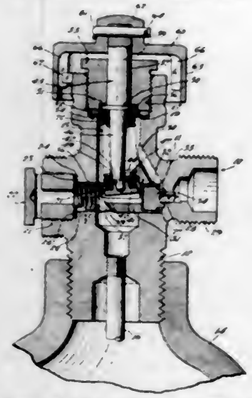


1. A pouring spout and cap combination for dispensing containers, comprising a threaded spout, and a threaded cap therefor, said spout having a break-off weakened part adjacent its outer end terminating in an enlarged portion of increased thickness, said cap having an inwardly extending projection adapted to engage beneath said enlarged portion of the spout adjacent its weakened part, whereupon unscrewing of said cap when initially opening the spout breaks off the latter at its weakened part by a pulling action exerted thereon, to serve as a tell-tale for indicating that the spout has been opened.

2,317,421
WELDING ROD
Nils K. G. Tholand, New York, N. Y.
No Drawing. Application February 27, 1941, Serial No. 380,767
8 Claims. (Cl. 219—8)

7. A welding rod for welding stainless iron or steel including a solid integral member made of iron, and nickel-chromium alloy in powdered form carried by said solid member, said alloy having hydrogen adsorbed therein, the proportions of iron, nickel and chromium in said rod being approximately the same as in the stainless steel to be welded.

2,317,422
VALVE
William A. V. Thomsen, Montclair, N. J., assignor to Specialties Development Corporation, Bloomfield, N. J., a corporation of New Jersey
Application December 31, 1941, Serial No. 425,075
10 Claims. (Cl. 251—31)

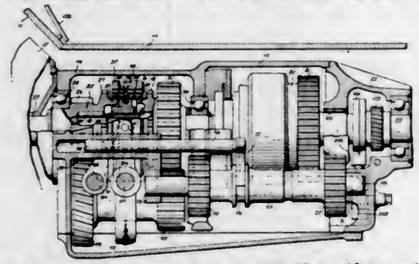


1. In a valve of the class described, the combination of a casing having a shoulder therein, a valve member slidably mounted in said casing, a flange member mounted on said shoulder, a valve stem having a flange rotatably supported on said flange member and having a portion extending into said casing, means for maintaining said flange on said flange member and for maintaining said flange member on said shoulder, a member eccentrically connected to the portion of said valve stem extending into said casing for moving said valve member upon rotation of said valve stem, and a flexible corrugated sleeve enclosing said valve stem portion, one end of said sleeve being secured to said member for moving said valve member and the other end of said sleeve being secured to said flange member.

2,317,423
MOTOR VEHICLE
Jesse G. Vincent, Grosse Pointe, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan
Application November 17, 1939, Serial No. 304,990
1 Claim. (Cl. 74—328)

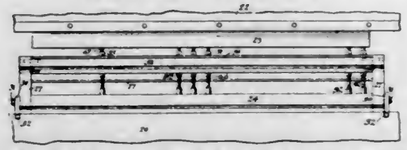
In a driving mechanism for motor vehicles,

change speed gearing including a drive shaft and a driven gear; a tail shaft having two sets of teeth and a bearing surface; reverse driving means including a shaft having gears at each end operable to engage or disengage the gear and one set of teeth on the tail shaft; planetary gearing



including pinions meshing with the other set of teeth on the tail shaft, pinion carrier means fixed to the drive shaft and a sun gear; means operable to hold or release the sun gear; and an overrunning clutch between the tail shaft bearing surface and the pinion carrier means.

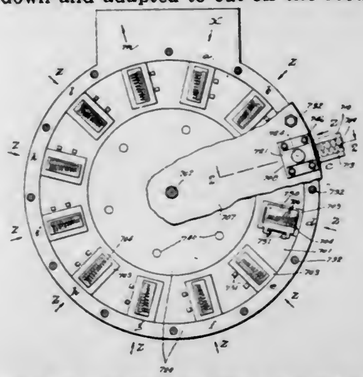
2,317,424
APPARATUS FOR PERFORATING SHEET MATERIAL
George F. Wales, Kenmore, N. Y.
Application March 12, 1942, Serial No. 434,376
19 Claims. (Cl. 164—94)



1. An apparatus for perforating sheet material comprising a holder adapted to be placed between the bed and ram of a press and having lower and upper rails and posts connecting opposite ends of said rails, a perforating unit including a die section adjustable lengthwise on said lower rail and having a die and a punching section adjustable lengthwise on said upper rail and having a punch adapted to cooperate with said die, a gage, and means for adjustably mounting said gage lengthwise on the front and rear sides of said lower and upper rails, including T-grooves arranged lengthwise on said front and rear sides of the rails, and a clamping bolt passing through said gage and having a head arranged in one or another of said T-grooves.

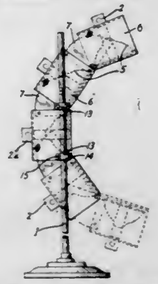
2,317,425
MANUFACTURE OF HARMONICAS
Charles E. Wetzler and Paul F. Boehm, Long Island City, N. Y., assignors to The United States Harmonica Corporation, a corporation of Connecticut
Application February 24, 1940, Serial No. 320,646
In Great Britain February 24, 1939
12 Claims. (Cl. 29—34)

1. In the manufacture of harmonicas, a machine for automatically assembling reeds and plates, comprising a plurality of bolster blocks which are movable step by step through a number of stations and adapted to receive in proper position one carrier plate at a time, to convey it, preferably together with a gage holding the carrier plate on the bolster block, to the said stations where the individual blocks, plates and gages step in alignment with stationary dies or presses for carrying out the assembling operation; a number of slots, exactly corresponding to those existing in the carrier plates, being provided in the bolster blocks and gages; a spring-loaded hold-down forming part of each of the said presses and being adapted to pass through the said slots and to engage a reed fed to a point in the path of said hold-down; at each station a plunger member adapted to pass through the slots of the bolster block and the gage (when stopped in alignment therewith) from the other side; the said plunger being adapted to engage the said reed from the opposite side and thus to allow a clamping action of the hold-down; a punch in each press, associated with the said hold-down and adapted to cut off the reed from



its strip after the reed has been clamped between the said hold-down and the plunger; the said hold-down, the punch and the plunger being adapted to move conjointly, and with the cut-off reed in clamped position, through the said slots of the gage and bolster respectively towards the carrier plate until its plane is reached, the hole in the reed root, if any, being simultaneously threaded by the punch over a corresponding lug of the plate, the punch being preferably adapted then to spread the rivet or lug by pressure or heat; and a cam or equivalent drive mechanism controlling all the motions of the above parts and bringing them back into their initial position after a cycle of operations has been carried out at the different stations during a stop of the conveyor part.

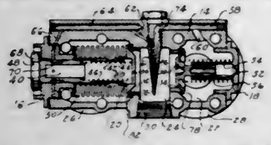
2,317,426
RADIANT HEAT DRYING CONSTRUCTION
Wesley Wilson, Chicago, Ill.
Application April 24, 1941, Serial No. 390,033
5 Claims. (Cl. 219—34)



1. A radiant heat drying construction comprising a plurality of parallel elongated wiring

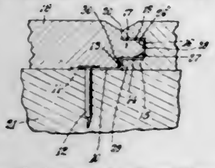
conduits, a plurality of sockets mounted in spaced relation on each conduit for supporting radiant heat sources spaced laterally with respect to said conduit, reflector means for said sources mounted to move as a unit with each conduit for directing a beam-like flood of light from the reflector means on each unit, which beams converge, and means for pivotally connecting said units for relative swinging movement about an axis closely adjacent the adjacent edges of the reflector means on said plurality of units and parallel to said conduits and in front of the general plane of said conduits whereby the conduits separate as the convergence of the beams increases.

2,317,427
VISCOSITY CONTROL VALVE
Weldon Worth, Dayton, Ohio
Application April 26, 1939, Serial No. 270,141
17 Claims. (Cl. 137—144)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



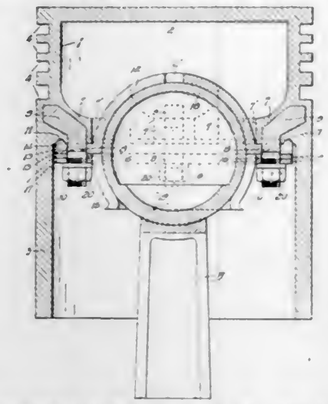
1. In a valve device of the class described, a pair of conduits having a common intake, separate valves for controlling flow through said conduits, a further conduit communicatively connected with said common intake and having a device for establishing a viscosity responsive pressure and operatively associated with one of said valves to regulate the same, the other of said valves serving to limit the pressure at said intake to a predetermined maximum value and including means to compensate for the normal pressure drop increase or decrease with increasing or decreasing flow through said valve to maintain substantially constant the pressure drop across said valve.

2,317,428
WALL TILE CLIP
David B. Anderson, St. Paul, Minn., assignor to Wood Conversion Company, Cloquet, Minn., a corporation of Delaware
Application January 12, 1940, Serial No. 313,485
10 Claims. (Cl. 72—118)



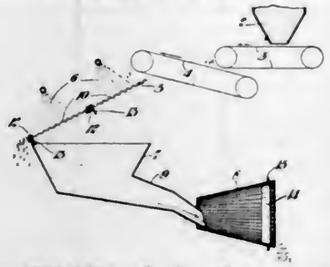
1. A fastener for pieces of wallboard and the like for mounting two such pieces having edges provided respectively with tongue and groove for a matched joint, said fastener comprising a piece of sheet metal having a base adapted to lie flush on a face of a piece of wallboard to be mounted, said base being adapted to be secured to a support on which the pieces of wallboard are to be mounted, said metal having an integral part shaped to follow the outline of the joint between the matched tongue and groove, one portion of the metal being in position to overlie within the joint interface a portion of the piece of wallboard defining the groove, and another portion of the metal being in position to overlie a portion of the said tongue when the said tongue lies in the joint interface, the metal piece terminating at least not beyond the edge of the outline of the joint and at a point to avoid visibility of the metal of the fastener in the joint from the exposed side of the joined mounted pieces of wallboard.

2,317,429
CONNECTING ROD CONNECTION WITH PISTON AND CRANKSHAFT
James Armstrong, St. Louis, Mo.
Application September 5, 1941, Serial No. 409,706
9 Claims. (Cl. 309—20)



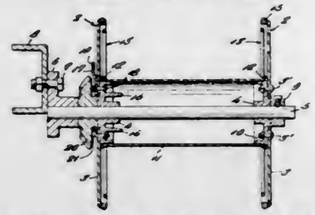
1. An upper socket member for pistons of the class described, said socket member having an outstanding flange at its lower edge, and an annular upstanding bead formed at the peripheral edge of the flange.

2,317,430
APPARATUS FOR SIZING AND CLASSIFYING CRUSHED SLAG MATERIAL AND THE LIKE
Austin L. Ayers, Cleveland, and Burt E. Pheneger, Lakewood, Ohio, assignors to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application August 4, 1940, Serial No. 351,336
2 Claims. (Cl. 209—268)



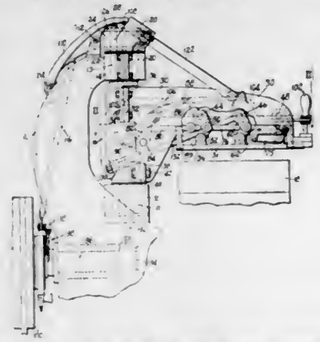
1 In apparatus of the class described for screening and washing crushed slag material and the like, an inclined continuous wire mesh screen over which the material is adapted to flow substantially from the upper end to the opposite lower end thereof and over that end, at least one member arranged transversely of said screen and extending substantially perpendicular to the direction of flow of the material thereover, said transverse member having a portion thereof disposed on the top surface of the screen directly next to the mesh thereof and another portion arranged integral therewith and extending through the mesh of the screen substantially perpendicular thereto and to said first mentioned portion so as to interrupt completely the continuity of the screen, and means for delivering a washing liquid onto the top of said screen and the material as it passes thereover, said transverse member adapted to disrupt the normal flow of the water and slime along the mesh of the screen so as to cause the same to drop therefrom to a point therebelow with the clean washed material passing over the transverse member and delivered over the lower end of the screen free from slime.

2,317,431
REEL
Melvin H. Baal, Ellsworth, Minn.
Application January 26, 1942, Serial No. 428,297
2 Claims. (Cl. 242—124)



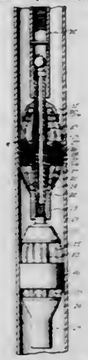
1. In a reel for barbed wire, a spindle adapted to be mounted in fixed position, a pair of annular end members including hubs rotatably mounted on said spindle in laterally spaced relation, one of said members being adjustable on said spindle toward the other, said hub members having tapered annular edge flanges, and a tubular core interposed between said members in surrounding relation to said spindle and having flared ends frictionally fitting over said flanges and retained thereon by adjustment of said one member, and a pair of substantially oval-shaped guards formed of rods on opposite ends of said core, respectively, for preventing the wire from fouling said members, said guards extending from diametrically opposite sides of said core and having intermediate curved portions fitting around opposite sides of said core.

2,317,432
PRESS
Milton H. Ballard, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application February 4, 1941, Serial No. 377,345
5 Claims. (Cl. 164—21)



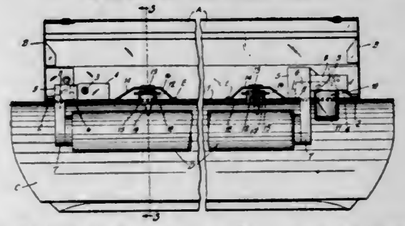
1. A clicking machine, having in combination a frame, a cutting bed, a casting mounted in the frame for angular motion about a vertical axis, an arm secured to the casting, a presser member carried by the arm and arranged for vertical movement relatively to the arm to apply pressure to a die placed on a piece of sheet material on the cutting bed, a toggle mechanism for actuating the presser member, power means for actuating the toggle mechanism, and means for initiating the operation of the power means, one part of the initiating means being disposed in alinement with said vertical axis.

2,317,433
PISTON
Ivan C. Bell, Dallas, Tex.
Application August 22, 1941, Serial No. 407,933
10 Claims. (Cl. 309—4)



8. A swab comprising a support, a pair of thimbles embracing articulated reinforcing means, one part of which secures a portion of the packing member of said swab in sealing relation with the support and another part permitting another portion of the sealing means to expand outwardly in sealing relation with a well casing, complementary reinforcing means partially embedded in and extending beyond the packing member longitudinally and secured in pivotal relation with the articulated reinforcing means, said complementary reinforcing means adapted to be secured by the thimbles, one of which thimbles is adjustable on the support whereby to effect through said complementary reinforcing means the creation simultaneously of a minor and a major axis at opposite ends of the sealing means.

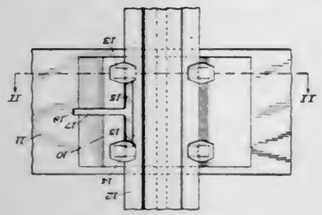
2,317,434
ELECTRIC LIGHTING FIXTURE
David J. Biller, St. Louis, Mo., assignor to Day-Brite Lighting, Inc., St. Louis, Mo., a corporation of Missouri
Application May 28, 1942, Serial No. 444,828
3 Claims. (Cl. 240—78)



1. A fluorescent lighting fixture comprising an elongated wiring housing of substantially in-

verted channel-shaped section with inturned flanges at the lower edges of its side walls, spaced bridge members spanning from side flange to side flange of said housing and sustained thereby, said bridge members having upstanding downwardly opening hollow ribs therein extending crosswise of said housing substantially from side flange to side flange thereof, a reflector of inverted channel-shaped section disposed beneath and closing the bottom of said wiring housing, said reflector having vertical openings in the top wall thereof, threaded studs depending from said bridge members, and nuts loosely retained in the openings in the top of said reflector and extending thereabove into said hollow ribs and engageable with said studs, the retaining means for said nuts comprising heads on the lower ends thereof and washers on the upper ends thereof adapted to be accommodated within said hollow ribs.

2,317,435
TIE PLATE AND SPIKE ASSEMBLY
Paul T. Black, Bellevue, Pa.
Application March 8, 1941, Serial No. 382,353
5 Claims. (Cl. 238—366)

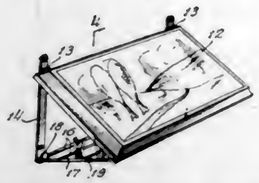


1. Rail-securing means comprising a tie-plate adapted to support a rail on a cross-tie, said plate having square holes therethrough adjacent the edge of at least one flange of the rail, a pair of spikes inserted through said holes, respectively, and embedded in said tie, the shanks of said spikes being square in section, dimensioned to fit snugly in said holes, and twisted in opposite directions, and a strut extending between and engaging the adjacent faces of the shanks of said spikes for preventing "unscrewing" thereof.

2,317,436
COLOR-COATING CELLULOSIC MATERIALS
Ernest R. Boller, Twinsburg Township, Summit County, and Howard E. Hanthorn, Cuyahoga Falls, Ohio, and Robert H. Treadway, Decatur, Ill., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 18, 1940, Serial No. 361,718
9 Claims. (Cl. 117—152)

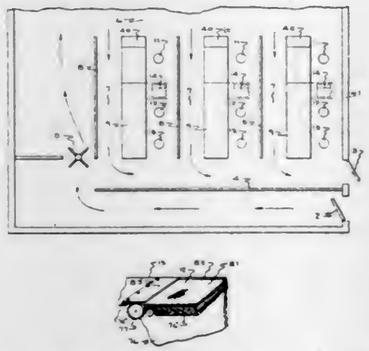
8. In a process for coloring cellulosic materials the steps comprising forming upon a transfer roll, a coating of a silicate-dye composition comprising from about one-half to two per cent of a dye dispersed in a color base comprising an alkali silicate solution having an SiO_2: alkali oxide mol ratio of about from 3 to 4 and a specific gravity of about from 15 to 35° Bé. and the ratio and gravity being so related that the product of their multiplication is in the range from 45 to 120, and effecting contact between this coating and a cellulosic material, whereby a film of the silicate-dye solution is formed substantially on the surface of the cellulosic material and imparts to the product a characteristic color.

2,317,437
CLOTHES RACK
Fred Botta, Astoria, N. Y.
Application May 7, 1941, Serial No. 392,245
4 Claims. (Cl. 312—113)



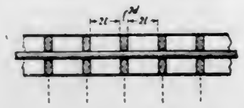
3. A clothes rack comprising a compartment-forming wall frame having a front cover adapted to be hingedly connected to a wall, a collapsible rack within said compartment having one end connected to said front cover adjacent the free end thereof, said rack being collapsed when said front cover is resting against the wall and means for restraining said rack in operative position as said front cover is swung away from the wall.

2,317,438
CHECKING STATION FOR SELF-SERVICE STORES
Herbert N. Bradley, Detroit, Mich.
Application March 22, 1940, Serial No. 325,352
8 Claims. (Cl. 186—1)



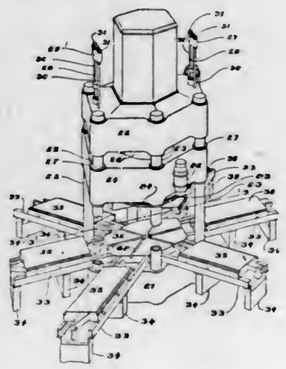
1. In a store or the like wherein articles of merchandise of different classifications are selected by customers and loaded by customers into carrying devices, a counter, movable merchandise conveying means on said counter, said counter having a checking station at which a checking clerk is positioned to check the articles of merchandise, an unloading station at one side of said checking station at which an unloading and classifying clerk unloads articles of merchandise from the carrying devices into association with said conveying means to be conveyed thereby, said merchandise being separable, when in said association, into various classifications so that they may be checked according to their respective classifications, whereby merchandise may be conveyed by said conveying means from said unloading station to said checking station, and a bagging station at the other side of said checking station at which a bagging clerk is positioned to bag merchandise after it has been checked by the checking clerk, said checking and bagging stations being clear to permit the passage of merchandise thereover from the checking station to the bagging station as it is checked.

2,317,439
TRANSMISSION SYSTEM FOR ULTRASHORT WAVES
Herbert Buchholz, Berlin, Germany, assignor to General Electric Company, a corporation of New York
Application August 31, 1940, Serial No. 354,993
In Germany May 26, 1939
4 Claims. (Cl. 178—44)



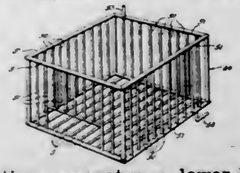
1. A transmission system for ultra-short waves comprising a tubular outer conductor, an inner conductor coaxially arranged with respect to said outer conductor, a plurality of successively arranged solid dielectric disks for concentrically spacing said inner conductors, each disk together with an air space therebetween forming a dividing element of a low pass electric filter, the effective length of said dividing element being the sum of the axial thickness of the dielectric discs each being multiplied by the square root of its dielectric constant and the axial length of said air space, said effective length being smaller than one-half the wave length of the wave to be transmitted.

2,317,440
PRESS
Earl Cannon, Rockville Centre, N. Y., assignor to E. W. Bliss Company, Brooklyn, N. Y., a corporation of Delaware
Application February 25, 1941, Serial No. 380,493
35 Claims. (Cl. 113—38)



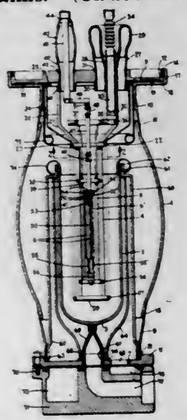
32. A machine tool comprising a pair of members, movable toward each other to perform a mechanical operation upon a blank disposed therebetween, a plurality of blank-carriers disposed in plural non-parallel radial positions about one of said members and adapted to move separately, from different ones of said positions thereabout, into different angular positions relatively to said one member, and a tool-carrying operating head mounted upon the other member of said pair, the said operating head being rotatable relatively to said other member whereby to bring a tool carried by said head into a predetermined operating alignment relatively to a blank-carrier disposed in any one of the mentioned different angular positions.

2,317,441
HEATING APPARATUS
Wilfred G. Chausse, Detroit, Mich.
Application February 7, 1941, Serial No. 377,875
1 Claim. (Cl. 257—248)



In a heating apparatus, a lower header member having an inlet including rectangularly arranged tubular conduits with their ends connected to provide a fluid passageway, a series of spaced conduits connecting opposed tubular header members to allow circulation of fluid through the header and to form a floor portion, an upper header member having an outlet, said upper header including tubular conduits connected at their ends to provide a rectangular fluid passageway parallel with the lower header member, a series of vertical tubular conduits connecting the lower and upper headers on all four sides to space said headers and allow circulation of fluid flow therebetween, certain of said vertical conduits on one side being interrupted to provide a clean-out opening for removing foreign matter from between the conduits forming the floor portion, and a tubular conduit connecting the interrupted vertical conduits to allow fluid flow around said opening.

2,317,442
ELECTRON DISCHARGE TUBE
Georges Paul Chevigny, New York, N. Y., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application April 2, 1941, Serial No. 386,514
In France March 30, 1940
6 Claims. (Cl. 250—27.5)



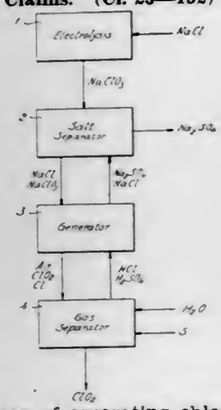
1. An electron discharge device comprising an envelope and an electrode system including two electrodes within said envelope, one of said electrodes having a portion insulatingly sealed to said envelope at one end of said device, and means accurately securing the other of said electrodes in said envelope in a particular relation with respect to said one electrode, said securing means including a flange-shaped portion on said envelope at the end opposite said one end of said device, a plate-like member cooperatingly fit-

ting on said flange-shaped portion, said other electrode being rigidly mounted on said plate-like member, and means sealing said plate-like member to said flange-shaped portion.

2,317,443
PROCESS FOR MAKING CHLORINE DIOXIDE AND FOR SEPARATING THE SAME FROM CHLORINE

George Lewis Cunningham, Niagara Falls, N. Y., assignor to The Mathieson Alkali Works, Inc., New York, N. Y., a corporation of Virginia

Application May 1, 1940, Serial No. 332,641
7 Claims. (Cl. 23—152)



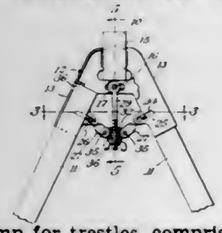
1. The process of separating chlorine dioxide from chlorine which comprises passing a gaseous mixture containing chlorine dioxide and chlorine into contact with sulfur and water.

5. The process of producing chlorine dioxide which comprises reacting in aqueous solution sodium chlorate with a mixture of hydrochloric and sulfuric acid in the presence of sodium chloride, the ratio of sodium chloride to sodium chlorate being not greater than about 1:1, passing the resulting gas mixture containing chlorine and chlorine dioxide into contact with water and sulfur, whereby the chlorine reacts with the sulfur and water to produce hydrochloric and sulfuric acids, and bringing the hydrochloric acid sulfuric acids so formed into contact with fresh sodium chlorate, forming sodium sulfate, chlorine and chlorine dioxide, while recovering the chlorine dioxide substantially free from chlorine.

2,317,444
TRESTLE

Clarence E. Dalton, St. Louis, Mo.

Application May 26, 1942, Serial No. 444,594
2 Claims. (Cl. 304—5)

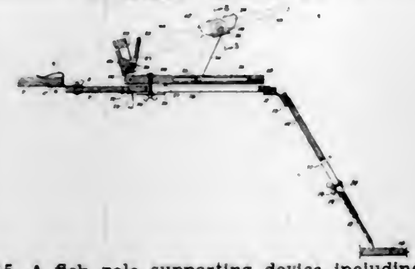


1. A clamp for trestles, comprising two members adapted to receive the upper ends of the legs of a trestle, oppositely arranged inwardly extending overlapped bars carried by the members adjacent their upper ends and adapted to support a top rail, a pivot passing through said bars, ears carried by the lower ends of said members, arms pivotally supported within the ears and sliding transversely of the members, a sliding nut pivotally connecting the inner ends of the arms, an eye bolt loosely mounted upon the pivot of said bars and loosely passing through the sliding nut, and a thumb nut threaded on the lower end of the eye bolt below the sliding nut.

2,317,445
TROLLING DEVICE

Allen M. Davidson and Clarence A. King, South Bend, Ind.

Application September 12, 1941, Serial No. 410,522
15 Claims. (Cl. 248—42)

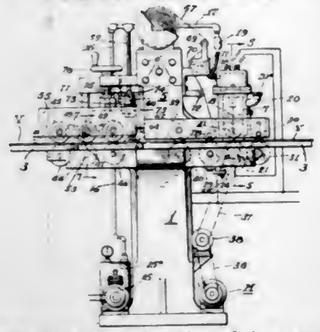


15. A fish pole supporting device including a generally horizontally arranged body portion, a carrier member pivotally mounted thereon for horizontal angular adjustment, a generally U-shaped cradle member having elongated lateral edges forming a seat for holding a fishing reel in upright position, arm means pivotally mounting said cradle on said member, an axially spaced pivotally mounted butt socket on said member for receiving the butt end of a fish pole, whereby said pole is held against rotation and may be readily lifted off of said cradle.

2,317,446
VENEER GLUING MACHINE

Raymond L. Dennis, Grand Rapids, Mich., assignor of one-half to Perkins Glue Company, Lansdale, Pa., a corporation of Delaware

Application February 1, 1941, Serial No. 377,026
7 Claims. (Cl. 144—279)

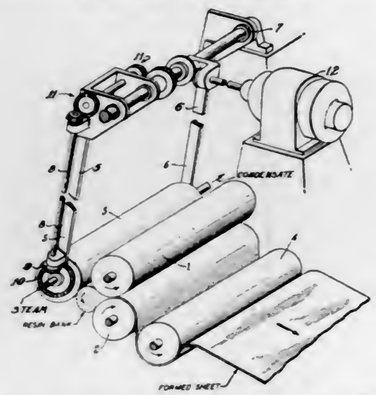


1. A machine for edgewise gluing veneers together comprising in combination, means for feeding veneers to said machine in predetermined spaced apart relation and means for discharging a continuous flow of glue into the space between said veneers comprising a tank for said glue having a discharge orifice directly above said space between the veneers, a valve normally closing said orifice against the discharge of glue therethrough, a solenoid for opening said valve, a member located beneath the orifice and actuable downwardly by the passage of veneers between said member and the orifice, a pair of contacts closeable upon downward movement of the member operable to energize said solenoid and open said valve and permit the discharge of glue therethrough into the space between the veneers.

2,317,447
CALENDER AND PROCESS FOR MAKING PLASTIC SHEETS

Dario Domizi, Parma, Ohio, assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York

Application July 18, 1940, Serial No. 346,131
12 Claims. (Cl. 18—10)



3. A calender for forming plastic sheets of uniform thickness from a bank of unsheeted plastic material comprising, in combination, forming rolls adapted to receive said bank of plastic material in a bight between said rolls, means for rotating said rolls, a control roll for urging said bank into said bight, pivoted arms for supporting said control roll in a position parallel to said forming rolls, said control roll being so constructed and arranged that it is adapted to move in conformity with variation in thickness of the bank of plastic material in said bight of said forming rolls, at least one of said forming rolls having a matte or frosted surface of a metal selected from the group consisting of nickel and chromium.

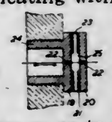
8. Process for forming sheets of uniform thickness and with a dull or matte finish from a polyvinyl partial acetal resin composition, which comprises engaging a bank of an unsheeted mass of said composition in a bight between forming rolls of which at least one has a matte or frosted finish, adjusting the clearance and speed of said rolls so that said bank rotates in said bight, and exerting pressure on such rotating bank to urge the latter into said bight, said pressure being substantially uniform during the entire forming operation.

2,317,448
APPARATUS FOR TREATMENT OF ARTIFICIAL MATERIALS

Henry Dreyfus, London, and Robert Wighton Moncrieff and Frank Brentnall Hill, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware

Application December 31, 1938, Serial No. 248,862
In Great Britain January 5, 1938
1 Claim. (Cl. 68—5)

Apparatus for the treatment of yarns, foils and similar materials with fluid media under pressure during their travel from one point to another, which comprises a substantially closed pressure vessel for fluid medium formed with a small orifice for the passage of the material under treatment through a wall of the vessel and an outlet communicating with a point within the

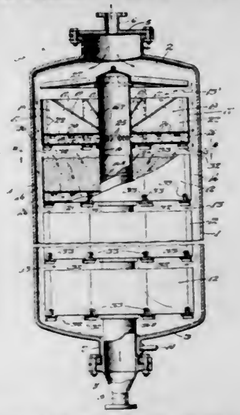


length of the orifice so as to divert substantially all of the fluid medium entering the orifice along a path diverging from that of the material before the material reaches the atmosphere, the length of the path for the material through the orifice being small relative to the length of its path through the vessel.

2,317,449
REACTOR

Bernard J. Flock, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

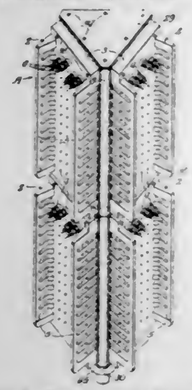
Application October 31, 1941, Serial No. 417,359
10 Claims. (Cl. 23—288)



6. A reactor of the class described comprising, in combination, an elongated, substantially cylindrical shell having upper and lower heads integral therewith, said heads each being provided with an access opening therethrough, detachable closure means for said access openings, a plurality of relatively shallow, substantially cylindrical trays arranged within said shell in superimposed spaced apart relation, the spaces between the trays communicating with an annular space provided between the trays and said shell and a central opening being provided through each of the trays, a conduit closed at its upper end and disposed lengthwise of the shell and tray assembly in the central openings through the trays, means in each of said trays for retaining therein a bed of granular contact material, a space being provided beneath said bed in each of the trays, openings being provided in said central conduit at the level of the last named space in each tray, means preventing the passage of fluid from the spaces between the trays into said central conduit except through said beds of contact material, means for admitting fluid to the reactor and into said annular space about the trays, means for removing fluid from said central conduit and from the reactor, each of said trays comprising a plurality of

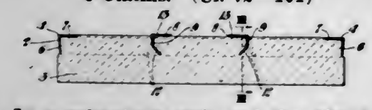
substantially segmental sections of such size and shape that they may be individually passed through one of said access openings, and means permitting the assembly of said sections within the shell to form the trays.

2,317,450
TERMINAL BOX
George R. Folds and Roy M. Schultz, Chicago, Ill., assignors to Cook Electric Company, Chicago, Ill., a corporation of Illinois
Application April 25, 1942, Serial No. 440,486
14 Claims. (Cl. 174—60)



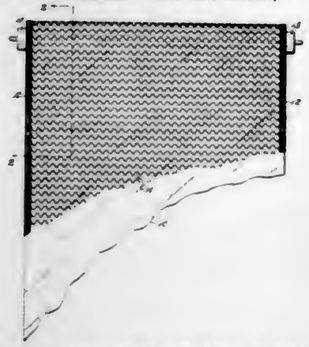
1. A terminal box comprising longitudinal frame members disposed at the corners and having angularly related flanges that extend in planes defining a number of open sides for said terminal box, end frame members for said longitudinal frame members, said end frame members being open centrally and having inwardly extending flanges and lugs at their sides, said flanges lying between said angularly related flanges at the ends of said longitudinal frame members, said lugs being offset inwardly and engaging against the inside faces of said angularly related flanges, end plates carried by said end frame members, and distributing plates secured to said angularly related flanges to form closures for said open sides.

2,317,451
MEANS FOR REINFORCING REFRACTORY FURNACE WALLS AND THE LIKE
Roy T. Giles, Daytona Beach, Fla.
Application August 1, 1940, Serial No. 349,262
6 Claims. (Cl. 72—101)



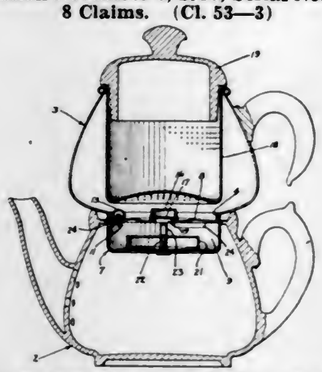
1. In a refractory arch and the like for furnaces of the class described, means for reinforcing the same, consisting of a plurality of angle-iron reinforcing members with some of said members arranged around said arch and having their ends connected to gether with one flange thereof extending downwardly along the sides of the refractory material so as to provide a frame-like portion for the arch and the other of said angle-iron reinforcing members disposed along the outer surface and across the arch with their ends connected respectively to opposed first mentioned angle-iron frame members and having one flange thereof embedded in the refractory material of the arch with the inner edge portions thereof bent alternately in opposite directions so as to securely anchor the angle-iron members in the refractory material, and the other flange of all of said angle-iron reinforcing members lying substantially flush with the refractory material on the outer side thereof and exposed to the atmosphere whereby any heat absorbed by said angle-iron members will be rapidly dissipated to the atmosphere.

2,317,452
BLACK-OUT SHADE
Alfred M. Goodloe, Montclair, N. J., assignor to Metal Textile Corporation, West Orange, N. J., a corporation of Delaware
Application June 30, 1942, Serial No. 449,119
5 Claims. (Cl. 160—238)



2. A flexible composite blackout shade material comprising a sheet of light impervious material faced with knitted metallic fabric, and means for uniting and binding contiguous marginal portions of said sheet and fabric.

2,317,453
BEVERAGE MAKING APPARATUS
Maurice H. Graham, Minneapolis, Minn.
Application November 6, 1939, Serial No. 303,070
8 Claims. (Cl. 53—3)



1. In an apparatus of the class described, a container wherein the beverage is steeped, said container having a valve controlled discharge opening, a cup-shaped member detachably secured to the bottom wall of the container and cooperating therewith to form a chamber, said chamber being in constant communication with the container through a restricted passage, a float in said chamber, and means on said float adapted to engage and unseat the valve, when the float is elevated to a predetermined position by the liquid entering the chamber, whereby the infusion in the container may quickly discharge therefrom.

2,317,454
REINFORCING BAR FOR CONCRETE STRUCTURES
Gerald G. Greulich, Mount Lebanon, Pa.
Application July 15, 1940, Serial No. 345,637
1 Claim. (Cl. 72—111)



A reinforcing bar for concrete structures, comprising a twisted bar having a somewhat flattened cross section such that the width thereof is approximately twice the height, the mid-section of said bar being rectangular in cross-section and the remaining and adjoining portions being substantially oval and of a height which is approximately one-half the total width of said bar as a unit, the width of said mid-section being approximately the same as the height of said adjoining substantially oval portions, the thickness of said mid-section being approximately one-third the width thereof and alternating protuberances on opposite sides of the mid-portion of said bar.

2,317,455
PURIFYING BENZOIC ACID
Ivan Gubelmann, Wilmington, Del., and Roland G. Benner, Carneys Point, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 27, 1940, Serial No. 342,662
11 Claims. (Cl. 260—525)

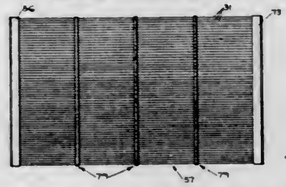
1. In the process of purifying benzoic acid in an oxidation mass, obtained by the catalytic oxidation of toluene in a solvent, the steps which comprise adding a small proportion of sulfuric acid to the crude benzoic acid and then fractionally distilling to recover purified benzoic acid.

2,317,456
FORMALDEHYDE-CROTONALDEHYDE CONDENSATION PRODUCT
William E. Hanford and Richard S. Schreiber, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 28, 1939, Serial No. 301,763
18 Claims. (Cl. 260—602)

1. The process which comprises condensing a formaldehyde substance with crotonaldehyde in the presence of an alkaline catalyst and catalytically hydrogenating the condensation product so as to convert the aldehyde group contained therein to an alcohol group, said reaction being further characterized in that the formaldehyde substance and the crotonaldehyde are the sole reactants present in the condensation reaction.

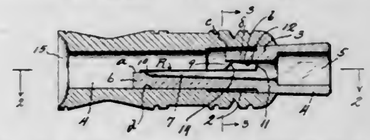
9. The process which consists in condensing a formaldehyde substance with crotonaldehyde in the presence of an alkaline catalyst, said reaction being further characterized in that the formaldehyde substance and the crotonaldehyde are the sole reactants present in the condensation reaction.

2,317,457
METHOD OF MAKING SCREEN CLOTH
Richard D. Heller, Columbus, Ohio
Original application May 23, 1941, Serial No. 394,846. Divided and this application October 15, 1941, Serial No. 415,046
3 Claims. (Cl. 140—7)



1. The method of soldering a cross-strip of a plurality of wires to the wires of an unwoven parallel wire screen panel which comprises the positioning of the cross-strip of wires at one side only of the screen panel by fitting the cross-strip of wires in a shallow flat bottomed rectangular trough in a hot plate with each of the last-named wires in contact with the next adjacent wire, and soldering the said cross-strip of wires to the screen panel by applying sufficient heat to the said hot plate, while the flat bottom of the said trough holds the wires of the cross-strip in contact with the wires of the screen panel and while the spaced-apart sides of the said trough hold the cross-strip with each wire thereof in contact with the next adjacent wire.

2,317,458
WIND SOUNDING DEVICE
George L. Herter, Waseca, Minn.
Application November 21, 1941, Serial No. 420,011
3 Claims. (Cl. 46—180)

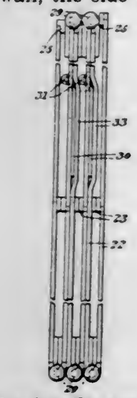


1. A wind sounding device comprising a tubular member open at both ends, a plug engaging within the outer end portion of the member, a rearwardly directed tongue carried by the plug and having a flat face, said flat face being provided therealong with a groove, the plug having an opening therethrough of which the groove is partly in continuation, a lip carried by the plug and overlying the rear portion of the tongue, said tongue and lip providing a slot therebetween, a reed extending along the flat face of the tongue and over the groove therein, and spring tension means carried by the rear end of the reed for coaction with the lip to hold the reed in place.

2,317,459
FOLDING FIRE-ESCAPE LADDER
Carl J. Hillenbrand, Pittsburgh, Pa.
Application April 22, 1941, Serial No. 389,723
1 Claim. (Cl. 228—44)

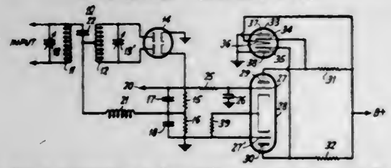
In a fire escape ladder, a plurality of sections each including a pair of flat side rails having a width several times their thickness, spaced apart with their greater dimension lying in a common plane, and a tread bar extending transversely from one rail to the other with its ends engaging the rails flatwise and secured thereto, said sections being disposed end to end, and hinged together, certain of said sections having flat spacing

fingers disposed parallel to the side rails thereof, pivoted thereto and adapted to swing by gravity to extended position so as to engage a wall to space the ladder therefrom when it is suspended alongside the wall, the side rails of the sections



adjacent those having the spacing fingers pivoted thereto, being displaced out of said plane in a direction normal to the width of the rails providing spaces for said fingers between adjacent sections when folded so the rails thereof lie flatwise together.

2,317,460
ELECTRON RAY INDICATING DEVICE
J. Albert Hultquist, Scarsdale, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application July 23, 1940, Serial No. 346,918
10 Claims. (Cl. 250—40)



7. In a circuit as described, a resistor adapted to have a potential varying in polarity and amplitude impressed thereacross, thermionic discharge apparatus having a pair of anode surfaces with luminous material thereon, means for directing a stream of electrons on said surfaces, ray control electrodes adapted to cast triangular shadows on said luminous areas, said triangular shadows having constant heights and bases variable in length in proportion to potentials applied to said ray control electrodes, said bases appearing adjacent each other whereby their equality may be visually determined, means for varying the potential on one of said control electrodes in direct proportion about a mean value to the potential across said resistor and means for varying the potential on the other of said control electrodes in inverse proportion about a mean value to the potential across said resistor, said potential varying means being so adjusted that for zero potential across said resistor said trangular shadows form a diamond-shaped figure.

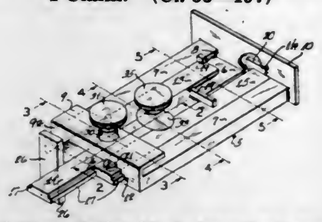
2,317,461
WRENCH
Lucian C. Jackson, Buffalo, N. Y.
Application March 22, 1940, Serial No. 325,409
4 Claims. (Cl. 81—60)

1. A wrench with a handle and an annular head, a socket to rotate in said head, one side of said socket used to tighten a nut and the opposite side used to loosen a nut, ratchet teeth formed by indents therebetween in the periphery of said socket, said teeth indents connected by a curved depression in said periphery, a cylindrical ratchet pin of uniform section throughout its length and a spring, said ratchet teeth indents formed by



two surfaces meeting at right angles to fit the side and end of said pin, said pin directed away from the axis of said socket and cooperating with the said curved depression in the periphery of said socket to yieldingly hold said socket in the head and whereby said socket may be removed from said head by lateral pressure to retract said pin.

2,317,462
STRIKE PLATE GAUGE
Jacob M. Johnson, Fargo, N. Dak.
Application June 11, 1942, Serial No. 446,583
1 Claim. (Cl. 33—197)

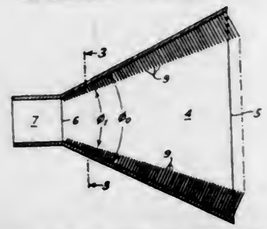


In a device of the kind described, an oblong base plate turned up at its ends to form lips at the front and rear ends thereof, the rear lip being slotted along its base, parallel guide rails on the lateral margins of the upper side of the base plate, the said plate being formed with an elongate work slot adjacent one guide rail and opening out through the lip and the forward end of the plate, three elongated gauge slides inserted through the slot of the rear lip for independent slidable movement within the space between the guide rails, work lugs seated in the upper sides of the forward ends of the three slides, the two lugs immediately at the said work slot being offset toward one another to mutually overlap these two slides, scribe lugs seated in the under sides of the forward ends of the slides at the work slot, and offset to work in longitudinal alignment through said slot, a two-way work lug rigidly and perpendicularly mounted at the rear end of the lateral slide remote from the work slot, means for releasably locking the three slides to move in unison relative to the base plate, and separate means for releasably locking the center slide against movement relative to the base plate.

2,317,463
VULCANIZATION OF RUBBER
Paul C. Jones, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application May 10, 1940, Serial No. 334,389
14 Claims. (Cl. 260—785)

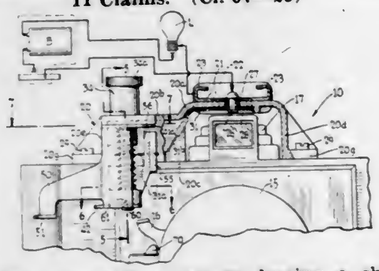
1. The method which comprises vulcanizing a rubber in the presence of a member of the class consisting of fatty acids and their zinc salts, zinc oxide, not over 1% of available sulfur, and a mixture of accelerators, one accelerator being selected from the class consisting of 2-mercaptothiazolines and their zinc salts, and another accelerator being selected from the class consisting of polysulfide accelerators liberating under vulcanizing conditions sulfur available for vulcanization, thiuram sulfides and N,N'-thioamines which do not liberate sulfur under such conditions, and zinc dithiocarbamates.

2,317,464
ELECTROMAGNETIC WAVE HORN RADIATOR
Martin Katzin, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application October 29, 1940, Serial No. 363,248
15 Claims. (Cl. 250—11)



1. A tapered horn electromagnetic wave radiator having rectangular mouth and throat apertures, said horn having a predetermined rate of taper in its vertical and horizontal dimensions and means for effectively decreasing the rate of said taper in at least one dimension for a wave of a polarization substantially parallel to said dimension, said means having no effect on the rate of taper of said dimension for waves polarized at right angles to said dimension.

2,317,465
CAMERA
George Kende, New York, N. Y., and Otto K. Cazin, Hoboken, N. J., assignors to Universal Camera Corporation, New York, N. Y., a corporation of Delaware
Application September 12, 1939, Serial No. 294,442
11 Claims. (Cl. 67—29)

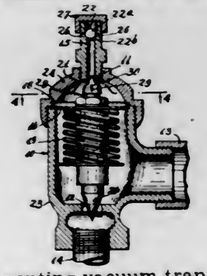


4. For use with a camera having a shutter lever, a photo-flash mechanism comprising a button, a frame, means for mounting said button on said frame for axial movement, said last named means including means for mounting said button for rotational movement between two positions, means to prevent axial movement of said button when it is at one of said positions, a shutter trip arm mounted on said button for integral movement therewith, the actuating portion of said shutter trip arm being radially spaced from the axis of said button, said actuating portion and said shutter lever being operatively disaligned when said button is at said one rotational position, and being operatively aligned when said button is at the other rotational position, an electrical contact member associated with said button, and an electrical contact member associated with said frame, said contacts being electrically connected to a photo-flash unit and normally spaced from each other, said contact members being brought into abutment upon axial movement of said button when it is at the other of said positions.

2,317,466
PROCESS OF PRODUCING EFFECTS ON TEXTILE MATERIAL
Max Kerth, Bad Soden in Taunus, and Alfred Link, Frankfort-on-the-Main-Hochst, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application August 16, 1939, Serial No. 290,498. In Germany July 1, 1939
5 Claims. (Cl. 8—114.6)

1. A process for producing pattern effects on textile material consisting of cellulose fibers and fibers of cellulose derivatives which comprises printing on the material organic sulfuric acid esters and subsequently drying, steaming and rinsing the material.

2,317,467
SELF-VENTING VACUUM TRAP
Irving Kirschenbaum and Harry McCabe, New York, N. Y.
Application March 11, 1941, Serial No. 382,702
3 Claims. (Cl. 236—56)

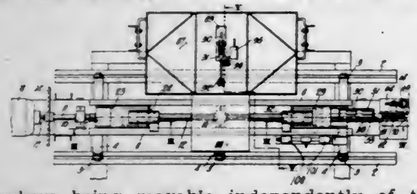


1. In a self venting vacuum trap having a hollow body with a top opening, a tube extending from said top opening, a cap closing the top end of said tube, radial passages extending from said tube at a point below said cap, a one-way valve in said tube at a point below said passages and arranged to permit the egress of air through said passages, and means for testing said passages to determine whether or not air is escaping from said passages, comprising a ring mounted on the bottom of said cap, and a leaf for each of said passages pivotally mounted on the bottom of said ring and depending therefrom in a position in which they are slightly spaced from said tube and extendable across said passages in turned positions of said ring to be oscillated by air escaping from said passages.

2,317,468
APPARATUS FOR MEASURING STRIP
Arthur Michael Krieger, Mount Lebanon, Pa.
Application November 15, 1940, Serial No. 365,842
3 Claims. (Cl. 33—147)

1. Apparatus for determining variations in width of continuous strip material comprising a pair of members movably arranged on each side of the strip for contacting the opposite edges thereof, means for interconnecting said members and for moving them toward and away from each other, said means normally maintaining

said members in remotely spaced position, means operable by the strip for causing said first-named means to move said members into contact with the edges of the strip, one of said



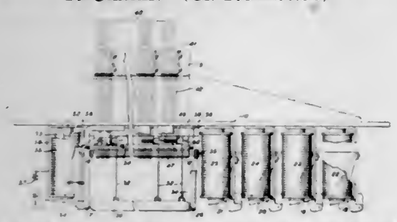
members being movable independently of the other, and means operable by said last-named member for indicating variations in the width of the strip.

2,317,469

SWITCHING DEVICE

Rudolph F. Mallina, Hastings on Hudson, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application July 12, 1941, Serial No. 402,223
10 Claims. (Cl. 179—27.54)



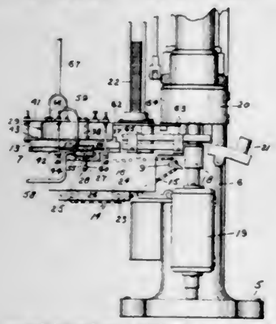
1. A switching device comprising a series of select fingers, code bars, a set of contacts associated with each finger, means controlled by the operation of any of said code bars for tensioning all of said fingers and for causing a particular one of said fingers to be moved into a selected position, said movement being due to the tensioned condition of said finger and depending on the particular combination of code bars operated, and means thereafter operative for actuating said selected finger to control a corresponding set of contacts.

2,317,470

FOOD CANNING

Frederick C. Marx, Cincinnati, Ohio, assignor to The Heekin Can Company, Norwood, Ohio, a corporation of Ohio

Application October 9, 1941, Serial No. 414,386
3 Claims. (Cl. 99—182)



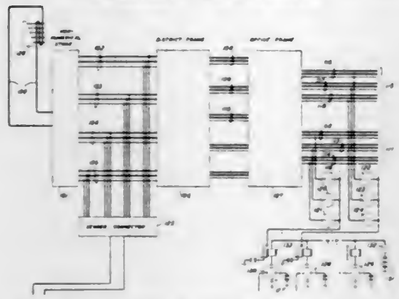
1. The combination with a seamer adapted to seal lids on filled cans of food, the seamer comprising a carrier for moving a series of cans to the sealing mechanism, of a steam injector positioned above the cans, means for actuating the injector to direct a blast of steam into the top of each can just prior to sealing thereof to drive out air and gases from the cans and provide an increased vacuum in the sealed cans, and means synchronized with the movement of the cans for actuating the steam blast during complete movement of the can therebeneath.

2,317,471

SELECTION SYSTEM

Larned A. Meacham, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application February 17, 1942, Serial No. 431,237
8 Claims. (Cl. 179—18)



1. In combination, a plurality of trunks, each having designations comprising a plurality of digits, groups of marking conductors, one for each digit in said designations, responsive devices individual respectively to said trunks, impedance elements, each of said responsive devices being permanently connected through a set of said impedance elements to said groups of marking conductors, each impedance element of a set being connected to the particular conductor of the marking group which represents the value of the digit of the corresponding designation, means for registering the designation of a desired trunk, means controlled by said registering means for applying a given marking potential to the marking conductors, one in each marking group, which represent the digits of the registered designation, the full value of said potential being applied over the particular set of impedance elements which has each one of its elements connected to one of said marked conductors to operate the associated responsive device, circuits for the flow of current through each impedance element of all other sets which are connected to the marked conductors, the flow of current through said elements reducing the potential applied to the associated responsive devices below the operating value of said devices, and means controlled by the operated responsive device for selecting the corresponding trunk for use.

2,317,472

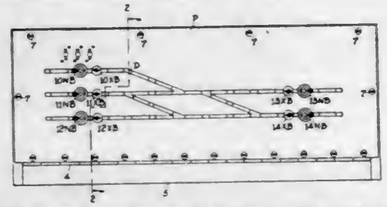
CONTROL MACHINE FOR SWITCH AND SIGNAL CONTROL SYSTEMS

Joseph F. Merkel, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.

Application June 7, 1940, Serial No. 339,360
3 Claims. (Cl. 177—311)

1. In a control panel for switch and signal

control systems having a track diagram composed of several track portions, a translucent insert in each of the portions, such insert being removable from the back of the panel, and a light unit on the back of the panel for each of the inserts comprising a light case secured to the back of the panel and surrounding the insert, a receptacle receivable in the case so as to be quickly detachable therefrom and having an insulated portion with a contact and a wire connected thereto, and a lamp socket adapted to receive a



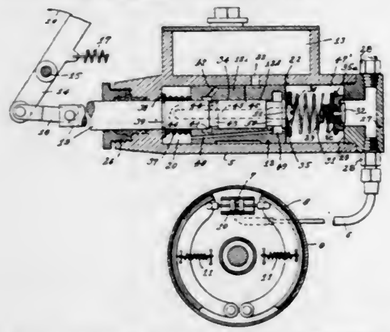
standard base lamp receivable in the receptacle so as to be quickly detachable therefrom having an insulated portion with a contact secured thereto such contact being engageable with said contact of said receptacle so as to complete an independent circuit connection with said wire when such socket is received within said receptacle, whereby the removability of the socket allows replacement of the lamp without disturbing the wire, and the removability of the receptacle allows replacement of the insert.

2,317,473

MASTER CYLINDER FOR HYDRAULIC BRAKING SYSTEMS

Kay Miller, Rockford, Ill., assignor to The Atwood Vacuum Machine Company, Rockford, Ill., a copartnership composed of Seth B. Atwood and James T. Atwood

Original application February 2, 1940, Serial No. 316,896. Divided and this application October 2, 1941, Serial No. 413,335
14 Claims. (Cl. 60—54.6)



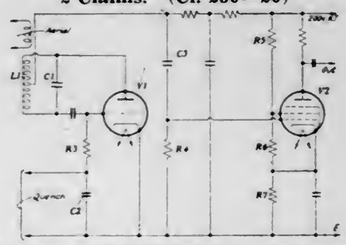
1. In a hydraulic brake system, a master cylinder having one or more conduits for conducting operating fluid to and from the discharge end of a bore therein, a main piston having a working fit in said bore, manually operable brake operating means, a secondary piston directly operable by the latter of smaller diameter than the main piston and slidable in a second bore in said main piston so as to displace fluid from the discharge end of the first mentioned bore, a reservoir for operating fluid, means providing restricted communication between the reservoir and said first bore at a point in front of the main piston in its retracted position, other means providing communication between the reservoir and said first bore behind said main piston, said means including means for cutting off such communication upon movement of the secondary piston forwardly relative to the main piston, means for establishing communication through the main piston between the space in the bore in front of said piston and the space in the bore behind said piston, said means including means normally cutting off such communication but opening such communication upon forward movement of the secondary piston relative to the main piston, and spring means operatively connecting the main piston with the secondary piston to move forwardly together but permit forward movement of the secondary piston relative to the main piston, said spring means being yieldable to permit forward movement of the secondary piston relative to the main piston when the operating fluid offers a predetermined resistance to forward movement of said main piston, the said pistons constituting the sole means for displacing operating fluid from said first bore.

2,317,474

SUPERREGENERATIVE RECEIVER

William Alan Montgomery, London, England, assignor to International Standard Electric Corporation, New York, N. Y.

Application June 6, 1941, Serial No. 396,814
In Great Britain June 25, 1940
2 Claims. (Cl. 250—20)



1. A receiver of modulated carrier waves comprising a super-regenerative wave detector wherein the quench frequency is sufficiently low to allow the oscillation to build up to saturation value before being quenched followed by a low frequency amplifier the anode current of which is an exponent of the grid voltage over the working range of grid voltages.

2,317,475

SHOE BOTTOM UNIT AND METHOD OF MAKING THE SAME

Thomas C. Morris, Belmont, and Frank S. Gregory, Jr., Burlington, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

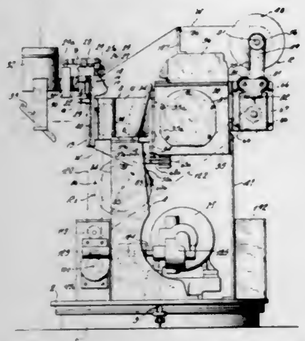
Application November 5, 1941, Serial No. 417,904
46 Claims. (Cl. 12—146)



30. That improvement in methods of making bottom units for shoes which consists in providing a shank piece of relatively stiff, rigid fibrous material which corresponds in outline to the shank and heel portions of an insole and has been molded to conform approximately in shape to the bottom of a last, the material of said shank piece being of a nature which permits it to be rendered pliable again, securing the shank piece

to an insole on the bottom of a last, and molding the insole into accurate conformity with the shape of the last bottom while simultaneously rendering the shank piece pliable and remolding it into conformity with said last bottom.

2,317,476
PROJECTION APPARATUS
David F. Newman, Mountain Lakes, N. J., assignor to Trans-Lux Corporation, New York, N. Y., a corporation of Delaware
Application February 14, 1941, Serial No. 378,892
5 Claims. (Cl. 88—24)
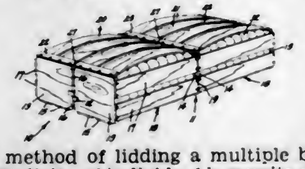


1. A projection apparatus including a source of light for illuminating a projection field, an objective lens focused on said projection field, means for drawing a character-bearing web through said projection field, said last named means comprising a motor, a shaft rotated thereby, a second shaft, a plurality of clutch units operable individually to rotate said second shaft by said first shaft at any one of a plurality of different constant speeds, a control station, and means at said station for initiating operation of said motor and for selecting that clutch unit which is to connect said shafts.

2,317,477
PORTABLE HEEL PRESS AND DRIER
Kenneth Afton Nutt, Delaware, Ohio
Application July 22, 1942, Serial No. 451,915
2 Claims. (Cl. 12—48)



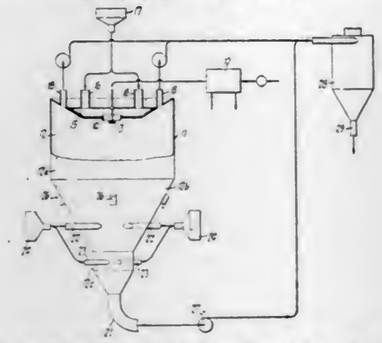
1. A portable machine for holding, pressing and drying shoe heel blanks formed of superimposed lifts freshly cemented together and/or varnished, comprising a frame, a manually rotatable rotor horizontally journaled on said frame, said rotor comprising circumferentially arranged heel blank racks, each rack consisting of a stationary plate and a movable plate spring pressed toward the stationary plate for clamping a plurality of heel blanks with the plates engaging only the upper and lower ends of the heel blanks, positioning means for holding the rotor in a selected position of rotation, and treadle-operated means for operatively engaging the movable plate of the corresponding rack to move the movable plate in a direction away from the stationary plate to enable removal and replacement of one or more of the plurality of heel blanks from the rack, said rotor comprising a hub, spokes radiating from said hub, at least one circumferentially extending rod reaching between each adjacent pair of spokes, said stationary plate being secured to one of the spokes, and said movable plate being supported for movement on said rod, and expanding spring means compressed between the movable plate and the other adjacent spoke.

2,317,478
LID FOR MULTIPLE BOXES AND METHOD OF APPLYING THE SAME
Walter Hale Paxton, also known as Hale Paxton, deceased, late of Riverside, Calif., by Geraldine Paxton and H. S. Nicks, executors, Riverside, Calif., assignors to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application April 29, 1940, Serial No. 332,320
5 Claims. (Cl. 1—10)



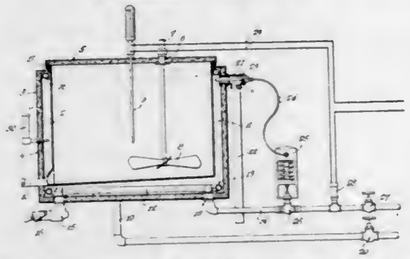
1. The method of lidding a multiple box having a multiplicity of individual box units arranged on opposite sides of a given dividing line, each of said units being over-filled with perishable farm produce, which comprises: applying to said box a unitary lid adequate, when divided, to supply individual covers to said box units and weakened along the aforesaid line; pressing end portions of said lid and portions adjacent said line downwardly into contact with said box to arch said lid between said portions upwardly over said farm produce; and fastening to said box the lid portions contacting the same.

2,317,479
CORN SUGAR PRODUCT AND METHOD
David D. Peebles, Berkeley, and Paul D. V. Manning, Berkeley Woods, Calif., assignors to Golden State Company, Ltd., San Francisco, Calif., a corporation of Delaware
Application January 27, 1940, Serial No. 315,912
4 Claims. (Cl. 127—30)



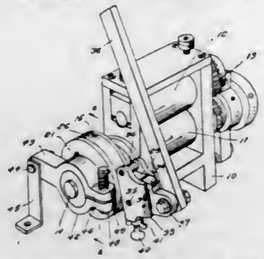
3. In a method of the character described, rapidly heating a concentrated corn starch conversion syrup to a temperature of from about 200 to 300° F., the syrup having a concentration of solids of the order of 75% and having a reducing sugar content calculated as dextrose of approximately 30 to 55% and a maltose content ranging from approximately 35 to 45%, atomizing the hot concentrated syrup and enveloping the atomized particles in a drying gas whereby the atomized particles are instantaneously converted to dry solid form.

2,317,480
PASTEURIZER TEMPERATURE CONTROL
Norman J. Peters, Fond du Lac, Wis., assignor to Damrow Brothers Company, Fond du Lac, Wis., a corporation of Wisconsin
Application October 9, 1940, Serial No. 360,363
2 Claims. (Cl. 257—2)



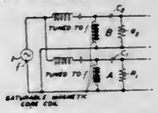
2. The combination of an inner container containing a liquid, an outer container spaced from said inner container to form a space for a heating medium, means for introducing steam into said space as a vapor to heat the walls of the inner container so as to bring liquid therein to a pasteurizing temperature, said outer container having a vent passage above the level of any condensate that might collect in said space and through which steam vapor from said heating space is free to pass to atmosphere, a thermo-responsive member disposed in said vent passage in the path of vapor flowing therethrough, and a regulating valve for the supply of steam to said chamber operatively connected to said thermo-responsive member.

2,317,481
FRICTION FEED
Carl G. Peterson and Erick B. Peterson, Providence, R. I.
Application February 26, 1941, Serial No. 380,619
5 Claims. (Cl. 74—164)



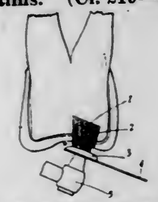
1. In an intermittent feed, a rotatable shaft, a member locked to said shaft and having an annular friction grip surface, an annular split ring of resilient material engageable with said friction grip surface, the split ends having extensions extending therefrom in spaced adjacency, one extension having a hinge pin, a movable block swingingly mounted on said hinge pin and having a portion engageable with the other extension, whereby turning movement of said block towards said other extension initially engages said portion with said other extension to force said extensions towards each other for gripping engagement of said split ring with said friction grip surface, and then produces a forward movement thereof, and means on said block for limiting the engaging movement of said portion with said other extension.

2,317,482
WAVE GENERATING SYSTEM
Eugene Peterson, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 31, 1941, Serial No. 425,087
7 Claims. (Cl. 172—281)



7. A system for supplying efficiently one group of frequencies at a desired power level and a second group of frequencies considerably higher than those of said one group at an appreciable but lower power level, all frequencies in both groups being harmonics of the same fundamental frequency, said system comprising a single source of sinusoidal waves of said fundamental frequency and two harmonic generators each comprising a non-linear inductance, a primary circuit including said non-linear inductance, tuned to said fundamental frequency, connected across said source, a secondary circuit including a highly resistive impedance and a capacitor in series, connected across said non-linear inductance, the non-linear inductance and the elements in the secondary circuit of one harmonic generator being relatively proportioned so that the generator produces a band of harmonics of said fundamental frequency having substantially said desired power level over the frequency range of said one group, the non-linear inductance and the elements in the secondary circuit of the other harmonic generator being differently relatively proportioned so that the latter generator produces a band of harmonics of said fundamental frequency having said appreciable but lower power level over the frequency range of said second group, and means for taking off the produced harmonics from the secondary circuit of each harmonic generator.

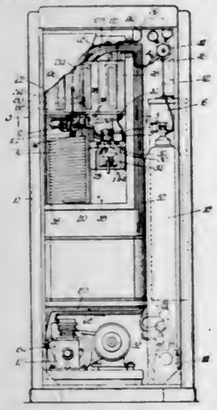
2,317,483
METHOD OF WELDING, SOLDERING, AND FUSING METALS TOGETHER
Alexander Rakos, London, England
Application October 13, 1938, Serial No. 234,794
In Austria and Germany October 14, 1937
9 Claims. (Cl. 219—10)



1. In a method of uniting pieces of a work, such as a denture, of metal by means of addi-

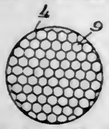
tional metal which is freely exposed to the outside, heated and caused to weld adjacent portions of said pieces also being exposed to the outside, the steps of arranging additional metal of a melting point at least as high as that of those pieces close to and on the exposed side of said portions, supplying from without concentrated and localized heat sufficing to melt said additional metal and heat it rapidly to a temperature considerably above the melting temperature of said portions exclusively to said additional metal from said exposed side, thereby melting said additional metal and portions, and cooling said melted additional metal and portions so that they coalesce homogeneously and form a weld between said pieces.

2,317,484
COOLING SYSTEM FOR BEVERAGE VENDING MACHINES
William E. Richmond, Kenilworth, and Arthur D. Ames, Galesburg, Ill., assignors to Automatic Canteen Company of America, Chicago, Ill., a corporation of Delaware
Application April 14, 1941, Serial No. 388,350
4 Claims. (Cl. 62—141)



1. A cooling assemblage for a beverage vending machine having ingredient storage means, a mixing assembly, and a conduit connecting the ingredient storage means to the mixing assembly, comprising a refrigerating mechanism, means for storing refrigeration during inactive periods of the vending machine and means for concentrating the refrigerating capacity of said refrigerating mechanism on a part of said conduit near the mixing assembly during a period of vending activity.

2,317,485
BRUSH
Theodore H. Rider, Hinsdale, Ill., assignor to The Pepsodent Co., Chicago, Ill., a corporation of Illinois
Application April 27, 1940, Serial No. 331,957
2 Claims. (Cl. 15—167)



2. In a tooth brush, a body portion having formed therein a plurality of tuft-receiving holes, a tuft of bristles in each hole, each tuft consisting of at least six single length bristles in face to face contact with each other in their respective hole, each of said bristles having at least three angularly arranged faces and having a plurality of scraping portions, those portions of the bristles within said holes each having a plurality of contiguous flat faces extending entirely around its perimeter in sequence, said flat faces being so constructed and arranged that the bristles are packed together to substantially eliminate interstitial spaces between the bristles, the bristles being such that every side of those portions within the holes will have a flat face to contact with an adjacent flat face of the adjacent bristle, said bristles being of such stiffness as to effect scraping.

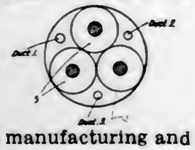
2,317,486
PRODUCTION OF ARTIFICIAL STRAW
George Schneider, Montclair, N. J., assignor to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application August 10, 1939, Serial No. 289,393
10 Claims. (Cl. 18—54)

1. In a process for the manufacture of artificial straw-like materials, the steps of impregnating a sliver containing thermoplastic derivative of cellulose staple fibers with a solution of plasticizer in a volatile solvent therefor which is a non-solvent for the thermoplastic derivative of cellulose, applying pressure to said plasticized sliver while in a plastic condition, and drying the resulting product at a temperature of from 70 to 130° C., whereby there is obtained an artificial straw-like product of increased water-resistance, toughness and pliability.

2,317,487
IMPREGNATION OF FIBROUS MATERIALS
Erich Schuelke, deceased, late of Saddle River, N. J., by Annelotte Schuelke, administratrix, Saddle River, N. J.
No Drawing. Application February 24, 1941, Serial No. 380,314
7 Claims. (Cl. 117—167)

1. In the art of impregnating of fibrous materials those steps which consist in adding to a mixture of polymerized fatty acids and polymerized fatty acid esters an amount of polyhydric alcohols substantially sufficient to esterify all the free fatty acids contained in said mixture; in esterifying at first only a part of said free fatty acids with said polyhydric alcohols to obtain a viscous oil; in impregnating the fibrous materials to be treated with said viscous oil; in solidifying said oil by subjecting the impregnated materials to a baking process to substantially finish the esterification of the free acids contained in said mixture.

2,317,488
ELECTRIC POWER CABLE
Thomas Robertson Scott, London, England, assignor to International Standard Electric Corporation, New York, N. Y.
Application February 28, 1940, Serial No. 321,250
In Great Britain March 14, 1939
4 Claims. (Cl. 154—2.23)



1. Method of manufacturing and impregnating

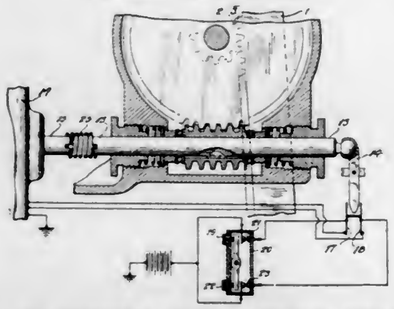
an electric cable of the solid type which comprises providing within the outer sheath of said cable insulation an impermeable duct means formed of insulating material provided with predetermined longitudinally spaced openings, and impregnating said insulation by injecting oil into said duct means under pressure whereby oil is forced out from said openings to impregnate the insulation adjacent to, and between said openings, and thereafter injecting into said ducts an insulating compound which slowly dissolves the walls of said duct means and forms a barrier there.

2,317,489
INCENDIARY BOMB TRAP
William C. Scull, Darling, Pa.
Application June 5, 1942, Serial No. 445,934
1 Claim. (Cl. 294—55)



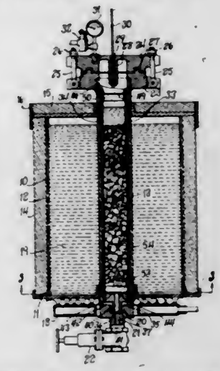
In a device for handling incendiary bombs, a pole-like handle, an elongated rectangular box structure fixed to one end of the handle to extend lengthwise across the same and having a hinged downwardly closing front door, means to yieldingly close said door comprising a bar extending along the bottom edge of the same beyond the ends of said structure, a pair of coil springs at opposite ends of the structure attached to said structure and to the opposite ends of said bar, and means to open the door comprising a pivoted lever upstanding from said handle, a bell crank pivotally mounted on top of said structure in upstanding position, a rod operatively connecting said lever to one arm of the bell crank, and a link operatively connecting the other end of the bell crank to the door in front thereof.

2,317,490
WINDOW REGULATOR
Emory Glenn Simpson, Detroit, Mich., assignor to Ternstedt Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application July 26, 1941, Serial No. 404,123
1 Claim. (Cl. 268—124)



In an electrically operated window regulator, the combination of window lifting mechanism, a worm gear for operating the same, a housing therefor, a worm engaging the worm gear, a shaft for the worm slidable and rotatable in said housing, a pair of nuts threaded into said housing and rotatably and slidably supporting said shaft, one at each end of the shaft, collars slidable in said housing, one engaging around the shaft at each end of the worm, a thrust bearing between each collar and each end of the worm, a spring between each nut and each collar, a switch arm connected to move with the shaft and worm when they move longitudinally, motor switches arranged to be operated when the switch arm moves, an electric motor having a shaft, a coiled spring connecting the end of the shaft with the end of the worm shaft to relieve the motor from shock when the window lifting mechanism is overloaded and to permit some misalignment of the two shafts, the said nuts being adjusted to put stress upon the said springs to ordinarily hold the worm in central position but when the lifting mechanism becomes overloaded or stopped said springs allowing the worm to travel on the worm gear teeth and move the switch arm to open one of said switches and thereby stop the motor.

2,317,491
RECLAIMING OF RUBBER
Haig Solakian, New Haven, Conn.
Application April 1, 1941, Serial No. 386,255
5 Claims. (Cl. 18—2)



1. The process of reclaiming rubber from waste rubber, comprising: submitting the waste rubber to treatment by immersion in water at devulcanizing temperature near but not over 240° C. and at pressure automatically developed by the water at such temperature.

4. Apparatus for reclaiming rubber from waste rubber, comprising: a pressure container having an opening through which an inner container may be passed, and closeable by a pressure-cover, and adapted to hold water at a devulcanizing temperature of considerably more than 100° C. and under pressure at least as high as necessary to maintain the water in liquid condition; an inner container removably positioned in said pressure container and adapted to contain rubber to be reclaimed and water; opening means adjacent the lower ends of each of said containers for permitting removal of substantially all the water which is in liquid condition while the temperature of the water and rubber is considerably above 100° C. and while the pressure on the rubber is considerably above atmospheric pressure; said inner container being sufficiently smaller than the inside of said pressure container to provide a space between the walls of said inner and pressure containers; and said inner container having temporary sealing means to temporarily seal the opening means adjacent its lower end

until said inner container has been inserted into said pressure container and said pressure-cover has been closed.

2,317,492
MANUFACTURE OF ARTIFICIAL TEXTILE YARNS OR FILMS

John Bamber Speakman, Far Headingley, Leeds, and Norman Henry Chamberlain, Headingley, Leeds, England, assignors to Cefoil Limited, Maidenhead, England, a British company

No Drawing. Application December 12, 1941, Serial No. 422,700. In Great Britain November 14, 1940

18 Claims. (Cl. 18—54)

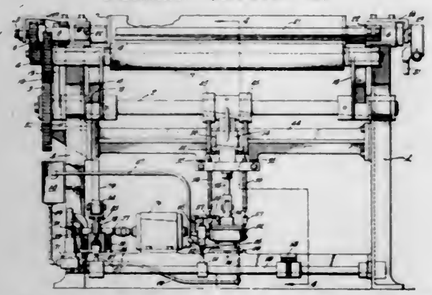
1. A process for the production of alkali-resistant alginic materials in a thin extended form, consisting in first extruding an alkali-alginate solution into a coagulating bath so that it is coagulated in a state which is non-resistant to alkali and thereafter converting it at least in part to beryllium alginate by treatment with a solution of a beryllium salt.

2,317,493
IRONING MACHINE

Frederick S. Stout, Cynwyd, Pa., William G. Bond, Holly Oak, Del., and Lawrence A. Ladner, Camden, N. J., assignors to F. F. Slocomb Corporation, Wilmington, Del., a corporation of Delaware

Application July 24, 1941, Serial No. 403,922

9 Claims. (Cl. 149—23)



1. In an ironing machine, a heated roll, a parallel pressure roll, and means for relatively advancing and retracting said rolls into and out of pressure engagement, said means comprising a rock shaft having arms respectively supporting opposite ends of one of the rolls, said rock shaft and said arms forming the sole supporting means for said one roll, and means for applying turning torque to said shaft, said means comprising a power source and transmission means operatively connecting the said source with the shaft at a point on the latter intermediate and approximately equidistant from said arms.

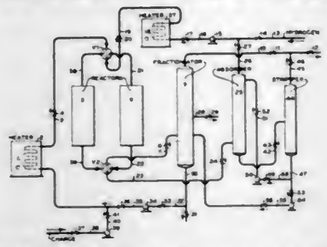
2,317,494
REACTIVATION OF SPENT CATALYSTS

Charles L. Thomas, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application September 9, 1940, Serial No. 355,934

3 Claims. (Cl. 196—52)

2. A process which comprises subjecting hydrocarbon oil to conversion in a reaction zone in the presence of a cracking catalyst comprising silica and alumina and containing a minor proportion of a hydrogenating catalytic component, maintaining the reaction temperature during said conversion in the approximate range of 500–900° F., thereby depositing on the catalyst hydrocarbonaceous matter capable of being hydrogenated with resultant formation of more valuable hydrocarbons, thereafter passing a hydrogen-containing gas through the reaction zone and therein subjecting the catalyst containing said hydrocarbonaceous matter to hydrogenation to form said more valuable hydrocarbons and to regenerate the catalyst, and separating said more valuable hydrocarbons from the effluent of the hydrogenation step.

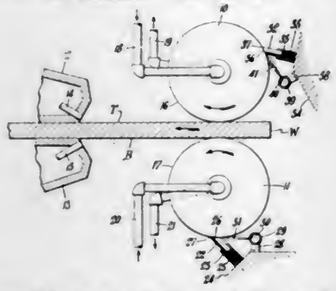


2,317,495
DESURFACING APPARATUS AND PROCESS

Ivan P. Thompson, Elizabeth, and Edward Meincke, Scotch Plains, N. J., assignors to The Linde Air Products Company, a corporation of Ohio

Application April 10, 1941, Serial No. 387,848

15 Claims. (Cl. 148—9)



1. Desurfacing apparatus including a desurfacing station provided with desurfacing means for thermochemically treating a ferrous metal body conveyed therethrough, conveyor means for moving said body through said desurfacing station, said conveyor means comprising a conveyor roll the surface of which is incidentally subject to an accumulation of slag resulting from such thermochemical treatment of said body, means for preventing said slag from accumulating on the surface of said roll, comprising means for conditioning said slag for removal from said surface, and means for removing the so-conditioned slag from said surface.

2,317,496
PRINTING TELEGRAPH APPARATUS

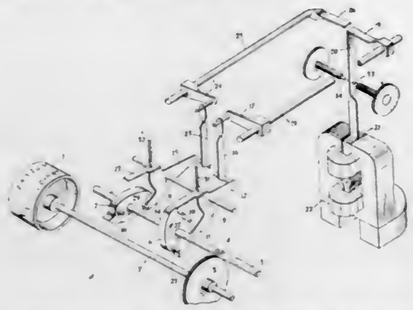
Alfred Edward Thompson and Reginald Dennis Salmon, Croydon, England, assignors to Creed and Company Limited, Croydon, England

Application June 21, 1941, Serial No. 399,062

In Great Britain July 26, 1940

7 Claims. (Cl. 178—34)

1. In a printing telegraph apparatus a rotary shaft, an escapement for controlling the rotation of said shaft comprising a pair of stop arms secured to said shaft, said stop arms being angularly displaced in respect to each other, a detent for each stop arm, means on each stop arm disposed to move with the rotation of the shaft the corresponding detent into the rotary path of the stop arm and to thereby stop said shaft, spring means individual to each detent tending to move said detents out of the path of said stop arms and thus release said shaft for rotation, and means comprising a relay for controlling the operation of said detents by said spring means.

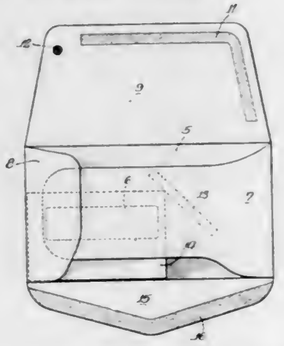


2,317,497
ENVELOPE

Allan M. Thompson, Chicago, Ill., assignor to Gaw-O'Hara Envelope Company, Chicago, Ill., a corporation of Illinois

Application March 21, 1942, Serial No. 435,652

5 Claims. (Cl. 229—72)



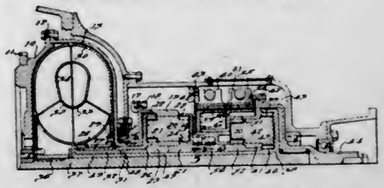
1. An envelope comprising a front wall defined by fold lines and provided with a window adjacent one end thereof, a long flap and a short flap extending from the respective ends of said front wall and integral therewith along fold lines, said window being disposed adjacent the end of said front wall having said short flap a back flap extending from an edge of the front wall and proportioned to overlie said long and short end flaps, adhesive attaching said back flap to said end flaps, a strip of diagonally disposed adhesive positioned between said window and the fold line of said long flap connecting the long end flap to the front wall to provide a stop for retaining a relatively small enclosure against displacement from a predetermined position in said envelope, so as to expose an address thereon through said window, and a closure flap positioned to overlie and be attached to said back flap.

2,317,498
HYDRODYNAMIC TRANSMISSION

William D. Tipton, Baltimore, Md.

Application December 20, 1941, Serial No. 423,789

38 Claims. (Cl. 74—189.5)



1. In a hydrodynamic transmission having input and output structures, a planet carrier carried by said input structure; a planet pinion carried by said carrier; sun and annulus gears respectively meshing with said pinion; a pair of vaned hydraulic wheels disposed in juxtaposition and connected respectively to said sun and annulus gears for rotation therewith; a vaned runner wheel connected to the output structure and disposed in such relation with respect to one of the aforesaid hydraulic wheels that it receives the discharge therefrom; a second annulus gear in mesh with said pinion; and means for restraining rotation of said latter gear in the direction of rotational tendency thereof caused by fluid drag on said hydraulic wheels.

2,317,499
METHOD OF FINISHING TEXTILES

William W. Trowell, Greenville, S. C., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application November 3, 1939, Serial No. 302,674

14 Claims. (Cl. 117—65)

1. A method for imparting a permanent water repellent finish to a textile which includes treating the textile with an aqueous emulsion comprising a solution of an ester of a cellulose ethyl ether containing the radical of a fatty acid having at least 12 carbon atoms in a volatile organic solvent so as to leave in the textile, on drying, an amount of impregnating composition which will be insufficient to fill the interstices of the textile or to form a continuous coating thereover, evaporating the water and volatile solvent from the treated textile, and heating the dried textile to a temperature which will fuse the composition deposited therein into its fibers.

2,317,500
FLEXIBLE SUPPORT

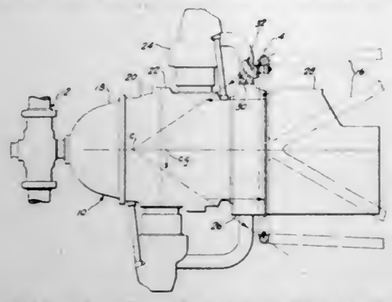
John M. Tyler, West Hartford, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware

Application June 17, 1939, Serial No. 279,717

11 Claims. (Cl. 248—5)

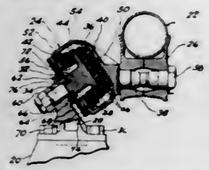
1. A bracket for securing an engine to an engine support for limited resiliently resisted freedom of movement of said engine relative to said supports comprising, an engine attached member and a support attached member, a hollow separable housing having an aperture in one side thereof carried by one of said members, a composite disc larger than said aperture but smaller than the interior of said housing disposed in said housing and connected to the other of said members by a stem smaller than said aperture passing through said aperture, said disc comprising a flat metal core element integral with said stem, a

flat rubber cushion bonded to each side of said core element, and a metal cover plate bonded to the outer surface of each rubber cushion to pro-



vide rigid end surfaces for said cushion receivable in depressions in the inner walls of said housing to center said disc relative to said housing.

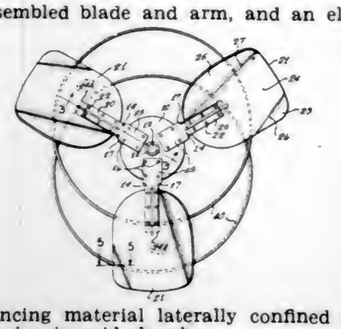
2,317,501
FRICTION DAMPED ENGINE MOUNT
John M. Tyler, West Hartford, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application March 21, 1941, Serial No. 384,543
2 Claims. (Cl. 248—5)



1. A flexible engine mount comprising a member secured to an engine to be supported and a member secured to a support for said engine, one of said members comprising a housing, the other of said members comprising a core member having a head adapted for reception within said housing, a resilient member interposed between opposed surfaces of said head and said housing, said core member having a stem bearing a shoulder, an externally flanged sleeve telescopically receiving said stem and in assembled condition abutting said shoulder, a plate carrying a Coulomb friction member for engagement with a surface provided by said housing, a normally dished spring having a substantially constant force range of deflections in its substantially flattened condition, means assembling said mount to press said spring, plate and friction member between the flange of said sleeve and the latter said housing surface so that said spring assumes its substantially flattened condition simultaneously with the abutment of said sleeve against said shoulder.

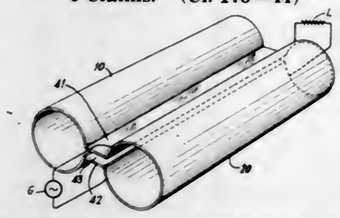
2,317,502
PROPELLER TYPE VENTILATOR FAN
Walter L. Upson, Litchfield, Conn., assignor to The Torrington Manufacturing Co., Torrington, Conn., a corporation of Connecticut
Application June 21, 1940, Serial No. 341,659
12 Claims. (Cl. 170—159)

1. In a propeller type fan, a spider including a spider arm, a blade assembled to the arm, the blade and arm having depressed portions in their adjacent areas, the depressed portions coacting to form a substantially closed chamber between the assembled blade and arm, and an element



of balancing material laterally confined under compression in said chamber.

2,317,503
TRANSMISSION LINE
George Lindley Usselman, Rocky Point, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application August 16, 1939, Serial No. 290,417
6 Claims. (Cl. 178—44)



1. A radio frequency transmission line comprising a pair of electrically conducting tubular members arranged parallel to one another, a slit along the adjacent sides of each member, the edges of each slit being joined to a corresponding edge of the slit in the other member by conducting strips, the capacity between said conducting strips being so related to the length of the interior circumferential conducting path of each of said tubular members that said paths are resonant to the operating frequency of said transmission line.

2,317,504
ARTIFICIAL FIBER BOARD
Henry E. Walter, Cloquet, Minn., assignor to Wood Conversion Company, Cloquet, Minn., a corporation of Delaware
Application February 3, 1940, Serial No. 317,063
5 Claims. (Cl. 41—24)

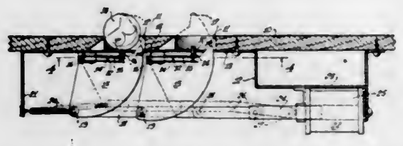


1. An artificial decorative board for use on walls and the like in position subject to marring or scuffing having a surface of felted fibers with intaglio markings therein, the felted connection of the fibers of said surface being unbroken by the depressions of the markings, said continuous felt of surface fibers embodying a dried oil, the main body of the board beneath said surface being softer and being free from dried oil, the depressions being in the nature of grooves from .005 to .04 inch deep, the width of a groove being not more than twice the depth, the major portion of the high spots between the said grooves being substantially in the same plane, whereby a flat surface is provided with decorative high lights and shadows upon illumination.

2,317,505
COMPOSITION FOR REMOVING WALLPAPER
Helen Erma Wassell, Pittsburgh, Pa., assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York
No Drawing. Application July 30, 1940, Serial No. 348,597
2 Claims. (Cl. 252—161)

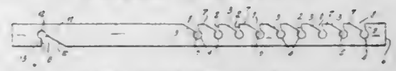
1. A penetrant composition for quickly wetting and loosening wallpaper sufficiently to permit the removal of the wallpaper from a surface to which it is adhered without injury to said surface, said penetrant composition essentially comprising an aqueous solution of from about 2% to about 5% by volume of a penetrant agent consisting of a mixture of from about 40 to about 60 parts of at least one of the group consisting of the monobutyl ethers of ethylene glycol and diethylene glycol with from about 60 to about 40 parts of a water-soluble salt of a branched-chain secondary aliphatic alcohol sulfate having from 14 to 17 carbon atoms to the molecule.

2,317,506
ACCESSORY FOR GAME APPARATUS
Harry E. Williams and Lyndon A. Durant, Chicago, Ill.
Application February 23, 1942, Serial No. 431,916
4 Claims. (Cl. 273—118)



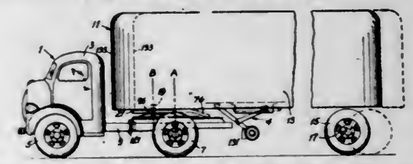
1. In an accessory for ball rolling game including an inclined play board, a plurality of ball apertures formed in said play board, a tandem ball ejector means for said ball apertures, and including a mounting plate adapted to be mounted on the underside of the inclined playing board and having an elongated slot aligned with said ball apertures, a segment pivotally arranged on said mounting plate beneath each of said ball apertures for swinging movement through said elongated slot, means connecting said segments for tandem movement toward and away from said ball apertures, spring means normally urging said connecting means and said segments in a direction away from said apertures, electromagnetic means including a movable member operatively connected to said connecting means and means for effecting energization of said electromagnetic means to urge said segments and connecting means therefore in an opposite direction against the action of said spring means.

2,317,507
TIE FOR NEWSPAPERS AND THE LIKE
Wilmer Zimmermann, St. Louis, Mo.
Application August 31, 1942, Serial No. 456,747
2 Claims. (Cl. 24—17)



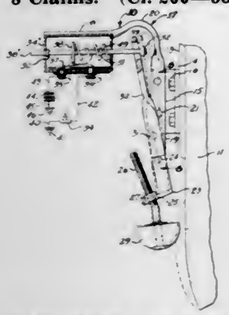
1. A manually breakable tie for securing and holding newspapers and the like in rolled form, comprising an inelastic strip of non-metallic material having substantially pliable and bendable edges and corners to prevent injury to the person manually breaking the tie and also to prevent damage to the newspaper or other article, said strip having a longitudinal series of notches along one side edge of one end portion thereof, each notch having a transverse wall extending nearly at right angles from said side edge and having another wall diverging from said first wall to intersection with said side edge and toward the opposite end of the strip, leaving said first wall toward the end of the strip from which said series of notches extend, said strip also having a series of circular holes along the longitudinal axis thereof having their peripheries that are toward the said side edge of said strip intersecting said walls of said notches respectively and forming relatively narrow openings into said respective notches and co-operating with said transverse walls to form tongues extending longitudinally of said strip toward said second named walls respectively, said strip also having a notch in its opposite side edge adjacent to the opposite end thereof adapted to be interengaged with said first named notches and holes respectively, and a tongue at the side of said last named notch that is toward said last named end extending longitudinally of said strip toward the opposite side of said last named notch, one of said first named tongues and said last named tongue overlapping said strip at opposite sides of said notches and holding the end portions of said strip substantially from lateral displacement when said last named notch is interengaged with any one of said first named notches.

2,317,508
TRAILER TRUCK
Orren E. Zoder, St. Louis, Mo., assignor to Zoder, Incorporated, St. Louis, Mo., a corporation of Missouri
Application October 4, 1940, Serial No. 359,709
9 Claims. (Cl. 280—33.1)



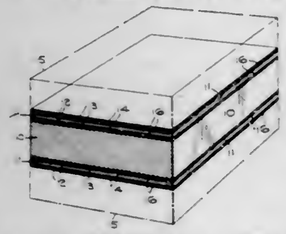
1. In a trailer truck combination, the truck having front steering wheels and rear power wheels, the trailer having rear wheels and a fixed front king pin, a swivel support on said truck for said king pin, said support being non-adjustable with respect to the trailer after attachment but adjustable with respect to the truck, means for determining said adjustment from a point substantially near the center of the rear axle of the truck and to a point substantially ahead of the center of said axle, whereby the reaction load at the king pin of the trailer may be partially transferred from the rear wheels of the truck to said front steering wheels.

2,317,509
UNDERINFLATED TIRE SIGNALING DEVICE
Anders G. Anderson, Los Angeles, Calif.
Application February 6, 1942, Serial No. 429,752
8 Claims. (Cl. 200—58)



1. In an underinflated tire signaling device, a support, a link pivotally mounted on said support, a tire engaging roller mounted on said link, a second link pivotally mounted on said first link, releasable means to normally hold said links aligned, a switch device, and means operated by movement of said links for actuating said switch device.

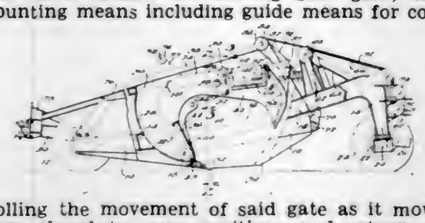
2,317,510
PROCESS FOR THE JOINING OF METALS
Robert Henry Douglas Barklie, Purley, and Alkin Lewis, London, England
Application July 23, 1940, Serial No. 347,076
In Great Britain January 30, 1939
11 Claims. (Cl. 29—189)



1. A process of joining a corrosion resisting metal to magnesium base metal including the steps of coating one of the metals to be joined with an interlayer comprising cadmium and a metal selected from the group, zinc and bismuth, in non-eutectic proportions, placing one of the metals to be joined upon the other metal to be joined with the interlayer between them, heating the assembly thus formed to a temperature of about 330° C., at which temperature a part of the metal of the inter-layer is in the form of solid crystals and deforming the elements thereof while the intermediate layer is still in a pasty state until adhesion occurs and a substantial elongation of the assembly has been effected.

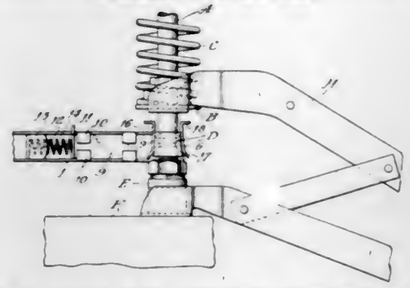
2,317,511
SCRAPER
Edward R. Barrett, Detroit, Mich., assignor to Gar Wood Industries, Inc., Detroit, Mich., a corporation of Michigan
Application February 24, 1941, Serial No. 380,161
6 Claims. (Cl. 37—126)

2. A scraper comprising a frame having ground engaging wheels mounted thereon, a bowl mounted on said frame, a transversely extending cutter element mounted adjacent the leading edge of said bowl, a gate positioned to extend across the front of said bowl adjacent said element and forwardly thereof, mounting means for movably mounting said gate for movement forwardly of said element between open and closed positions, and cable means for moving said gate, said mounting means including guide means for con-



trolling the movement of said gate as it moves from closed to open positions and returns to closed position so that said gate follows a closed path in which the path of the lower edge of the gate in moving from closed to open positions is above the path of the lower edge in moving from open to closed positions and forwardly of said element.

2,317,512
VALVE KEEPER INSERTER
Herbert A. Berkman, Chicago, Ill., assignor to Zim Manufacturing Company, a corporation of Illinois
Application August 12, 1942, Serial No. 454,539
4 Claims. (Cl. 81—3.01)

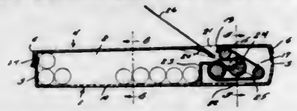


4. In a tool of the character described, a body member comprising two levers hinged together, and sockets on the inner sides of the free ends of corresponding arms of said levers, each socket comprising a pair of flat elements arranged tangentially to a frustoconical surface whose axis is parallel to the hinge axis of the levers; means supporting one of said elements of each pair for rocking movements about an axis extending across the levers, means yieldingly urging the second element of each pair toward its cooperating element, said elements having at their free long edges inturned flanges that lie, when the tool is closed, in about the plane that contains the central longitudinal axis and also the hinge axis of the tool.

2,317,513
CIGARETTE ROLLING DEVICE
Robert Murray Bond, Akron, Ohio, assignor of thirty per cent to Chester C. Bond and thirty per cent to Homer L. Bond, both of Akron, Ohio
Application March 27, 1941, Serial No. 385,542
1 Claim. (Cl. 131—47)

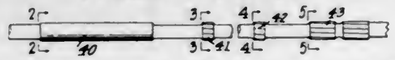
In a cigarette rolling device a shallow rectangular casing including an open-top bottom section having side walls, and a lid section having side flanges and hinged adjacent one end thereof to the side walls of the bottom section for swinging

into open and closed positions, a pair of front and rear rollers, respectively, in said bottom section rotatably mounted in said side walls to extend therebetween in laterally spaced relation and parallel to the axis of swinging movement of said lid section, a single roller in said lid section rotatably mounted in said flanges parallel with said axis and movable toward and from said front roller under opening and closing of said lid section, an endless travelling apron surrounding said rollers and forming in an intermediate opening position of said lid section a shallow trough between said front and single rollers for receiving tobacco to be rolled, said apron under movement of said lid section into closed position and movement of said single roller toward said front roller forming said trough into a cylinder-like pocket around said tobacco in the rear of said



front roller for rolling the tobacco therein under travel of the apron, said pocket opening between said front and single rollers, manipulative means on one roller for rotating the same to cause the apron to travel around said rollers, and a scraper blade in said bottom section frictionally engaging said apron to maintain the same clean, said blade being disposed in front of said front roller and dividing said bottom section to form a cigarette storage compartment therein, said lid section when closed covering said compartment and having a transverse slit therein adjacent said single roller for introducing a cigarette paper edgewise therethrough into said pocket by way of said opening in the latter to be rolled around the tobacco under travel of said apron whereby cigarettes may be rolled while the compartment and bottom section are closed.

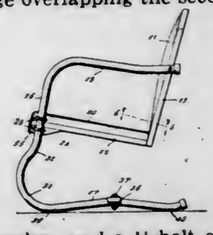
2,317,514
METHOD OF RIFLING GUN BARRELS
Oliver W. Bonnafe, Hudson, Mass., assignor to The Lapointe Machine Tool Company, Hudson, Mass., a corporation of Maine
Application May 22, 1941, Serial No. 394,693
3 Claims. (Cl. 90—28.1)



1. The method of rifling gun barrels which comprises simultaneously producing a plurality of finished helical rifle grooves in said barrel by successively removing approximately equal increments of material from all of said grooves by a series of broaching operations, and thereafter finishing the bore of said gun by passing an annular broach therethrough which is relatively guided in a helical path concentric with said rifle grooves and of the same twist as said grooves.

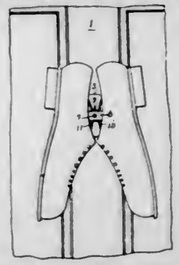
2,317,515
CHAIR
Earl C. Booth, Columbus, Ind., assignor to Noblitt-Sparks Industries, Inc., Columbus, Ind., a corporation of Indiana
Application February 5, 1940, Serial No. 317,235
1 Claim. (Cl. 155—54)

In a chair having a seat and back, side members for supporting said seat and back from a supporting surface, each of said side members being formed of resilient metal tubing of circular cross-section and comprising a generally horizontal portion adapted to rest on the supporting surface and a second portion rising from the front end of said horizontal portion to said seat, said seat being provided with a downwardly extending flange overlapping the second portion of



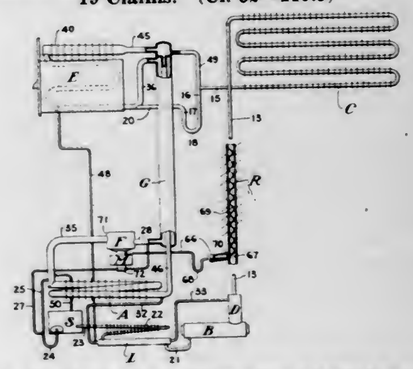
each side member, and a U-bolt embracing and welded to said side member, projecting laterally therefrom, and extending through said flange, said flange being formed with a groove for the reception of the side member.

2,317,516
SHOE TREE HOLDER
Edwin T. Brace, Warrenton, Mo.
Application September 10, 1941, Serial No. 410,307
3 Claims. (Cl. 12—128.1)



1. The combination, in a shoe supporting assembly, of a common shoe tree supporting means comprising a retaining screw means, a bracket with a base and sleeve, a retaining means associated with the end of said bracket for engaging detachably a pair of vertically disposed parallel flexible members with shoe engaging means on the ends thereof, each bracket which carries a pair of flexible members being adapted to be individually mounted on a wall.

2,317,517
REFRIGERATION
George A. Brace, Winnetka, Ill., assignor to The Hoover Company, North Canton, Ohio
Application February 5, 1940, Serial No. 317,383
19 Claims. (Cl. 62—119.5)



1. An absorption refrigerating apparatus com-

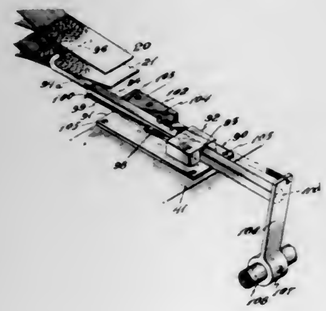
prising a boiler, a rectifier, a motor fan unit for circulating the mediums in the apparatus and a conduit connecting the bottom of the rectifier with the motor fan unit, said motor fan unit being so positioned relative to the rectifier that distillate from the rectifier flows through said conduit to the motor fan unit to lubricate the same.

2,317,518

LADDER AND LIKE WEBBING AND METHOD AND MECHANISM FOR PRODUCING THE SAME

Thomas Brindle, Pawtuxet, R. I.

Application July 22, 1941, Serial No. 403,496
15 Claims. (Cl. 139—20)



1. A method of forming ladder webbing and the like which comprises weaving two outer bands in substantial spaced relation one over the other, providing a set of additional warp threads which form cross-straps, manipulating said warp threads to be woven-in alternately into one of said bands, then into the other, further manipulating said warp threads to provide a slack therein at the crossing of the said warp threads from one band to the other to provide a length of slack warp threads equal to the spacing of said bands, securing said warp threads into the band with a weft thread, further manipulating said warp threads to provide an additional slack therein to equal with said first slack portion a length of warp threads equal to the length of the predetermined length of cross-straps, and pulling all of said slack warp threads to position the same forwardly of the fell of the bands during the subsequent interweaving of said woven-in portion thereof into the said bands.

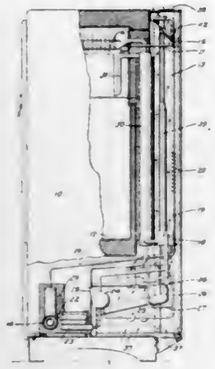
15. In combination with a loom arranged for weaving ladder webbing in which warp threads which form the cross-straps of the webbing are manipulated to be woven in alternately into one and then into the other of the outer bands of the webbing, means for causing a slack in the said warp threads when crossing from one of said bands to the other, a plate fixed to the breast beam of the loom, a bearing pivotally mounted on said plate, a rod slidably mounted in said bearing, and having a hook formation thereon positionable between the outer bands of the webbing to engage said warp threads, a cam carried by said plate, a cam follower carried by said rod and engageable with said cam surface for grinding said rod in a direction for withdrawing said hook formation from between said bands.

2,317,519

REFRIGERATION

Curtis C. Coons, North Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio

Application September 29, 1938, Serial No. 232,272
3 Claims. (Cl. 62—119.5)



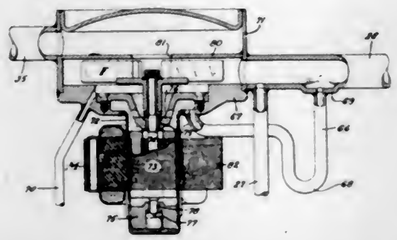
3. In an absorption refrigerating apparatus, a cabinet forming a food storage compartment and an apparatus compartment, said apparatus including a condenser, said apparatus compartment being provided with a duct for the circulation of air over said condenser, said condenser comprising banks of tubes having transverse portions and connecting portions inclined to cross said duct from front to rear so that air passing over each transverse portion does not contact adjacent transverse portions, and separate vertically extending offset fins on each of said tubes, the fins on a lower transverse portion extending vertically to a point substantially on the transverse plane of the next higher transverse portion.

2,317,520

REFRIGERATION

Curtis C. Coons, North Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio

Application February 5, 1940, Serial No. 317,387
16 Claims. (Cl. 62—119.5)



1. An absorption refrigerating apparatus comprising circuits for liquid and gaseous mediums, power means for circulating said mediums, said apparatus being charged with a refrigerant, a pressure equalizing medium, an absorption solution and a non-distillable corrosion inhibitor dissolved in the absorption solution, said power means being so positioned in said circuits that distillate collects therein for lubricating said power means.

2,317,521

SENSITIZER CONTAINING GEL-FORMING COLLOIDAL CLAY

Clyde A. Crowley and John B. Mullen, Chicago, Ill., assignors to The Huey Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application October 22, 1941, Serial No. 416,046
9 Claims. (Cl. 95—7)

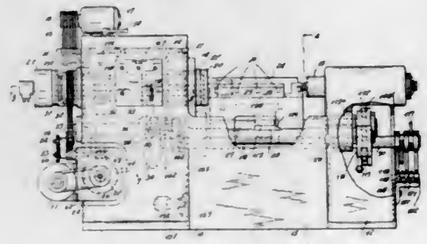
1. A sensitizer comprising light-sensitive chemicals and a gel-forming colloidal clay.

2,317,522

MACHINE TOOL

Myron S. Curtis, Pawtucket, R. I., assignor, by mesne assignments, to The Cleveland Trust Company, Cleveland, Ohio, a corporation of Ohio

Application July 25, 1940, Serial No. 347,397
10 Claims. (Cl. 82—2)



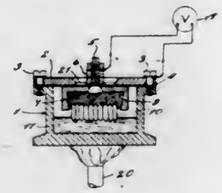
1. In a machine tool of the character specified, movable work holding means, tool holding means, means for imparting idle or feeding movements to said tool holding means and including a slidable member supporting said tool holding means, a rockable member for oscillating said tool holding means, and means for operating said members either synchronously with the movement of said work holding means during the feeding movements or independently of the movement thereof during the idle movements and including a feed shaft, operative connections between said shaft and said work holding means, and means for driving said feed shaft independently of said work holding means.

2,317,523

PRODUCTION OF ENERGY FROM PYRO CRYSTALS AND MINERALS

James K. Delano, Rye, N. Y.

Application August 28, 1940, Serial No. 354,609
11 Claims. (Cl. 171—327)



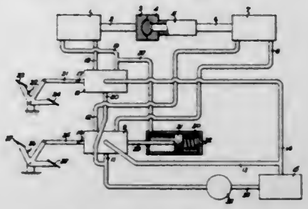
1. The method of transforming heat energy into electrical energy which comprises applying heat to a pyro-electric crystal while impressing an electrical potential on the terminals of the crystal.

2,317,524

CONTROL SYSTEM

Walter Ernst, Mount Gilead, Ohio, assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del., a corporation of Delaware

Application March 11, 1942, Serial No. 434,270
10 Claims. (Cl. 303—6)



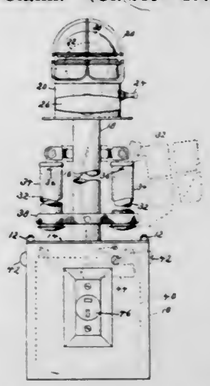
1. In a hydraulic system, a first fluid operable plunger, a second fluid operable plunger, means for admitting pressure fluid to said first plunger, means for admitting pressure fluid to said second plunger, means for preventing the supply of pressure fluid to said second plunger prior to the establishment of a predetermined pressure on said first plunger, and means responsive to a drop in pressure on said first plunger below said predetermined pressure for automatically interrupting the supply of pressure fluid to said second plunger.

2,317,525

SIGNAL DEVICE

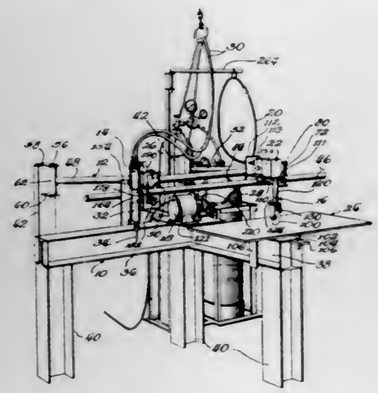
Thomas J. Finley and Edward J. Burke, East Chicago, Ind.

Application July 5, 1939, Serial No. 282,859
1 Claim. (Cl. 246—477)



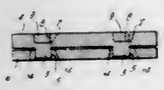
In a portable signal device, a base, a tubular standard secured to and extending upwardly from said base, a light supporting member secured to the upper end of said standard, a pair of handles secured to said light supporting member, said handles being positioned on opposed sides of said member, a pair of flagstaffs pivotally secured to said tubular standard intermediate said base and said light supporting member, a flag secured to each flagstaff, a tubular member adapted to encase each flag and flagstaff, said tubular members being secured to the base of its associated flagstaff, and a pair of spring clips secured to said standard at a point below said flagstaff securing point and in vertical alignment therewith, said spring clips providing means for maintaining said flagstaffs and cased flags in vertical traveling position.

2,317,526
TORCH CUTTING APPARATUS
Stanley W. Hayes, Richmond, Ind., assignor to Hayes Track Appliance Company, Richmond, Ind., a corporation of Indiana
Application March 20, 1940, Serial No. 325,084
13 Claims. (Cl. 266—23)



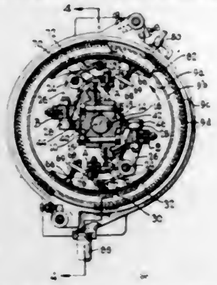
1. The combination including a stationary support having substantially an L-shaped form in a horizontal plane, a pivotally jointed pantograph assembly pivotally connected to the longer leg of said support so as to be universally movable above the support in a substantially horizontal plane in front of the longer leg, a rolling support for and attached to said structure movable in any direction over an area in the vicinity of the shorter leg of the L-shaped support, said shorter leg also extending forward from the longer leg, driving means connected to said assembly, and material working means secured to said structure for movement in unison therewith over an area spaced from the first mentioned area in a direction substantially parallel to and in the direction of the longer leg.

2,317,527
PROCESS OF MAKING STENCIL CHARACTER PUNCH AND DIE SETS
Otto J. Herb, St. Louis, Mo., assignor to Diagraph-Bradley Stencil Machine Corporation, St. Louis, Mo., a corporation of Missouri
Application November 27, 1942, Serial No. 467,131
10 Claims. (Cl. 76—107)



1. The process of making mating stencil character punches and dies which consist in punching character forming openings in a die plate and corresponding character forming ribs on a punch plate with the same master punch and die, subjecting said die plate to the action of a corrosive agent to enlarge the character forming openings therein, hardening said die plate, and then forcing the character forming ribs of said punch plate into the character forming openings in said hardened die plate to conform said ribs to said openings.

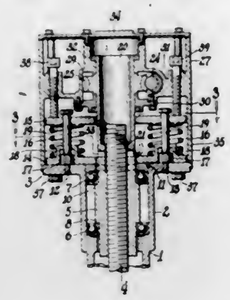
2,317,528
CLUTCH MECHANISM FOR CENTRIFUGAL MACHINES AND THE LIKE
Joseph Hertrich, Hamilton, Ohio, assignor to The Western States Machine Company, Hamilton, Ohio, a corporation of Utah
Application September 6, 1939, Serial No. 293,550
In Australia July 11, 1939
13 Claims. (Cl. 192—105)



1. A heavy-duty slip clutch mechanism comprising a driving shaft that is normally rotated at substantially constant speed, an annular friction rim surrounding said shaft and having an inner clutch surface, and a clutch mechanism secured to said shaft to rotate therewith and responsive only to centrifugal force to engage said surface to accelerate and drive the rim, characterized in that said clutch mechanism includes mating hub parts secured together and keyed to said shaft for rotation therewith, oppositely disposed radial arms secured to and extending from the respective hub parts, a clutch lever fulcrumed intermediate its ends to each of said arms for limited free movement about its fulcrum, each of said levers extending obliquely from an inner end disposed near said hub parts on one side of its fulcrum to an outer portion disposed near the rim on the other side of its fulcrum, a clutch shoe, having a friction-lined arcuate face, pivotally connected to the outer portion of each lever in position to be pressed by centrifugal force into engagement with said surface when the shaft is rotated and the inner end of said lever is positioned to allow such movement, cam means on the inner ends of said levers and cooperating cam means slidable along said shaft for shifting the inner ends of said levers to a position in which the clutch shoes, though rotating at a high speed, are held clear of said surface.

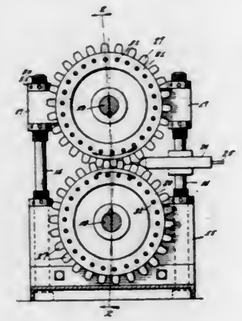
2,317,529
POWER DRIVEN VALVE AND THE LIKE
Howard E. Hodgson and Clarence W. Kuhn, Wauwatosa, Wis., assignors to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application April 10, 1939, Serial No. 267,143
8 Claims. (Cl. 74—424.8)

1. In a power driven control apparatus, such as a power controlled valve construction, a threaded actuating spindle therefor, operable between limits of longitudinal movements, one of which limits is fixed, and a base construction in which operates said spindle, mechanism for raising and lowering said spindle, comprising a rotatable nut member upon said spindle, the rotation of which nut member will raise and lower said spindle, a non-rotatable thrust member with respect to which said nut member rotates, said thrust member having rotation preventing association with said base portion and being bodily axially movable together with said nut member, said nut member having thrust transmitting engagement with said thrust member, spring means effective upon said thrust member to yieldingly restrain axial movement thereof and consequently of said nut member away from said base construction, said nut member, and spring pressed thrust member constituting a thrust responsive assembly; drive mechanism for said nut member



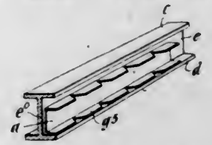
comprising a housing fixed relative to said base construction and substantially superposed upon said thrust responsive assembly, and a rotary axially non-shiftable power driven member in driving engagement with said axially movable nut member.

2,317,530
HELIX FORMER
Alvin W. Holmes, George W. Benjamin, and Luther P. Young, Muncie, Ind., assignors to Kitselman Brothers, Muncie, Ind., a corporation of Indiana
Application April 6, 1940, Serial No. 328,174
9 Claims. (Cl. 140—105)



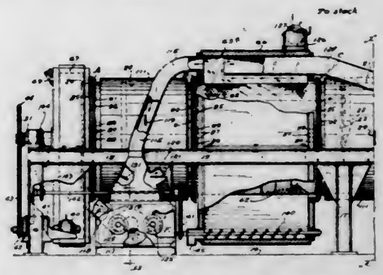
1. In a machine for forming wire into a helix, a pair of wheels arranged for rotation in opposite directions on parallel axes, meshing series of wire-forming teeth mounted respectively on said wheels, each of said teeth being provided in its outer face with a wire-receiving groove the bottom of which substantially conforms to the inner surface of a half-turn of the helix to be formed, said grooves having side walls which diverge outwardly from the groove-bottoms to receive a substantially straight wire fed tangentially to the wheels and guide it into the groove-bottoms as the wheels rotate.

2,317,531
MEANS FOR PACKING RUNNERS FOR CURTAIN RAILS
Leslie Gordon Hudson, London, and Norman Powell, Birmingham, England, assignors of one-third to W. A. Hudson, Limited, London, England, a company of Great Britain and Northern Ireland
Application November 17, 1939, Serial No. 304,950
In Great Britain November 18, 1938
4 Claims. (Cl. 206—46)



4. As a new article of manufacture for curtain runners a substantially rigid trough-shaped runner-holder or guide having serrated walls to enable the holder or guide to be bent in a plane parallel to the walls without buckling the walls, and a deformable end tongue to at least one of said walls bendable so as to move along the longitudinal axis of the guide and to hold the runners on the holder.

2,317,532
PROCESS FOR TOASTING FLAKED CEREAL AND THE LIKE
Thomas R. James, Minneapolis, Minn., assignor to General Mills, Inc., a corporation of Delaware
Original application August 2, 1940, Serial No. 349,822. Divided and this application July 18, 1941, Serial No. 403,050
4 Claims. (Cl. 99—80)

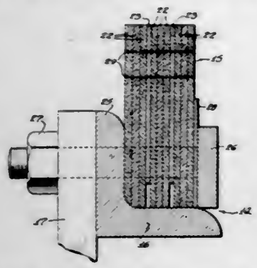


1. The process of drying and toasting a flaked cereal comprising directing the cereal through a rotating drum, passing heated air into the two ends of the drum, withdrawing air from the middle of the drum, rotating said drum so as to drop the cereal through the moving air, and removing dust from the middle of the drum.

2,317,533
ROLL BRUSH
Charles B. Joslin, Hollidays Cove, W. Va., assignor to National Steel Corporation, a corporation of Delaware
Application June 23, 1941, Serial No. 399,345
1 Claim. (Cl. 15—236)

A laminated brush adapted to serve as a wiper for a roll of a metal coating machine, said brush comprising lengthwise extending layers of heat resistant fabric and interleaved, soft, unabrasive, thin sheet metal, of continuously uniform texture from end to end, the various layers being

firmly secured together in relative positions such that the adjacently exposed marginal portions thereof are so related as to serve as parts of an



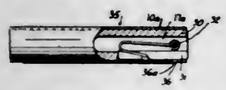
even, smooth, wiping face, having its portions of soft metal and heat resistant fabric disposed therein in alternation.

2,317,534
DEVICE FOR SUPPORTING SMOKERS' PIPES
Walter Kahn, Middelburg, Transvaal, Union of South Africa
Application January 31, 1941, Serial No. 376,896
In the Union of South Africa October 18, 1940
4 Claims. (Cl. 131—260)



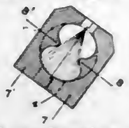
1. A device for supporting a smoker's pipe on a substantially flat surface in an upright position, comprising a base adapted to be secured to a pipe and having a groove in the bottom thereof, legs hingedly connected to the base and adapted to fold inwardly toward one another into said groove and flush with the bottom of the base when the legs are not in use, and spring means operatively connected with the base for holding the legs in either open or closed position.

2,317,535
PACKAGE HANDLE
William J. Kitchen, New York, N. Y.
Application January 23, 1941, Serial No. 375,632
1 Claim. (Cl. 224—57)



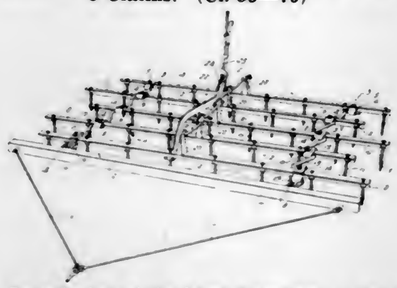
A package handle comprising a tubular member, a pair of parallel pivot pins on the ends of said tubular member, a pair of similar, symmetrically disposed hooks pivoted on said pivot pins, said tubular member being formed with slots aligned with the hooks to permit the hooks to be swung into said tubular member, and a sleeve telescoped on said tubular member to retain the hooks within said tubular member, said sleeve being formed with slots at the ends thereof registering with the slots in the tubular member, the inner ends of the slots on the sleeve being adapted to engage the hooks when the hooks are in position for use, against inward swinging movement.

2,317,536
COMBUSTION CHAMBER FOR INTERNAL COMBUSTION ENGINES
Enrico Hocke, Genoa, Italy; vested in the Alien Property Custodian
Application March 19, 1940, Serial No. 324,876
In Germany April 1, 1939
2 Claims. (Cl. 123—32)



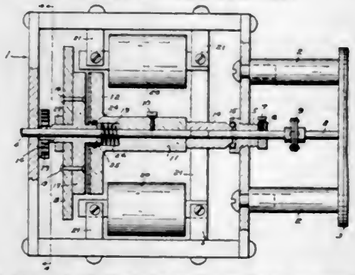
1. In an internal combustion engine of the liquid fuel compression ignition type, a combustion chamber shaped to permit a rotating or swirling charge of air, and a fuel ignition crossing the path of the whirling air, the interior wall of the chamber being formed with inwardly extending substantially pointed areas, arranged opposite one another on the axis of the rotating air charge and of a volume to cause them to become substantially incandescent under the heat of the charge to initiate ignition of subsequent charges.

2,317,537
HARROW
John R. Kovar, Anoka, Minn.
Application October 29, 1941, Serial No. 416,961
5 Claims. (Cl. 55—76)



1. In a device of the kind described, a plurality of drag bars, and Z-shaped links connecting said bars, said links being arranged in longitudinally and transversely spaced rows, certain of the links in different rows being reversed in respect to the others, whereby said bars are held against endwise movements and the trunnions of said links are held in their respective seats.

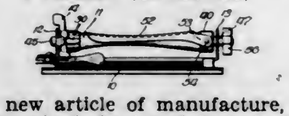
2,317,538
SIGNAL
Alexis L. Lamar, Pittsburg, Kans.
Application October 25, 1941, Serial No. 416,550
2 Claims. (Cl. 161—15)



1. A signal of the class described comprising a

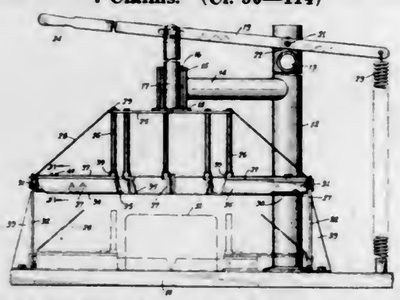
frame structure, a shaft journaled in said frame structure, means for actuating said shaft, a tube fixed on the shaft, said tube having a chamber extending longitudinally thereinto from one end thereof, a clutch member fixedly mounted on said one end of the tube, a clutch member rotatably and slidably mounted on the shaft in opposed relation to the first-named clutch member, a flat, circular armature fixed on the second-named clutch member and having its marginal portion projecting therebeyond, electromagnets mounted on the frame structure for attracting thereto the armature for engaging the second-named clutch member with the first-named clutch member, an indicator fixedly mounted on the second-named clutch member, a washer slidably mounted on the shaft in the chamber and operatively engaged with the second-named clutch member, a coil spring in the chamber engaged with said washer for disengaging the second-named clutch member from the first-named clutch member when the electromagnets are de-energized, and a return spring operatively connected to said second-named clutch member.

2,317,539
CURLER SPINDLE FOR HAIR WAVERS
Otto A. Langos, Chicago, Ill., assignor to Bernard A. Sterling, Chicago, Ill.; Sara Sterling executrix of said Bernard A. Sterling, deceased
Application July 12, 1941, Serial No. 402,076
8 Claims. (Cl. 132—33)



1. As a new article of manufacture, a curler spindle formed of sheet metal stock shaped to tubular form with its opposite ends substantially cylindrical and diminishing in diameter from said cylindrical ends to the intermediate portion of the spindle centrally between its opposite ends and with the opposite longitudinal edges of the sheet metal stock in abutting engagement, and cup-shaped shells formed of sheet metal stock and fixed telescopically over the opposite substantially cylindrical ends of the spindle, said cup-shaped shells having end walls pressed inwardly to fit within the ends of the spindle to hold the same against collapse.

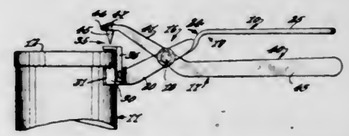
2,317,540
SLICING MACHINE
William E. Lanham, Atlanta, Ga., assignor to Columbia Baking Company, Atlanta, Ga., a corporation of Delaware
Application August 21, 1941, Serial No. 407,698
7 Claims. (Cl. 30—114)



1. In an apparatus of the character described,

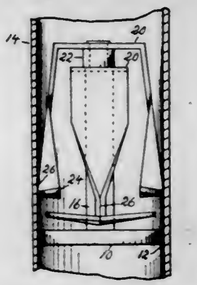
the combination of a base to receive the article which is to be sliced, a knife carrier, means mounting said carrier for movement toward the base, a plurality of knives mounted for reciprocatory movement in said carrier along lines converging at a common center, means for manually operating the carrier to cause the knives mounted therein to cut through the article, and means for simultaneously reciprocating said knives during the said movement of the carrier.

2,317,541
CAN OPENER
Karl Robert Leck, Chicago, Ill.
Application December 12, 1941, Serial No. 422,654
6 Claims. (Cl. 30—5)



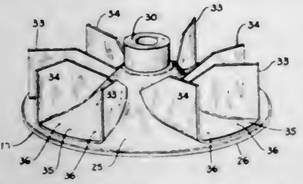
1. A tool comprising a pair of interpivoted members having rearwardly extending handles and forwardly extending jaws, one of the jaws being formed with a downwardly extending prong, the other jaw being formed with an arcuate portion, and angular tabs fixed to said arcuate portion, formed with forwardly extending tongues disposed above said arcuate portion, said arcuate portion being formed with teeth at its upper edge, said tabs being attached to said arcuate portion by rivets having heads at the inner side of said arcuate portion.

2,317,542
DEVICE FOR CLEANING TUBES
Wesley B. Lincoln, Hammond, Ind., assignor to Bernard V. Brunt, Buffalo, N. Y.
Application August 11, 1941, Serial No. 406,304
5 Claims. (Cl. 15—104.06)



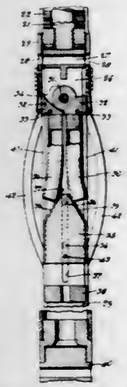
2. In a device for cleaning tubes, a base, a supporting element extending from said base, a plurality of scraping elements in yieldable association with said supporting element, said scraping elements comprising inverted substantially U-shaped members, each leg of said U-shaped member being kerfed substantially centrally and inwardly of its end, the two members thus formed having an intermediate portion in which said members are rotated from the plane of said leg into contiguous parallel planes, end portions extending at right angles to said members, said intermediate portion being sharpened at its outer edge to form a guide.

2,317,543
SUCTION CLEANER
Roy D. Livingston, North Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application April 3, 1942, Serial No. 437,518
5 Claims. (Cl. 230—114)



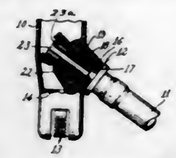
1. A fan comprising a shroud forming the back wall of the fan, a hub at the center of said shroud for attaching the fan to a driving shaft, and fan blades formed in integral pairs connected by web portions, said web portions conforming to the contour of said shroud and resting on the latter, and means for attaching said web portions to said shroud.

2,317,544
CORING TOOL
Thomas B. Losey, Dallas, Tex., assignor to Halliburton Oil Well Cementing Company, Duncan, Okla.
Application October 26, 1942, Serial No. 463,379
3 Claims. (Cl. 255—1.4)



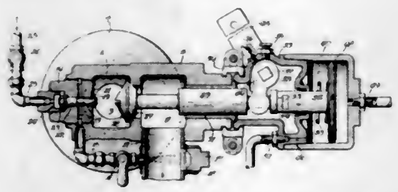
1. A side wall coring tool adapted to be run in an oil well on an electrical cable, comprising a housing member, a heavy duty core spring located in said housing member, a mandrel mounted for longitudinal movement in said member and adapted to be driven downwardly by said spring, electrically releasable latching means for holding said mandrel suspended and said spring compressed, core taking tubes pivotally mounted on said mandrel, a deflector block, means for mounting said deflector block beneath said core taking tubes for limited longitudinal movement within said housing member, means for causing said deflector block to remain substantially stationary beneath said core taking tubes temporarily, as the latching means is released, thereby causing lateral deflection of said core taking tubes as the mandrel is driven downwardly by said spring, and means for moving said deflector block on down beyond said core taking tubes immediately after said tubes have been deflected laterally.

2,317,545
COUPLING
Paul S. Madsen, Bethany, and Arthur A. Arnold, Hamden, Conn., assignors to The Seamless Rubber Company, New Haven, Conn., a corporation of Connecticut
Original application October 7, 1937, Serial No. 167,772, now Patent No. 2,273,128, dated February 17, 1942. Divided and this application July 28, 1941, Serial No. 404,382
4 Claims. (Cl. 284—14)



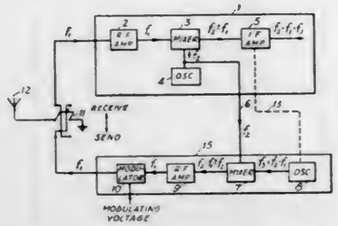
2. In a coupling, the combination of an elastic outer member, an elastic plug held under compression thereby and having a through opening which is normally closed and sealed but is adapted to be opened by a nipple inserted therein, a nipple inserted into said plug and holding it open with the plug in external gripping engagement with the nipple, and means for preventing relative axial displacement of the nipple and plug.

2,317,546
BLOWOFF COCK
Herbert J. McGrath, Bloomington, and John M. Lammedee, Chicago, Ill., assignors to Wilson Engineering Corporation, Chicago, Ill., a corporation of Delaware
Application June 13, 1941, Serial No. 397,932
2 Claims. (Cl. 277—53)



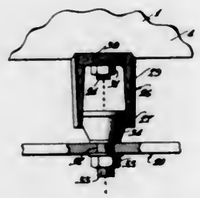
1. A locomotive blow-off cock providing for a continuous small volume blow-off and an intermittent large volume blow-off from a single connection to the interior of a boiler shell, comprising an elongated body having a plurality of chambers, a connection extending laterally from the body for establishing communication between one of said chambers and the interior of the boiler, a discharge passage extending laterally from the other chamber, a seat between said chambers, a manually controlled valve disposed in said first chamber and arranged to close against said seat, a stem for said valve extending longitudinally of the body through said other chamber, a plug threaded into the end of the body and forming one wall of said first chamber, said plug being provided with a discharge passage communicating with said chamber, a pressure controlled valve disposed in said first chamber, a pressure actuated piston connected to operate said last mentioned valve for opening said plug passage, and a connection between said plug passage and said first mentioned discharge passage, said first mentioned discharge passage serving as the conduit for the discharge for products blown off past both of said valves.

2,317,547
COMMUNICATION SYSTEM
Don C. McRae, Miami Springs, Fla.
Application September 6, 1941, Serial No. 409,816
1 Claim. (Cl. 250—13)



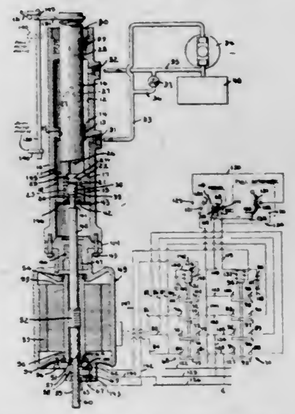
In a carrier communication system, a mixer stage, means for impressing electrical energy at a predetermined signal frequency on said mixer stage, an oscillator having an output frequency continuously variable over a predetermined range of frequencies, means for impressing energy derived from said oscillator on said mixer stage, means for amplifying and detecting one of the resultant beat frequency energies present in the output of said mixer stage, a second oscillator providing energy at a frequency substantially equal to that of the amplified and detected beat frequency energy, means for impressing energy from said second mentioned oscillator on said amplifying and detecting means, a second mixer stage, means for impressing energy from first mentioned oscillator on said mixer stage, means for impressing energy from said second mentioned oscillator on said second mixer stage, means for selectively amplifying one of the resultant beat frequency energies present in the output of said second mixer stage, and means for transmitting said amplified energy.

2,317,548
DETERGENT DISPENSER
Samuel J. Miller, Cincinnati, Ohio, assignor to The Du Bois Soap Company, Cincinnati, Ohio, a corporation of Ohio
Application May 15, 1940, Serial No. 335,368
5 Claims. (Cl. 299—83)



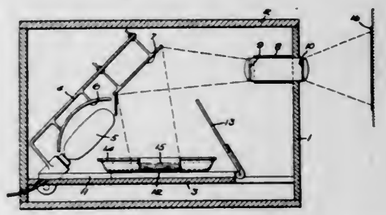
1. A device of the class described adapted to dispense detergent solution to a funnel which device comprises a tank, a support for holding the tank in an elevated position, the tank having an outlet skirt, the said skirt depending from the tank adjacent the outlet and adapted for loosely telescopically engaging a funnel whereby the tank may be removably associated with the funnel, and may be separated therefrom by lifting of the tank, but with the skirt arranged to locate the outlet of the tank in a predetermined position with respect to the funnel when the skirt surrounds the funnel.

2,317,549
ELECTRICALLY CONTROLLED RECIPROCATING FLUID MOTOR
Johan A. Muller and Ira B. Lawyer, Mount Gilead, Ohio, assignors to The Hydraulic Development Corporation, Inc., Wilmington, Del., a corporation of Delaware
Application July 6, 1940, Serial No. 344,278
2 Claims. (Cl. 137—139)



1. In combination in a servomotor, a valve, a reversible electric motor, a reciprocable control rod arranged in alignment with the motor shaft of said electric motor for operating said valve, means for positively preventing rotation of said control rod in all positions of its movement, screw means directly interconnecting said motor shaft and said control rod and responsive to a rotation of said motor shaft for effecting longitudinal movement of said control rod, and electric means for selectively varying the length of the stroke of said control rod.

2,317,550
PROJECTION DEVICE
John J. Ormond, Boston, Mass., assignor of two-thirds to Joseph D. Ramsey, Boston, Mass.
Application June 17, 1941, Serial No. 398,415
3 Claims. (Cl. 88—24)



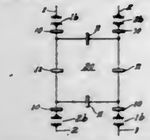
1. A device for the projection of images of opaque objects comprising a substantially light tight casing, a source of light in said casing, opaque subject matter desired to be projected located in the base of said casing, reflecting means and lens means adapted to pass light rays reflected from the subject matter to a projection surface outside of the casing, a receptacle lying in contact with the surface of the subject matter in the base of the casing, said receptacle containing a fluid medium for absorbing heat from the illuminating means.

2,317,551
ETCHING
John J. Ormond, Boston, Mass., assignor of two-thirds to Joseph D. Ramsey, Boston, Mass.
Application June 30, 1941, Serial No. 400,425
7 Claims. (Cl. 41—42)



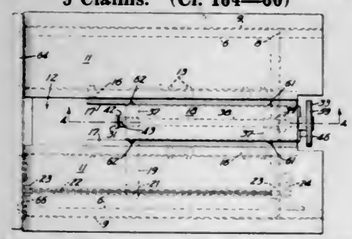
1. An improved method of engraving which comprises selectively applying resist material on a surface to be engraved, mounting an absorbent material over the surface to be engraved and the resist material, introducing an etching reagent into the absorbent material, then superimposing over the absorbent material a pressure element and resiliently urging the pressure element against the absorbent material for the purpose of forcing acid against the surface to be engraved.

2,317,552
ELECTRICAL DISTRIBUTION SYSTEM
John S. Parsons, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 28, 1940, Serial No. 342,938
78 Claims. (Cl. 175—294)



1. In an electrical distribution system a plurality of substantially independent secondary loop circuits, and a plurality of primary feeder circuits for supplying electrical energy to said secondary loop circuits, each of said primary feeder circuits being operatively connected to each of said loop circuits at a plurality of points, and said loop circuits being electrically connected to each other only through said primary feeder circuits.

2,317,553
POWER SHEAR
Raymond H. Peterson, Hayward, Calif.
Application December 12, 1941, Serial No. 422,649
5 Claims. (Cl. 164—60)



2. A power shear comprising a stand having a table top provided with a recessed well extending therealong, guides in said well, a slitter head mounted in said well and provided with rails movably engaging the said guides, a feed screw journaled on said stand and paralleling the path of movement of said slitter head, an arm mounted on said slitter head and extending toward said feed screw, a nut carried by said arm and threadedly engaging said feed screw, an horizontally spaced pair of fixed lower bearing blocks mounted in said slitter head, a superposed pair of upper bearing blocks in said slitter head, one of said upper bearing blocks being pivotally mounted in the slitter head and the other upper bearing block being movable in an arc centered at the pivot of said pivotally mounted bearing block, cutter shafts journaled in said upper and lower bearing blocks, said cutter shafts at one end thereof being provided with disk cutters positioned in radially overlapped relationship and, at the other end thereof, with intermeshed spur gears, one of said cutter shafts further being provided with a drive pulley, a motor carried by said slitter head, a pair of bearing plates secured to and extending from said slitter head, an intermediate shaft journaled in said bearing plates, gearing mounted, respectively, on the shaft of said motor and said intermediate shaft connecting said intermediate shaft to be driven by said motor, a pulley on said intermediate shaft, and a belt tractionally engaging said intermediate shaft pulley and said drive pulley of the cutter shaft whereby said cutter and intermediate shafts are connected for rotation together.

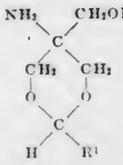
2,317,554
BOTTLE PACKAGE
Arthur H. Risch, Wauwatosa, Wis., assignor to Pulp Reproduction Company, Milwaukee, Wis., a corporation of Wisconsin
Application December 26, 1941, Serial No. 424,428
5 Claims. (Cl. 229—8)



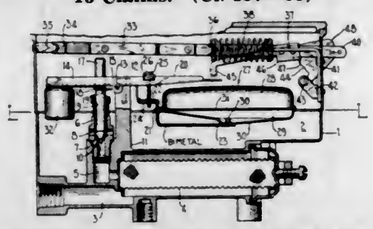
1. In combination, a bottle, a hollow rigid receptacle for said bottle having an outer annular surface and being provided with an upper integral inwardly directed flange defining an opening of approximately the same diameter as the body of the bottle, a flexible tubular element disposed within said receptacle and providing a liner for the latter, a relatively rigid ring of somewhat smaller diameter than that of said opening resting upon the bottom of said receptacle centrally of said opening and coacting with the bottom of the bottle, a flexible closure sheet disposed over the protruding upper portion of the bottle and coacting with said outer surface, and a retaining collar snugly embracing the edge portions of said sheet and said outer surface.

2,317,555
SURFACE ACTIVE AGENT
Hillary Robinette, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland
No Drawing. Application November 15, 1941, Serial No. 419,317
4 Claims. (Cl. 252—357)

1. In the process for the wet treatment of organic fibrous materials in an aqueous bath, the improvement which comprises incorporating in the bath in an amount to change its surface active properties, an aminodioxane of the formula:



2,317,556
LIQUID LEVEL CONTROLLING MEANS
Philip S. Russel, Detroit, Mich., assignor to Detroit Lubricator Company, Detroit, Mich., a corporation of Michigan
Application April 3, 1940, Serial No. 327,689
13 Claims. (Cl. 137—68)

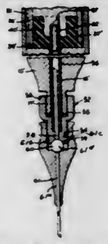


1. In a liquid level controlling device, a casing having a liquid receiving reservoir with an inlet, a valve controlling said inlet, a float member, a lever arm operatively connected to said valve, an elongated supporting member on said arm and extending beneath and secured to the bottom of said float member, said arm having lost motion relative to said valve upon limitation of movement of said valve to close said inlet, an extension on said arm, an adjustment screw engaging said extension and said supporting member and operable to adjust said float member relative to said extension, safety means operable to engage said valve to close said inlet, and means operable by said extension upon movement of said float member by increased liquid level in said reservoir to render said safety means effective.

2,317,557
RECOVERY OF NITRO COMPOUNDS FROM AQUEOUS ALCOHOLIC MIXTURES CONTAINING NITROMETHANE
Murray Senkus, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland
No Drawing. Application February 14, 1941, Serial No. 378,940
1 Claim. (Cl. 260—635)

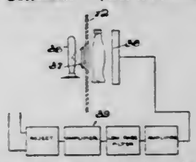
A process of treating a fraction obtained in distilling liquid reaction products from the vapor phase nitration of propane, said fraction containing nitromethane, propyl alcohols, and water, which comprises incorporating an alkaline catalyst in said fraction, adding formaldehyde to the resulting mixture, effecting condensation of the nitromethane and formaldehyde to form tris(hydroxymethyl) nitromethane and separating the remainder of the reaction mixture from the nitrohydroxy compounds by evaporation, leaving the latter as a residue.

2,317,558
HYPODERMIC SYRINGE CONSTRUCTION
Arthur E. Smith, Los Angeles, Calif.
Application March 24, 1941, Serial No. 384,879
7 Claims. (Cl. 128—218)



1. In a hypodermic syringe, an elongated barrel, an end member for each end of the barrel, an ampule in said barrel, said ampule having a cork in each end, and one of said end members having an inwardly projecting sharpened tube thereon, said tube being adapted to receive a medicinal pellet, the cork adjacent said one end member having a puncturable portion.

2,317,559
METHOD OF DETECTING FOREIGN INGREDIENTS IN CLOSED CONTAINERS
George Philip Stout, Baltimore County, Md., assignor to The Coca-Cola Company, Wilmington, Del., a corporation of Delaware
Application September 10, 1941, Serial No. 410,315
7 Claims. (Cl. 209—111)

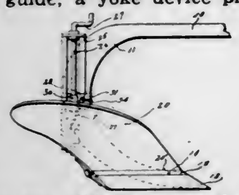


1. The method of inspecting bottled beverages for the purpose of locating foreign ingredients therein, which consists of rapidly rotating the bottles in which said fluids are contained, passing a beam of radiant energy through said contents at a time when the rate of revolution thereof is appreciably under the speed of rotation of the outside of the container, and amplifying the impulse caused by the interruption in said beam of energy caused by the movement of a foreign particle into or out of same to effect a rejection of a bottle containing a foreign particle, said amplification to be so tuned as to disregard impulses having relatively high frequencies and set up by the movement of the outside of said bottles.

2,317,560
ADJUSTABLE MOLD BOARD
Ernest Stroup, Homerville, Ohio
Application April 17, 1940, Serial No. 330,170
6 Claims. (Cl. 97—118)

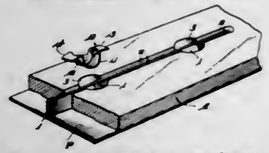
1. A plow structure comprising a frame portion, a plow share element thereon, a mold board pivoted on the share, a guide mounted on the

frame extending generally from the direction of the ground upwardly, an adjusting member having an inclined guide portion and slidably mounted in the guide, a yoke device pivoted on the



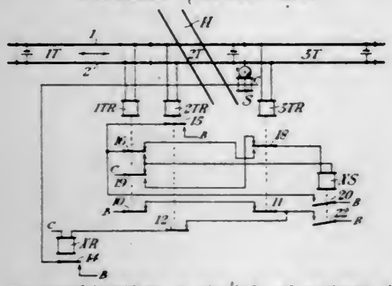
mold board and slidably engaged with said inclined portion of the adjusting member, and means to hold the adjusting member in adjusted positions.

2,317,561
CLIP FASTENER
George A. Tinnerman, Cleveland, Ohio, assignor to Tinnerman Products, Inc., Cleveland, Ohio, a corporation of Ohio
Original application April 16, 1940, Serial No. 329,950, now Patent No. 2,247,975, dated July 1, 1941. Divided and this application May 22, 1941, Serial No. 394,711
11 Claims. (Cl. 85—36)



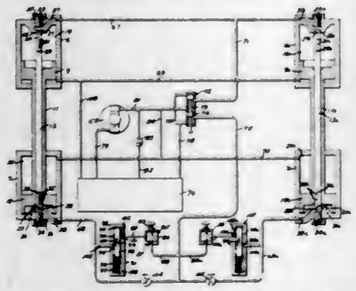
1. A fastener comprising a sheet metal body having a cutout area defining means including spaced longitudinal sections bordering said cutout area, said longitudinal sections having bent portions intermediate their lengths defining generally U-shaped spring arms in spaced edge to edge relation and adapted for edgewise expansion, said sections being provided with teeth for gripping an article in the space therebetween, said sheet metal body having extensions beyond the arms adapted to engage a part or object to which the article is to be secured.

2,317,562
RAILWAY SIGNALING APPARATUS
Thomas W. Tizzard, Jr., Downers Grove, Ill., assignor to The Union Switch and Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application February 25, 1942, Serial No. 432,217
5 Claims. (Cl. 246—130)



1. In combination, a stretch of railway track over which traffic moves in both directions, said track stretch being divided into a first and a second track section which are separated by an intermediate section which includes a highway intersection, each of said track sections being provided with a track circuit including a track relay, a highway crossing signal located at said intersection, a control relay effective when energized to interrupt the circuit of said signal, a circuit including front contacts of each of said track relays for supplying energy to said control relay, an auxiliary relay, a circuit including front contacts of the intermediate section track relay and of said auxiliary relay for also supplying energy to said control relay, a pick-up circuit for said auxiliary relay including a back contact of the intermediate section track relay, a stick circuit for said auxiliary relay including its own front contact, and means including contacts of the first and second section track relays for controlling the circuits of said auxiliary relay so that when the contacts of the first section track relay are picked up and the contacts of the second section track relay are released energy of one polarity is supplied to said auxiliary relay and so that when the contacts of the first section track relay are released and the contacts of the second section track relay are picked up energy of the other polarity is supplied to said auxiliary relay.

2,317,563
HYDRAULIC BRAKE
Warren R. Tucker, Dayton, Ohio, assignor to The Hydraulic Development Corp. Inc., Wilmington, Del., a corporation of Delaware
Application May 23, 1940, Serial No. 336,792
4 Claims. (Cl. 100—71)



2. In combination in a press, spaced hydraulic motors, a platen or beam interconnecting said motors and adapted to be reciprocated thereby, a fluid source for supplying pressure fluid to said motors to actuate the same, hydraulic means adapted to maintain synchronous movement of said motors, a plurality of valve rods having metering ports and passageways therein, hydraulic means associated with said valve rods for hydraulically stopping said motors, switch means operable by said platen or beam for reversing the direction of said motors, and means adapted simultaneously to adjust said valve rods and switch means for varying the point at which the platen or beam is stopped and its movement reversed.

2,317,564
GUARD FOR PAPER INDICATED DOBBIES
Richard G. Turner, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application September 14, 1942, Serial No. 458,219
14 Claims. (Cl. 139—68)

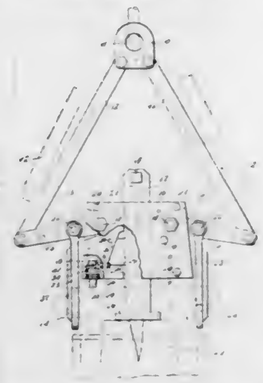
1. In a dobby capable of operating with sheet pattens of different widths and having a set of hook lifters, a plurality of pattern reading

members arranged transversely of the sheet pattern capable of cooperating with the whole set of lifters, a narrow sheet pattern being aligned with a part only of said members, means to move all of said members toward their respec-



tive lifters, for a pattern reading operation of the dobby, and stop means to prevent cooperation of those members out of alignment with the sheet pattern with their respective lifters.

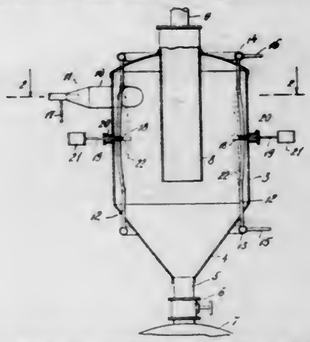
2,317,565
STRIPPING MECHANISM
Walter W. Urmetz, Parma, Ohio, assignor to The Ferro Engineering Company, Cleveland, Ohio, a corporation of Ohio
Application January 14, 1942, Serial No. 426,747
7 Claims. (Cl. 22—95)



1. In stripper mechanism of the character described, a vertical ram for exerting downward pressure, a housing, means for locking the ram against movement downwardly relative to the housing after the engagement of the ram with the work is effected, a pair of levers pivotally connected at their inner ends with said housing, means for applying lifting force to the outer ends of said levers simultaneously, and lifting hooks pivotally connected with said levers at points intermediate the ends of the latter.

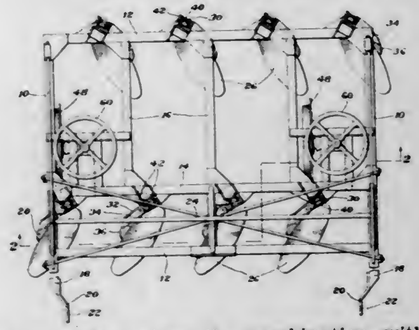
2,317,566
APPARATUS FOR COKING OILS
Ernest Utterback, Upper Darby, Pa., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application July 24, 1941, Serial No. 403,790
4 Claims. (Cl. 202—96)

3. Apparatus for the spray coking of heavy oils comprising, a vertical cylindrical chamber, means for ejecting dispersed heavy oils substantially tangentially into the upper part of said chamber, means for withdrawing coke from the bottom of said chamber, means disposed axially of said chamber for withdrawing vapors from a region near the bottom thereof, spaced conduit means arranged about the inner cylindrical wall of said chamber, means for circulating a heat exchange medium through said conduit means, and means independent of said circulating means for vibrat-



ing said conduit means to loosen adherent coke therefrom.

2,317,567
PLOW
George R. Vinsonhaler, Wahiawa, Oahu, Territory of Hawaii, assignor to Hawaiian Pineapple Company, Limited, Honolulu, Territory of Hawaii, a corporation of Hawaii
Application November 3, 1941, Serial No. 417,597
10 Claims. (Cl. 97—53)

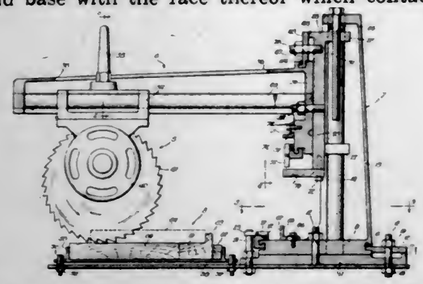


7. In a disc plow, the combination with a frame of a disc support post fixed to the frame and depending therefrom in substantially vertical position, an arm extending forwardly and laterally from adjacent the lower end of said post at an oblique angle to the direction of draft of the plow, a bearing sleeve on said arm adjacent the outer end thereof, and a disc having a hub projecting centrally from its rear surface and rotatably held in said sleeve, said disc being faced at substantially said oblique angle to the direction of draft, said arm and the lower end of said post being located at the rear of the disc and within the confines of the path of the disc whereby to avoid interference thereof with the free flow of soil past said disc.

2,317,568
SAWING MACHINE
John D. Wallace and Clifford H. Landis, Chicago, Ill., assignors to J. D. Wallace & Co., Chicago, Ill., a corporation of Illinois
Application November 1, 1940, Serial No. 363,850
7 Claims. (Cl. 143—6)

2. A straight line sawing machine comprising a work holding table, a base, a standard mounted on said base and rotatable on a vertical axis, an arm carried by said standard, a power saw unit

movably supported on said arm to traverse said table, a guide on said standard separately formed from and positioned in spaced relation to the portion of said standard which supports said arm and adapted to form an abutment for a carpenter's square, a second guide fixed relative to said base with the face thereof which contacts



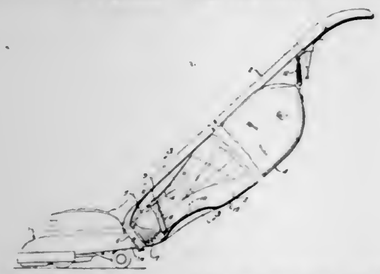
said square permanently in a plane at right angles to the plane of said first guide abutment and coacting with the carpenter's square to determine the angular disposition of said power saw unit relative to said work holding table, and means for locking said standard in any one of various angular positions relative to said base.

2,317,569

FILTER BAG SUPPORT FOR SUCTION CLEANERS

James W. Weaver, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio

Application November 22, 1940, Serial No. 366,526
4 Claims. (Cl. 183—51)



1. A filter bag assembly for suction cleaners, comprising a bag of filtering material adapted for detachable connection with the exhaust outlet from the cleaner, and an outer envelope of fabric enclosing said filter bag and including a girdle-like support for the lower portion of said filter bag, the same consisting of a piece of fabric having its end edges stitched to the interior of said outer envelope to form a band conforming substantially to the contour of the portion of the filter bag to be supported thereby.

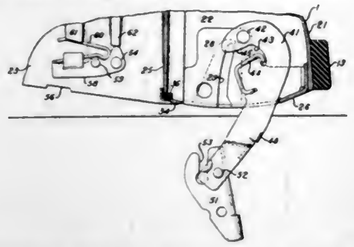
2,317,570

SUCTION CLEANER

Harry B. White, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio

Application April 28, 1941, Serial No. 390,662
6 Claims. (Cl. 15—6)

1. In a suction cleaner, a body including a nozzle, a suction-creating fan chamber, an air passageway connecting said nozzle and said fan chamber, and an exhaust outlet; an agitator positioned in said nozzle, a removable bottom plate forming one side of said air passageway and the rear nozzle lip, a pivoted locking plate at each end of said nozzle underlying said agitator and



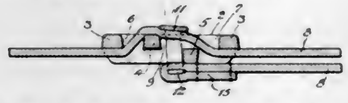
said bottom plate to secure each in place, and manually operable means to secure each locking plate in place.

2,317,571

BAIL BUCKLE

Paul W. White, Waterbury, Conn., assignor to Parva Products Company, Chicago, Ill., a corporation of Delaware

Application December 29, 1941, Serial No. 424,721
10 Claims. (Cl. 24—171)



3. A two-piece buckle comprising a frame having side bars and cross bars defining three parallel slots, the upper surface of one of the two intermediate cross bars being substantially in alignment with the bottom surface of the remaining cross bars, and a bail between said intermediate cross bars and extending above and below said frame so that a tape or web may be threaded through both outer slots and through said bail over said intermediate bars, said bars and said bail co-operating so that said tape will be clamped between the upper span of said bail and the upper intermediate cross bar when leverage is applied to the lower span of said bail with the lower intermediate cross bar as a fulcrum, the upper span of said bail being materially wider than the slot between said intermediate cross bars and so related thereto that a thick web may be clamped between one edge of said upper span and the upper corner of the upper intermediate cross bar, and a thin web may be clamped between said edge and the side of said upper cross bar and in either case said upper span will overlap said lower cross bar.

2,317,572

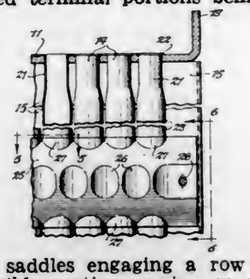
DIRECT SURFACE INTERCOOLER

Sidney A. Whitt, Buffalo, and Stanislaus Przyborowski, Tonawanda, N. Y., assignors to Fedders Manufacturing Company, Inc., Buffalo, N. Y.

Application February 28, 1942, Serial No. 432,846
4 Claims. (Cl. 257—236)

1. An intercooler for airplanes comprising upper and lower header plates, a plurality of tubes connected to and extending between the header plates, side plates on opposite sides of the header plates and tubes to form a heat interchanger in which flow may take place through the tubes and in one direction around the tubes, and dampening strips disposed between the tubes and engaging the midportions of tubes in adjacent rows,

said strips comprising a bent sheet metal section having a flexible portion and terminal portions, said connected terminal portions being formed



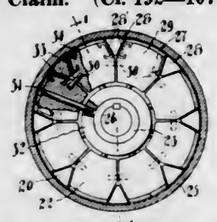
with spaced saddles engaging a row of tubes, and said flexible portion serving as a resilient strut between adjacent rows of tubes.

2,317,573

CENTRIFUGAL CLUTCH

Norman Bruce Wilson, Toronto, Ontario, Canada

Application May 2, 1940, Serial No. 332,917
1 Claim. (Cl. 192—107)



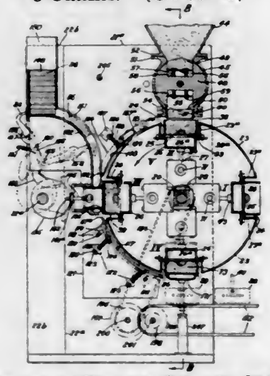
A shoe for a centrifugal clutch in which shoes are arranged in series side by side and guidably controlled for radial movement by driving elements interposed between adjacent sides of the shoes, said shoe comprising a cast metal body, a wear plate moldably embedded therein at each side adjacent to the driving elements so as to act as a wear-resisting bearing surface, each plate having inturned anchoring ends, and a spacing plate extending between the wear plates and fitted in the inturned ends thereof and moldably embedded in the shoe.

2,317,574

VERTICAL ROTARY MOLDING MACHINE

William John Williams, Rosebery, New South Wales, Australia

Application August 20, 1942, Serial No. 455,515
In Australia April 22, 1941
5 Claims. (Cl. 22—9)



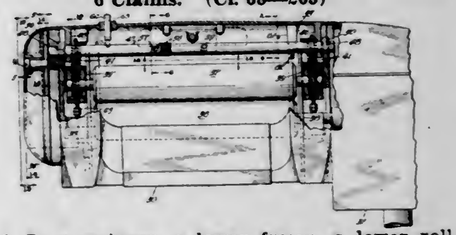
1. A rotary molding machine including a rotor adapted to rotate in arcs of 90° through 360° in a vertical plane and having recesses spaced around its circumferential surface, each recess being adapted to receive a removable pattern plate at the base thereof and a mold box therein carried on said pattern plate, means above the highest point of the rotor for filling the mold box with molding material, means spaced 90° from said mold box filling means for applying a mold board to the outer surface of said molding material, means for preventing spillage of molding material from the mold box during rotation of said rotor through the first arc of 90° after filling, means spaced 180° from said mold box filling means for removing said mold from the rotor, and means for retaining the mold board in fixed position during rotation of the rotor to the mold box removal position.

2,317,575

ADJUSTABLE PRESSURE WRINGER

Henry W. Altorfer, Peoria, Ill.

Application November 17, 1938, Serial No. 240,884
6 Claims. (Cl. 68—263)



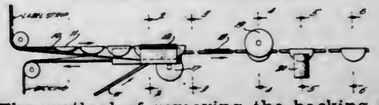
1. In a wringer, a lower frame, a lower roll mounted in the lower frame, an upper frame, an upper roll resiliently mounted to the upper frame to urge the roll downward into pressure relationship with the lower roll, a cam bar rotatably mounted in the upper frame, hook members for said cam bar, cam and lever mechanism on the lower frame to actuate the cam bar for downward camming movement of the upper frame, and releasable means to fix the cam bar at various points of its movement whereby variable roll pressure may be set at the option of the operator.

2,317,576

LABEL DISPENSER

Ray Stanton Avery, Los Angeles, Calif.

Application May 14, 1941, Serial No. 393,359
9 Claims. (Cl. 216—9)



1. The method of removing the backing from labels atached to the backing by pressure sensitive adhesive which comprises drawing the backing over a transversely arched relatively sharp edge thus peeling the backing from the label.

2,317,577

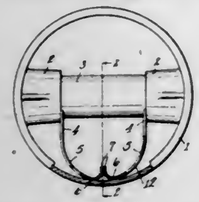
PISTON EXPANDER

Virgil D. Ackerman, Hastings, Mich., assignor to Hastings Manufacturing Company, Hastings, Mich., a corporation of Michigan

Application February 12, 1942, Serial No. 430,563
2 Claims. (Cl. 309—12)

1. A piston expander comprising a pair of oppositely disposed coacting blade spring expander members having inwardly curved piston wall en-

gaging portions at their outer ends terminating in inturned mutually abutting and supporting ends, the inner edges of the expander members having curved piston pin seats of substantial depth engageable with a piston pin as an abutment therefor, the inner edges of the expander members at the inner sides of said seats being inclined to facilitate the expander members being driven into a piston to abuttingly engage said seats with a piston pin, with the inner ends of the expander members in supported engagement



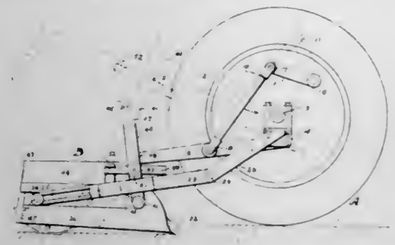
with the inner ends of the piston pin bosses of a piston, said expander members having converging curved portions at their outer ends extending a substantial portion of the length thereof and merging into said inwardly curved piston wall engaging portions, whereby when the expander is installed in a piston the expander members are placed under spring stress urging their outer ends toward each other with their said inturned ends in abutting thrust engagement, and their said piston wall engaging portions in spring thrust engagement with the piston wall.

2,317,578

POWER PICKUP AND DUMPING ATTACHMENT FOR TRACTORS

Bruno F. Arps, New Holstein, Wis., assignor to Arps Corporation, New Holstein, Wis., a corporation of Wisconsin

Application February 14, 1941, Serial No. 378,909
8 Claims. (Cl. 37—128)



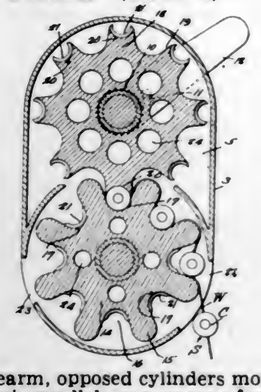
1. A device of the class described, comprising a tractor having transversely spaced draw bar connections rigidly attached thereto, a power lift secured to the tractor frame and having transversely spaced rearwardly extending arms operatively connected thereto, their rear ends adapted to be oscillated vertically thereby, rearwardly extending straps pivotally mounted at their front ends to said draw bar connections and having at their rear ends elongated slots, a scraper bucket positioned between said straps and having pins near its rear end which slidably and rotatably extend through said slots, the rear ends of said rearwardly extending arms having hinged link connections to the forward end of said scraper whereby said forward end may be lowered and raised to loading and dumping positions and to intermediate positions by said power lift.

2,317,579

GUN

Henry Stuart Bacon, West Roxbury, Mass.

Application February 21, 1941, Serial No. 380,063
3 Claims. (Cl. 42—6)



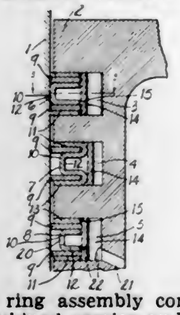
1. In a firearm, opposed cylinders mounted for rotation about parallel axes, means for rotating one of the cylinders, regularly spaced ribs on one of the cylinders providing grooves therebetween of a depth greater than the diameter of a cartridge shell to be used in the firearm, regularly spaced ribs on the other cylinder proportioned to straddle the first named ribs and to enter the grooves, each of said last named ribs, while in a groove, cooperating with the wall of the groove to provide a shell-holding chamber, the ribs on the two cylinders constituting means for transmitting rotary motion from one cylinder to the other, and a barrel having a bore positioned to register with each chamber when a shell is held therein.

2,317,580

COMPOSITE PISTON RING

Edward L. Bauer, Hastings, Mich., assignor to Hastings Manufacturing Company, Hastings, Mich., a corporation of Michigan

Application January 6, 1940, Serial No. 312,733
5 Claims. (Cl. 309—45)



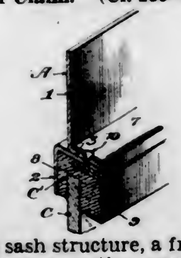
5. A piston ring assembly comprising a split expansible combined carrier and spacer element of ductile material of a general W-section providing a pair of outwardly opening axially spaced cylinder wall contacting element receiving grooves of substantial radial depth, a pair of flange-like side members, and a U-shaped intermediate spacer member, the inwardly facing bights of said element having openings therein, an annular split expansible cylinder wall engaging element of wear-resisting material disposed in each of said grooves to project into said openings in said bights, and an expander engaging the portions of said cylinder wall engaging elements which project into said openings.

2,317,581

GLAZED METAL SASH CONSTRUCTION

Henry Bianco, Baltimore, Md., assignor to Truscon Steel Company, Youngstown, Ohio, a corporation of Michigan

Application September 11, 1941, Serial No. 410,463
1 Claim. (Cl. 189—76)



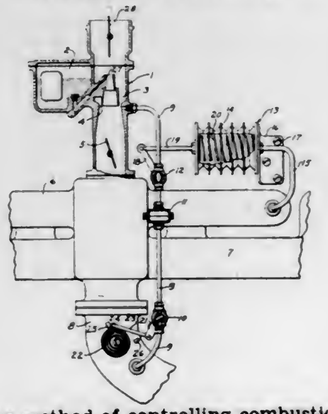
In a metal sash structure, a frame, a pane, said frame including a portion overlapping one face of said pane adjacent to one edge thereof, a flange extending laterally from said frame across said edge of said pane, a pane retaining element including a portion of U-shape in cross section engaged over said flange, a flange extending inwardly from said portion of U-shape in cross section into overlapping relationship to the other face of said pane adjacent to said edge thereof, said portion of U-shape in cross section including side walls and a web joining said side walls, the flange extending inwardly from said portion of U-shape in cross section having its outer face disposed coplanar with the outer face of said web, and means detachably retaining said strip on the lateral flange of said frame, said pane retaining element being formed from a strip of sheet metal having in cross section, its outer marginal portion bent laterally and its medial portion crimped into a double-wall formation extending laterally in the same direction as said outer marginal portion to provide the outer and the inner walls, respectively, of said portions of U-shape in cross section.

2,317,582

ANTIDETONATING DEVICE

George M. Bicknell, St. Louis, Mo., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware

Application February 5, 1942, Serial No. 429,605
8 Claims. (Cl. 123—119)



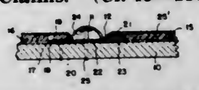
1. The method of controlling combustion pressure in the combustion chamber of an internal combustion engine operating on a combustible mixture of liquid fuel and air which comprises diluting the mixture with exhaust gases of the engine, and varying the degree of such dilution in accordance with both the temperature of the engine and the suction in the intake manifold.

2,317,583

TRIM PANEL

Edward P. Bolen and Edward R. Detrick, Detroit, Mich., assignors to National Automotive Fibres, Inc., Detroit, Mich., a corporation of Delaware

Application June 16, 1941, Serial No. 398,324
7 Claims. (Cl. 45—138)



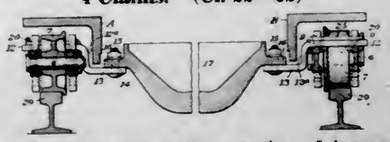
5. A trim panel having a panel board, a breaker strip and a resilient strip on said panel board, the resilient strip having a longitudinally extending bead spaced from the breaker strip and having a relatively thin substantially flat portion between said bead and breaker strip, trim fabric for the panel board extending over the breaker strip and having a portion folded inwardly around and beneath said breaker strip, trim fabric for the panel board having a portion overlying the bead and flat portion respectively of the resilient strip and extending beneath the folded portion of the first mentioned fabric, and means holding the parts in assembled relation including securing elements extending through the breaker strip and portions aforesaid of said fabrics and engaging said panel board, and a molding strip upon the portion of the second mentioned fabric between the bead and breaker strip and secured to said panel board.

2,317,584

PIG CASTING APPARATUS

Frank F. Bollinger, Pittsburgh, and Carl L. Kenney, Ben Avon, Pa.

Original application February 26, 1941, Serial No. 380,580. Divided and this application June 12, 1942, Serial No. 446,700
4 Claims. (Cl. 22—62)



1. In combination with a series of transverse molds having endmost connecting terminals, outer conveying chains, mold supporting members mounted on the chains having an offset extension disposed inwardly and engaging the mold terminals, and longitudinally arranged protecting members for the chains between them and the molds.

2,317,585

POLYMERIZED CARDANOL

Solomon Caplan, New York, N. Y., assignor to The Harvel Corporation, a corporation of New Jersey

No Drawing. Application January 26, 1940, Serial No. 315,760
2 Claims. (Cl. 260—46)

1. A liquid polymer of "cardanol," obtained by heating cardanol in contact with a dialkyl sulphate, which liquid polymer has the characteristics (1) of being reactive with aldehydes and reactive methylene group containing agents to form condensation products (2) of being further polymerizable from intermediate states of

polymerization to an ultimate state of polymerization in which it is liquid, and (3) in an ultimate state of polymerization, of being a stable liquid at normal and elevated temperatures and of having a substantially constant viscosity.

2,317,586

RUBBERLIKE PRODUCTS FROM DERIVATIVES OF CASHEW NUT SHELL LIQUID AND METHOD FOR PRODUCING THE SAME

Solomon Caplan, New York, N. Y., assignor to The Harvel Corporation, a corporation of New Jersey

No Drawing. Application February 13, 1940, Serial No. 318,707
8 Claims. (Cl. 260—46)

1. The method for producing a solid rubberlike product from a material selected from the group consisting of cardanol, hydrocarbon ethers of cardanol and hydrocarbon ethers of cashew nut shell liquid comprising treating said material with substantially anhydrous hydrofluoric acid.

2,317,587

POLYMERIZATION - FURFURALDEHYDE CONDENSATION PRODUCT OF CASHEW NUT SHELL LIQUID DISTILLATION RESIDUE AND METHOD

Solomon Caplan, New York, N. Y., assignor to The Harvel Corporation, a corporation of New Jersey

No Drawing. Application July 17, 1940, Serial No. 345,983
5 Claims. (Cl. 260—46)

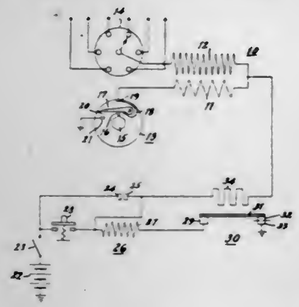
1. The method for producing a dry and infusible resin comprising heating a mixture of a dialkyl sulphate, furfuraldehyde and a residue material selected from the group consisting of cashew nut shell liquid, marking nut shell liquid and japanese lac, which has been destructively distilled with steam to remove from 25 to 75% thereof as distillate and to leave a residue.

2,317,588

IGNITION SYSTEM

Edward M. Claytor and William J. Rady, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application November 7, 1940, Serial No. 364,702
4 Claims. (Cl. 123—146.5)



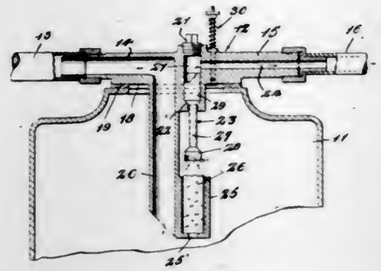
1. An ignition circuit comprising a current source, a timer, an ignition coil primary winding, a relay having a magnet coil and a pair of normally open contacts which, when closed, make a connection between the current source and the magnet coil and between the current source and the primary winding and timer, a thermal switch for normally making a connection between the current source and relay magnet coil, said thermal switch having provisions responsive to continuous current flow to the primary winding for causing the thermal switch to interrupt said connection made by it, but not responsive to intermittent current flow while the engine is running, a manually operated switch in parallel with the relay contacts and means independent of the thermal switch for rendering the relay magnet coil ineffective to hold the relay contacts closed.

2,317,589

AUTOMATIC LIQUID LIFTER

Alick B. Collinson, Glasgow, Mont.

Application July 26, 1941, Serial No. 404,254
3 Claims. (Cl. 226—116)



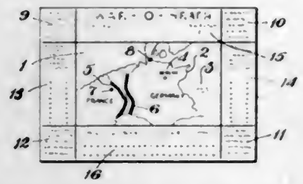
2. A suction pump comprising a body member having a planiform base for seating engagement with the mouth of a receptacle to be filled, said body having an inlet opening upon the interior of the receptacle, the body member further having a bore, a suction nipple on the body member having a port opening upon the bore, a valve slidably mounted in the bore, the valve having an opening therethrough and normally having communication with the receptacle, a float within the receptacle movable by the rising liquid level in the receptacle to restrict the open end of the valve whereby to impart a quick upward movement of the valve for closing said port.

2,317,590

EDUCATIONAL AND AMUSEMENT DEVICE

Thomas Compere, Roslyn, N. Y.

Application November 22, 1939, Serial No. 305,591
10 Claims. (Cl. 35—40)



1. An information indicator device, comprising a recording surface containing a plurality of interrelated indicia impressed thereon and in combination therewith a plurality of indicator elements removably engageable with said surface in variable relation in locality to the indicia impressed thereon, and provided for deformable interconnected relation one to another.

2,317,591

METHOD OF TREATING PHOTOGRAPHIC MATERIAL

Arnaud Cramwinckel, Cornelis Johannes Dippel, Klaas Jannes Keuning, and Franciscus Lambertus Van Weenen, Eindhoven, Netherlands, assignors, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application June 13, 1940, Serial No. 340,392
In the Netherlands May 27, 1939
6 Claims. (Cl. 95—88)



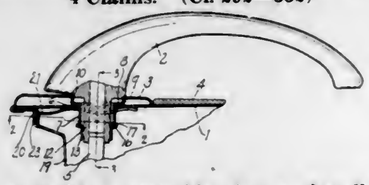
4. A method of producing contrasts on band-shaped photographic material having a supporting layer which is subject to elongation when treated with a liquid, comprising the steps of winding the material in a plurality of single layer turns about a support with the surface of the material in intimate contact with the surface of the support, fixedly positioning the material relative to the support so as to prevent relative lateral movement between the material and the support when the material is subjected to a liquid treatment, and developing the photographic material in a liquid developing solution while so positioned on the support.

2,317,592

HANDLE ASSEMBLY

George E. Dey, Grand Rapids, Mich., assignor to W. B. Jarvis Company, Grand Rapids, Mich.

Application August 8, 1941, Serial No. 405,907
4 Claims. (Cl. 292—352)



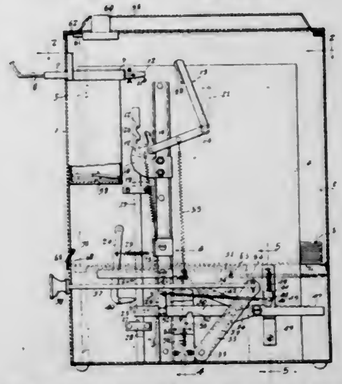
1. A locking assembly for a handle and escutcheon adapting the same to be readily assembled on a door or other structure, the handle having a shank and the escutcheon being telescoped thereon and engageable with an outer door panel, said assembly comprising a tubular mounting member adapted to be telescoped on the handle shank in axial thrust transmitting relation to said escutcheon with substantial lateral clearance between the shank and member, a collar telescoped on the handle shank in axial thrust engagement with said member with an anti-rattle spring interposed, said collar being rigidly secured to the handle to prevent axial separation from the handle of the parts telescoped thereon, said mounting member having a shoulder for axial thrust engagement with said panel, and a resilient forked locking key operatively insertable from the exterior of the door normal to the axis of said telescoped parts, said key straddling said mounting member and having spring engagement at its sides with said panel and mounting member to thrust the latter axially inwardly relative to the panel, said key being longitudinally sinuous in outline for resiliency and compressibility between the panel and mounting member, said mounting member having a projection engageable by said locking member for effecting said axial thrust transmitting connection between the locking and mounting members and said key having a detent engageable with said projection to resist displacement of the key from operative position.

2,317,593

COIN CONTROLLED RELEASE MECHANISM

George W. Dooley, San Bernardino, Calif., assignor to Milton R. Standish, San Bernardino, Calif.

Application February 1, 1939, Serial No. 254,025
8 Claims. (Cl. 194—2)



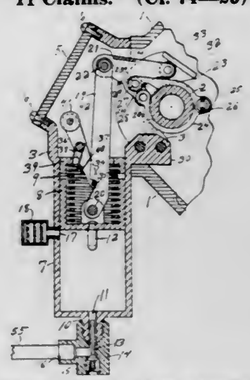
6. In a coin control for releasing a mechanism having a "moving part," the combination of a movable stop normally disposed in a locking position to prevent movement of the said "moving part" and movable into a releasing position in which it permits movement of said "moving part," a coin-receiving means having a driver associated therewith and movable through a path of travel when the coin-receiving means is operated, an actuator disposed in the path of travel of the driver impinged upon by the driver and moved thereby, and means actuated by the actuator for moving the stop with a step-by-step movement to its releasing position.

2,317,594

FLUID PRESSURE DEVICE

George R. Ericson, Kirkwood, Mo., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware

Substituted for abandoned application Serial No. 152,199, July 6, 1937. This application October 24, 1939, Serial No. 301,009
11 Claims. (Cl. 74—25)



1. In a device of the class described, a variable

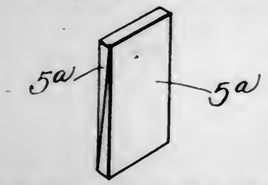
speed driving shaft, a device including a reciprocating member, mechanism for intermittently gripping said shaft to effect operation of said member in one direction only, means for disengaging said gripping mechanism at a selected point in the movement of said member, spring means for effecting the return stroke of said member independently of said shaft and at substantially uniform rate when said gripping means is disengaged, and means controlled by said member at the end of its stroke for reengaging said gripping mechanism.

2,317,595
CARPET
Harold P. Faris, Philadelphia, Pa., assignor to National Automotive Fibres, Inc., Detroit, Mich., a corporation of Delaware
Application August 1, 1941, Serial No. 405,106
6 Claims. (Cl. 154—2)



6. The method of making a cemented pile carpet which comprises the steps of adhering in surface to surface relation a layer of relatively soft rubber to one side of an open mesh fabric, adhering in surface to surface relation to the other side of said fabric a layer of relatively soft cement, vibrating the assembly in a vertical direction, cutting to a substantially uniform length of about ⅛ of an inch a multitude of wool fibers, sifting the cut fibers onto the cement while the assembly is being vibrated so that a substantial portion of said fibers will imbed themselves endwise in said cement at angles ranging from about 10 degrees to 90 degrees relative to the layer of cement to provide a relatively soft tread surface, cutting to a substantially uniform length of about $\frac{3}{32}$ of an inch a multitude of goat hairs, and thereafter sifting the cut goat hairs onto the cement while the assembly is being vibrated so that a substantial portion of said goat hairs will penetrate through the pile formed by the wool fibers and will imbed themselves endwise in said cement to provide beneath said soft tread surface lateral supports for said wool fibers.

2,317,596
METHOD OF MAKING ROOFING
Albert C. Fischer, Chicago, Ill., assignor to The Philip Carey Manufacturing Company, a corporation of Ohio
Application July 20, 1931, Serial No. 551,923
11 Claims. (Cl. 154—2)



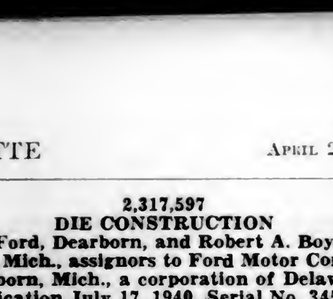
1. The method of producing shingles tapering in thickness and having a felted fibrous foundation containing waterproofing material which comprises producing fibrous sheets of such material equal in area to that of a shingle and of a thickness substantially equal to the sum of the thicknesses of butt and thin ends of a desired shingle, and rolling apart said sheets along diagonal planes from end to end to produce two shingles from each.

2,317,597
DIE CONSTRUCTION
Henry Ford, Dearborn, and Robert A. Boyer, Detroit, Mich., assignors to Ford Motor Company, Dearborn, Mich., a corporation of Delaware
Application July 17, 1940, Serial No. 345,894
3 Claims. (Cl. 18—38)



3. In a mold of the character described comprising a monolithic block, one face of said block having a die cavity formed therein, a thin sheet of steel lining said cavity, the exposed face thereof defining the die surface, a plurality of spaced cooling tubes adjacent the back of said thin sheet and connected thereto, said tubes being formed of a nonmagnetic material of low resistivity, an electrical induction coil imbedded in said block and spaced inwardly from said cooling tubes, whereby said lining may be heated by induction from said coil and cooled by fluid circulated through said tubes, the temperature of said monolithic block remaining substantially unchanged throughout.

2,317,598
EXPANSION JOINT
Carl J. Francois, Cedar Rapids, Iowa
Application February 26, 1941, Serial No. 380,627
8 Claims. (Cl. 285—162)

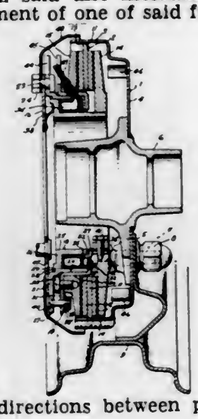


1. In an expansion joint for pipes, a sliding member, a receiving member, a sealing means including a plurality of inter-locking parts adapted to engage the sliding member, said parts having a plurality of flattened outer surfaces, and tapered means, engaged with the receiving member, adapted to receive the flattened outer surfaces of the sealing means and to provide a sliding joint between the parts of the sealing means and the sliding member.

2,317,599
BRAKE
Phelps M. Freer, Detroit, Mich.
Application February 27, 1941, Serial No. 380,913
9 Claims. (Cl. 188—72)

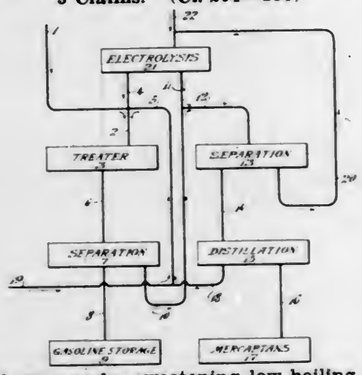
1. In a disc brake, relatively rotatable friction elements, one of said elements comprising an axially movable friction disc, the other of said elements comprising friction members engageable with opposite friction faces of said disc, means for axially moving said friction members toward

and away from said disc including means for securing movement of one of said friction mem-



bers in both directions between predetermined limits.

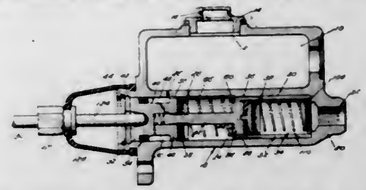
2,317,600
TREATING HYDROCARBON DISTILLATE
Wayne L. Benedict, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application March 30, 1940, Serial No. 326,929
3 Claims. (Cl. 204—136)



1. A process for sweetening low boiling petroleum distillates containing mercaptans which comprises electrolyzing a solution of an alkali metal carbonate to form an alkali metal hydroxide solution and an alkali metal bicarbonate solution, treating the petroleum distillate with said hydroxide solution to transfer mercaptans from the former to the latter, separating the thus treated distillate from the hydroxide solution and recovering the same as a product of the process, commingling the separated mercaptan-containing hydroxide solution with said bicarbonate solution to liberate the mercaptans and form alkali metal carbonate solution, removing the mercaptans and returning the last-named solution to the aforesaid electrolyzing step.

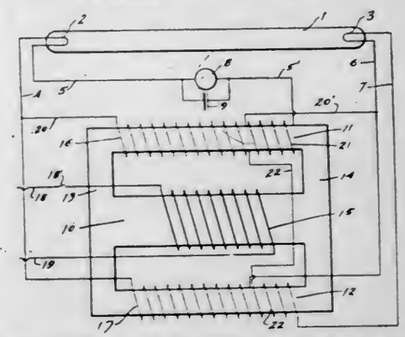
2,317,601
FLUID PRESSURE BRAKING SYSTEM
Owen H. Fowler, Detroit, Mich., assignor to Hydraulic Brake Company, Detroit, Mich., a corporation of California
Application March 7, 1940, Serial No. 322,790
13 Claims. (Cl. 60—54.6)

1. A fluid pressure producing device comprising a cylinder having a large chamber and a small chamber, a piston reciprocable in the large chamber, a floating piston in the small chamber provided with a stem having a peripheral



groove therein, and a valve for relief of pressure in the large chamber controlled by the peripheral groove in the stem of the floating piston.

2,317,602
LAMP STARTER AND MAINTENANCE DEVICE
Willard C. Hall, Jr., and Everett L. Le Gette, Los Angeles, Calif., assignors to Alfred P. Daniels, Los Angeles, Calif.
Application September 19, 1941, Serial No. 411,530
3 Claims. (Cl. 176—124)

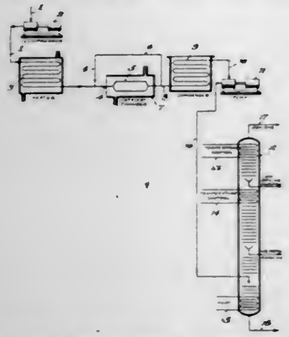


3. In combination, a source of electrical power, an electric discharge lighting device, and a transformer unit; the unit comprising an iron core having three limbs arranged to form a magnetic circuit; a primary coil on one of the limbs having connection with the source of power, a secondary coil set on each of the other limbs of the transformer, each secondary coil set having a device maintenance winding connected in parallel with the device and a starting winding connected in series with the device and said maintenance windings, switch means connected between the device and transformer for closing and opening the starting winding connection with the device.

2,317,603
UTILIZATION OF PETROLEUM REFINERY GAS
Eric B. Hjerpe, Port Arthur, Tex., and William A. Gruse, Wilkinsburg, Pa., assignors to Gulf Oil Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Original application March 25, 1936, Serial No. 70,856. Divided and this application August 8, 1938, Serial No. 223,760
2 Claims. (Cl. 196—10)

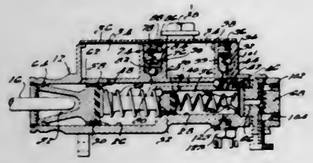
2. In the manufacture of gasoline-like hydrocarbons of high anti-knock value when used as motor fuel, from normally gaseous hydrocarbons such as those produced in cracking petroleum oils, by subjecting such normally gaseous hydrocarbons in the absence of a catalyst to elevated temperatures and pressures effective to polymerize

normally gaseous constituents to low-boiling, normally liquid products, the improvement which comprises subjecting to said polymerizing temperatures and pressures a fraction consisting predominantly of saturated and unsaturated hydro-



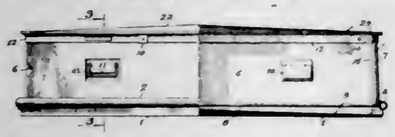
carbons having four carbon atoms per molecule, containing relatively small amounts of hydrocarbons having three carbon atoms per molecule, but substantially free from more refractory hydrocarbons such as methane, ethane and ethylene.

2,317,604
POWER ACTUATOR AND CONTROL FOR HYDRAULIC BRAKES
Lloyd L. Hamilton, Oklahoma City, Okla.
Application May 26, 1941, Serial No. 395,170
2 Claims. (Cl. 188—152)



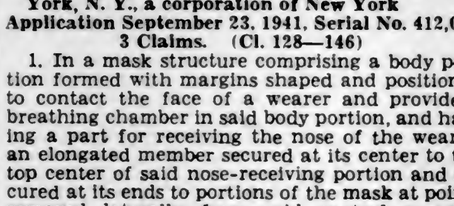
1. In a braking system for braking the front and rear wheels of a vehicle, a compound master cylinder having a pair of bores therein of different diameters, means forming an outlet communicable with said bores, a larger piston in the larger bore of said cylinder, a smaller piston in the other bore, means communicating said outlet with said front and rear wheel brakes, said last named means including means restricting the flow of fluid under pressure to said front wheel brakes, said last named means being constructed to enable the quick release of the fluid pressure on all of said brakes.

2,317,605
CASKET
Manly S. Harris, San Francisco, Calif.
Application February 9, 1942, Serial No. 429,995
6 Claims. (Cl. 27—4)



1. A casket comprising a base plate having substantially tubular portions along the sides thereof; a second base plate superimposed upon said first plate and having substantially tubular portions along the ends thereof; side and end panels having substantially tubular portions on their lower edges rotatably nested within the tubular portions of said base plates; interlocking means on the ends of said panels for securing said panels together; a top frame for engaging the upper edges of said panels and having interlocking means formed integrally therewitb for interlocking said frame with said panels; and a lid hingedly mounted upon said top frame.

2,317,606
AGRICULTURAL DEVICE
Manly S. Harris, San Francisco, Calif.
Application July 22, 1942, Serial No. 451,943
4 Claims. (Cl. 280—242)



3. An agricultural device comprising an arched frame; two pairs of wheels mounted on said frame; a cradle universally suspended within the arch of said frame; pedals pivotally mounted on one end of said cradle and operatively connected to said frame to longitudinally and transversely tilt said cradle; and steering means mounted on said frame and connected to one pair of wheels.

2,317,607
COMPOSITIONS OF MATTER AND METHODS AND STEPS OF MAKING AND USING THE SAME
Mortimer T. Harvey, East Orange, N. J., assignor, by mesne assignments, to The Harvel Corporation, a corporation of New Jersey
No Drawing. Application November 15, 1937, Serial No. 174,662
12 Claims. (Cl. 260—613)

1. The method which comprises subjecting a mixture of a phenol of the class consisting of hydroxybenzene, naphthol and anthranol and their homologues with a phenol having an unsaturated hydrocarbon substituent to a condensing reaction in the presence of a katenoid condensing agent.

2,317,608
MASK
Jay A. Heidbrink, Minneapolis, Minn., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York
Application September 23, 1941, Serial No. 412,021
3 Claims. (Cl. 128—146)

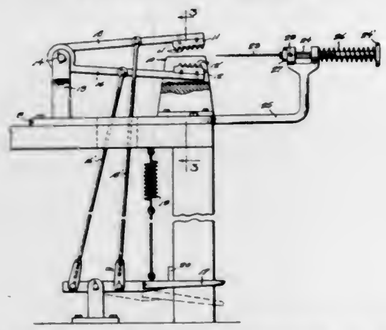
1. In a mask structure comprising a body portion formed with margins shaped and positioned to contact the face of a wearer and provide a breathing chamber in said body portion, and having a part for receiving the nose of the wearer, an elongated member secured at its center to the top center of said nose-receiving portion and secured at its ends to portions of the mask at points removed laterally from said central securing means, the extent of said member at each side of said center being less than the underlying distance along the mask surface, which elongated

member thereby operates to pull the mask portions at the sides of the nose-receiving part there-



of together so as to effect a sealing contact along the sides of the nose when the mask is worn.

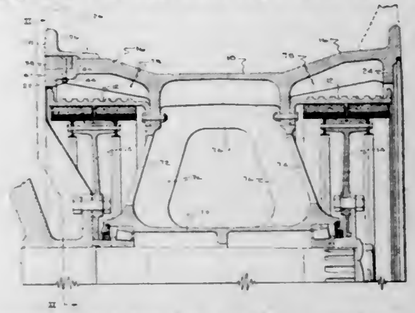
2,317,609
PRODUCTION OF RIBBON BOW
Lee D. Hincher, Seattle, Wash.
Application June 25, 1941, Serial No. 399,745
6 Claims. (Cl. 223—46)



1. The method in the production of ribbon bows consisting in forming folds in complementary ribbon leaves by subjecting first one and then the other leaves of the bow to the plaiting action of interfitting teeth; transfixing the plaits with a skewering pin while held between the teeth; bringing the transfixed leaves into close compass on the skewering pin; and tying the plaits of the several leaves together while transfixed by the pin.

2,317,610
AIRPLANE WHEEL CONSTRUCTION
Charles Hollerith, Jackson, Mich., assignor to Hayes Industries, Inc., Jackson, Mich., a corporation of Michigan
Application February 14, 1940, Serial No. 318,816
4 Claims. (Cl. 152—406)

1. A streamline airplane wheel for pneumatic tires comprising a rim having a fixed flange and removable flange spaced to receive the side walls of a tire, said removable flange being in the form of a sectional ring, a circumferential groove in said rim adjacent one edge defined in part by an angular shoulder, integral tongue portions on said ring of less width than said groove and having complementary angular shoulder portions, and clamping means carried in said rim and extending to the outer side of the wheel selectively engageable with said sectional ring to hold said

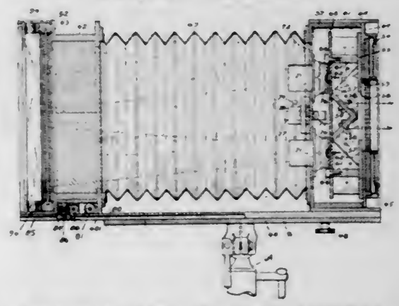


complementary angular shoulder portions in interlocking relation.

2,317,611
CASHEW NUT SHELL LIQUID MATERIAL COMPOSITIONS AND BASES CARRYING THE SAME
Edward C. Homan, East Orange, N. J., assignor, by mesne assignments, to The Harvel Corporation, a corporation of New Jersey
No Drawing. Application December 7, 1939, Serial No. 307,985
4 Claims. (Cl. 260—29)

1. A heat convertible composition of matter comprising a solution of a cashew nut shell liquid material selected from the group consisting of cashew nut shell liquid, cardanol, hydrocarbon ethers of cashew nut shell liquid, hydrocarbon ethers of cardanol and hydrocarbon ether, hydrocarbon ester of cashew nut shell liquid and a solution of an organic solvent soluble urea-formaldehyde resin in an alcohol having from four to fourteen carbon atoms, said cashew nut shell liquid material being present in amounts greater than that of the urea-formaldehyde resin, said composition of matter adapted to be converted by heat to an infusible solid material resistant to the solvent action of chloroform, amyl acetate and butyl acetate.

2,317,612
CAMERA
William C. Huebner, New York, N. Y.
Application March 25, 1940, Serial No. 325,695
5 Claims. (Cl. 95—2)



1. A camera of the character described, comprising: a housing including a front wall displaceable from operative position to an inoperative position to thereby provide access to the interior of the housing; an optical system for simultaneously producing a plurality of like images

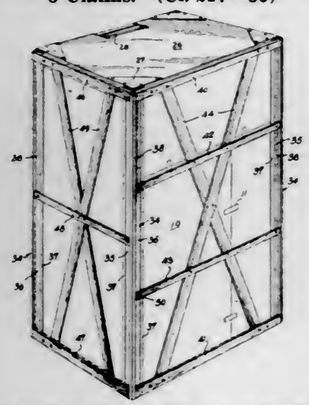
of an object and projecting said images in separated parallel paths; means detachably securing said optical system to the inner side of said wall; a single plate having a plurality of color filters secured thereto; detachable means for mounting said plate and said filters as a unitary assembly on the inner side of said wall inwardly of the optical system with the color filters in the paths of the projected images; a second plate having a plurality of lenses mounted thereon, the lenses being disposed in the paths of the projected images inwardly of the color filters; means detachably securing said lens supporting plate with the lenses thereon as a unitary assembly to the interior of the housing, whereby said optical system, the filter supporting plate assembly and the lens supporting plate assembly may any or all be interchanged for others; and means for supporting a sensitized element disposed in the paths of all of the images transmitted from the lenses.

2,317,613

CRATE FOR REFRIGERATOR CABINETS AND THE LIKE

Matthew R. Hull and Emmett P. Summers, Connersville, Ind., assignors to Rex Manufacturing Company, Inc., Connersville, Ind.

Application November 22, 1940, Serial No. 366,772
8 Claims. (Cl. 217—36)



1. In combination with a cabinet for refrigerators and the like having a base, the base of the cabinet having a member having a slot therein, a crate for the cabinet having a base frame on which the cabinet rests, an angle bracket for detachably anchoring the cabinet to said base frame, said angle bracket having a foot secured to said base frame and a reversely bent locking tongue adapted to engage in said slot and clamp against the inner surface of said slotted member when said foot is secured to said base frame.

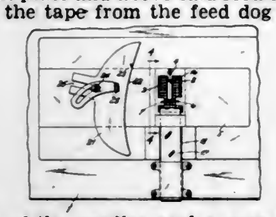
2,317,614

SEWING MACHINE FOR COLLARS

Harry Johnston, St. Louis, Mo., assignor, by direct and mesne assignments, of one-half to Edward Greensfelder and Mercantile-Commerce Bank and Trust Company, trustees under the will of Wilton Rubinstein, deceased, and one-half to Edward Greensfelder and Mercantile-Commerce Bank and Trust Company, trustees for Blanche Rubinstein, Louise Rubinstein, Ann Rubinstein, and Peggy Rubinstein

Application June 3, 1939, Serial No. 277,310
1 Claim. (Cl. 112—136)

In a sewing machine having a supporting bed, a feed dog, a throat plate through which the feed dog operates, and two needles for forming two parallel lines of stitches simultaneously; a device for guiding a straight tape over the entire upper side of the feed dog, an element located between said needles and extending above said throat plate and above said feed dog for disengaging the tape from the feed dog after each



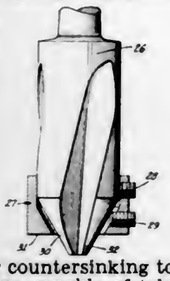
operation of the needles, and a gage for engaging a curved side edge of a collar ply during movement thereof with the tape whereby said tape will be curved and curved lines of stitches will be formed by said needles approximately parallel with the said curved edge of said collar ply.

2,317,615

COUNTERSINK STOP

Harry L. Johnson, Los Angeles, Calif.

Application November 28, 1941, Serial No. 420,808
6 Claims. (Cl. 77—73.5)



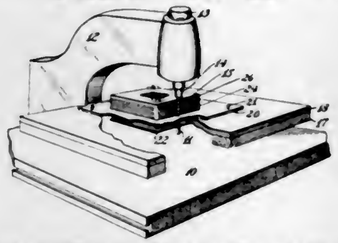
1. A stop for countersinking tools comprising a cylindrical sleeve capable of telescoping over the body of a countersinking tool, said sleeve having at its bottom an internal contraction adapted to engage the tapered lower end of the countersinking tool, means on the sleeve engageable with the sides of the countersinking tool between the flutes thereof to hold the sleeve onto the tool, and means on the sleeve arranged to enter one of the flutes of the tool to lock the sleeve against rotation thereon.

2,317,616

ROUTING MACHINE FIXTURE

Dedger Jones, Columbus, Ohio, assignor to Curtis-Wright Corporation, a corporation of Delaware

Application January 26, 1942, Serial No. 428,269
6 Claims. (Cl. 90—13.2)



1. In a routing machine having coaxial cutter

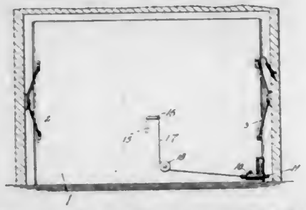
and pilot pin members spaced between their ends and a flat bed from which one member projects, a work table movable over the bed, means to support the table in spaced relation to the bed to pass between said members, a template secured to one side of said table for engagement with the pilot member, and means to secure a work piece to the other side of said table directly opposite said template for engagement with said cutter member.

2,317,617

LOCK BOLT RETAINING MEANS

Henry D. Kaufman, Los Angeles, Calif.

Application January 6, 1941, Serial No. 373,332
2 Claims. (Cl. 292—333)



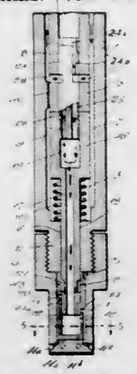
1. In combination with an overhead swinging door standing vertically on its bottom edge on the ground in closed position, a bolt mechanism comprising, a casing having a plate attached to one side edge of the door adjacent said bottom edge and extending along the inner face of the door parallel with said bottom edge, a bolt seated in said casing, means urging projection of said bolt beyond said side edge, and a flat member seated against said casing plate for vertical movement thereon and normally by gravity held downwardly projected therefrom beyond the bottom edge of the door, said member having a perforation for alinement with said bolt, the member being positioned to strike the ground when the door is closed, thereby to cause the member to rise and to bring said perforation into registration with the said bolt to open a passage therefor.

2,317,618

FUEL INJECTOR

Franklin R. King, Yelm, Wash.

Application December 23, 1940, Serial No. 371,452
2 Claims. (Cl. 299—107.2)



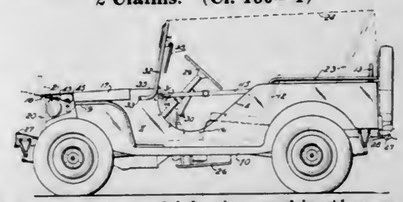
1. A pressure controlled fuel injector comprising a tubular body having a main chamber and a bore leading from the chamber through the discharge end of the body, a nozzle carried by and extending from the discharge end of said body and having a head at its outer end and discharge ports spaced from each other circumferentially of the nozzle, a liner for the nozzle formed with external grooves extending longitudinally thereof and constituting conduits having their forward ends registering with the ports of the nozzle and their rear ends communicating with inlet openings extending through the walls of the liner, a pressure actuated valve having a hollow cylinder slidable longitudinally in the body and a tubular stem extending forwardly from the cylinder and slidably passing through the bore of the body into the liner, said stem having side ports for registering with the inlet openings of the conduits as the valve is shifted forwardly, and spring means yieldably resisting forward movement of the valve.

2,317,619

HEAD LAMP

Clarence F. Kramer, Birmingham, Mich., assignor to Ford Motor Company, Dearborn, Mich., a corporation of Delaware

Application May 10, 1941, Serial No. 392,831
2 Claims. (Cl. 180—1)



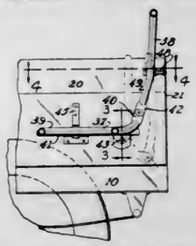
1. In a motor vehicle, in combination, a continuous front member, a hinged hood, the free ends thereof supported by the central portion of said front member, a protective guard secured to said front member, said guard comprising a plurality of spaced guard elements, an arm hinged at one end to said front member beneath said hood, the other end of said arm releasably engaging a supporting bracket, a lamp adjustably secured to said arm intermediate the ends thereof, said lamp being mounted below said arm and within the space defined by said hood and said protective guard.

2,317,620

SEAT

Clarence F. Kramer, Birmingham, Mich., assignor to Ford Motor Company, Dearborn, Mich., a corporation of Delaware

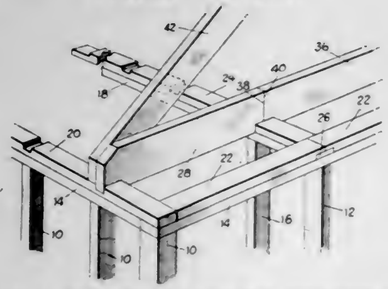
Application June 7, 1941, Serial No. 396,972
3 Claims. (Cl. 155—12)



1. In a motor vehicle, in combination, a body structure having spaced side walls and a rear wall, a folding seat structure disposed between said spaced side walls, comprising, a seat frame, a pivot on each side of said seat frame and engaging pivots on said adjacent side walls, said seat frame having oblique extensions extending

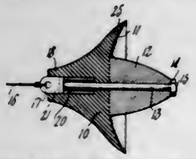
rearwardly and upwardly, a back frame having side members extending downwardly and pivoted at their lower ends to the extensions on said seat frame, channel-shaped guide means carried on said body structure adjacent said side walls, the side members of said back frame being slidably received in said channel-shaped members and constrained thereby for movement in a substantially vertical plane.

2,317,621
BUILDING STRUCTURE
Robert W. McLaughlin, Jr., Bedford Village, N. Y., assignor to American Houses, Inc., New York, N. Y., a corporation of Delaware
Application August 2, 1940, Serial No. 349,901
2 Claims. (Cl. 20—1)



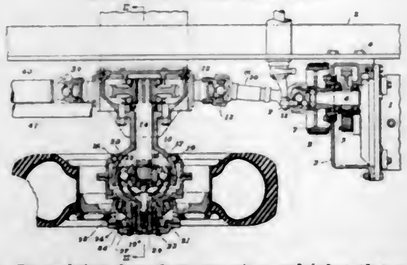
1. In a prefabricated building construction, in combination, a plurality of parallel outer walls, each comprising spaced studs, a sill supported by said studs and an eaves plate supported by said sill, a central partition disposed parallel to said walls and equally spaced therefrom and comprising spaced studs, a sill supported by said studs and a bearing partition plate supported by said sill, said eaves plates and said bearing partition plate each having a plurality of dadoes in their upper surfaces, predetermined ones of said dadoes being in registry, and a plurality of substantially identical, interchangeable joists, notched at each end, each joist being positioned with one notched end in an eaves plate dado and the other notched end in a bearing partition plate dado, the joists and dadoes being of substantially equal width, each pair of adjacent joists abutting end to end in a bearing partition plate dado.

2,317,622
DRAG DEVICE FOR ANTENNAS
William P. Lear, Piqua, Ohio, assignor, by mesne assignments, to Lear Avia, Inc., Piqua, Ohio, a corporation of Illinois
Original application April 5, 1940, Serial No. 327,984. Divided and this application January 22, 1942, Serial No. 427,713
7 Claims. (Cl. 250—33)



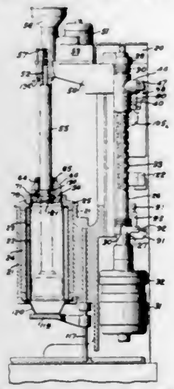
1. An antenna drag device comprising a resilient cup having an end portion for securement to an antenna wire, and a weight secured to said cup is coaxial alignment therewith and projecting therefrom in the direction opposite said end portion.

2,317,623
VEHICLE DRIVE
Arthur L. Lee, Oakmont, Pa., assignor, by mesne assignments, to Joy Manufacturing Company, Franklin, Pa., a corporation
Application March 14, 1941, Serial No. 383,329
5 Claims. (Cl. 180—46)



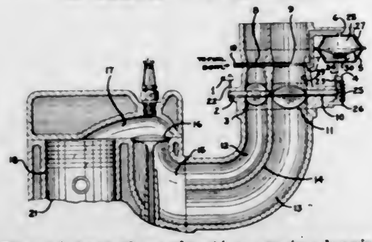
1. In a drive for slow-moving vehicles the combination of wheel mounting structure attached exteriorly of the frame of a vehicle, a power delivery shaft having a fixed mounting exteriorly of the said frame of the vehicle and extended outwardly therefrom, a wheel having spindle mounting in the said wheel-mounting structure, connections internally of the said wheel actuated by the said power-delivery shaft and arranged to function in different steered positions of the wheel in its spindle mounting, a motor, and a power-transmission assembly extended from the said motor longitudinally along and outwardly of the frame of the vehicle to connection with the said power-delivery shaft.

2,317,624
DEVICE FOR MAKING FROZEN CONFECTIONS
Ernest E. Lindsey, Los Angeles, Calif., assignor to Insta-Freeze Corporation, a corporation of California
Application November 30, 1937, Serial No. 177,267
10 Claims. (Cl. 62—114)



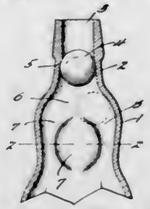
1. Means for dispensing frozen confection from a freezing chamber having a refrigerated wall, comprising a cutter head adapted to remain in alignment but out of contact with said refrigerated wall and out of operative engagement during the freezing period, a reciprocating spindle passing therethrough, means for placing said cutter head in operative position and self-releasing and engaging means within the said cutter head for engaging the spindle when said cutter head is moved to operative position and disengaging when moved to inoperative position.

2,317,625
CARBURETOR FOR INTERNAL COMBUSTION ENGINES
Marion Mallory, Detroit, Mich.
Application October 7, 1940, Serial No. 360,095
12 Claims. (Cl. 123—127)



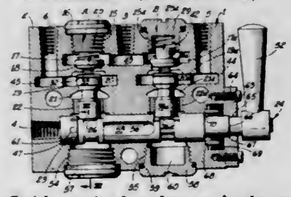
1. In an internal combustion engine having two separate intake passageways, a fuel nozzle in each passageway, a manually controlled throttle valve in the first of said passageways, a suction responsive device connected into the second of said passageways on the atmosphere side of the throttle valve in said passageway, a throttle valve in the second passageway, a lost motion connection between said valves whereby said manually controlled valve can open independently of said second valve and said second valve can open only to the same degree as the manually controlled valve, and means connecting said latter throttle valve with said suction device whereby at low engine suction the charge is controlled by the manual valve and at higher engine suction the suction device responds to increase in velocity of air flowing through said second passageway to open commensurately said latter throttle valve.

2,317,626
SEAL FOR BOTTLES
Nick Marino and John Marino, Washington, D. C.
Application July 8, 1942, Serial No. 450,178
1 Claim. (Cl. 215—60)



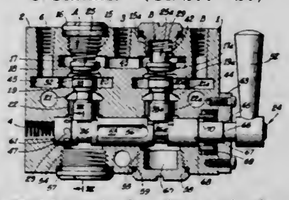
The combination with a bottle of all-glass, one-piece construction adapted to contain a gas-charged liquid, said bottle comprising a neck communicating with the interior of the bottle and expanded downwardly to provide a cage, of a spherical ball valve of glass-like material confined within said cage, said neck being shaped to provide a spheroidally-concave seat at the top of the cage concentric with the pouring opening and adapted to receive the ball under pressure of the gas within the bottle to provide a substantial area of glass-to-glass contact between the ball valve and the seat, internal abutments upon diametrically opposite sides of the neck adjacent the lower end of the cage defining an intermediate constricted area terminating at opposite ends in two open-bottomed pockets of approximately equal size adapted to receive and support the ball valve out of alignment with the pouring opening of the neck, said pockets each being internally formed with a depression arranged in a plane at right-angles to the abutments, the abutments being so located with respect to the depressions as to guide the ball valve into one or the other of the said depressions and out of obstructed relation to the pouring opening of the neck upon initially relieving the gas pressure from the bottle.

2,317,627
VALVE
Otis C. Martin, Los Angeles, Calif.
Original application March 11, 1940, Serial No. 323,376, now Patent No. 2,279,693, dated April 14, 1942. Divided and this application April 30, 1941, Serial No. 391,071
4 Claims. (Cl. 277—20)



1. In a fluid control valve, a body member, a valve chamber bore extending from one surface of said body member, a valve seat in said bore, a pair of fluid port bores disposed on opposite sides of said chamber bore, each extending from said one surface of said body member and having its longitudinal axis extending parallel to the axis of said chamber bore, cylindrical enlargements of said chamber bore and one of said fluid port bores concentric with said bores and intersecting each other above said valve seat to provide a fluid passage therebetween, and cylindrical enlargements of said valve bore and the other of said fluid port bores concentric with said bores and intersecting each other below said valve seat to provide a fluid passage therebetween.

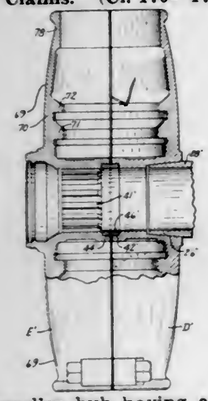
2,317,628
VALVE
Otis C. Martin, Los Angeles, Calif.
Original application March 11, 1940, Serial No. 323,376, now Patent No. 2,279,693, dated April 14, 1942. Divided and this application April 30, 1941, Serial No. 391,072
3 Claims. (Cl. 277—20)



1. In a fluid control valve, a body member, a valve chamber bore extending from one surface of said body member, a pair of valve seats arranged in longitudinally spaced relation along said bore, a valve assembly in said bore including an upper valve seated upon the uppermost of said seats, a second valve member seated upon the lowermost of said seats and having a bore extending longitudinally therethrough, said bore being enlarged at its upper end to define a cylindrical recess, a stem upon said upper valve extending through said bore and projecting beyond the lower end of said second valve, and a packing ring surrounding said stem disposed in said recess and having a relatively deep annular groove formed in its upper surface, whereby fluid

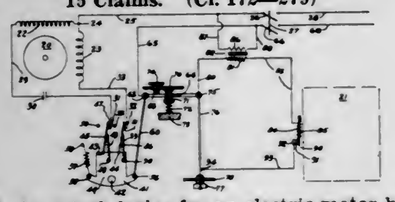
pressure exerted on the upper surface of said ring spreads the same into sealing relation between said valve and stem to prevent leakage of fluid between said stem and said second valve.

2,317,629
AIRCRAFT PROPELLER HUB
Ernest G. McCauley, Dayton, Ohio
Application March 27, 1941, Serial No. 385,503
7 Claims. (Cl. 170—173)



1. In a propeller hub having a housing centrally thereof for receiving a driveshaft, a splined connection between said hub and said driveshaft only at the outer end of said hub and a relatively yielding fitting between said hub and shaft at the inner end of said hub, said fitting being adapted to engage said hub to said shaft for effecting a yielding friction drive therebetween.

2,317,630
MOTOR CONTROL
William E. Menzies and Calvin J. Werner, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application November 4, 1939, Serial No. 302,799
15 Claims. (Cl. 172—279)

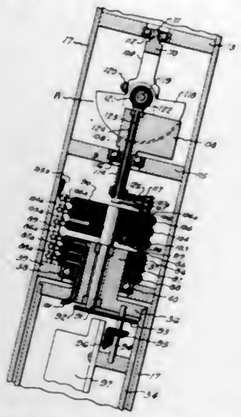


13. A control device for an electric motor having starting and running circuits adapted to be connected to a source of electrical energy, the combination with a switch for controlling said circuits; thermo-electric means in both motor circuits for actuating said switch in accordance with current flow therethrough; a second thermo-electric means independent of the motor circuits, connected to the first thermo-electric means and adapted to use it as a mechanical link to actuate said switch; a transformer connected to the source of energy for providing current flow to the second thermo-electric means to effect actuation of the switch; and a switch in circuit with the transformer and second thermo-electric means and adapted to control current flow from the transformer to the second thermo-electric means in accordance with temperature conditions ambient only to said last mentioned switch.

2,317,631
COMPOSITION FOR PRESERVING CUT FLOWERS
August A. Meyer, Maywood, Ill.
No Drawing. Application October 7, 1942, Serial No. 461,229
3 Claims. (Cl. 71—2)

3. A composition adapted to be added to and dissolved in water in which the stems of cut flowers are placed for causing the continuous growth and development of said cut flowers and prolonging their span of life, consisting of the following materials in powdered form in substantially the following proportions by weight: 23 to 43 pounds of hydrazine sulphate, 42 to 82 pounds of a compound selected from the class consisting of manganese sulphate and iron oxide, 3 to 5 pounds of calcium hypochlorite, 23 to 43 pounds of a compound selected from the class consisting of aluminum sulphate and soda alum and 3,125 to 5,125 pounds of sugar.

2,317,632
MEANS FOR SURVEYING WELL BORES
Leonidas C. Miller, Dallas, Tex., assignor, by direct and mesne assignments, of one-half to Eastman Oil Well Survey Company, Dallas, Tex., a corporation of Delaware, and one-half to Eastman Oil Well Survey Corporation, Long Beach, Calif., a corporation of California
Application July 20, 1939, Serial No. 285,597
22 Claims. (Cl. 33—205.5)



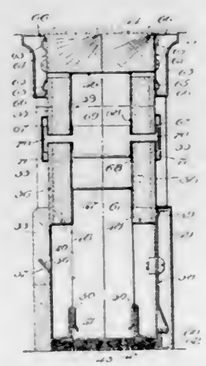
15. An apparatus for surveying a bore hole including, an instrument adapted to be lowered into the bore hole, said instrument including a casing, rotatable contact arms mounted within the casing and movable to various circumferential positions therein, a compass unit associated with one of the contact arms for maintaining said arm in a predetermined azimuthal position, means responsive to inclination from the vertical associated with the other contact arms to move said arms into positions in accordance with the direction and degree of inclination of the casing, a single rotatable circuit closing element adapted to engage the various contact arms, each such engagement closing an electrical circuit, and means within the casing actuated by the engagement of the element with the contact arms for transmitting electrical impulses to the surface, said impulses being indicative of the circumferential positions of the contact arms and representative of the direction and degree of inclination of the bore hole.

2,317,633
MESSAGE DISPATCHER FOR RAILROADS
George W. North, Boyceville, Wis.
Application October 7, 1942, Serial No. 461,087
4 Claims. (Cl. 258—24)



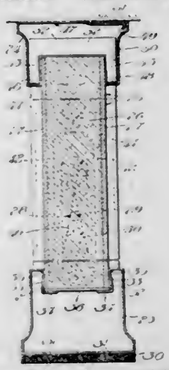
4. In a railway message dispatcher, an arm adapted to be extended outwardly in a generally horizontal position, said arm having means at its outer end for engaging a portion of a mail order hoop, a pair of yieldable elements at opposite sides of said arm adjacent said hoop engaging means and normally tending to spring toward said arm, said yieldable elements having jaw members mounted thereon for pivotal movement relative thereto, and said jaw members being positioned outwardly from said outer end of said arm.

2,317,634
BUILDING CONSTRUCTION
Anders C. Olsen, Gwynedd, Pa.
Application January 13, 1940, Serial No. 313,779
2 Claims. (Cl. 72—46)



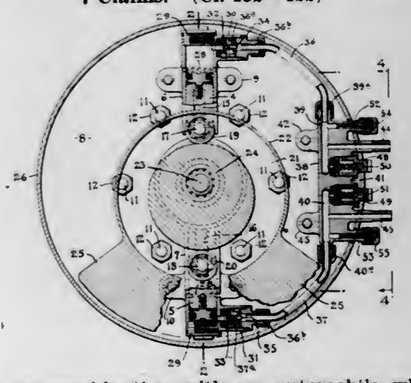
2. A wall construction comprising in combination, spaced stud members, a flooring channel construction, and a ceiling channel construction, said stud members mounted therebetween, panels of wall material removably affixed to the stud members, clips removably affixed to the flooring channel construction and supporting the panels of wall material on opposite faces of the wall construction, and baseboard panels removably affixed to the baseboard clips.

2,317,635
BUILDING CONSTRUCTION
Anders C. Olsen, Gwynedd, Pa.
Application January 13, 1940, Serial No. 313,780
10 Claims. (Cl. 72—46)



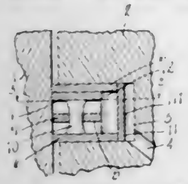
1. A wall comprising in combination, a baseboard construction, a crown molding construction, panels of wall material mounted therebetween and supported by the baseboard construction, complementally formed means on the edges of the contiguous panels, said complementally formed means comprising vertically spaced dowels and complementally formed means to receive the dowels, said panels at the contiguous edges thereof spaced apart, and clip means inserted in the space between the contiguous panels, each of said clip means comprising as a part thereof a wedge member engaging the dowels whereby the panels are affixed together at the contiguous edges thereof into a wall.

2,317,636
DUAL TIRE INFLATER
Clark W. Parker, Dobbs Ferry, N. Y.
Application February 24, 1941, Serial No. 380,209
7 Claims. (Cl. 152—422)



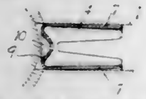
1. In combination with an automobile wheel having dual tires thereon, a tire inflater mechanism mounted on the hub of said wheel and so as to rotate therewith, said mechanism including a pair of individual pumping means each having a reciprocating plunger for supplying air under pressure to each of said dual tires, a free swinging weighted means pivotally mounted with respect to said pumping means for alternately reciprocating the plungers of said pumping means when said wheel is rotated, and means for controlling the amount of air supplied to each of said tires by said pumping means.

2,317,637
PISTON RING
Harold P. Phillips, Hastings, Mich., assignor to Hastings Manufacturing Company, Hastings, Mich., a corporation of Michigan
Application March 11, 1940, Serial No. 323,273
12 Claims. (Cl. 309—45)



1. A piston ring assembly, comprising a pair of thin, flat, annular, split cylinder wall engaging side members of wear resisting material, an intermediate thin flat split annular cylinder wall engaging element disposed in side by side relation to the upper of said side members, a spacer disposed between said intermediate member and the lower side member, said spacer comprising a thin, annular, split cylinder wall engaging member having a plurality of circumferentially spaced rivet-like members disposed therethrough to coact with said intermediate member and the lower side member, and an annular spring expander having a plurality of crimps therein, certain of which are in coacting thrust relation to said side members and others of which are of reduced axial width to extend between said side members and coact with the said intermediate member and said spacer member and to constitute supplementary spacing members for said side members.

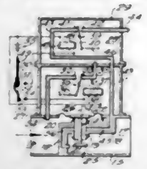
2,317,638
OIL LINE METERING PLUG
Harold P. Phillips and Walter C. Rivers, Hastings, Mich., assignors to Hastings Manufacturing Company, Hastings, Mich.
Application July 5, 1941, Serial No. 401,282
4 Claims. (Cl. 138—44)



4. An oil duct restricting plug adapted for insertion in an oil duct to restrict the flow of oil therethrough comprising a hollow, generally cylindrical member provided with a conical transverse duct plugging wall tapered axially and inwardly of the member and having a central restricting orifice at the apex thereof, said plug having frictional retaining engagement with a wall of an oil duct, the taper of said wall extending reversely of the flow of oil in the duct.

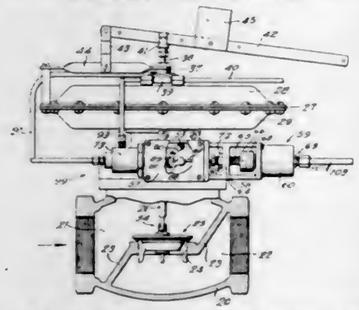
2,317,639
FLUID CONTROL VALVE
William A. Ray, Glendale, Calif.
Application May 14, 1940, Serial No. 335,085
8 Claims. (Cl. 137—144)

7. In a fluid control valve: a casing having an inlet and an outlet; control means whereby a restricted flow of fluid or a full flow of fluid may be passed through said valve; said control means comprising a partition separating said inlet and said outlet and having a main port opening and a restricted port opening, each adapted to interconnect the inlet and the outlet; a closure member operable to control said openings and movable between a first limiting position, wherein both of said openings are closed, and a second limiting position wherein only said restricted



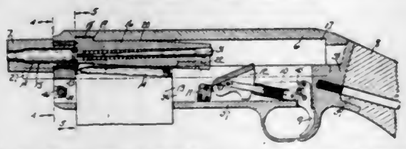
opening is open; said closure member in its movement between said first and second limiting positions passing through an intermediate position wherein both of said openings are open.

2,317,640
CONTROL SYSTEM
William A. Ray, Glendale, Calif.
Application January 27, 1941, Serial No. 376,137
2 Claims. (Cl. 121—41)



1. In a fluid pressure operated control system: means defining a pressure chamber including a wall movable between limiting positions in response to change of fluid pressure in said chamber, condition changing means operated in response to the movement of said wall, first valve means for so controlling the pressure of said fluid that said wall is moved completely from one of said limiting positions to the other, additional valve means for varying the pressure of said fluid to move said wall, means responsive to change in said condition for operating said additional valve means, and means directly limiting the operation of said additional valve means by said condition responsive means so that said wall is moved by the operation of the additional valve means only partially toward one of said limiting positions, said last-named means being ineffective to limit the movement of the wall under the control of said first valve means.

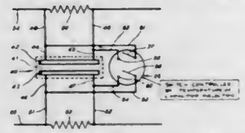
2,317,641
FIREARM
Eugene G. Reising, Hartford, Conn.
Application November 21, 1939, Serial No. 305,505
10 Claims. (Cl. 42—16)



1. A firearm including a receiver having a breech bolt chamber therein with a breech bolt

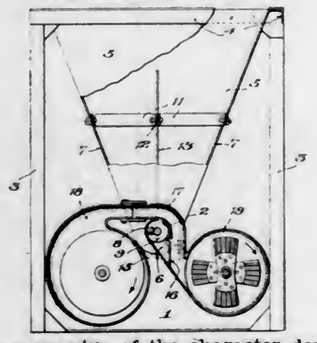
locking recess in a wall of said chamber, a breech bolt slidably mounted in said chamber and having a locking lug at one end to engage within said recess, a fulcrum bearing against the wall of said chamber intermediate the ends of the breech bolt to provide maximum leverage for rocking and supporting sliding action of said bolt to engage and disengage said locking lug within and from said recess, an action bar operatively connected with said breech bolt, said connection including a cam on the end of the breech bolt opposite said locking lug and a lug on the action bar to engage said cam to effect the rocking movement specified with maximum leverage, and means for operating the action bar.

2,317,642
ELECTRICAL CAPACITOR
Preston Robinson, Williamstown, Mass., assignor to Sprague Specialties Co., North Adams, Mass., a corporation of Massachusetts
Application March 18, 1940, Serial No. 324,724
8 Claims. (Cl. 172—246)



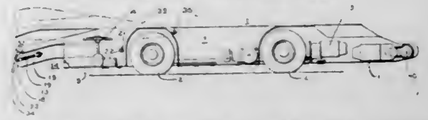
6. In a circuit arrangement in combination, an alternating current supply and an electrical capacitor across said supply, said capacitor comprising two electrode foils and an interposed dielectric medium, said dielectric medium at temperatures substantially below the normal operating temperature of the capacitor exhibiting low dielectric losses and undergoing a decrease in dielectric constant, said capacitor at the normal operating temperature being characterized by low dielectric losses and low electrical losses in the material of the foils thereof, and means to increase the temperature of said capacitor, said means automatically operative at low temperatures and temporarily increasing the electrical losses in the material of the electrode foils above the normal operating value of such losses.

2,317,643
HOPPER AGITATING MEANS
William B. Rogers, Baltimore, Md.
Original application August 2, 1939, Serial No. 288,016. Divided and this application August 24, 1940, Serial No. 354,082
6 Claims. (Cl. 259—29)



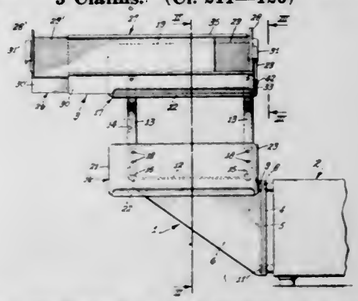
1. In apparatus of the character described; a frame, a hopper loosely mounted at its top on the frame whereby the lower end thereof may vibrate freely; said hopper contracting at its lower end; a rotatable shaft journaled in relatively fixed bearings and extending through said lower end; resilient members connected with the sides of the hopper transversely of the said shaft and terminating adjacent the shaft; and means on the shaft adapted to strike the members as the shaft rotates, whereby the sides of the hopper will be agitated.

2,317,644
SHUTTLE CAR
John D. Russell, Sugarcreek Township, Venango County, Pa., assignor to Joy Manufacturing Company, a corporation of Pennsylvania
Application March 14, 1942, Serial No. 434,711
11 Claims. (Cl. 214—83)



1. In a shuttle car, the combination comprising a load-carrying body having a floor and a side wall on each side thereof, a frame pivoted between the side walls of said body for turning movement about a horizontal axis and projecting beyond the ends of said side walls, said frame having a floor forming a continuation of the floor of said body and a relatively low side member on each side thereof, an endless conveyor passing over the floors of said body and frame, means for turning said frame about its pivot and a side board resting on the top of each side member of said frame and having at its forward end a slip connection therewith, the rear end of each side board being pivoted to the side wall of said body rearwardly of the frame pivot whereby the height of the side walls of said body throughout the length of said frame is maintained throughout the entire range of vertical movement of said frame.

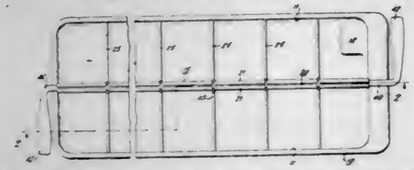
2,317,645
ARTICLE HANDLING DEVICE
Commodore D. Ryan, Los Angeles, Calif., assignor to National Postal Meter Company, Inc., Rochester, N. Y., a corporation of Delaware
Application April 16, 1941, Serial No. 388,770
3 Claims. (Cl. 211—126)



1. In combination, a rack having a bottom wall, a side wall substantially perpendicular to said bottom wall and an end wall substantially perpendicular to both said bottom and side walls, means for supporting said pack with said end wall vertical and both said side and bottom walls inclined upwardly and outwardly from their line of intersection, an open top tray having a bottom wall adapted to rest against the bottom wall of said rack, a side wall perpendicular to said bot-

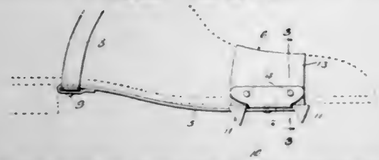
tom wall and adapted to rest against the side wall of said rack, an end wall perpendicular to said bottom and side walls and adapted to rest against and be longitudinally located by the said end wall of said rack, one of said end walls having a headless pin and a headed pin extending therefrom and the other of said end walls having a hole positioned to receive said headless pin, and a notch in its upper edge positioned to receive said headed pin whereby said tray is detachably locked to said rack by moving said end walls together with the headless pin aligned with said hole and the headed pin out of alignment with said notch, and thereafter rotating the tray about the axis of the headless pin to carry the headed pin into engagement with said notch.

2,317,646
FREEZING TRAY
Frederick W. Sampson, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application April 7, 1941, Serial No. 387,143
4 Claims. (Cl. 62—108.5)



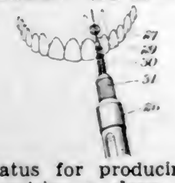
1. A partitioning grid for a freezing tray, said grid comprising: a main double wall comprising two resilient metal plates retained clamped together when the grid parts are in freezing position but having an inherent tendency to spring apart by bowing outwardly at their central portions, said main wall having a series of slots in the upper portion thereof, a series of cross walls each extending loosely thru one of said slots in said main wall, said cross walls each having a lower slot therein extending upwardly from its lower edge and embracing the lower portions of said two metal plates in such manner as to clamp same together in opposition to their said inherent tendency to bow apart at their central portions, and force-multiplying means for spreading apart the upper portions of said two resilient metal plates by flexure occurring above the lower clamped portions thereof to facilitate the removal of frozen ice blocks from said grid.

2,317,647
ICE CREEPER
Oscar Simunds, Milton, N. Dak.
Application November 7, 1941, Serial No. 418,257
1 Claim. (Cl. 36—62)



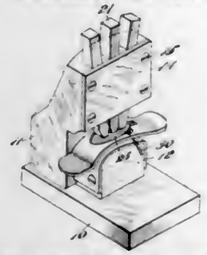
An ice creeper comprising a body portion including a main plate adapted to fit against the sole of the shoe of the wearer, a transversely disposed toe plate secured to the forward end of the main plate, the ends of the toe plate extending beyond the side edegs of the main plate and being formed with slits extending inwardly from the outer edges thereof, the portions of the toe plate between the slits being extended upwardly providing shoe sole engaging members, the portions of the toe plate beyond the slits being extended downwardly providing prongs, a toe strap secured to the toe plate, and a strap secured to the rear end of the main plate for securing the creeper on the shoe of the wearer.

2,317,648
PROCESS AND APPARATUS FOR PRODUCING INTRAOSSEOUS ANESTHESIA
Ivar E. Siqveland, St. Paul, Minn.
Application July 8, 1941, Serial No. 401,509
9 Claims. (Cl. 32—26)



1. An apparatus for producing intraosseous anesthesia comprising a sleeve having an externally threaded end, a drill extending through said sleeve and projecting beyond said threaded end thereof, and means for rotating said drill and sleeve in unison to drill an opening in the bone, and to thread the sleeve into the drilled opening.

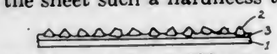
2,317,649
ADAPTER FOR INITIALING MACHINES
Vincent Sorrentino, Providence, R. I., assignor to Uncas Manufacturing Company, a corporation of Rhode Island
Application January 26, 1942, Serial No. 428,246
2 Claims. (Cl. 101—4)



1. An attachment for an initialing device having an anvil with a recessed work guide thereon comprising a plate having a block protruding from the under side thereof, said block being of a shape conforming to said guide, of a size to be snugly received in said guide and of a thickness greater than the depth of the recessed guide to space said plate from said work guide, said plate being cut out to expose said block and provide an anvil supporting surface, said cut out of the plate being of a predetermined shape to receive and guide a piece of work received therein, said block being recessed in a predetermined location to receive a protuberant part of the work.

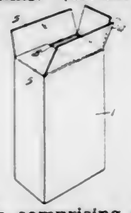
2,317,650
COATED ABRASIVE
Herbert R. Stratford, Cleveland, Ohio, assignor to The Stratmore Company, Wilmington, Del., a corporation of Delaware
Application May 22, 1939, Serial No. 274,977
4 Claims. (Cl. 51—298)

1. An abrasive article comprising a disc of felted cellulose having a tensile strength of not less than fifty pounds per inch width, a facing of granular abrasive on said cellulose sheet, and a waterproof adhesive agent adhesively attached to said grains and to a surface of said sheet, said sheet being impregnated with a synthetic resin to give the sheet such a hardneess that an addi-



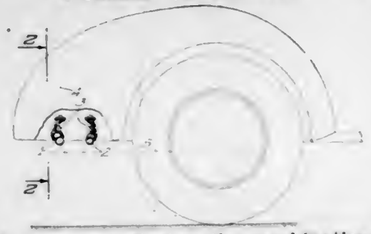
tional weight of at least 100 grams is required to force a ⅛ inch diameter ball an additional 0.001 inch perpendicularly into the sheet after the ball has been inserted a smaller distance into the sheet by means of a preload of 10 grams on the ball.

2,317,651
RECEPTACLE
Richard C. Talbot, Durham, N. C., assignor to Wright's Automatic Tobacco Packing Machine Company, Durham, N. C., a corporation of North Carolina
Application May 2, 1940, Serial No. 333,016
8 Claims. (Cl. 229—14)



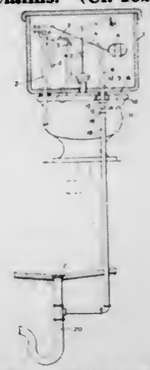
1. A receptacle comprising a carton having a body and transversely foldable top closing flaps, an inner liner therein composed of air and moistureproof material closed and sealed at its lower end and terminating at its upper end in the plane of the fold lines of said flaps, and a closure member composed of air and moistureproof material inserted into the upper end of the liner and having its surrounding edge sealed to the inside surfaces of the enclosing walls of the liner, said closing flaps being foldable directly onto said closure member.

2,317,652
ELECTRIC EYE CURB INDICATOR
John Ray Toney, Los Angeles, Calif.
Application April 28, 1941, Serial No. 390,695
6 Claims. (Cl. 177—311)



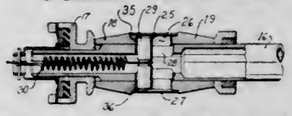
1. In a curb indicator, the combination with a vehicle, of means carried by the vehicle for directing a beam of light to the side of the vehicle for illuminating a restricted area on a curb, a photo-electric cell also carried by the vehicle and having its axis positioned at an angle to and intersecting the beam, and signal means on the vehicle in the circuit of the photo-electric cell for indicating the presence of the illuminated area on the curb when said area appears at the intersection of the beam and the axis of the photo-electric cell.

2,317,653
PRIMING TUBE
Claud H. Walker, Portland, Oreg.
Application April 17, 1941, Serial No. 389,037
5 Claims. (Cl. 182—12)



1. In combination with a water closet including a flush tank, a ball cock provided with an after-fill tube in said tank for controlling the water supply to the closet, a T-connection in said after-fill tube, a second tube in connection with said fitting, a conduit section disposed to receive water discharged through said second tube, said conduit section being secured in water tight relation through the bottom of said tank and a portion of the water closet bowl, and a second conduit section leading downwardly to a floor drain trap in order that said trap may be replenished at intervals with water upon operation of said ball cock.

2,317,654
GEARSHIFT MECHANISM
John J. Wharam, Dearborn, Mich., assignor to Ford Motor Company, Dearborn, Mich., a corporation of Delaware
Application March 14, 1941, Serial No. 383,318
6 Claims. (Cl. 74—484)

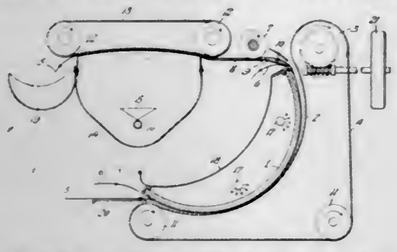


1. In a transmission having several selectively engageable speed ratios therein, a pair of axially aligned arms adapted to be selectively oscillated to cause selective engagement of said speed ratios, a shaft axially aligned with said arms, said shaft being reciprocally and rotatably mounted for movement relative thereto, means for rotating and reciprocating said shaft, a clutch associated with said shaft which in one position of reciprocation of said shaft clutches said shaft to one of said arms and in its other position of reciprocation clutches said shaft to the other of said arms, said clutch comprising a longitudinal slot in said shaft and a pin slidably mounted in said slot and adapted to engage selectively one or the other of said arms.

2,317,655
APPARATUS FOR THE MANUFACTURE OF PHOTOGRAPHIC PRINTS
Gerhard Johan van den Broek, Nijmegen, Netherlands; vested in the Alien Property Custodian
Application September 10, 1940, Serial No. 356,176
In the Netherlands January 14, 1939
1 Claim. (Cl. 271—64)

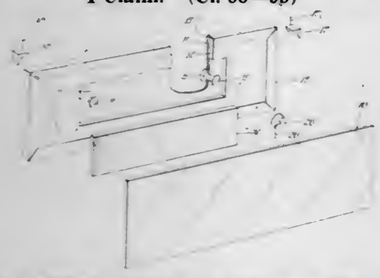
A device for separating an original drawing

from an exposed print thereof as they emerge from the exposure section of a combined printing and developing apparatus which device comprises a tilting ledge turnably mounted on two pivots, said tilting ledge being provided with recesses adapted to receive revolving disks, a table adapted to receive the exposed print after it has passed over the tilting ledge, and a series of rotatable disks mounted on a common axle having



peripheral contact with the table so as to exert a pulling action on the print, and having cooperating relationship with the recesses of the tilting ledge such that the traction on the print material passing between the revolving discs and table raises the back edge of the tilting ledge and presses it against the under side of the print thus causing a scraping action and separation of the original drawing from the print.

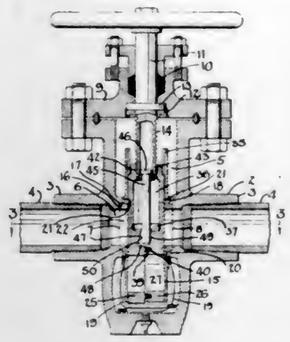
2,317,656
AUTOMOBILE VANITY MIRROR
William F. Vernon, Newton, Iowa
Application April 21, 1941, Serial No. 389,505
1 Claim. (Cl. 88—98)



In a flexible mirror mounting, a thin back cardboard, a relatively thick front cardboard, a tape around the edges of said cardboards holding them together as a unit, a removable center section in the thick front section, mounting bolts inserted through the rear thin section with the bolt heads covered by the removable section, a thin glass mirror fitting the cardboard mount, metallic corner clips to hold the mirror on the mount, and nails inserted through the corner clips and into the front cardboard to fasten the clips whereby the mirror is flexibly supported from the thin back cardboard.

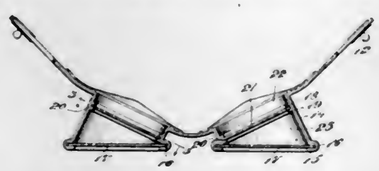
2,317,657
CONDUIT VALVE
Alexander S. Volpin, Houston, Tex.
Application January 3, 1942, Serial No. 425,499
10 Claims. (Cl. 251—20)

1. A gate valve including a housing, a chamber therein, a movable gate in said chamber, means to move said gate, upstream and downstream flow ports through the housing opening into said chamber, means to inject plastic sealing material into said chamber, a seat plate at each port, a sealing area including a groove between said housing and each of said plates, and means to conduct plastic sealing material from adjacent the lower portion of said chamber to each of said grooves and said areas, whereby



pressure fluid leaking into said chamber from the line controlled by the valve may act on said sealing material to force it through the said conducting means leading to the groove and plate at the downstream flow port when the valve is closed.

2,317,658
GOGGLES
James W. Welsh, Providence, R. I., assignor to Welsh Manufacturing Company, a corporation of Rhode Island
Application February 27, 1941, Serial No. 380,835
3 Claims. (Cl. 2—14)



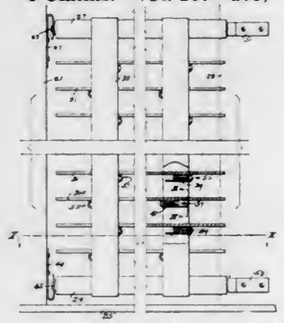
1. In goggles, a flexible rubber body portion for engaging the face about the eyes, a pair of spaced, tubular, window-holding portions on said body with the axes thereof converging inwardly towards each other when the goggles are properly fitted to the face of the wearer about the eyes forming chambers adapted to be placed in open communication with the eyes, and a transparent sight window carried by each of said window-holding portions, each window having an integral outwardly-facing portion the surface of which in use is arranged to be in alignment with that of the other in a direction longitudinally of the goggles on a plane extending transversely across the front of the face and disposed at right angles to the normal line of sight of the eyes when the goggles are in position on the face of the wearer about the eyes, and a second window in each tubular portion located inwardly in spaced relation to the outer window, and with the inner window in each positioned at an angle to the outer window therein in a manner so as to approach each other towards the nasal portion of the goggles.

2,317,659
VENETIAN BLIND
Lisle C. Williams, Memphis, Tenn., assignor of twenty per cent to J. H. Weatherford and Heiskell Weatherford, Jr., both of Memphis, Tenn.
Application August 25, 1941, Serial No. 408,158
9 Claims. (Cl. 160—178)



1. In a Venetian blind, having ladder tapes including cross tapes, a slat adapted to rest on said cross tapes, said slat having a pair of tongues downwardly extending in spaced relation and inwardly bent each toward the other, to lie along the side edges of and to underlie the bottom of, said cross tape, the proximate end portions of said tongues being spaced to permit insertion or removal of the said cross tape from engagement by said tongues.

2,317,660
VENETIAN BLIND
Lisle C. Williams, Memphis, Tenn.
Application August 20, 1942, Serial No. 455,403
8 Claims. (Cl. 160—178)



1. In a Venetian blind, having a ladder tape including a cross-tape and a slat adapted to rest on said cross-tape, means for detachably securing said slat to said cross-tape, including a part disposed in substantial parallelism with said slat and spaced therefrom to form an elongated slot adapted to loosely receive said cross-tape, said part having one end inwardly bent into abutting relation to said slat to form a closure for one end of said slot and establish said spacing; means resiliently securing the opposite end of said part to said slat, said means including a portion spaced slightly in excess of said cross-tape width from the first said end, forming a closure for said opposite slot end, and means secured to said part and continuing beyond said secured end, forming a grip manually depressible for separating said abutting end from said slat to permit removal or insertion of said cross-tape.

2,317,661
WITHDRAWN

2,317,662
COSMETIC APPLICATOR
Charles E. Zimmerman, Chicago, Ill.
Application December 23, 1940, Serial No. 371,233
6 Claims. (Cl. 15—131.1)

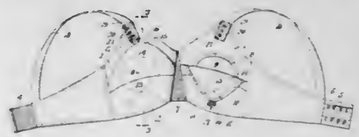


1. As a new article of manufacture, an applicator comprising a cup-shaped shell adapted to retain a charge of pulverulent material, and a pad of cured rubber latex having minute communicating pores of varying sizes distributed therethrough secured in a stretched condition across the open end of the shell so that the pores thereof are of greater size than normal and adapted when tapped to have the material flow therethrough.

2,317,663
SYNTHETIC DRYING OIL COMPOSITION AND METHOD OF PRODUCING THE SAME
Clyve C. Allen, San Francisco, and Vernon E. Haury, El Cerrito, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application February 18, 1939, Serial No. 257,200
13 Claims. (Cl. 106—252)

1. A drying oil composition comprising an unsaturated ketone condensation product of acetone having at least 12 carbon atoms per molecule in which is dissolved tung oil in the proportion of about 5 to about 80 parts by weight of acetone condensation product to about 95 to about 20 parts of tung oil.

2,317,664
BRASSIÈRE
Abraham S. Becker and Victor I. Becker, Los Angeles, Calif.
Application May 20, 1942, Serial No. 443,726
5 Claims. (Cl. 2—42)



1. In a brassière, a body portion formed with a breast orifice, the material of the body portion having parts disposed in overlapped relation adjacent said orifice whereby said orifice is laterally distensible under breast accommodation, a cupped portion overlying the orifice and co-operative therewith in affording breast support, the upper part of the cupped portion consisting of a flap capable of lowering movement to uncover at least a part of the orifice, and means at the upper end of said flap for adjusting the extent of support afforded by the cupped portion, the lower part of the cupped portion being at all times disposed over and covering the overlapped parts of the body portion regardless of whether said flap is raised or lowered.

2,317,665
MOUNTING FOR ELECTRICAL APPARATUS
Harold A. Bredehoft, Millington, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application March 5, 1942, Serial No. 433,481
6 Claims. (Cl. 177—7)



4. In combination, a device, a support for said device, means for attaching said device to said support comprising a pair of screws, and means for maintaining said screws attached to said device when said device is detached from said support, comprising a spring fixed at its mid-point to said device and having a hole for the screws near each end thereof of such diameter relative to the diameter of said screws as to maintain said screws loosely fixed to said spring.

2,317,666
LUBRICATION COMPOSITION
Arthur W. Burwell and James Allan Camelford, Niagara Falls, N. Y., assignor to Alox Corporation, New York, N. Y., a corporation of New York
Application May 8, 1940, Serial No. 334,036
4 Claims. (Cl. 252—39)

4. A lubricating composition consisting essentially of a lubricating oil and an oil-soluble mixture of a plurality of different thio-alkyl compounds produced by reacting with phosphorus hepta sulphide, a mixture of oxygenated saturated aliphatic hydrocarbons, including alcohols, ketones, and carboxylic acid compounds, derived from a petroleum hydrocarbon mixture by controlled partial oxidation thereof, said thio-alkyl compounds including compounds of the formulae

$$CH_3.(CH_2)_n.\underset{\displaystyle H}{\overset{\displaystyle |}{C}}.(CH_2)_m.COOX$$
$$\underset{\displaystyle S}{\overset{\displaystyle |}{}}$$
$$CH_3.(CH_2)_n.\underset{\displaystyle H}{\overset{\displaystyle |}{C}}.(CH_2)_m.COOX$$

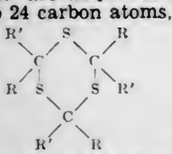
wherein n and m are whole numbers whose sum is not less than 12 and not greater than 48, and X stands for a substituent of the group consisting of hydrogen, an alkyl radical and a metallic salt-forming group,

$$R—S—R$$

wherein R is an alkyl radical containing from 6 to 24 carbon atoms,

$$R—\underset{\displaystyle R'}{\overset{\displaystyle |}{C}}=S$$

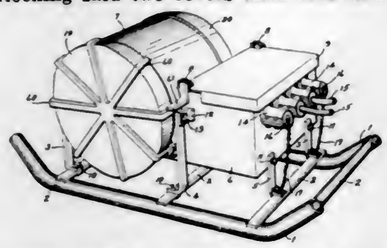
wherein R and R′ are alkyl radicals each containing from 6 to 24 carbon atoms, and



wherein R and R′ are alkyl radicals each containing from 6 to 24 carbon atoms.

2,317,667
JUNCTION BOX
Homer P. Chandler, deceased, late of Mansfield, Ohio, by Lillian C. Chandler, administratrix, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio
Application December 18, 1941, Serial No. 423,504
15 Claims. (Cl. 200—50)

1. In a distribution device, the combination; an outlet box and a tiltable cover therefor; a switch housing and a removable cover therefor; a switch in said housing and means to open and close said switch; means interlocking said tiltable cover and switch such that said switch must be opened before said tiltable cover may be opened; means interlocking said two covers such that said tilt-

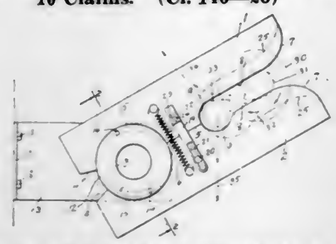


able cover must be opened before said switch housing cover may be opened and rod means extending axially of said switch housing having means thereon interlocking with means on said switch and with means on said switch housing cover such that said switch is held in an open position when said cover is in an open position.

2,317,668
RESINOUS COMPOSITIONS
Harold C. Cheetham and Charles L. Levesque, Philadelphia, Pa., assignors to The Resinous Products & Chemical Company, Philadelphia, Pa.
No Drawing. Application May 18, 1940, Serial No. 336,059
12 Claims. (Cl. 260—22)

1. The resinous reaction products of at least one polyhydric alcohol and the clear, amber-colored, viscous residue containing long-chained polycarboxylic acids, having an acid number between 140 and 165 and an iodine number between 45 and 60, and being the non-volatile material remaining from the vacuum distillation of by-product acids obtained in the preparation of sebacic acid from castor oil by treatment with alkali.

2,317,669
FRUIT HALVING DEVICE
Frank A. Chekian, Modesto, Calif.
Application August 17, 1942, Serial No. 455,070
10 Claims. (Cl. 146—28)



1. A fruit halving device comprising a pair of elongated, co-planar halving blades having opposed, parallel cutting edges spaced apart to provide a path for the pit of the fruit therebetween, a supporting bracket, pivot means supporting said blades at one of their ends on said bracket for relative movement apart in their plane about an axis substantially on a line extending between said blades, and spring means connecting said blades for yieldably resisting said movement.

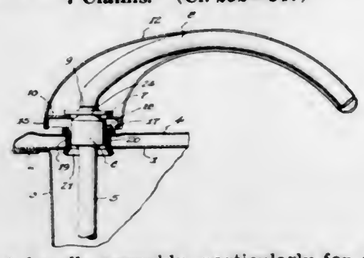
2,317,670
BACTERICIDE AND PROCESS OF MAKING THE SAME
Oakley Ormer Cook and Claud E. Watson, Dallas, Tex., assignors of one-tenth to Albert L. Reed and Carl B. Callaway, Dallas, Tex.
No Drawing. Application January 8, 1940, Serial No. 312,980
6 Claims. (Cl. 260—387)

6. A stabilized composition of matter comprising the product formed by reacting a dilute solution of copper acetate dissolved in a mixture of water and alcohol with a dilute solution of a rosaniline dye dissolved in a mixture of water and lactic acid.

2,317,671
CHEMICAL COMPOUND
Oakley Ormer Cook and Claud E. Watson, Dallas, Tex., assignors of one-tenth to Albert L. Reed and Carl B. Callaway, Dallas, Tex.
No Drawing. Application June 6, 1941, Serial No. 396,938
6 Claims. (Cl. 260—387)

1. As a therapeutic product, a dye selected from the group consisting of triphenyl-rosaniline, triphenyl-para-rosaniline and hexamethyl-para-rosaniline chemically combined with the metal ion of a metal selected from the group consisting of copper, antimony, gold, silver, zinc and mercury and stabilized by an organic acid selected from the group consisting of lactic, tartaric, malic and acetic acids.

2,317,672
AUTOMOBILE DOOR HANDLE ASSEMBLY
Floyd A. Cooley, Detroit, Mich., assignor to Ternstedt Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application March 13, 1942, Serial No. 434,571
7 Claims. (Cl. 292—347)



1. A handle assembly, particularly for outside handles for automobile doors, comprising a rod-like handle spindle and stem with an enlarged bearing portion adapted to fit into a bushing or escutcheon in the door and having also an enlarged annular flange, the said handle stem being arranged in angular relation with respect to the handle spindle, a flanged cap piece welded to said flange and a stamped and a folded metal shell of a substantially closed channel cross-section having an enlarged open inner end, said shell being telescoped over the handle stem and the flange of the cap piece and the inner end portion of the shell secured to the flange of the cap piece.

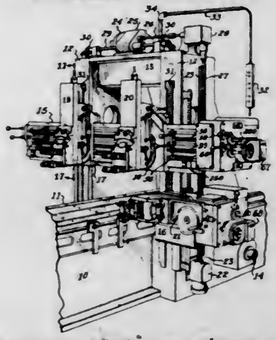
2,317,673
COLOR CORRELATING SAMPLE BOOK
John Gilbert Craig, Wilmington, Del., assignor to Joseph Bancroft & Sons Co., Wilmington, Del., a corporation of Delaware
Application October 3, 1941, Serial No. 413,404
1 Claim. (Cl. 35—55)

A portable sample book for color correlation comprising a back cover having a backbone adjacent to each end, a front cover hinged to each end of the back cover, each backbone having means for detachably securing leaves thereto, a plurality of relatively large leaves of differently ornamentally-patterned cloth hingedly and removably mounted at one edge on the securing means of one of the backbones, a set comprising a plurality of relatively small leaves of differently solid-colored cloth hingedly and removably mounted on securing means of the other back-



bone, and a second set comprising a plurality of relatively small leaves of cloth in simple color designs also hingedly and removably mounted on securing means of said last mentioned backbone in edge-to-edge relation with the solid-colored leaves, said relatively large leaves extending substantially from backbone to backbone and said relatively small leaves being materially less in both height and width than the said large leaves, whereby large and small leaves may be interleaved at will from opposite ends of the back cover, to illustrate a multiplicity of combinations of colors and patterns.

2,317,674
METAL PLANER
Jesse Daugherty, Cincinnati, Ohio, assignor to The Cincinnati Planer Company, Cincinnati, Ohio, a corporation of Ohio
Application March 27, 1941, Serial No. 385,517
11 Claims. (Cl. 90—49)

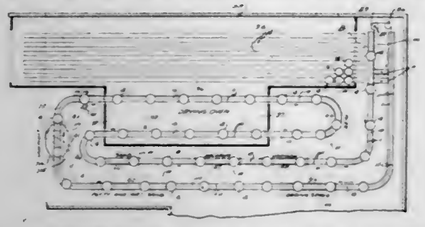


1. In a planer having a column, a cross rail mounted for movement in a vertical direction on said column, a pair of saddles mounted on said cross rail for horizontal movement along said cross rail, a stationary screw mounted in the lower portion of said rail, a rotatable nut mounted in each of said saddles, a drive shaft for each of said saddles mounted in said rail, and a control shaft for each of said saddles mounted in said rail, means including clutches for transmitting driving motion from said drive shafts to said rotatable nuts, and cam means actuable by said control shafts for actuating said clutches.

2,317,675
CONVEYER SYSTEM
Albert R. De Burgh, Bellingham, Wash.
Application October 16, 1939, Serial No. 299,690
12 Claims. (Cl. 198—181)

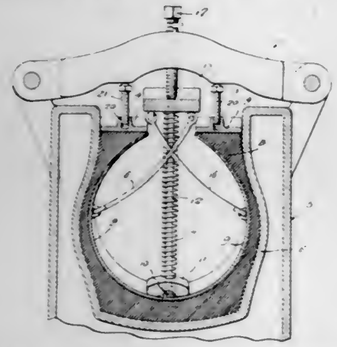
1. In combination, a conveyer means including

a guideway leading through a succession of work stations, a work mounting pallet associated with the conveyer for guided travel therealong by the guideway through the work stations and means located at the work stations onto which the pal-



let will be directed by the guideway for a continuation of travel and for rotation while at the work stations without disassociation of the pallet from the guideway.

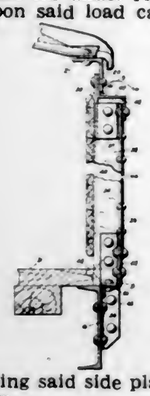
2,317,676
CORE FOR TIRE VULCANIZERS
Arthur A. Dorsey, Emeryville, Calif.
Application September 25, 1942, Serial No. 459,723
5 Claims. (Cl. 18—18)



5. In a tire core, flexible metallic pressure plates hinged to each other, a bearing plate engaging the pressure plates, guide rods carried by the bearing plate, a follower slidable on said rods, links pivotally connected to the follower and to the pressure plates and grouped in pairs with the links of each pair crossing each other, a set screw engaging said follower to impart movement thereto, plates engaging beads of the tire, and set screws carried by the last-named plates.

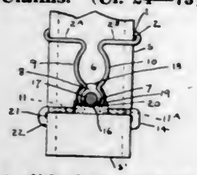
2,317,677
HOUSE CAR CONSTRUCTION
Arthur J. Doyle, Cleveland, Ohio, assignor to The Youngstown Steel Door Company, Cleveland, Ohio, a corporation of Ohio
Application August 6, 1941, Serial No. 405,573
9 Claims. (Cl. 105—409)

1. In a car repair construction for railway house cars the combination with the underframe and existing car roof and side plates, of metallic side walls substituted for the existing side walls and fastened to the car underframe, each of said side walls comprising spaced posts, metallic sheathing secured to said posts and a longitudinally extending load carrying member secured to the upper ends of said posts and sheathing, said existing car roof and side plates being removed as a unit from the car under repair and mounted as a unit upon said load carrying members



and means securing said side plates to said load carrying members.

2,317,678
SLIDE LOOP
George Henry Elwell, New Haven, Conn., assignor to Eastern Tool and Manufacturing Company, Bloomfield, N. J., a corporation
Application September 19, 1942, Serial No. 458,944
2 Claims. (Cl. 24—73)



1. A two-part slide loop, one part comprising a wire structure formed to provide an upper horizontal strap loop from which the wire ends are continued downwardly to provide companion side arms of a button-receiving loop and a button-retaining loop with a constricted throat portion connecting said button loops, the terminals of said wire ends being disposed horizontally, oppositely and relatively aligned to provide supports; the other part of the slide loop comprising a sheet-metal structure depending from said supports; a lower horizontal strap loop provided by the sheet-metal structure, said sheet-metal structure providing a recessed seat within said button-retaining loop for the shank of a button inserted within the button-retaining loop; means provided by one part of the structures and engaging the other part thereof to maintain said parts in a common plane; and a strap inserted from one direction to within the upper strap loop, down over said button loops and, from the opposite direction, to within the lower strap loop.

2,317,679
SLIDE LOOP
George Henry Elwell, New Haven, Conn., assignor to Eastern Tool and Manufacturing Company, Bloomfield, N. J., a corporation
Application September 19, 1942, Serial No. 458,945
6 Claims. (Cl. 24—73)

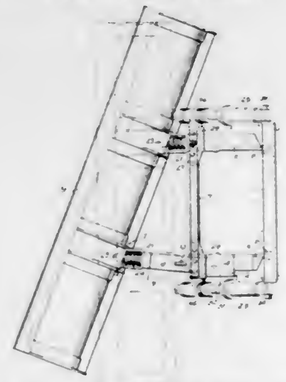
6. A slide loop comprising spaced upper and lower strap-receiving loops, each strap loop having an outer horizontal bar and being in a common plane; a button loop positioned, and providing an integral connection, between the strap loops in said plane; a constricted throat portion

also provided by said connection; a recessed seat for the shank of a button, said seat being provided by the horizontal bar of the lower strap loop; and a central vertical opening extending through the button loop and into both strap loops; whereby a looped strap, held in a vertical plane, transverse to that of the slide loop, and inserted from the rear of the slide loop within said central opening, may be inserted into threaded relation to and within both strap loops by means of swinging each single portion of the



looped strap in opposite directions therein; and the shank of a button, inserted within the button loop at the rear of the inserted strap, may be urged through said throat portion to rest within the strap covered recessed seat, an edge of the button engaging within the adjacent fold of the inserted strap at the outer horizontal bar of the lower strap loop, thus securing the slide loop against sliding movement upon the strap.

2,317,680
SNOWPLOW
Michael F. Fitzpatrick, Brooklyn, N. Y.
Application June 20, 1942, Serial No. 447,827
3 Claims. (Cl. 37—42)



1. In a device of the character indicated, a support, a plow member, means for pivotally supporting a lower part of said plow member on said support for movement about a vertical axis, resilient means connecting said support and said plow member at a point above said lower part, an adjustable bracket member carried by said support, means for holding said bracket member in various positions of adjustment on said support, means for movably securing said bracket to said plow member at a lower part of the latter, and means for securing said bracket to an upper part of said plow member, for the purpose described.

2,317,681
WELDING ELECTRODE
James Fletcher, Detroit, Mich., assignor to Tipaloy, Incorporated, Detroit, Mich., a corporation of Michigan
Application December 15, 1941, Serial No. 423,080
2 Claims. (Cl. 219—4)

1. A spot-welding electrode consisting of a body portion of copper alloy having set in its



welding contact face a plug of silver, said face and plug presenting a flat flush surface.

2,317,682
TENT
Norman Bel Geddes, New York, N. Y.
Application July 21, 1941, Serial No. 403,299
6 Claims. (Cl. 135—1)



1. A take-down and transportable large tent or outdoor enclosure of canvas or like cover material free of substantial interior obstruction, the same comprising the shaped canvas roof or top, as square, in combination with a surrounding system of more than two, as four, stayed masts substantially taller than the roof peak; overhead main or diagonal catenaries strung across from mast to mast above the roof, with series of graduated hangers depending along the lengths of said catenaries and sustaining the roof along lines of attaching points to produce a disposition having diagonal roof ridges diverging and descending from an interior peak; and peripheral catenaries from mast to mast with series of depending hangers along each thereof of graduated lengths to sustain the corresponding roof side edge in a non-sagging or upwardly arched disposition.

2,317,683
CYCLIZATION OF HYDROCARBONS
Bernard S. Greensfelder, Berkeley, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application February 27, 1941, Serial No. 380,893
16 Claims. (Cl. 260—668)

12. Process for the production of aromatic hydrocarbons from aliphatic hydrocarbons having from six to twelve carbon atoms which comprises contacting the aliphatic hydrocarbon under cyclizing conditions with a solid compound catalyst consisting essentially of a cyclizing compound of a metal selected from the left-hand columns of groups IV, V and VI of the periodic table supported upon a major proportion of a stabilizing carrier of relatively low catalytic activity and promoted with about 0.2% to 2% (based on the amount of metal in the cyclizing compound) of a metal selected from the group consisting of platinum and palladium.

2,317,684
ROAD MARKER
John C. Haggart, Jr., Westfield, N. J., assignor to Signal Service Corporation, a corporation of Delaware
Application May 14, 1941, Serial No. 393,336
6 Claims. (Cl. 88—78)

1. A roadside marker comprising a standard

having flaring flanges, a holder spanning the flanges, rearwardly projecting converging extensions on said holder slidably embracing the free ends of the flaring flanges, a rearwardly extending tongue at the top and bottom of said holder which tongues are shaped to conform



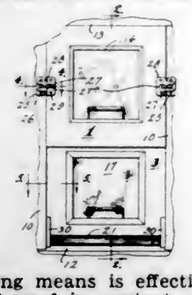
to and engage the inner faces of said flaring flanges, said holder having an aperture in its face and a reflector element backed by the standard and fitting loosely in said aperture and having a retaining bead on its rear face engaging the rear face of the holder.

2,317,685
METHOD OF WATERPROOFING INORGANIC HYDROUS OXIDE BODIES, AND PRODUCT
Ernst A. Hauser, Cambridge, Mass., assignor to Research Corporation, New York, N. Y., a corporation of New York
No Drawing. Application April 3, 1941, Serial No. 386,743
14 Claims. (Cl. 117—123)

1. Method of waterproofing and improving the humidity resistance and electrical properties of bodies composed of colloidal crystalline inorganic hydrous oxides containing structural water and capable of swelling when brought into contact with water to form plastic hydrogels and exhibiting base exchange properties and the individual crystallites of which exhibit at least one surface plane in the form of a silica sheet having hexagonal voids with a diameter of the inscribed circle of about 2.6 Angstrom units, said method comprising contacting such a body with a solution of a salt the cation of which is of such size that it cannot enter into the crystal lattice of the hydrous oxide and the anion of which contains a chain of from 1 to 6 carbon atoms, said salt being capable of forming a water-insoluble basic salt upon being heated.

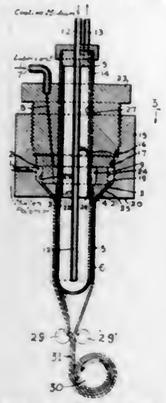
2,317,686
WINDOW STRUCTURE
Peter H. Kuyper, Pella, Iowa, assignor to Rolscreen Company, Pella, Iowa, a corporation of Iowa
Application October 12, 1942, Serial No. 461,717
20 Claims. (Cl. 160—101)

1. In a window structure, an upper storm sash, a lower storm sash and a lower screen sash, means for supporting said upper storm sash in a window frame and biasing it toward the blind stops thereof, one of the remaining sashes being confined by said biasing means between said upper storm sash and said blind stops, the other of said remaining sashes being in contact with said blind stops and forming a downward continuation of said upper storm sash, said upper storm sash overlapping the upper edge of said other remaining sash where-



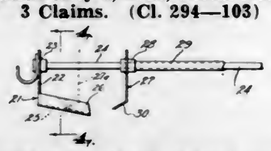
by said biasing means is effective to hold the upper end thereof in contact with said blind stops, and retaining means adjacent the bottom of said other remaining sash presenting inclined surfaces engaged by the lower end thereof to retain said lower end in contact with said blind stops.

2,317,687
PRODUCTION OF HOLLOW ARTICLES FROM POLYMERIC COMPOSITIONS
Arthur Whitney Larchar, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application April 4, 1940, Serial No. 327,903
15 Claims. (Cl. 18—14)



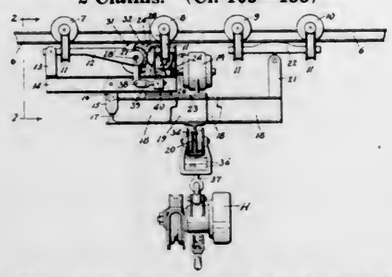
1. Extrusion head and apparatus for continuously forming from fluid organic material seamless, thin-walled tubing of substantially uniform cross-sectional contour, the said head and apparatus comprising in combination, heating means for maintaining the said organic material fluid while inside said head, an extrusion orifice whose shape and dimensions correspond to those desired for the said tubing at the instant of its extrusion, the said orifice being formed by an external lip perimetrically disposed about a forming member protruding therethrough, means for delivering said organic material through said orifice upon said forming member, means for applying lubricant upon the latter beneath said extruded organic material, means for cooling said organic material to the solid state within one second from the instant of its extrusion, and take-off means for continuously removing the resultant tubing from the forming member.

2,317,688
INCENDIARY PROTECTIVE SHOVEL
Harrison G. McDonald, Pasadena, Calif.
Application May 5, 1942, Serial No. 441,783
3 Claims. (Cl. 294—103)



2. An incendiary bomb shovel comprising a tubular handle having a longitudinal bore, a transversely extending blade attached to said handle, a relatively movable rod extending through the handle bore, and a transverse movable blade attached to said rod and extending, when the rod is horizontal, downwardly and then inwardly along an inclined plane toward the other blade, said blades being relatively movable together to bring the first mentioned blade into overlying relation with the inclined portion of said movable blade and to a position of frictional engagement therewith limiting such relative movement, in which position said first mentioned blade is spaced from the downwardly extending portion of the other blade.

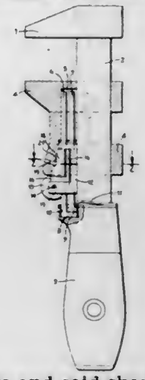
2,317,689
UNDERDRIVE FOR TRAVELING CRANES, MONORAILS, AND THE LIKE
Arthur L. Medenwald, Los Angeles, Calif., assignor to Earl B. Spencer and George B. Morris, copartners, doing business as Spencer & Morris, Los Angeles, Calif.
Application April 21, 1941, Serial No. 389,582
2 Claims. (Cl. 105—153)



1. The combination with a load carrying apparatus to run on a track, of a horizontal load supporting lever pivotally suspended intermediate its ends from said apparatus under said track, a traction wheel carried at one end of said lever and engaging the underside of said track, means at the other end of said load supporting lever for supporting a load to be carried, whereby increased load increases the traction of said traction wheel, and means for driving said traction wheel to move said apparatus on said track.

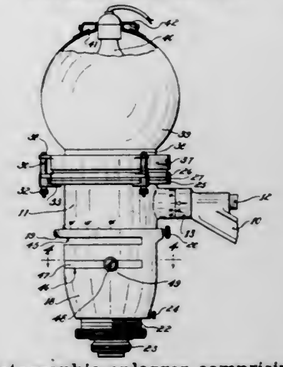
2,317,690
CLAMPING DEVICE
Porter S. Morgan, Weston, Conn., assignor to The Capewell Manufacturing Company, Hartford, Conn., a corporation of Connecticut
Application August 3, 1940, Serial No. 350,937
11 Claims. (Cl. 81—154)

1. A clamping device comprising a shank provided with a fixed jaw, a movable jaw slidable along said shank, and means for holding the movable jaw in clamping position on said shank, said means including a wedge member and a plurality of clamping members, a plurality of stationary members extending parallel to said shank, said wedge and clamping members being movable with said movable jaw, said wedge member reacting against said movable jaw to clamp said clamping members against one of said sta-



tionary members and said shank when the movable jaw is moved relative to said wedge member in a direction away from the fixed jaw and means for moving said wedge member relative to said movable jaw to release such clamping action.

2,317,691
PHOTOGRAPHIC ENLARGER
George G. Morin, Holyoke, Mass.
Application May 17, 1940, Serial No. 335,707
5 Claims. (Cl. 88—24)

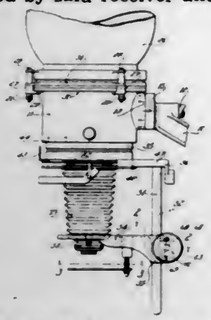


1. A photographic enlarger comprising a supporting arm, a housing mounted on said arm, a light source and a condensing lens unit carried thereby, a lens and negative housing mounted on the first mentioned housing, means in said last named housing for selectively receiving any one of a plurality of lenses of different focal lengths, a plurality of spaced apart negative holder receiving slots formed in the lens housing at varying distances from said lens receiving means, and means for closing all but one of the negative receiving slots.

2,317,692
PHOTOGRAPHIC ENLARGER
George G. Morin, Holyoke, Mass.
Application September 6, 1940, Serial No. 355,638
8 Claims. (Cl. 88—24)

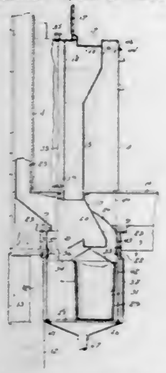
1. A photographic enlarger comprising a vertically adjustable supporting arm, a housing

mounted on said arm, a light housing, a condensing lens unit and a negative holder receiver carried by and supported on said housing and on a common axis, a lens and lens carriage carried and supported by said receiver and mounted for



adjustment along said common axis relative to said receiver, said housing having thereon means for mounting said negative holder receiver for adjustment along said common axis relative to said condenser lens unit.

2,317,693
WASTE VAULT
Stuart Nyboer, Webster, N. Y.
Application April 10, 1942, Serial No. 438,496
4 Claims. (Cl. 4—190)

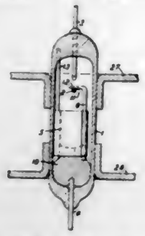


1. A waste vault, comprising a hollow standard, a bowl mounted on the upper end of the standard and having an open bottom communicating therewith, a receptacle at the bottom of the standard and of an area greater than that of the standard, an inclined chute having a portion formed of mesh and connecting the standard with one side of the receptacle, a garbage pail in the receptacle underneath the chute, and a discharge for said receptacle.

2,317,694
PARAFFIN ALKYLATION PROCESS
Clarence J. Ott, San Francisco, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application September 27, 1941, Serial No. 412,681
8 Claims. (Cl. 196—10)

5. A process of alkylating a saturated aliphatic hydrocarbon having a tertiary carbon atom which comprises reacting said hydrocarbon with an aliphatic ester of an organic monobasic acid having a dissociation constant greater than 2×10^{-5} in the presence of an alkylation catalyst.

2,317,695
ELECTRIC SWITCH
Charles E. Pollard, Hohokus, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 15, 1940, Serial No. 340,663
6 Claims. (Cl. 200—112)



1. The combination in an electric switch of a housing tube, a stationary contact extending into said tube, an armature movable up and down within said tube, a movable contact secured to the armature and engaging said stationary contact in the normal position of the armature to define the lower limit of the armature movement, a mass of mercury resting in the lower part of said tube with its upper surface adhering to the lower end of said armature, the adhesion of the mercury to the armature serving to produce forces of surface tension therein which act to hold said movable contact firmly in engagement with said stationary contact, and means for moving said armature upward to further displace the mercury mass and to disengage said movable contact from said stationary contact, said forces of surface tension serving to increase the speed of restoration of said armature to its normal position.

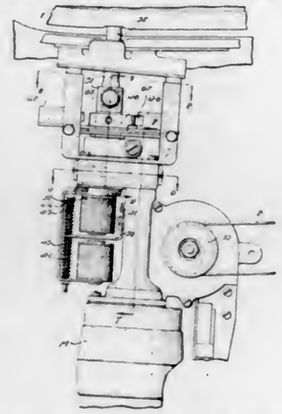
2,317,696
PROCESS FOR IMPARTING GREASEPROOF CHARACTERISTICS TO PAPER
Edward D. Rich, Tacoma, Wash.
No Drawing. Application May 13, 1942, Serial No. 442,852
1 Claim. (Cl. 117—86)

Process for imparting greaseproof characteristics to paper which comprises coating paper first with a water solution containing 5 to 20%, by weight, of a reduced viscosity starch, 1.0 to 10.0%, by weight, of glycerine, and 0.5 to 2%, by weight of a methyl ether of cellulose which is soluble in water; thereafter drying the paper, applying on the same side of the paper a water solution containing 1 to 10%, by weight, of a methyl ether of cellulose which is soluble in water and 1.0 to 5%, by weight, of glycerine; and thereafter drying the paper.

2,317,697
POWER OPERATED WINDOW REGULATOR
Emory Glenn Simpson, Detroit, Mich., assignor to Ternstedt Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application June 18, 1941, Serial No. 398,559
3 Claims. (Cl. 268—19)

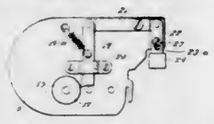
1. In a window regulator for operating a swinging panel and a sliding panel in a no-draft ventilating system, a mechanism for turning the swinging panel, a mechanism for raising and lowering the sliding panel, the two mechanisms including worms, a drive shaft upon which the worms are loosely supported, a clutch member splined on the drive shaft and adapted to be shifted into end-to-end engagement with either

of the worms to selectively drive either of the regulators, an armature engaging said clutch member to shift the same, and two solenoids for shifting the armature in either direction to couple the driving shaft with either worm, a motor for driving said shaft, and switches, one switch for



controlling the direction of the motor and, at the same time, one solenoid to shift the clutch to engage one worm, and the other switch controlling the direction of the rotation of the motor and the other solenoid to shift the clutch to operate the other worm.

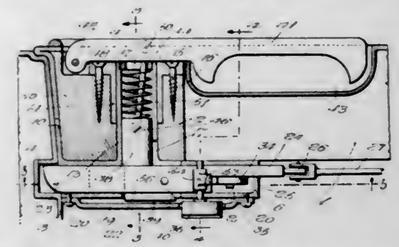
2,317,698
SEWING MACHINE MECHANISM
Charles K. Stotz, Farmington, Conn., assignor to The Cha-Gobe Company, Hartford, Conn., a corporation of Connecticut
Application August 16, 1940, Serial No. 352,924
4 Claims. (Cl. 112—2)



1. For a sewing machine of the character described comprising means including a needle for applying an over-edge stitch to a piece of material, mechanism including a work carrier rotatable on an axis spaced from said needle, ratchet means for intermittently rotating said member, said means including a ratchet wheel, a pawl, a lever for operating said pawl, a slidable bar for operating said lever, an adjustable cam carried by said machine for actuating said bar, and a single spring urging said pawl into engagement with said ratchet and said bar in the direction of said cam.

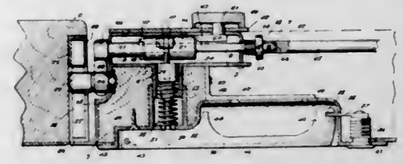
2,317,699
AUTOMOBILE DOOR LOCK
Arthur S. Thompson, Ontario, Calif.
Application August 21, 1941, Serial No. 407,786
6 Claims. (Cl. 292—166)

6. A lock of the character described comprising a casing having a forward edge wall formed with an opening, a bolt slidable longitudinally in the casing for movement from extended locking position through the opening to retracted position, a plunger slidable transversely through the casing and adapted to retract the bolt when shifted outwardly, a handle for shifting the plunger outwardly when moved in a direction to open a door, a spring urging the bolt toward extended position, and means for releasably holding the bolt in its extended position consisting of a shaft rotatably mounted through the casing transversely of the bolt with one end protruding



from the casing and provided with turning means accessible to a person within a vehicle, a pin extending from the bolt, and an arm carried by said shaft and extending laterally therefrom in position for engaging the pin and securing the bolt in extended position when the shaft is turned in one direction.

2,317,700
DOOR LOCK
Arthur S. Thompson, Ontario, Calif.
Application June 11, 1942, Serial No. 446,646
9 Claims. (Cl. 292—254)

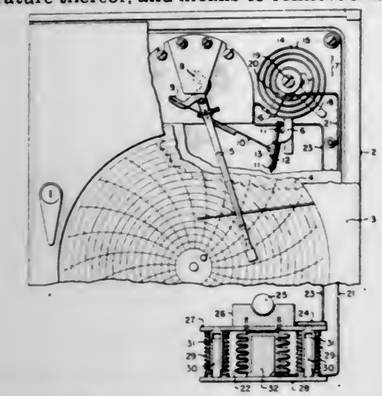


1. In combination with a door frame and a door hinged at one side to the door frame, a keeper carried by the door frame at the free side of the door and including a movable jaw normally in a gripping position, a member at the free side of said door for engagement by the movable jaw to hold the door closed, a rotatable shaft carried by the door and provided with means for moving the movable jaw of the keeper to a releasing position permitting opening of the door when the shaft is turned in a releasing direction, and a handle for turning said shaft exposed externally of the door.

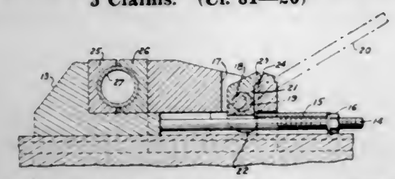
2,317,701
MEASURING INSTRUMENT
Roy Ullman, Roslyn, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania
Application January 31, 1940, Serial No. 316,590
5 Claims. (Cl. 265—47)

1. A compensated pressure measuring system comprising in combination, an exhibiting element, means jointly operating to move the same comprising a pair of axially aligned Bourdon tubes, one attached to the other, a stationary support, an expansible element mounted on said support and adapted to be subjected to variable pressures, transmission means between said expansible element and one Bourdon tube, a temperature responsive member mounted adjacent

said expansible element and subjected to the temperature thereof, and means to connect said temperature responsive element to the second Bourdon tube.



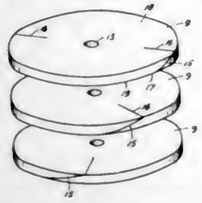
2,317,702
PIPE HOLDING VISE
Philip B. Wallace, San Francisco, Calif., assignor to U. S. Pipe Bending Co., San Francisco, Calif., a partnership of California
Application September 2, 1941, Serial No. 409,209
5 Claims. (Cl. 81—26)



1. In a vise of the character described, the combination of a body member having a stationary jaw portion and a walled aperture extending vertically therethrough at the rear of said jaw portion, a movable jaw forming member having a threaded portion extending through said body member and beyond said walled aperture, an adjustable sleeve mounted upon the threaded portion of said movable jaw forming member, a shaft extending through said body member and having an eccentric portion disposed within the walled aperture of said body member, a lever forming member pivotally mounted upon the eccentric portion of said shaft engageable at one end with a wall of said walled aperture and engageable at its other end with said adjustable sleeve, and means for rotating said shaft, whereby said lever forming member will have a sliding fulcrum at its point of engagement with the wall of said aperture to exert pressure upon said adjustable sleeve and cause said jaws to move into clamping relation with each other.

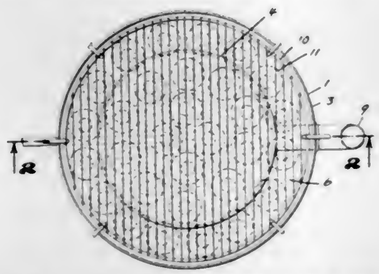
2,317,703
POLISHING OR BUFFING WHEEL AND DISKS THEREFOR
Thomas Whitehead, Bellevue, Ky.
Application July 24, 1942, Serial No. 452,185
5 Claims. (Cl. 51—193)

1. A buffing or polishing wheel comprising in combination, a plurality of flat planar disk elements secured in face to face contact, thereby to establish a succession of substantially parallel joints at the peripheries of adjacent discs, and at least one breaker strip embedded in the peripheries of the individual discs, to diagonally traverse said joints and interrupt the continuity



of said joints about the periphery of the wheel, to preclude grooving and ridging of work applied to the periphery of the wheel when rotated.

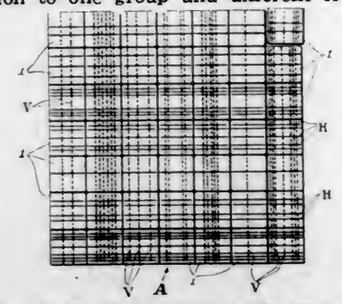
2,317,704
DEVICE FOR FRYING DOUGHNUTS OR THE LIKE
Philip K. Winter, Oakland, Calif.
Application January 27, 1942, Serial No. 428,400
2 Claims. (Cl. 53—7)



1. In a device for frying doughnuts or the like, a kettle for holding a frying medium, the kettle being relatively low as compared with its width, and having a vertical outer wall open at its upper end to allow of the insertion and removal of a material-supporting screen substantially coextensive in size with the inside dimensions of the kettle, an inner wall concentric therewith and spaced therefrom, a flat bottom section connecting the lower ends of the two walls to form a continuous annular well therewith and a dome overlying the inner wall and freely communicating with the well for causing solids to settle toward the bottom of the well, the inner wall being at least one-half the height of the kettle to leave a relatively shallow stratum of frying medium above the dome and to provide a deep well, and means for applying heat to the dome from below for directly heating the upper stratum of the frying medium, the heating means being arranged substantially midway of the height of the well to leave the lower portion of the well relatively cool, and the well being sufficiently wide to cause circulation of the medium downward along the outer wall and upward along the inner wall due to differences in temperature between the two walls.

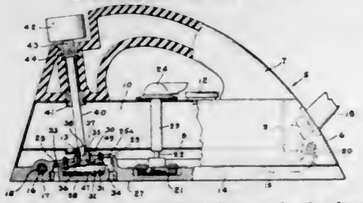
2,317,705
GAME APPARATUS
Robert O. Wood, Upper Montclair, N. J.
Application January 14, 1941, Serial No. 374,333
4 Claims. (Cl. 273—137)

4. A game comprising a plurality of groups of game pieces, each piece being a member of two groups and carrying two series of indicia each common to one group and different from the



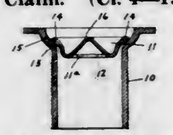
indicia of all other groups, each group of said game includes the same number of pieces.

2,317,706
STEAM IRON
Kenneth L. Woodman, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
2 Claims. (Cl. 38—77)



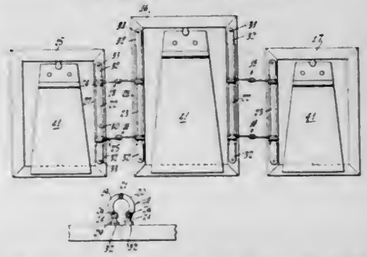
1. A steam iron comprising a body having a liquid storage chamber and an ironing base provided with an ironing surface, a steam generating chamber provided in said body at a level below said storage chamber, means for heating said base and steam generating chamber, a plug member, having an inner surface and an outer surface, removably secured in said base, the inner surface of said plug member defining a wall of said steam generating chamber, the outer surface of said plug member being substantially flush with said ironing surface of said base, passage means connecting said chambers whereby liquid in said storage chamber may flow into said steam generating chamber for conversion into steam, temperature-responsive means adjustably mounted within said steam generating chamber and accessible for adjustment upon removal of said plug member, and valve means actuated by said temperature-responsive means for controlling the flow of liquid through said passage means.

2,317,707
STRAINER FOR PLUMBING FIXTURES
Morris Yavitch, Los Angeles, Calif.
Application April 22, 1940, Serial No. 330,933
1 Claim. (Cl. 4—190)



In a device of the character described, the combination with a tubular fixture, of a strainer supported within the fixture, said strainer comprising a circular bottom portion and an upstanding peripheral flange, said flange having an outwardly extending lip to rest on the fixture, said bottom portion having a pair of spaced and parallel slits in its central zone, said slits extending through the bottom but terminating at both ends short of the perimeter of the bottom, a bridge portion between said slits, said bridge being integrally connected at its ends with the bottom at the ends of the slits and being extended upwardly above the bottom to form a handle for lifting the strainer, said upturned handle extending above the plane of the upper edge of the peripheral flange and being concaved transversely and upwardly to strengthen the bridge, and the bottom of the strainer having a series of perforations in the zones outside the central zone having the slits.

2,317,708
ASSEMBLED PICTURE FRAME OR THE LIKE
Walter Zareko, New York, N. Y., assignor to Doris Zareko, New York, N. Y.
Application February 10, 1941, Serial No. 378,121
6 Claims. (Cl. 40—152)

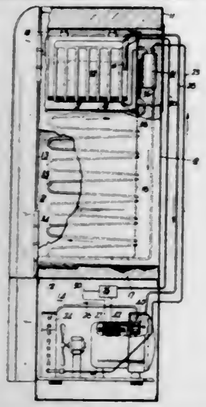


4. Hingedly-connected panels, including at least two spaced apart panels, connecting means comprising a pair of leaves pivoted together and extending transversely between the panels, slide members at the opposite ends of the connecting means, parallel guides on the adjacent portions of the panels and receiving the slide members for adjustment thereon, and pivotal connections between the guides and the ends of the connecting means and supplementing the pivot of said leaves, the panels thereby adapted to be spaced apart in one plane or in different planes.

2,317,709
REFRIGERATION APPARATUS
Carl F. Alsing, Wilbraham, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 10, 1941, Serial No. 422,342
5 Claims. (Cl. 62—99)

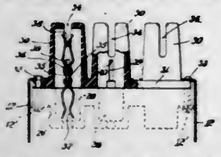
1. In refrigerating apparatus, the combination of an insulated cabinet defining a low-humidity and a high-humidity compartment, a thermal storage liquid, a primary cooling unit for cooling the low-humidity compartment and the thermal storage liquid, means for intermittently supplying the primary cooling unit with refrigerant to maintain the temperature of said primary cooling unit between predetermined limits, a secondary evaporative cooling unit for cooling the high-humidity compartment, said secondary evaporative cooling unit having extended heat-absorbing surfaces, and a condenser for said secondary evaporative cooling unit, said condenser being in heat-transfer relationship with said thermal storage liquid, said thermal storage liquid having

a congealing point of such temperature that a substantial portion of the liquid congeals when



said means supplies the primary cooling unit with refrigerant and melts when said means does not supply the primary cooling unit with refrigerant.

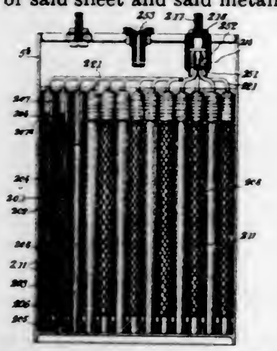
2,317,710
BRANCH BOX CONNECTOR
William C. Anderson, Bromley, Ky., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn., a corporation of Connecticut
Application March 21, 1942, Serial No. 435,615
5 Claims. (Cl. 173—334.1)



5. A bus bar connector plug-in device including a box having spaced openings in its wall, an insulating plate secured to the inside of said wall and having hollow shield members projecting through said openings and being provided with slots, an insulating block mounted adjacent said plate and having openings in alignment with said shield members, and detachable and floatable contact members, said contact members having conductor embraceable jaws at both ends, the jaws at one of their ends projecting into said shields for embracing bus bars and the jaws at the other ends projecting into the openings in said block for embracing contact members in the box.

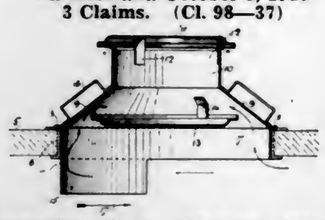
2,317,711
ACCUMULATOR
Henri Georges André, Colombes, France; vested in the Alien Property Custodian
Application January 22, 1937, Serial No. 121,898
In France February 4, 1936
4 Claims. (Cl. 136—31)

1. An accumulator which comprises, in combination, a container, an electrolyte in said container, a series of positive electrode elements made of a metal insoluble in said electrolyte, a cellulosic wrapping surrounding each of said positive electrode elements, said positive elements together with their respective wrappings being disposed vertically at a distance from one another in said container, in substantially parallel relationship, a sheet of a metal soluble in said electrolyte, a metallic envelope surrounding said sheet of a structure capable of forming a multiplicity of supports at different levels for a finely divided matter dropping along said sheet, without interfering with the flow of gases along said sheet, the whole of said sheet and said metallic support



being plaited in zig-zag fashion, so that the positive electrode elements are inserted between said plaits, the metal of said support being such that it does not form electric cells with the metals of the other elements, and means for electrically connecting together all of said positive electrode elements.

2,317,712
BLACKING OUT SHIPS WHILE STILL PROVIDING FOR THE VENTILATION THEREOF
Marcel Ney Angelant, Melbourne, Victoria, Australia
Application August 20, 1941, Serial No. 407,636
In Australia October 8, 1940
3 Claims. (Cl. 98—37)

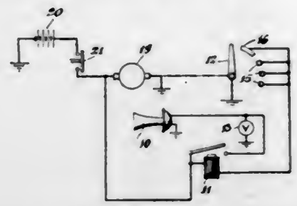


1. Apparatus of the character described including an annulus adapted to fit into an open porthole of a ship, a truncated hollow cone extending inwardly from the annulus, an extension continuing from the cone, a disc over but not closing the open end of said extension and a further disc supported within the frustum of said hollow cone in such a way as to permit the passage of air inwards through the annulus, between the disc and the frustum to and through said extension, and a flange extending from the annulus to engage the inside wall of the ship.

2,317,713
SIGNAL MECHANISM
John R. Aufiero, Brooklyn, N. Y.
Application September 11, 1941, Serial No. 410,375
1 Claim. (Cl. 177—7)

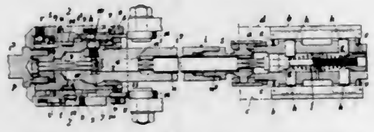
In combination, an audible electrically actuated signalling means, a visual electrically actuated signalling means, indicia associated with said last named signalling means, a control in electrical connection with both said signalling means to cause a simultaneous actuation thereof,

and means forming a part of said control for intermittently actuating both of said signalling



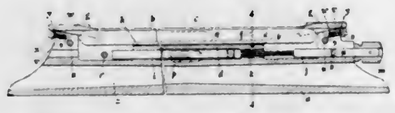
means in accordance with a predetermined sequence corresponding to that of the indicia.

2,317,714
MEANS FOR AUTOMATICALLY ADJUSTING ADJUSTABLE ABRASIVE OR CUTTING TOOLS
Edgar Dale Ball, Derby, England, assignor of one-half to George H. Alexander Machinery Limited, Birmingham, England
Application March 13, 1942, Serial No. 434,610
In Great Britain March 28, 1941
8 Claims. (Cl. 51—184.3)



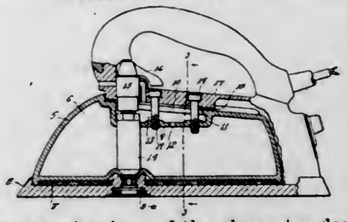
8. Means for automatically adjusting an adjustable abrasive or cutting tool, comprising the combination of a hollow spindle adapted at one end for connection to the tool, an inner spindle arranged within the hollow spindle and adapted at one end for connection to a device for adjusting the tool, a slidable sleeve on the hollow spindle, and means interconnecting the sleeve and the inner spindle so that linear movement of the sleeve relatively to the outer spindle effects angular movement of the inner spindle, the interconnecting means having in combination an angularly movable member, a helical connection between the said member and the sleeve, toothed gearing connected to the inner spindle, and a unidirectional clutch through which motion can be transmitted from the said member to the said gearing.

2,317,715
SPIRIT LEVEL
Edgar Dale Ball, Derby, England, assignor of one-half to George H. Alexander Machinery Limited, Birmingham, England
Application June 5, 1942, Serial No. 445,935
In Great Britain June 18, 1941
4 Claims. (Cl. 33—214)



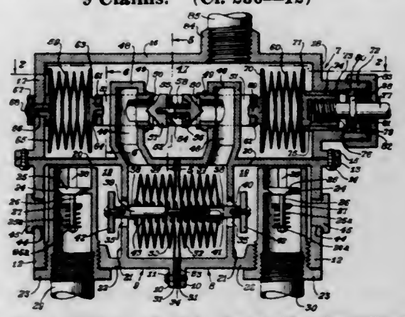
1. A spirit level comprising the combination of a hollow body part, a substantially straight tube containing liquid and a visible bubble, and means within the body part for flexing the tube.

2,317,716
COMBINATION PRESSING AND STEAMING IRON
Edward H. Bassett, West Hartford, Conn., assignor to The Silex Company, Hartford, Conn., a corporation of Connecticut
Application August 16, 1940, Serial No. 352,933
1 Claim. (Cl. 38—77)



For a steaming iron of the character described comprising a casing formed of a unitary structure and having a water heating chamber therein, a partition in said water heating chamber extending substantially horizontally across the same to the sides of said casing, vertical walls extending from the front and rear of said partition to the top of said casing, said partition and walls defining a steam chamber having an opening in the top of said casing, a cover for said opening and means threaded to said partition for securing said cover to said casing; said partition having an opening therein communicating said steam chamber with said water heating chamber.

2,317,717
AUTOMATIC FLUID TEMPERATURE REGULATOR
Carl V. Bauman, Three Rivers, Calif.
Application December 2, 1938, Serial No. 243,573
9 Claims. (Cl. 236—12)



1. In a device of the character described, a casing, partitions in said casing forming a pair of inlet chambers and a pressure control chamber, pipes leading into said inlet chambers, respectively, valve means controlling communication between said pipes and inlet chambers, respectively, adapted to open to pressure in said pipes, bellows in said pressure control chamber movable in response to pressure of fluid entering said pressure control chamber through ports in said partitions, and valve means controlling said ports respectively actuated by said bellows, and movable independently of one another throughout their range of movement, and resilient means to resist compression of said bellows.

5. In a device of the character described, a casing comprising ported partitions therein forming walls of a mixing chamber and of a pressure control chamber and of a pair of inlet chambers, valve means controlling each of a pair

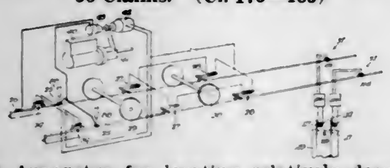
of said ports communicating respective inlet chambers and pressure control chamber, and valve means controlling a pair of said ports communicating said pressure control chamber and said mixing chamber, means within said pressure control chamber actuated by the pressure of fluid thereagainst to vary the position of said first-named valve means independent of one another, and a thermostat within said mixing chamber controlling the position of said second valve means.

2,317,718

METHOD AND APPARATUS FOR DETECTING FLAWS IN MAGNETIZABLE BODIES

Walter C. Barnes, Lake Bluff, and Henry W. Keevil, Highland Park, Ill.

Application June 6, 1938, Serial No. 212,121
58 Claims. (Cl. 175—183)



2. Apparatus for locating relatively deep internal flaws in rails comprising means for progressively sending magnetic flux through successive portions of a rail to establish characteristic residual magnetic conditions in the vicinity of such flaws, a flux responsive device, means for mounting the flux responsive device for movement over the portions of the rail thus energized, said flux responsive device being spaced a sufficient distance from the first-named means so that only the residual magnetism as distinguished from the flux from the magnetic flux means in the vicinity of such flaws affects the device.

19. The method of locating relatively deep internal defects in rails which consists in progressively applying to successive portions of the rail rail-conditioning means capable of setting up characteristic residual magnetic conditions in the vicinity of said defects, and subsequently, not simultaneously, progressively exploring with inductive means the space around said portions of the rail whereby the passing of the inductive means through the residual magnetic field will cause the inductive means to produce a flaw indication.

36. The method of detecting flaws in a ferromagnetic body which consists in subjecting the body to an energizing force which when removed leaves a residual magnetic field in the vicinity of such flaws, and then locating said field by moving a flux responsive device along the body in a path that will cause the device to produce an indication when it traverses said field.

44. The method of polarizing flaws in elongated magnetizable bodies which consists in laterally introducing a strong energizing flux into the body, then causing it to pass longitudinally through the body, and finally to gradually leave the body along a substantial length thereof.

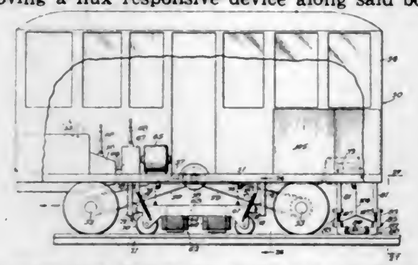
2,317,719

METHOD AND APPARATUS FOR DETECTING FLAWS IN MAGNETIZABLE BODIES

Walter C. Barnes, Lake Bluff, and Henry W. Keevil, Highland Park, Ill.

Original application June 8, 1935, Serial No. 25,586. Divided and this application April 17, 1940, Serial No. 330,210
9 Claims. (Cl. 175—183)

3. The method of detecting flaws in a ferromagnetic body which consists in subjecting the body to the energizing force which, when removed, leaves a residual magnetic field in the vicinity of said flaws, then locating said field by moving a flux responsive device along said body



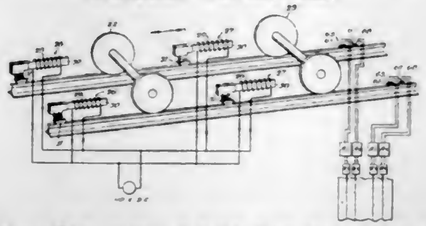
to cause the device to produce an indication when it traverses said field, said device including a detector coil having its longitudinal axis at a substantial angle to the longitudinal axis of the body.

2,317,720

METHOD AND APPARATUS FOR DETECTING FLAWS IN MAGNETIZABLE BODIES

Walter C. Barnes, Lake Bluff, and Henry W. Keevil, Highland Park, Ill.

Application April 17, 1940, Serial No. 330,209
22 Claims. (Cl. 175—183)



1. In flaw detecting apparatus, a car, flaw detecting apparatus mounted on the car including a pair of magnets, a magnetically responsive detector, means for mounting the magnets and detector so that when the car moves in a given direction the two magnets successively and substantially independently impress their fields upon the body under test, and are then followed by the detector which locates traces of residual magnetism.

5. The method of detecting flaws in a magnetizable body which consists in laterally introducing into the body a magnetic flux in such a manner that a portion of the flux passes forwardly through the body although the main body of flux passes rearwardly through the body, gradually leaves it, and then laterally introducing into the body a second magnetic flux in which a larger proportion of the second magnetic flux passes rearwardly through the body than is the case with the first magnetic flux, and then testing the body for traces of residual magnetism.

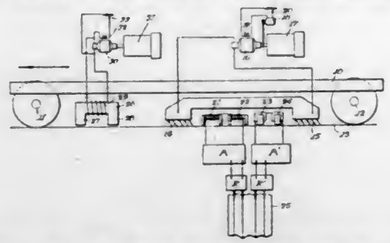
2,317,721

METHOD AND APPARATUS FOR DETECTING FLAWS

Walter C. Barnes, Lake Bluff, Ill.

Application May 11, 1940, Serial No. 334,635
18 Claims. (Cl. 175—183)

1. In apparatus for detecting flaws in metallic bodies, the combination of means for progressively passing an electrical current longitudinally through the body to set up a transverse magnetic field in the vicinity of the body, inductive means for detecting variations in said magnetic field, and means in advance of the current producing



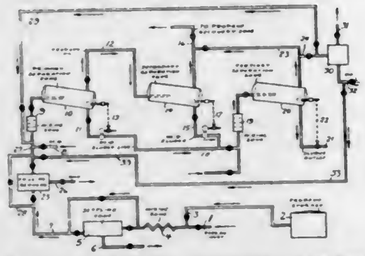
means for passing a strong, longitudinal magnetic field through the body, said inductive means including a longitudinal coil and a transverse coil.

2,317,722

REFINING MINERAL OILS

George S. Bays, Jr., Baytown, Tex., assignor to Standard Oil Development Company, a corporation of Delaware

Application July 5, 1941, Serial No. 401,124
11 Claims. (Cl. 196—34)



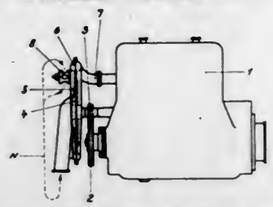
1. A process for the recovery of valuable oil constituents from an acid sludge secured in the acid treatment of petroleum oils, which comprises contacting said sludge after separation from the petroleum oil with a liquefied normally gaseous hydrocarbon solvent under conditions to form two phases, separating the solvent, and recovering valuable oil constituents therefrom.

2,317,723

AIR BLOWER

Walter Becht, Stuttgart-Bad Cannstatt, Germany; vested in the Alien Property Custodian

Application January 26, 1940, Serial No. 315,665
In Germany February 4, 1939
5 Claims. (Cl. 230—22)



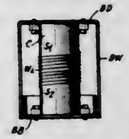
1. A turbo-blower comprising, in combination, a turbine wheel, a casing surrounding said wheel having a centrally located inlet opening, a substantially tangential discharge opening, and a by-pass opening positioned immediately outside the periphery of said turbine wheel, and means for adjustably throttling said by-pass opening.

2,317,724

SHIELDED COIL WITH TEMPERATURE COMPENSATION

Fritz Bergtold, Munich, Germany; vested in the Alien Property Custodian

Application November 19, 1940, Serial No. 366,235
In Germany May 17, 1939
5 Claims. (Cl. 171—242)



1. In a temperature compensated inductance device, an inductance coil, a metallic shielding housing for said coil comprising a pair of substantially coaxial telescoped members, said coil being mounted within said housing so that the axis of the coil is substantially parallel to the axis of the housing, a spacing element composed of material having a low temperature coefficient of expansion, said element having one end fixedly connected to the frontal side of one of said telescoped members and its other end fixedly connected to the frontal side of the other of said telescoped members, said element acting to maintain the distance between the two frontal sides of said members substantially constant irrespective of temperature changes.

2,317,725

COATING AGENT

Kurt Billig, Frankfort-on-the-Main-Hochst, Germany; vested in the Alien Property Custodian

No Drawing. Application October 14, 1939, Serial No. 299,521. In Germany September 24, 1938
1 Claim. (Cl. 260—32)

A coating composition comprising an aqueous solution of the ammonium salt of an interpolymerization product of about 90 to 98 per cent of vinyl acetate with about 2 to 10 per cent of crotonic acid, which when applied and dried gives a clear, solid, hard, water-proof film, insoluble in water and resistant to benzine and mineral oils.

2,317,726

BREAKING AGENT FOR EMULSIONS FROM CRUDE PETROLEUM AND SALT WATER AND A BREAKAGE OF SAID EMULSIONS

Karl Boedeker and Karl Winnacker, Frankfort-on-the-Main-Hochst, Germany; vested in the Alien Property Custodian

No Drawing. Application November 22, 1938, Serial No. 241,868. In Germany November 23, 1937
1 Claim. (Cl. 252—331)

In the breaking of emulsions from crude petroleum and salt water the step which comprises adding at a temperature above 55° C. to the emulsions a small quantity of a mixture of isomeric dodecyl- to tetradecyl-phenyl-polyglycolic ethers, the polyglycolic radical of which comprises about 13 to 15 mol of etheylene oxide in an etherlike chain, the aqueous solution of which mixture decomposes into two phases at a temperature about 43° C.

2,317,727

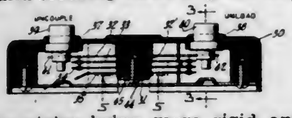
PUSH BUTTON CONTROLLER

Joseph L. Bonanno, Maplewood, N. J., assignor to The Lionel Corporation, New York, N. Y., a corporation of New York

Application March 16, 1940, Serial No. 324,246
6 Claims. (Cl. 200—1)

1. A switch comprising an insulating body hav-

ing a non-circular post, a plurality of resilient sheet metal contact carrying strips having non-circular openings receiving the post, a plurality of insulating washers intermediate the strips, means clamping the washers and strips closely together and securing them in place on the post,



one of the strips being more rigid and longer than the others, and a push button movably carried by the body and bearing on said longer strip, the longer strip being bendable by the push button to alter its circuit relation with at least one adjacent contact carrying strip.

2,317,728

SIZING SYNTHETIC LINEAR POLYAMIDE TEXTILES

John E. Bristol, Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application December 6, 1941, Serial No. 421,957

18 Claims. (Cl. 117—139)

1. The process of sizing sheets, yarn and the like composed of a synthetic linear fiber-forming polymer which comprises applying thereto a coating of an anchoring agent containing a tannic acid, and applying to said coated structure a sizing composition.

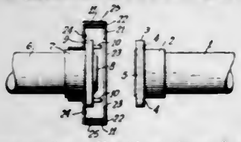
2,317,729

MEANS FOR EFFECTING DETACHABLE COUPLING OF TUBULAR ELEMENTS

William A. Bruno, Astoria, Long Island, N. Y., assignor to the firm Bruno Patents, Inc., Long Island City, N. Y.

Application July 14, 1942, Serial No. 450,857

5 Claims. (Cl. 285—180)



1. In a means for effecting detachable coupling of tubular elements provided with registering tubular end pieces, and registering non-circular flanged members arranged on said tubular end pieces, a coupling member rotatably arranged on one of said tubular end pieces, said rotatable coupling member being provided with indentations arranged in a design corresponding to the non-circular shape of said flanged members, and adapted to clamp together the assembled flanged members and end pieces upon rotating said coupling member to a position, in which one of said flanged members is engaged by said indentations.

2,317,730

LAMINATED SHEET MATERIAL

William C. Calvert, Gary, Ind., assignor to Marbon Corporation, Gary, Ind., a corporation of Delaware

Application August 25, 1939, Serial No. 291,869

2 Claims. (Cl. 154—50)

1. A laminated pliable sheet material adapted to be folded and made into bags for holding brine, comprising a sheet of paper coated with an elastic composition comprising a major proportion of rubber and a minor proportion of a wax,



a porous sheet of paper laminated to said elastic composition, and a heat sealing composition bonded through said porous paper to said rubber and wax composition.

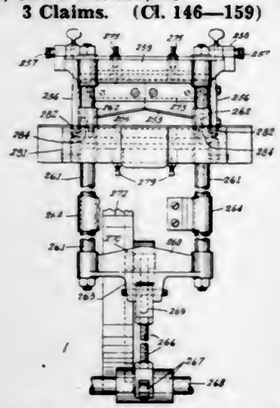
2,317,731

KNIFE UNIT

Sigurd Clausen, Brooklyn, N. Y., assignor to International Cigar Machinery Company, a corporation of New Jersey

Original application April 29, 1936, Serial No. 76,932. Divided and this application November 13, 1940, Serial No. 365,423

3 Claims. (Cl. 146—159)



1. In a cigar machine having a ledger plate, the combination with a vertically reciprocable frame, a relatively thin flat knife of a thickness such that it will shear tobacco sections from a mass of tobacco without punching out tobacco slices from the mass and is capable of distortion, said knife having downwardly extending tongues at its margins, a clamp bar fastening said knife to said frame and extending across the width thereof, and means arranged to guide the margins of said knife during the descent of said support, said means including spring pressed members for continuously pressing said tongues against the ledger plate during the ascent and descent of said support.

2,317,732

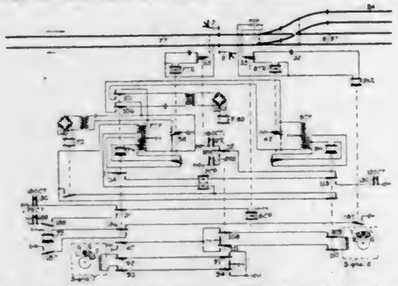
CODED TRACK CIRCUIT SIGNALING SYSTEM

Nelson B. Coley, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.

Application September 30, 1941, Serial No. 413,018

17 Claims. (Cl. 246—33)

1. In a block signaling system for a stretch of single track divided into blocks and having associated therewith two passing sidings spaced a plurality of blocks apart, each siding having a leaving signal for governing traffic toward the other siding; track circuit code communication means for the various blocks operable to communicate selected signal controls in both directions through the stretch of track between the sidings by distinctive driven and inverse codes; signal control selecting means associated with a particular one of the leaving signals effective to select a particular control for communication by track circuit code to the opposing leaving signal even though there is a train in approach to such particular leaving signal but the trackway in approach to the opposing leaving signal is unoccupied; signal control selecting means associated with said particular leaving signal effective to select another control for communication by



track circuit code to the opposing leaving signal if there is a train in approach to each of the leaving signals; and signal control means for said opposing leaving signal effective to cause such signal to indicate clear if said particular control is selected, and effective to cause such opposing signal to indicate caution if said another control is selected.

2,317,733

DYESTUFFS BECOMING GREEN WHEN CHROMED AND THEIR MANUFACTURE

Achille Conzetti and Guido Schetty, Basel, Switzerland, assignors to the firm J. R. Geigy A. G., Basel, Switzerland

No Drawing. Application May 7, 1941, Serial No. 392,388. In Switzerland June 20, 1940

7 Claims. (Cl. 260—196)

1. Process for the manufacture of dyestuffs which become green when chromed, consisting in coupling a diazotised 2-aminophenol, substituted in one of the positions 4 and 5 by a substituent containing a group imparting solubility in water selected from the group consisting of arylsulfone-radicals of the benzene series and sulfamide-radicals attached via the SO_2 group of the aliphatic series containing at most three carbon atoms and of the benzene series, with 2-aminonaphthalene-3-carboxylic acid.

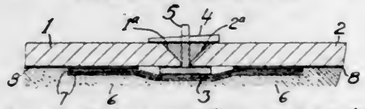
2,317,734

METHOD OF MAKING CORROSION RESISTANT BOTTOM SEAMS FOR TANKS

George B. Cook, Summit, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application August 3, 1940, Serial No. 350,413

4 Claims. (Cl. 29—148)



1. A method of constructing non-corrosive bottoms of storage tanks, which, because of their size, are constructed at the permanent site of the tank, by welding metal plates together at such site, comprising coating adjoining bottom plates with a substantially non-corrosive heat and pressure fusible plastic material to a line spaced from the plate edge portions, depositing on a cushioned support for said plates, along their line of junc-

ture, a seal of a fibrous material impregnated with a coating of a heat and pressure fusible material, and applying a metallic weld along said plate juncture with sufficient local application of heat to substantially fuse said seal to the fusible coating material on the under surfaces of said plates.

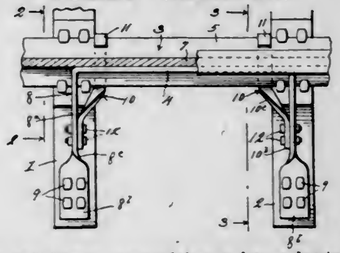
2,317,735

BRACE FOR THE RAILS OF RAILROAD TRACKS

James F. Dale, Richmond, Ind., assignor of one-half to Roy E. Riegel, Richmond, Ind.

Application July 10, 1942, Serial No. 450,453

2 Claims. (Cl. 238—336)



2. A rail brace comprising a bar adapted to be positioned in contact with the outer side of the web of the rail, arms extending outwardly from the ends of the bar and adapted to be positioned upon and secured to certain of the ties supporting the rail, stay bars extending inwardly from the arms, the stay bars being adapted to occupy a position below the base of the rail and provided at their inner ends with hooks adapted to embrace the inner flange of said base, and means securing the outer ends of the stay bars directly to the arms.

2,317,736

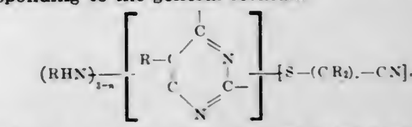
REACTION PRODUCT OF ALDEHYDES AND PYRIMIDYL CYANOALKYL SULPHIDES

Gaetano F. D'Alelio and James W. Underwood, Pittsfield, Mass., assignors to General Electric Company, a corporation of New York

No Drawing. Application May 27, 1941, Serial No. 395,424

18 Claims. (Cl. 260—42)

1. A composition of matter comprising the reaction product of ingredients comprising an aldehyde and a pyrimidyl cyanoalkyl sulphide corresponding to the general formula



where n is an integer and is at least 1 and not more than 3, x is an integer and is at least 1 and not more than 2, and R is a member of the class consisting of hydrogen and monovalent hydrocarbon and halo-hydrocarbon radicals.

2,317,737

REACTION PRODUCT OF ALDEHYDES AND PYRIMIDINE DERIVATIVES

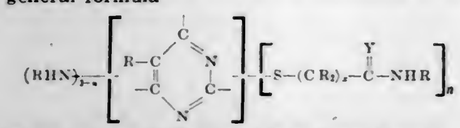
Gaetano F. D'Alelio and James W. Underwood, Pittsfield, Mass., assignors to General Electric Company, a corporation of New York

No Drawing. Application June 18, 1941, Serial No. 398,638

19 Claims. (Cl. 260—42)

1. A composition of matter comprising the re-

action product of ingredients comprising an aldehyde and an organic sulfide corresponding to the general formula



where n is an integer and is at least 1 and not more than 3, x is an integer and is at least 1 and not more than 2, R is a member of the class consisting of hydrogen nad nonvalent hydrocarbon and halo-hydrocarbon radicals, and Y is a member of the class consisting of oxygen and sulfur.

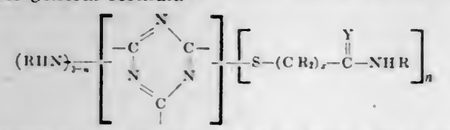
2,317,738

REACTION PRODUCT OF ALDEHYDES AND TRIAZINE DERIVATIVES

Gaetano F. D'Alelio and James W. Underwood, Pittsfield, Mass., assignors to General Electric Company, a corporation of New York

No Drawing. Application June 27, 1941, Serial No. 400,148
19 Claims. (Cl. 260—42)

1. A composition of matter comprising the reaction product of ingredients comprising an aldehyde and an organic sulfide corresponding to the general formula



where n is an integer and is at least 1 and not more than 3, x is an integer and is at least 1 and not more than 2, R is a member of the class consisting of hydrogen and monovalent hydrocarbon and halo-hydrocarbon radicals, and Y is a member of the class consisting of oxygen and sulfur.

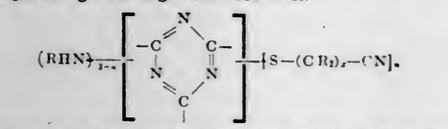
2,317,739

REACTION PRODUCT OF ALDEHYDES AND TRIAZINYL CYANOALKYL SULPHIDES

Gaetano F. D'Alelio and James W. Underwood, Pittsfield, Mass., assignors to General Electric Company, a corporation of New York

No Drawing. Application June 27, 1941, Serial No. 400,149
18 Claims. (Cl. 260—42)

1. A composition of matter comprising the reaction product of ingredients comprising an aldehyde and a triazinyl cyanoalkyl sulphide corresponding to the general formula



where n is an integer and is at least 1 and not more than 3, x is an integer and is at least 1 and not more than 2, and R is a member of the class consisting of hydrogen and monovalent hydrocarbon and halo-hydrocarbon radicals.

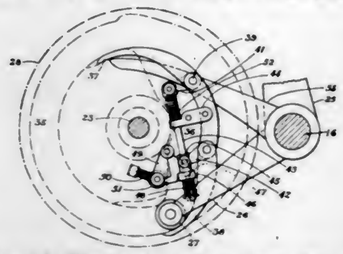
2,317,740

VARIABLE FACE CAM

Henry Devlin, Saginaw, Mich., assignor to Baker Perkins Inc., Saginaw, Mich., a corporation of New York

Application June 9, 1941, Serial No. 397,278
2 Claims. (Cl. 74—567)

1. In a face cam, a circular idler track, an eccentric track opening at its ends into said circular track, a switch point at each end of said eccentric track between it and said idler track, pivotally mounted so that a cam follower can be selectively directed during rotation of the cam to pass either through said eccentric track or said idler track, a connection between said switch points operable to close the leading switch point in response to displacement of the rearward switch point by the cam follower passing out of the eccentric track to close the leading switch point across said eccentric track, resilient means normally urging said leading switch point open



across said idler track to direct the cam follower into said eccentric track, and spring latch means arranged normally to retain said leading switch point closed across said eccentric track, and an abutment on said latch means for engagement with abutment-engaging means movable to and away from the path of travel of said latch abutment during rotation of the cam, said latch abutment operable on engagement with said abutment-engaging means to release said latch means to permit the leading switch point to close off the idler track and open the eccentric track to direct the cam follower thereinto.

2,317,741

SPRAY COMPOSITION

Clarence D. Dolman, Chelan County, Wash., assignor to Hercules Glue Company, Ltd., a corporation of California

No Drawing. Application June 28, 1940, Serial No. 343,025
2 Claims. (Cl. 167—32)

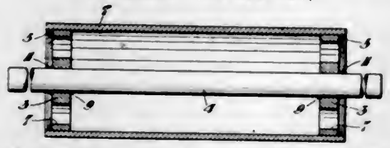
1. The method of preparing an insecticidal material comprising dissolving a mass of naphthalene and about 10% of said mass of a fatty acid in a mutual solvent therefor and then dispersing the so formed solution throughout a mass of about equal weight of a dry finely divided adsorbent carrier material.

2,317,742

CONVEYER ROLLER

Larry D. Donbeck and Robert A. Peterson, Gary, Ind.

Application December 22, 1939, Serial No. 310,617
2 Claims. (Cl. 193—37)



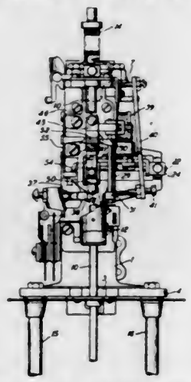
1. A conveyer roller for conveying metallic articles comprising a carburized and quenched tube of steel which, before carburizing and quenching, included approximately .08% to .35% carbon and .35% to .90% manganese and a metallic supporting element affixed to each end of said carburized and quenched tube, the resultant surface and hardness of the tube being such as to substantially increase wear resistance of the tube, and to substantially eliminate scratching and marring of the article passing thereover.

2,317,743

SWITCHING MECHANISM

Percy B. Drake, Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application September 24, 1941, Serial No. 412,053
3 Claims. (Cl. 179—27.52)



1. In a switching mechanism, a soft metal frame, an operating shaft mounted thereon, a magnet mounted in said frame, an armature controlled by said magnet, a pawl secured to said armature and operated thereby to control said shaft and a hard metal bracket mounted on said frame and having a surface against which the pawl strikes when the armature is actuated to fix the operated position of the pawl and another surface against which the armature strikes when it returns to normal to fix the normal position of the armature and having a plurality of other comparatively large surface areas contacting correspondingly large areas of the frame so that shocks caused by the repeated pounding of the pawl and armature against said respective striking surfaces are distributed over said plurality of large contacting areas of the frame and thus absorbed thereby to prevent deformation of the soft metal frame by said shocks.

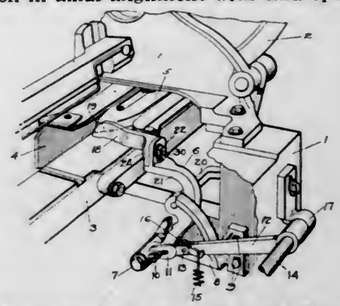
2,317,744

SHUTTLE FEELER

Robert C. Draper, Hopedale, and Vincent J. Ozella, Milford, Mass., assignors to Draper Corporation, Hopedale, Mass., a corporation of Maine

Application January 19, 1942, Serial No. 427,214
1 Claim. (Cl. 139—231)

A shuttle feeler comprising a body member formed in two parts, one of said parts being a shuttle engaging portion, said two parts having means incorporated therewith to enable said two parts to be assembled together in a unitary manner, said means comprising a flange extending from an end portion of one of said parts and disposed approximately longitudinally of said part, said part having a projection extending from the aforesaid end portion at the point of connection of said flange and said part and at right angles to said flange, said flange having an opening formed therein, the other of said parts having a flange extending from an end portion thereof and disposed at right angles to the longitudinal dimension of said part, said flange being arranged to abut adjacent faces of said first named flange and said projection, said second named flange having a slot formed therein in a position in axial alignment with said opening in



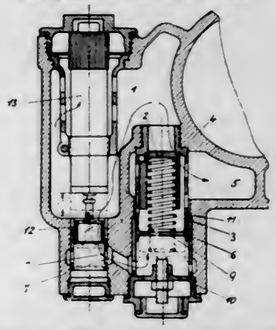
said first named flange when said flanges and said projection are placed in abutting relationship, said flanges and said projection being formed to enable one of said parts to be moved along the said abutting faces relative to the other of said parts, and means passing through said opening and said slot to secure said parts together in a unitary manner.

2,317,745

LUBRICATING DEVICE FOR AIRCRAFT ENGINES

Martin Duckstein, Munich, Obermenzing, Germany; vested in the Alien Property Custodian

Application March 2, 1940, Serial No. 321,814
In Germany March 3, 1939
7 Claims. (Cl. 123—196)



1. In a lubricating system, in combination, a first pressure chamber, a delivery conduit leading to points to be lubricated, a valve subject to the pressure within said chamber for controlling the flow of lubricant from said chamber to said conduit, spring means acting at one end upon said valve for opposing the pressure within said chamber, a second chamber, a movable abutment in said second chamber for the other end of said spring means, and means responsive to the temperature of said lubricant for controlling the flow of lubricant to said second chamber for moving said abutment.

2,317,746

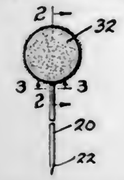
HATPIN

Jack I. Ellerstein, New York, N. Y.

Application May 15, 1942, Serial No. 443,084
6 Claims. (Cl. 132—68)

1. A hat pin, comprising a hat pin shank hav-

ing a back end and a pointed front end, and a head mounted on said back end and comprising a small piece of rigid sheet material, means for



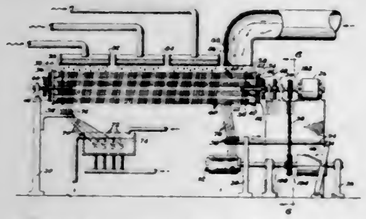
holding said rigid sheet material on the blunt end of said pin shank, a shell covering said holding means and rigid sheet material, and surface ornamentation on said shell.

2,317,747

YARN PROCESSING APPARATUS

Alvin L. Ewing, Richmond, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application August 5, 1942, Serial No. 453,693
10 Claims. (Cl. 28—71.5)



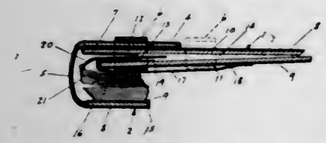
1. A yarn processing and advancing reel comprising a central reel shaft, means for rotating said reel shaft, a plurality of individual sets of parallel yarn carrying rods mounted about said central reel shaft to rotate therewith, means for successively moving the rods of each set within a given path, and rod reciprocating means for simultaneously moving, in one axial direction, all of said rods while they are in carrying contact with said yarn.

2,317,748

CHECKBOOK HOLDER

William P. Exline, Shaker Heights, Ohio, assignor to William Exline, Inc., Cleveland, Ohio, a corporation

Application February 15, 1943, Serial No. 475,954
2 Claims. (Cl. 281—19)



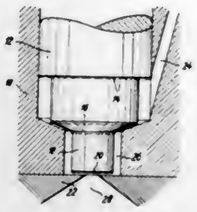
1. A checkbook holder, or the like, in combination, flexibly connected front and rear body members, a flap connected to said front body member, the rear body member being of wedge-like construction at its free end, and a loop to receive the said flap, slidable toward and from said free end whereby when the flap is moved into a position adjacent the rear body member, movement of the loop toward the free end thereof will effect wedging engagement of said flap and member.

2,317,749

FUEL INJECTION NOZZLE

Hans Fischlmayr, Grafelfing, near Munich, Germany, vested in the Alien Property Custodian

Application July 13, 1940, Serial No. 345,362
In Germany March 16, 1939
8 Claims. (Cl. 299—107.6)



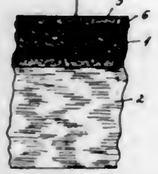
1. An injection nozzle and valve for internal combustion engines comprising a chamber having a substantially cylindrical portion and an end wall having an injection orifice extending therethrough, said orifice having an axial length of not more than half its greatest cross sectional dimension, and a valve member including a substantially cylindrical portion movable axially within said portion of said chamber and spaced from the side walls thereof to provide an annular flow passage between said portion of said valve member and said portion of said chamber, said valve member having an end surface lying closely adjacent said end wall of said chamber in overlapping relation to said orifice, said end surface of said valve member being sufficiently close to said end wall of said chamber when said valve member is in its open position so that the resistance to fluid flow toward said orifice in the space between said end surface and said end wall immediately around said orifice is at least as great as the resistance to flow outwardly through said orifice.

2,317,750

SYSTEM OF IMPROVING PHOTOGRAPHIC LAYERS

Walter Fermazin, Berlin-Grunau, Germany; vested in the Alien Property Custodian

Application November 27, 1939, Serial No. 306,272
In Germany August 11, 1939
3 Claims. (Cl. 95—88)



3. In the art of finishing photographic layers by subjecting the layers to different treating baths in succession, the steps of admixing to at least one of said treating baths a dispersed colloid, and causing coagulation of said colloid in at least one of the subsequent treating baths, thereafter heat treating the layers upon leaving said last bath to form a smooth protective layer by the solidified colloid upon and being at least partly incorporated in the final layers.

2,317,751

LUBRICATING OIL

Per K. Frolich and Anthony H. Gleason, Westfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application September 26, 1941, Serial No. 412,434
8 Claims. (Cl. 252—51)

1. An improved lubricating oil composition comprising a viscous hydrocarbon oil containing a minor proportion of a high molecular weight condensation polymer of an organic diamine and a dibasic organic acid, said polymer having a branched long chain structure of interlinked recurring units each of which contains at least 8 carbon atoms in branched side chain hydrocarbon groups, said polymer being further characterized by having a total hydrogen and carbon content above 80%.

2,317,752

MODIFIED STARCH

Arthur D. Fuller, New York, N. Y., assignor to National Starch Products Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application October 30, 1939, Serial No. 301,946
5 Claims. (Cl. 127—33)

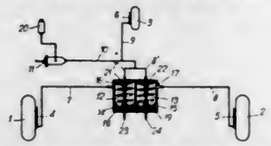
2. A modified starch consisting of starch granules characterized by resembling raw starch in superficial and microscopic appearance but differing therefrom by inherently yielding upon prolonged cooking in aqueous media a short, smooth and viscosity stable paste, said starch granules consisting of raw starch particles reacted in an aqueous suspension with a chlorine oxidizing agent in the presence of a nitrogenous body acting to modify the oxidation reaction of the chlorine oxidizing agent.

2,317,753

BRAKE CONTROL MEANS

Adalberto Garelli, Milan, Italy; vested in the Alien Property Custodian

Application November 25, 1940, Serial No. 367,118
In Italy November 27, 1939
13 Claims. (Cl. 303—6)



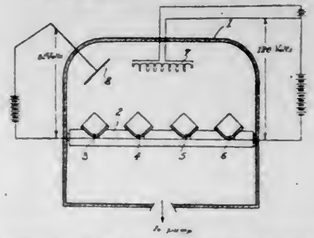
1. A fluid pressure system for general and differential actuation of brake gears in vehicles, comprising a pressure fluid operated brake gear for each vehicle wheel to be braked, a generator of pressure fluid, means for operating said generator, conduits leading from said pressure fluid generator to each of said brake gears said conduits being interconnected to form a single circuit, a chamber inserted in each of said conduits leading to one of said brake gears to be operated differentially, means ahead of each of said chambers in the respective one of said conduits for controlling the communication of each of said chambers with said respective conduit, auxiliary means for controlling the communication of each of said chambers with said respective conduit, means for varying the capacity of each of said chambers to cause the fluid therein to operate in the respective brake gear, means for actuating said controlling means to cut said communication for each of said chambers when the respective capacity varying means are operated, means for actuating said auxiliary controlling means to cut said communication for said chambers, the last named actuating means being operative under the joint action of said generator pressure fluid and of the fluid discharged from any of said chambers whose capacity varying means are operated, and means urging said auxiliary controlling means in a position to restore said communication.

2,317,754

METHOD OF PRODUCING SECONDARY ELECTRON EMITTING CATHODES

Paul Görlich, Dresden, Germany; vested in the Alien Property Custodian

Application July 31, 1941, Serial No. 404,811
In Germany July 31, 1940
6 Claims. (Cl. 250—27.5)



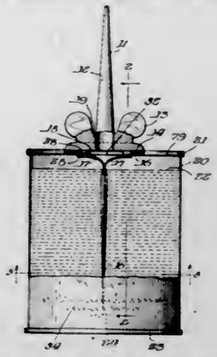
1. A method for producing secondary electron emitting electrodes comprising precipitating a thin surface layer of an alkali metal on a metal base prior to the installation of the electrodes in an electron multiplier, installing the electrodes having said thin layer thereon in said electron multiplier, and then subjecting the electrodes to a glow discharge until any oxidation of said thin layer has been reduced.

2,317,755

CAN PERFORATOR AND DISPENSER

Victor F. Gouch and George V. Gouch, Chicago, Ill.

Application March 13, 1941, Serial No. 383,198
2 Claims. (Cl. 221—23)



1. A device of the character described comprising, knob means, spout means secured to the said knob means, can slotting means secured to the said knob means, the said slotting means terminating in multiple thread helically-shaped cam locking and sealing means adapted to secure removably the said device to a can, and gasket means secured to the outer lower portion of said knob means.

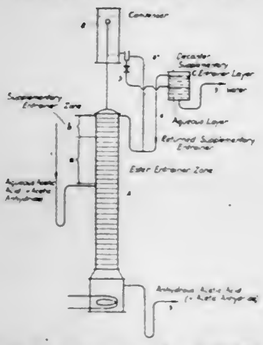
2,317,756
PROCESS FOR IMPROVING MATERIALS CONTAINING CELLULOSE
Charles Graenacher, Riehen, and Richard Sallmann, Bottmingen, Switzerland, assignors to the firm Society of Chemical Industry in Basle, Basel, Switzerland
No Drawing. Application September 28, 1940, Serial No. 358,924. In Switzerland May 5, 1938
8 Claims. (Cl. 8—116)

1. A process for improving materials containing cellulose, which comprises treating the materials with a methylolamide of a halogenated carboxylic acid, drying the thus treated materials, heating them, and further treating them with a compound containing at least one basic nitrogen atom.

2,317,757
ALKYLENE-POLYAMINES AND A PROCESS OF PREPARING THEM
Roderich Graf, Frankfort-on-the-Main-Unterliederbach, Germany; vested in the Alien Property Custodian
No Drawing. Application April 4, 1941, Serial No. 386,871. In Germany April 12, 1940
4 Claims. (Cl. 260—570.9)

1. The process of preparing alkylene polyamines, mono-alkyl-substituted in one amino group which comprises condensing a diamine selected from the group consisting of ethylene diamine, propylene diamine, tetramethylene diamine, pentamethylene diamine, and hexamethylene diamine with an aliphatic aldehyde in approximately molecular ratio and catalytically hydrogenating the condensation product at a temperature of 60–150° C. and a pressure of 20–80 atmospheres and recovering the mono-substituted diamine.

2,317,758
TREATMENT OF ACETIC ACID
Henri Martin Guinot, Niort, France; vested in the Alien Property Custodian
Application February 19, 1940, Serial No. 319,762
In France March 4, 1939
2 Claims. (Cl. 202—42)



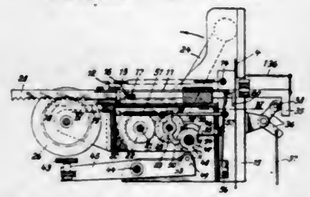
1. A continuous process for dehydrating aqueous substances selected from the group consisting of aqueous acetic acid and aqueous mixtures of acetic acid and acetic anhydride, which process comprises introducing the aqueous substance into the middle part of a distilling zone containing predetermined proportions of ethyl acetate and petroleum distillate boiling at a temperature between 84–85° C.; heating the distilling zone at an end thereof to set up a temperature gradient from said end to the opposite end, thereby producing an automatic classification of the materials in the zone and thus forming separate sections of operation for the ethyl acetate and the petroleum distillate respectively, the petroleum distillate section being adjacent to said opposite end; withdrawing vapours from said opposite end said vapours consisting of a water portion and a non-aqueous portion; separating the non-aqueous portion and returning it to the distilling zone in the petroleum distillate section; and withdrawing anhydrous acetic material from the distilling zone at a point adjacent the heated end thereof.

2,317,759
LEAD STORAGE BATTERY
Herbert Haebler, Stuttgart, Germany; vested in the Alien Property Custodian
Application January 25, 1940, Serial No. 315,613
In Germany January 7, 1939
3 Claims. (Cl. 136—64)



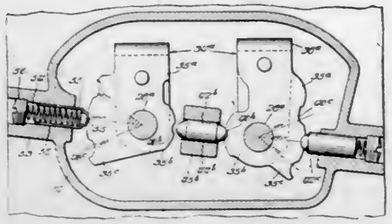
1. In a storage battery of the lead-acid type, having grids of metal selected from the group consisting of lead, and lead-alloy, filled with active mass to form storage battery grid plates, a group of grid plates each having the entire surface of its grid covered with an outer coating of tin.

2,317,760
PRINTING SCALE
Arthur Hahn, Balingen, Germany; vested in the Alien Property Custodian
Application March 6, 1939, Serial No. 260,243
In Germany March 9, 1938
4 Claims. (Cl. 265—5)



1. In a printing scale of the type wherein the value of the weight which is added after the normal weighing range is exceeded, is printed together with the other weight values which are determined by the feeler exploration of a rotatable member formed with weight value indicia corresponding to the normal weight values up to a dead angle between the zero point and the maximum load point; the provision of a printing mechanism for printing the weight of the mass being weighed, driving means for the printing mechanism, a feeler device associated with said driving means, and means providing a control area associated with the rotatable member of the weighing system and extending over the dead angle range and with which the feeler device cooperates for locking the driving means of the printing mechanism, and said feeler device being operable to release the driving means of the printing mechanism when the area on the movable part of the weighing system is out of the range of the said feeler device.

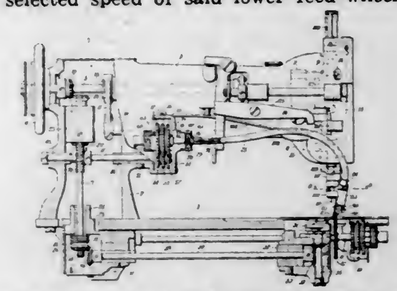
2,317,761
TRANSMISSION
Vaughn Haigh, Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application May 31, 1940, Serial No. 338,176
2 Claims. (Cl. 74—477)



1. In a transmission having a case and a plurality of torque transmitting members to be shifted, a pair of cranks for effecting the shift of said members, each of said cranks including a shaft journaled in said case and a unitary stamped sheet metal crank arm of generally U-shape including a pair of side arms and a connecting web, said side arms being mounted on said shaft at their ends opposite said web portion, a shift fork for each crank, comprising a shaft portion extending between and journaled in said side arms adjacent said web and a fork portion cooperating with a member to be shifted, one side arm of each crank arm being formed with a sector portion, said sector portions having notches in their adjacent peripheral regions and other notches in their remote peripheral regions, an interlock element mounted for sliding movement on a fixed axis which lies in the plane of the sectors and intersects the sector axes, the ends of said interlock element being adapted to engage in the adjacent peripheral notches and to permit movement of only one of the cranks at a time, yieldable poppet devices engageable in the remote peripheral notches, and adapted to yieldably position the cranks in their several selective positions.

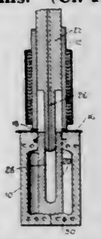
2,317,762
FEEDING MECHANISM FOR SEWING MACHINES
Arthur N. Hale, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application December 27, 1940, Serial No. 371,866
16 Claims. (Cl. 112—214)

1. In a sewing machine, in combination, a lower work-advancing feed-wheel, means for rotating said lower feed-wheel including a change-speed gear unit comprising nested gears constantly intermeshing and means for selectively establishing driving relationship between said gears, an upper work-advancing feed-wheel, and means for rotating said upper feed-wheel including devices operable for regulating the speed of rotation of said upper feed-wheel relative to the selected speed of said lower feed-wheel to



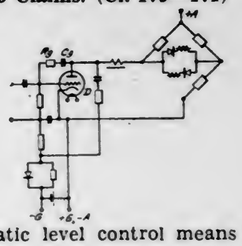
effect an equal or a differential feeding action of the two cooperating feed-wheels.

2,317,763
METHOD OF MAKING HOLLOW MOLDED OBJECTS FROM ORGANIC PLASTIC MATERIAL
Frances Cushing Hall, Mamaroneck, N. Y.
Application October 7, 1938, Serial No. 233,707
4 Claims. (Cl. 18—55)



1. The method of forming hollow articles from organic plastic materials, which comprises placing within suitable heating means a charge of molding powder in the solid state equivalent to the volume of the walls of the article to be formed; heating said material to a state of plasticity wherein the material is capable of being molded, but is self-supporting; placing said material as a self-supporting mass wholly within a mold which is at a temperature lower than the temperature of the heated material; introducing a blowing tube centrally into said mass to substantially the full depth thereof; and subjecting said mass to the action of fluid under pressure discharged through said tube to expand the mass into the shape of the mold cavity.

2,317,764
CARRIER FREQUENCY AMPLIFIER
Heinz Hannemann and Ewald Oberländer, Berlin, Germany; vested in the Alien Property Custodian
Application December 13, 1940, Serial No. 370,048
In Germany December 12, 1939
5 Claims. (Cl. 179—171)



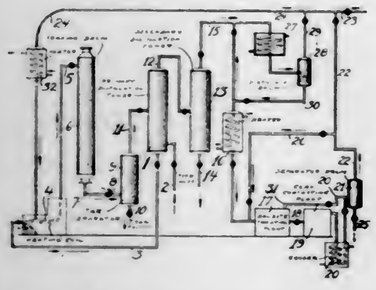
1. Automatic level control means for carrier

frequency amplifiers, comprising a direct current bridge connection including four resistances at least one thereof being variable when affected by carrier frequency, means affected by carrier frequency to alter the variation of said one resistance, and direction-responsive direct current relays connecting the center points of said bridge.

2,317,765
FUNGICIDAL COMPOSITION
William F. Hester, Drexel Hill, Pa., assignor to Röhm & Haas Company, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application August 20, 1941, Serial No. 407,674
5 Claims. (Cl. 167—22)

1. A fungicidal composition having as an active ingredient a salt of an alkylene bisdithiocarbamic acid.

2,317,766
REFINING PETROLEUM OILS
Amiot P. Hewlett, Summit, and Gerald E. Phillips, Cranford, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
Application January 3, 1940. Serial No. 312,198
11 Claims. (Cl. 196—96)

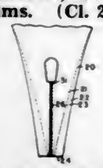


1. Process for the production of motor fuels having high anti-knocking characteristics comprising contacting petroleum feed oils characterized by having an acid heat above about 150 and a clear octane number below about 70 with bauxite at a temperature in the range from about 800° F. to 850° F.

2,317,767
CELLULOSE FATTY ACID ESTERS
Rudolf Hofmann and Wilhelm Röhm, Leverkusen-I. G. Werk, Germany; vested in the Alien Property Custodian
No Drawing. Application April 26, 1939, Serial No. 270,161. In Germany May 12, 1938
3 Claims. (Cl. 260—227)

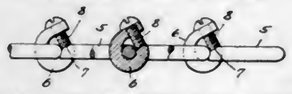
1. In the production of fibrous fatty acid esters of cellulose from cellulose which has been pretreated with a lower fatty acid, the modification which comprises reacting the cellulose with an esterifying mixture consisting of a lower fatty acid anhydride, an organic diluent which is a non-solvent for the cellulose ester formed, and an amount of sulfuric acid up to 1% based on the weight of the cellulose as a catalyst at a temperature between 30 and 70° C., the esterification being carried out until the cellulose ester formed dissolves in a mixture of methylene chloride-methylene alcohol (9:1).

2,317,768
CONSTRICTING MEANS FOR TUBULAR GARMENTS
James F. Holland, Toledo, and John W. Kinney, Jr., Cincinnati, Ohio
Application November 30, 1939, Serial No. 306,912
2 Claims. (Cl. 2—227)



1. In a garment, a contractable tubular portion for covering an extremity of the human body, said tubular portion in its normal uncontracted form having a full tubular and substantially uniformly wide free end, two lines of fold formed in the tubular portion, each consisting of reverse folds in the material of the garment spaced along the major portion of their length but convergent throughout at least a portion of the length of the tubular portion, with the point of convergency located at a distance from the tubular free end, a pair of slide fastener tapes carrying cooperative hooks and a slide to engage and disengage the hooks, for contracting the tubular portion to snugly embrace the human extremity, means fixing the tapes between adjacent laps of the reverse folds, leaving intact the continuity of the garment material at both sides of each line of fold, with an area of continuous material spanning said fold lines and fastener tapes.

2,317,769
CHAIN CONSTRUCTION
Samuel A. Holmes, Storm Lake, Iowa
Application November 9, 1942, Serial No. 465,068
4 Claims. (Cl. 74—249)

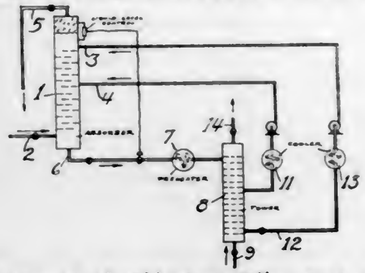


1. A chain embodying links, each link comprising connected side and end bars, an extension formed integral with one of the end bars and being extended upwardly and rearwardly over the end bar with which it is connected, in spaced relation therewith, the extension of one link adapted to fit between the side bars of the adjacent link in contact with the side bars, and a threaded member adapted to extend through the extension and engage the end bar with which it is connected, closing the space between the extension and the end bar.

2,317,770
REFINING MINERAL OILS
Frederic A. L. Holloway and Durward O. Wilkes, Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware
Application July 12, 1941, Serial No. 402,188
4 Claims. (Cl. 196—32)

1. Process for the removal of mercaptan compounds from petroleum oils, utilizing an alkaline solution, which comprises introducing the feed oil into one end of an absorption zone, introducing a substantially sulfur-free solvent into the other end of said absorption zone, introducing a partially regenerated solvent into an intermediate point of said absorption zone, countercurrently contacting the feed oil with said solvent,

removing a treated oil from the treating zone, removing a spent solvent from the other end of said treating zone, and regenerating the same in a regeneration zone in a manner to remove a portion of the regenerated steam from an inter-



mediate part of said regeneration zone, which stream is recycled to said intermediate point of said absorption zone, and removing from said regeneration zone a substantially sulfur-free solvent which is recycled to said absorption zone as defined.

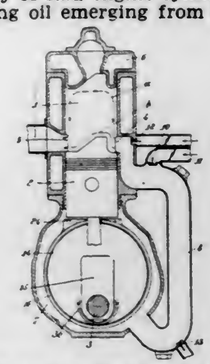
2,317,771
SPOOL THREAD ASSEMBLY
Charlotte Huber, New York, N. Y.
Application December 5, 1940, Serial No. 368,636
3 Claims. (Cl. 242—135)



2. A unit assembly comprising a plurality of spools of thread, bridging members connecting the spools at opposite ends thereof, and fasteners formed of strip material extending through the spools and through openings of the bridging members, the said fasteners having their ends bent over to secure the spools free to rotate between said members, said spools being separately removable without disturbing the assembly by straightening one of the bent over ends of the fastener of the spool to be removed and withdrawing the fastener to free the spool.

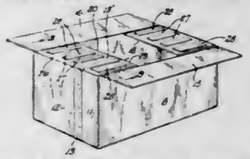
2,317,772
INTERNAL COMBUSTION ENGINE WITH SCAVENGING PUMP
Fritz Huber, Mannheim, and Anton Lentz, Heidelberg, Germany; vested in the Alien Property Custodian
Application May 16, 1941, Serial No. 393,720
In Germany February 10, 1940
13 Claims. (Cl. 123—73)

10. A two cycle internal combustion engine including, in combination, a crank chamber, a scavenging pump of the crank chamber type, an engine cylinder, admission ports in said cylinder, a conduit connecting said pump and said ports, a fresh air inlet means disposed in said conduit in the vicinity of said ports, a fuel-air mixture admission means disposed in said conduit and spaced from said fresh air inlet means, crank discs, individual sealing means disposed within said crank chamber adjacent to and extending around said crank discs for catching the lubricating oil thrown off therefrom, said sealing means comprising oil catching means disposed in the vicinity of said engine cylinder for catching lubricating oil emerging from said cylinder,



and an oil catching groove in said crank chamber and connected for oil flow with said oil catching means.

2,317,773
CONTAINER SEALING
Joseph P. Kavanaugh, Seattle, Wash., assignor to Kieckhefer Container Company of Delair, New Jersey, a corporation of Delaware
Application February 26, 1942, Serial No. 432,429
10 Claims. (Cl. 229—45)

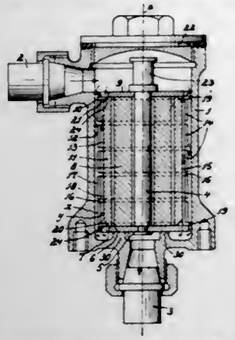


1. In a container formed of paperboard or the like, a flap portion adapted to be adhesively secured to another container portion when the container is sealed, one of said portions having areas which are relatively raised and depressed in the surface to be juxtaposed to the other portion, whereby adhesive union with the depressed areas will be prevented or retarded and whereby good adhesive union can be effected only with the raised areas, said raised areas being of the normal thickness of the paperboard, and said depressed areas being less than said normal thickness, and said raised areas being of sufficient size and so located as to support a juxtaposed container portion out of contact with all of the depressed areas.

2,317,774
MAGNETIC FILTER
Maurits Kiek and Johan Aninga, Eindhoven, Netherlands, assignors, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application March 14, 1939, Serial No. 261,824
In Germany April 1, 1938
6 Claims. (Cl. 209—215)

4. A magnetic filter for removing magnetizable particles from a fluid, comprising a housing provided with an inlet opening and an outlet opening for the fluid, means forming between said openings two passageways for the fluid each having a long narrow transverse cross-section, said means comprising a hollow body including a plurality of members of magnetizable material whose outer surfaces form one side of one of said passageways, said members being spaced apart to

form a plurality of air gaps which extend around the periphery of said passageways, are accessible for the fluid and lie outside the passageways, and a body within the hollow of said body and



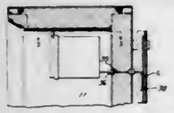
forming the second passageway with the inner surfaces of said members, and means for producing in said air gaps magnetic fields which extend throughout the width of the passageways.

2,317,775

REFRIGERATION APPARATUS

Robert A. King, Erie, Pa., assignor to General Electric Company, a corporation of New York

Application August 23, 1941, Serial No. 408,007
10 Claims. (Cl. 62—89)



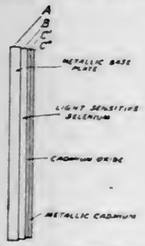
1. In a refrigerator cabinet having a refrigerated compartment and a food storage receptacle within said compartment, means including a hermetically sealed container partially filled with a vaporizable liquid for transferring heat from a suitable source thereof to the interior of said receptacle.

2,317,776

PHOTOELECTRIC CELL

Emil Körber, Nuremberg, Germany; vested in the Alien Property Custodian

Appliation October 24, 1939, Serial No. 300,993
In Germany October 24, 1938
2 Claims. (Cl. 136—89)



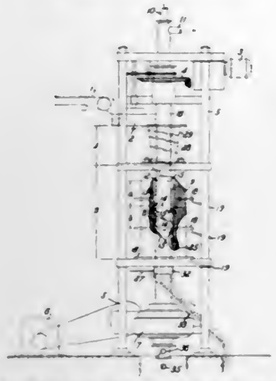
2. The method of manufacturing photo-electric cells having a blocking layer which comprises coating a conductive base plate with a light sensitive layer of selenium, applying on said selenium layer a thin layer of cadmium oxide and reducing the surface of said cadmium oxide layer by subjecting it to the action of nascent hydrogen.

2,317,777

APPARATUS FOR THE SEPARATION OF ICE AND CONCENTRATE

Georg Alexander Krause, Hollriegelskreuth, near Munich, Germany; vested in the Alien Property Custodian

Original application December 27, 1938, Serial No. 248,014. Divided and this application April 14, 1941, Serial No. 388,526. In Germany December 27, 1937
6 Claims. (Cl. 62—124)



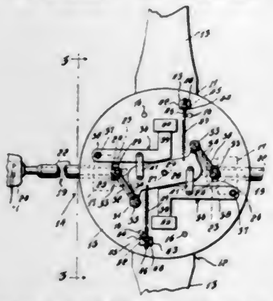
1. Apparatus for the separation of ice and concentrate from a mixture thereof comprising a receptacle, means for applying pressure to the mixture in said receptacle adapted to apply different pressures to the mixture in different portions of the receptacle, said receptacle being provided with openings for the expulsion of liquid, the openings in the region of highest pressure having a width not exceeding 0.2 mm.

2,317,778

GOVERNOR ATTACHMENT FOR IMPELLERS

Theadore M. Kuehn, Nara Visa, N. Mex.

Application May 8, 1941, Serial No. 392,549
3 Claims. (Cl. 170—68)



1. A governor attachment for wind impellers comprising a supporting member adapted to be attached to the center of a wind impeller, bearings attached to the rear side of said supporting member, governor blades having shanks journaled in said bearings, said blades projecting outwardly in opposite directions relatively to one another, arms secured to and projecting from the shanks of said governor blades, a lever pivotally connected intermediate of its ends to said supporting member, links connecting the ends of said lever to the free ends of said arms, centrifugal governor members pivotally connected to the supporting member and mounted to swing outwardly relatively to one another, and links pivotally connecting said governor members, intermediate of their ends, to the ends of said lever to change the pitch of the impeller blades when the governor members are actuated by centrifugal force.

2,317,779

MANUFACTURE OF PERMEABLE MATERIALS SUITABLE FOR USE AS SAUSAGE CASINGS

Owschia Lazar Janser, London, England, assignor to Mark Brainos, London, England

No Drawing. Application December 18, 1939, Serial No. 309,918
4 Claims. (Cl. 117—60)

4. A process of producing a translucent membrane-like material, permeable to water, solutes and gases, tending to swell in water, while retaining its tensile strength and adapted to be used for making substitute sausage casings, which process consists in thoroughly impregnating a strong and water resisting paper with an aqueous solution of sulfonated organic compounds, dipping the paper while still wet with said solution into an aqueous solution of proteids to which a small proportion of rubber latex and a vulcanizing and accelerating agent has been admixed and subjecting thereafter the material to vulcanising and hardening treatments.

2,317,780

WELDER'S ELECTRODE HOLDER

Clifford Laskey, Albany, Calif.

Application June 1, 1942, Serial No. 445,291
5 Claims. (Cl. 219—8)



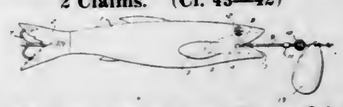
1. A welder's electrode holder comprising, a tubular electrical conductor, a pair of complemental slots extending longitudinally of the tube from one of its ends, an insulating cover for the tubular member, an electrode receiving opening in the cover in registry with one of the slots in the tubular member, said cover also having a pair of complemental slots spaced apart from one of its ends in registry with a portion of the slots in the tubular member, an electrode engaging member slidably received in the tubular member, a spring seated in the tubular member normally urging the electrode engaging member past the electrode receiving opening in said cover, a sleeve of insulating material slidably encasing a portion of said cover and having a non-conducting coupling through the slots in said cover and the tubular member with the slidable electrode engaging member.

2,317,781

FISH LURE

Vaino Lehto, Sudbury, Ontario, Canada

Application February 11, 1942, Serial No. 430,400
2 Claims. (Cl. 43—42)



1. A fish lure closely simulating a fish in appearance and comprising a body having a substantially accurately fashioned fishlike shape and including a head having an open mouth, a pair of laterally positioned fins and a tail, said tail and fins consisting of thin flexible material, said body having one only set of hooks secured thereto, said hooks being secured to the rearward end of the body and lying on one side of said tail in opposed relation thereto, said tail being substantially at least as wide and as long as the overall width and length, respectively, of said set of hooks whereby the latter may be screened from view by the tail.

2,317,782

SYSTEM AND METHOD OF TREATING SEWAGE OR OTHER WASTE MATERIALS

Max Levine, Ames, Iowa, assignor to Iowa State College Research Foundation, Ames, Iowa, a corporation of Iowa

Application February 6, 1940, Serial No. 317,570
20 Claims. (Cl. 210—7)



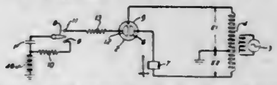
1. The method of conditioning a trickling filter having a filter bed formed of a coarse-grained aggregate, by removal of excess biological film deposited thereon during operation of said filter in order that it may continue to perform its intended biological and mechanical functions, which comprises the steps of cutting off from said filter the flow of material to be filtered, feeding a washing fluid backwardly through said filter at such a rate and in sufficient quantity to continuously overflow the filter bed at the top thereof, continuously applying air uniformly throughout said filter bed simultaneously and continuously with the feed of the washing liquid thereto and under a pressure sufficient to remove the excess biological film without disturbing the filtering aggregate, and continuously withdrawing the overflowing liquid, and matter suspended therein, from the top of the filter bed throughout the washing operation.

2,317,783

TIMING ARRANGEMENT

Benjamin F. Lewis, Bayside, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

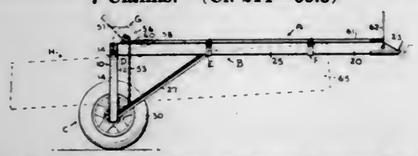
Application May 14, 1941, Serial No. 393,389
4 Claims. (Cl. 250—27)



1. A timing device comprising a gas-filled tube having an anode, a cathode and a control anode, a source of alternating voltage, means to con-

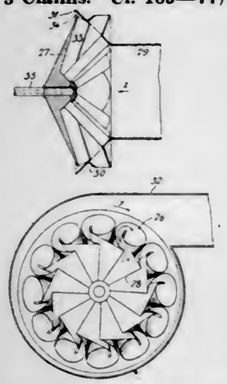
nect said source with said tube so that the potentials simultaneously applied to said anode and said cathode vary reversely, a condenser connected in series with said control anode cathode path, responsive means connected in series with said cathode anode path, means to apply increments of charge to said condenser during half cycles when said cathode is positive, said responsive means operating during a half cycle when said anode is positive in response to a charge on said condenser sufficient to render the anode-cathode path conducting.

2,317,784
TIMBER CART
Herbert I. Lewis, Wrens, Ga.
Application October 20, 1941, Serial No. 415,795
7 Claims. (Cl. 214—65.3)



1. In a timber hauler, a chassis, means for engaging the upper face of an end portion of a timber being hoisted to, transported by and lowered from said hauler, including an abutment for said upper face, rigid with said chassis, disposed well forwardly thereof, and combined hoisting and lowering means for said timber disposed well rearwardly of said first means and carried by said chassis, the length of said chassis being such that when said upper face of said end portion of said timber is engaged by said abutment and said hoist is raised, said timber will be wholly free of the surface over which said hauler travels.

2,317,785
SEPARATOR
Tor Bjørn Loftheim, Oslo, Norway; vested in the Alien Property Custodian
Application January 3, 1939, Serial No. 249,074
In Norway May 29, 1937
3 Claims. Cl. 183—77)

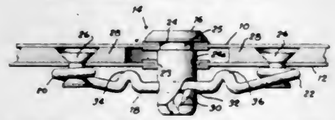


2. A separator, comprising a rotatable shaft, a body supported upon said shaft and having one concave side face directed axially of the shaft, said body at its center having a hub, a plurality of conical bodies disposed against the concave face of the first body with the narrower ends joined to said hub and extending outwardly along said concave face, each of said conical bodies being formed of a sheet of spirally shaped material whereby each conical body has a longitudinal opening having spaced inner and outer edges, the outer edge of each conical body being joined with the inner edge of the adjacent conical body and the said outer edges of the conical bodies being directed in the direction of rotation of the shaft, means for conducting dust carrying air toward said last-mentioned edges along a path substantially coaxial with the shaft, and a housing enclosing the outer ends of the conical bodies and having radially directed outlets.

2,317,786
PLATES AND BODIES TO BE APPLIED ON IRON TOOLS AND MACHINE MEMBERS
Heinrich Friedrich August Lübbe, deceased, late of Berlin, Germany, by Ottilie Lübbe, administratrix, Berlin, Germany; and Erich Kruppa, Berlin, Germany; vested in the Alien Property Custodian
No Drawing. Application February 7, 1941, Serial No. 377,846. In Germany February 11, 1939
3 Claims. (Cl. 75—136)

1. Plates and bodies for application to iron tools and machine members, said plates and bodies consisting of an outer metallic layer of cemented carbides, an inner layer of a metal having a coefficient of expansion approximating that of the tools and machine members, and an intermediate layer operating to permanently unite the inner and outer layers and comprising mixed crystals of the metals of the outer and inner layers resulting from the direct surface-diffusion or -alloying of the metals of the inner and outer layers.

2,317,787
FASTENER
Edward L. Mack, New York, N. Y.
Application April 18, 1942, Serial No. 439,465
9 Claims. (Cl. 24—221)



1. A fastener for detachably fastening two parts together comprising a slotted spiral tracked stud member rotatably mounted on one of such parts and a resiliently mounted cross-bar disposed across an opening in the second of said parts and transverse to said stud member and adapted to cooperate with said stud member to unite the two parts in close proximity under spring tension and travel limit means connected to said cross-bar adapted to limit its travel longitudinally in respect to said stud member.

2,317,788
CALENDAR
Lester B. Martin, Columbus, Ohio
Application October 6, 1942, Serial No. 461,004
2 Claims. (Cl. 40—119)

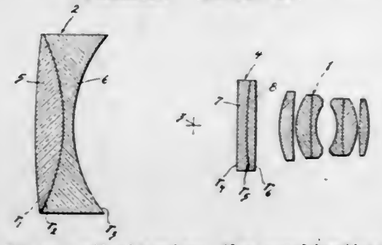
2. In combination in a calendar, a back provided with a lateral opening therethrough for the passage of used calendar sheets, a flexible tongue, said tongue being formed integrally with and from the material of said back by spaced kerfs coincident with the longitudinal edges of said tongue, cut completely through the material of said back and extending from the lower edge of said lateral opening to the lower end of the tongue; said tongue extending from the upper edge of said opening downwardly across and flexibly bridging said opening and continuing longitudinally through said back a distance approximately equal to that of a calendar adapted to be mounted on said back, said tongue merging integrally with said back at both ends; and a calendar pad secured to said back adjacent said opening and in position to have its leaves passed through said opening and between said tongue and back when they have been used and reversed, the yield of the tongue permitting such operation and the resiliency of the tongue acting to hold the sheets between it and the back.



2,317,789
FACSIMILE RECEPTION MEDIUM
Robert H. Marriott, Brooklyn, N. Y., assignor to Finch Telecommunications, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application February 9, 1940, Serial No. 318,203
6 Claims. (Cl. 117—152)

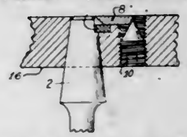
1. A reproduction paper comprising a backing and a heat sensitive coating, which under the influence of heat forms bubbles, positioned thereon.

2,317,790
OPTICAL SYSTEM
Lewis L. Mellor, Evanston, Ill., assignor to The Bell & Howell Company, Chicago, Ill., a corporation of Illinois
Application March 1, 1941, Serial No. 381,345
7 Claims. (Cl. 88—57)



1. In an optical system, the combination with a positive objective, of a negative lens combination spaced from the objective and comprising a negative lens of relatively strong power and consisting of different positive and negative elements and having one surface convex and directed away from the objective and having another surface thereof concave and directed toward the objective, the radius of the convex surface being greater than three and one-half times the radius of the concave surface, and a second negative lens of relatively weak power and disposed between and spaced from said first mentioned negative lens and the objective, the power of said first mentioned negative lens exceeding that of said second negative lens in the order of at least fifteen to one, said second negative lens being corrected for chromatic difference of focus and of magnification of at least said negative lens combination.

2,317,791
PUNCH AND DIE
George Henry Miller, Dearborn, Mich.
Application April 4, 1942, Serial No. 437,667
1 Claim. (Cl. 164—124)



In combination, a punch tool having a tapered shank with the small end disposed remotely from the tool, a retainer plate having a tapered aperture suitable for snugly receiving the tapered tool shank for supporting the tool in extended relation from the retainer plate, a backing plate on the side of the retainer plate remote from the tool, a wedge ejector having tapered surfaces on both opposite ends, a guide recess slidably supporting said wedge ejector with one tapered end adjacent the small end of the tapered tool shank for wedging between the tool shank and the backing plate to eject the tool, an actuator aperture extending from the guide recess through the retainer plate, said actuator aperture having internal threads, and an actuator screw in said aperture having a conical inner end for engaging the other tapered end of the wedge ejector to force it into wedging engagement with the end of the tool shank.

2,317,792
PROCESS FOR TREATING TOBACCO
Johannes Moser, Berlin-Tegel, Germany; vested in the Alien Property Custodian
No Drawing. Application August 26, 1939, Serial No. 292,138. In Germany April 25, 1939
17 Claims. (Cl. 131—142)

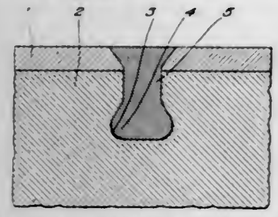
1. Process of treating tobacco in which the tobacco, as received from the grower, is stored for three days in a substantially pure oxygen, then fermented by inoculating it with suitable cultured microorganisms, removing all air from the tobacco and conducting the fermentation in an oxygen-free environment at a non-increased temperature.

2,317,793
METHOD FOR THE PRODUCTION OF STEEL
Peer D. Nielsen, Lorain, Ohio, assignor to National Tube Company, a corporation of New Jersey
No Drawing. Application January 15, 1942, Serial No. 426,929
5 Claims. (Cl. 75—56)

1. The method of using blown metal, pig iron, and ore in the manufacture of steel in a stationary open hearth furnace, comprising initially charging the furnace with pig iron and ore in an amount equal to the capacity of the furnace less the amount of blown metal it is desired to use,

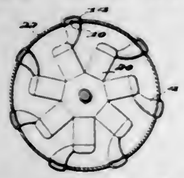
removing the slag resulting from the pig iron and ore reaction after the reaction has subsided, and then adding sufficient blown metal to fill the furnace.

2,317,794
RIVET CONNECTION
Martin Neubert, Friedrichshafen-Manzell-on-the-Bodensee, Germany; vested in the Alien Property Custodian
Application July 29, 1939, Serial No. 287,186
In Germany September 23, 1938
4 Claims. (Cl. 78—54)



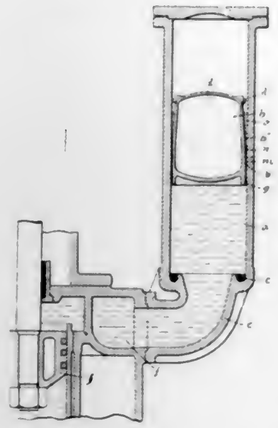
1. A rivet connection for riveting relatively thin material to relatively thick material, said connection comprising a perforated portion in said relatively thin material, said relatively thick material abutting said perforated portion and having a substantially flat bottomed cavity comprising a relatively narrow cylindrical throat portion continuing into a substantially conically widened out inner portion, said inner portion being narrowed adjacent to the bottom of said cavity, and a solid, substantially flat bottomed and cylindrical rivet extending through said perforated portion and closely fitting in said throat portion and abutting against the bottom of said cavity and, when driven, expanding into an enlarged end portion closely fitting into and conforming with said widened out and narrowed portion of said cavity.

2,317,795
REACTION NOZZLE
Franz Neugebauer, Allach, near Munich, Anselm Franz, Dessau-Ziebigk, and Siegfried Decher and Kurt Meissner, Dessau, Germany; vested in the Alien Property Custodian
Original application February 23, 1939, Serial No. 258,082, now Patent No. 2,297,239, dated September 29, 1942. Divided and this application March 29, 1940, Serial No. 326,810. In Germany February 25, 1938
1 Claim. (Cl. 60—35.6)



A recoil action producing exhaust nozzle for an internal combustion engine surrounded by a cowling comprising a thin seamless tubular member substantially cylindrical in cross section at its inner end and having the walls thereof curved and gradually flaring to form a widened, flattened arcuate orifice, the longitudinal edges of the edges of said orifice being disposed in planes substantially parallel to the plane of said cowling, and the end edges of said orifice intersecting the plane of said cowling.

2,317,796
BLAST TANK FOR LIQUID PUMPS
Walter Nielebock, Babelsberg-Potsdam, Germany; vested in the Alien Property Custodian
Application February 12, 1941, Serial No. 378,621
In Germany December 27, 1939
6 Claims. (Cl. 138—31)

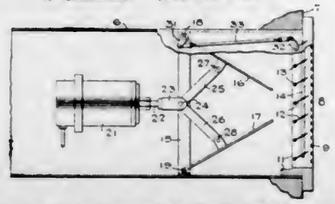


6. In a blast tank for a liquid pump, a substantially cylindrical compressed-air vessel having free communication with the pressure pipe of the pump, an annular valve seat formed on the bottom of said vessel, and a substantially cylindrical hollow closed float disposed within said vessel and adapted to project slightly above the liquid level to prevent splashing of liquid into the air space, said float having a lower cylindrical portion whose outer diameter nearly equals the inner diameter of said air vessel, an upper portion of smaller diameter, and a cylindrical projection extending downwardly from said lower portion of the float and having the same diameter as said lower float portion, said cylindrical projection being adapted for co-operation with said valve seat to shut off the communication between the air vessel and the pressure pipe of the pump when the float reaches its lowermost position, said lower float portion and its downwards extending cylindrical projection being roughened at their surfaces.

2,317,797
METHOD OF TREATING TALL OIL AND PRODUCT OBTAINED THEREBY
Anthony F. Oliver and Robert C. Palmer, Pensacola, Fla., assignors to Newport Industries, Inc., Pensacola, Fla., a corporation of Delaware
No Drawing. Application April 5, 1940, Serial No. 328,030
4 Claims. (Cl. 260—97.5)

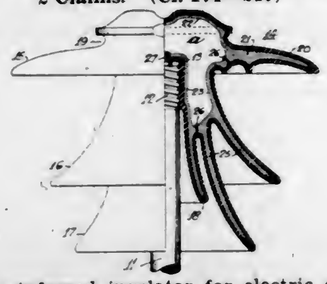
1. In a method of preparing tall oil for hydrogenation, the preliminary step of desulfurizing said tall oil including filtering a solution of said tall oil through an adsorbent medium, heat treating the filtered tall oil for from 8 hours to 10 minutes at a temperature between 260° and 325° C., treating said heat treated tall oil with a compound of a heavy metal at a temperature above 150° C. to precipitate out sulfur compounds of said heavy metal, and removing the precipitated sulfur compounds from the oil.

2,317,798
DAMPER
Carl A. Otto, Milwaukee, Wis., assignor to Johnson Service Company, Milwaukee, Wis., a corporation of Wisconsin
Application September 19, 1941, Serial No. 411,596
2 Claims. (Cl. 98—40)



1. The combination of a duct having an open discharge end for delivering into a room; a plurality of angularly adjustable louvers mounted in said end for directing the discharging air, connecting means for ensuring angular motion of said louvers in unison, whereby they may be set to deflect the discharging air laterally in adjustable degree; adjustable nozzle forming damper means mounted in said duct in advance of said louvers, said damper means being of a type which substantially maintains velocity and direction of air discharge when adjusted to reduce the rate of air discharge; and actuating means connected to adjust said louvers and damper means progressively in unison in such relation that as the damper means are set for reduced discharge the louvers are set for increased deflection in one direction.

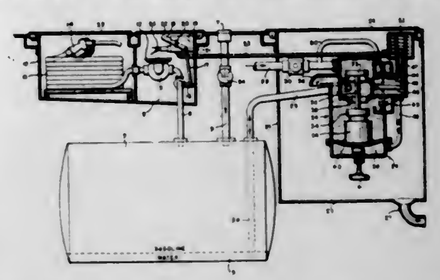
2,317,799
LINE INSULATOR
Maurice Pereles, Ossining Township, Westchester County, N. Y., assignor to Mycalex Corporation of America, New York, N. Y., a corporation of New York
Application April 14, 1941, Serial No. 388,395
2 Claims. (Cl. 174—210)



1. A reinforced insulator for electric conductors comprising an integral metallic shell enclosing a space in the centre of the insulator, a hollow stem for securing the insulator to its support, a removable plug connecting the hollow stem with the space, said metallic shell being enclosed in an insulator plastic.

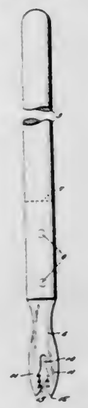
2,317,800
HYDRAULIC STORAGE AND DISPENSING SYSTEM
William J. Peter, New York, and Albert C. Kaestner, Crestwood, N. Y., assignors to Aqua Systems Incorporated, New York, N. Y., a corporation of New York
Application April 2, 1940, Serial No. 327,388
11 Claims. (Cl. 221—67)

1. A valve for water control, comprising a housing having a pipe connection, a master-valve chamber in the housing also having a pipe connection but located below the first pipe connection, an inlet valve head arranged to normally close the first pipe connection, an outlet valve head arranged to normally open the second pipe connection; whereby water flow is permitted in one direction only through the first pipe connection namely into the valve housing, but in both directions in the second pipe connection; a drain



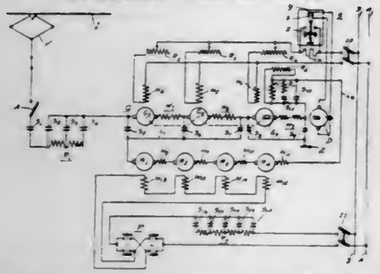
port opening outwardly from the valve housing above the second pipe connection, diaphragm-and-weight means associated with the inlet and outlet valve heads to shift the positions of the latter, a relay-valve chamber in the housing and a water passage therefrom to a diaphragm chamber formed in the housing below the diaphragm-and-weight means, and valve means in the relay-valve chamber for controlling the flow of water through the passage.

2,317,801
GARDEN TOOL
Howard S. Power, Pittsburgh, Pa.
Application July 29, 1941, Serial No. 404,567
1 Claim. (Cl. 294—50.6)



A garden tool of the character described comprising a handle and a blade secured to the handle at one end thereof, said blade embodying a pair of integral, coextensive and laterally spaced prongs each of which is tapered longitudinally to a point at its free end, and the confronting edges of said prongs defining therebetween a relatively narrow slot, and with the edges of said prongs thus defining the slot being provided with saw teeth, said saw teeth terminating short of the inner end of the slot and adapted to accommodate weeds engaged by the teeth.

2,317,802
LOCOMOTIVE FOR HIGH-VOLTAGE DIRECT CURRENT
Franklin Punga, Darmstadt, Germany; vested in the Alien Property Custodian
Application November 22, 1940, Serial No. 366,538
In Germany November 24, 1939
13 Claims. (Cl. 172—179)



1. An electrical equipment for direct-current locomotives comprising a plurality of driving motors coupled with the vehicle axles, a control set connected through the trolley to the trolley line and consisting of a plurality of mechanically coupled series-connected direct-current machines whose voltages are capable of being individually regulated, in combination therewith, of switch means adapted to connect said motors step by step to one or more of the machines of the control set and means to regulate the voltage distribution of said machines to thereby control the voltage supplied to the motors without interrupting the supply current to said motors.

2,317,803
CATALYTIC PROCESS
Edward D. Reeves, Cranford, and Kenneth K. Kearby, Elizabeth, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application December 30, 1939, Serial No. 311,936
8 Claims. (Cl. 196—52)

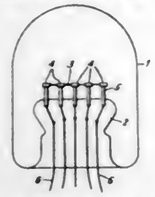
1. A method of cracking hydrocarbon oil which comprises passing hydrocarbon oil vapor at a cracking temperature through a reaction zone in contact with a catalyst comprising an alkali-free catalyst mass obtained by adding a coagulating agent to an alkali-free mixture of an alkyl silicate and a sol of alumina to form a mixed gel of silica and alumina and drying the gel.

2,317,804
N-VINYL LACTAMS
Walter Reppe, Hans Krzikalla, Otto Dornheim, and Rudolf Sauerbier, Ludwigshafen-on-the-Rhine, Germany; vested in the Alien Property Custodian
No Drawing. Application May 28, 1940, Serial No. 337,660. In Germany December 31, 1938
4 Claims. (Cl. 260—313)

1. N-vinyl compounds of lactames.

2,317,805
CURRENT REGULATING RESISTANCE
Kurt Richter, Berlin, Germany; vested in the Alien Property Custodian
Application November 2, 1940, Serial No. 364,047
In Germany September 8, 1939
3 Claims. (Cl. 201—63)

1. In a resistance device adapted to automatically control the intensity of current flowing therethrough so as to stabilize the current to a substantially fixed value, an iron wire supported within an exhausted envelope, a plurality of heat



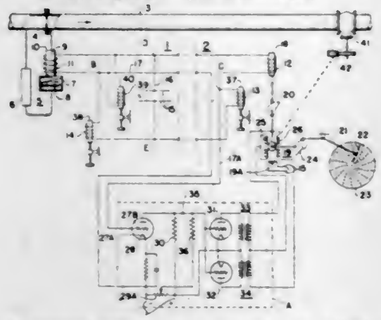
dissipating means mounted on said wire at spaced intervals between its ends, a support provided for at least one of the heat dissipating means, and a lead-in conductor connected to each support.

2,317,806
TIE PULLER
Peter Ruggeri, Odell, Ill.
Application April 9, 1940, Serial No. 328,711
12 Claims. (Cl. 254—43)



1. A tie puller of the class described, comprising a bar formed of a plurality of metal sections and a connecting insulating member, means associated with said sections for supporting said bar in fixed relation to a pair of rails, an operating lever pivotally connected to said bar and adjustable relative to said bar to compensate for differences in rail height, and to provide different leverages, a pair of tongs connected to said operating lever and adapted to engage opposite sides of a tie to be moved, resilient means for urging said tongs into engagement with said tie, and means for automatically spreading said tongs against the resistance of said resilient means when said operating handle is moved to a predetermined position.

2,317,807
TELEMETRIC SYSTEM
John D. Ryder, Cleveland Heights, Ohio, assignor to Bailey Meter Company, a corporation of Delaware
Application February 13, 1940, Serial No. 318,699
12 Claims. (Cl. 172—239)

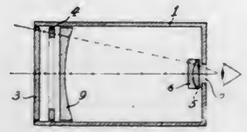


9. A control system comprising an alternating current induction bridge having a plurality of arms each including an inductance unit, at least one of said units including a winding having a movable magnetic member inductively associated therewith, means for moving the magnetic member with respect to the winding to unbalance the bridge, an auxiliary winding connected in parallel with said first-mentioned winding and an adjustable magnetic member inductively associated with the auxiliary winding for varying the inductance thereof so that the amount of unbalance of the bridge resulting from a given movement of said first-mentioned magnetic member may be controlled.

2,317,808
PROCESS OF PREPARING PHENYLACETYLENE
Wilhelm Sandhaas, Mannheim, Germany; vested in the Alien Property Custodian
No Drawing. Application June 28, 1939, Serial No. 281,693. In Germany July 2, 1938
5 Claims. (Cl. 202—57)

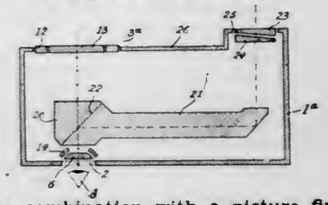
1. A process for the production of phenylacetylene from an organic liquid used for washing acetylene prepared by thermal or electrical treatment of gaseous hydrocarbons and which contains diacetylene which process comprises polymerizing in the liquid at least part of the diacetylene, driving off remaining monomeric diacetylene from the said liquid with an inert gas at a temperature below the boiling point of phenylacetylene, and subsequently subjecting the remaining liquid free from monomeric diacetylene to a distillation under reduced pressure while condensing a fraction rich in phenylacetylene.

2,317,809
FINDER FOR PHOTOGRAPHIC PURPOSES
Hans Sauer, Dresden, Germany; vested in the Alien Property Custodian
Original application September 10, 1938, Serial No. 229,299. Divided and this application April 25, 1941, Serial No. 390,214. In Germany September 21, 1937
4 Claims. (Cl. 88—1.5)



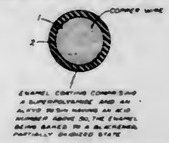
1. A finder for photographic purposes, including a casing having closed side walls and provided at one end with a field opening and at the other end with an ocular opening in axial alinement with said field opening, a polarizing filter plate closing said field opening, the center portion of which forming the picture area of said finder, optical means within said casing for producing a picture boundary frame around said picture area, said optical means comprising a frame member of double refractive material mounted in rear of that portion of said polarizing plate forming the picture boundary frame, said frame causing the polarized light rays passing through the same to vibrate in a plane substantially at a right angle to the plane of vibration of the light rays which have passed through the center portion of said polarizing plate forming the picture area, and an ocular lens at said ocular opening, said ocular lens being composed of a plano-convex lens made of a double refractive material and a plano-concave lens cemented thereto.

2,317,810
FINDER FOR PHOTOGRAPHIC PURPOSES
Hans Sauer, Dresden, Germany; vested in the Alien Property Custodian
Original application September 10, 1938, Serial No. 229,299. Divided and this application April 25, 1941, Serial No. 390,215. In Germany September 21, 1937
2 Claims. (Cl. 88—1.5)



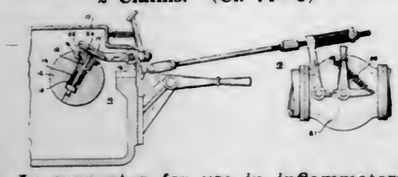
1. The combination with a picture finder, of a range finder, including a casing having a front wall provided with a two laterally spaced apertures, light polarizing means closing one of said apertures and comprising two polarizing foils mounted in the same plane with their polarizing planes crossing each other, one of said polarizing foils forming the picture area of the picture finder and the other a picture boundary frame surrounding said picture area, said casing having a rear wall provided with an ocular opening in axial alinement with the opening which is closed by said polarizing means, a plano-convex ocular lens at the said ocular opening for observing the indications of both said finders, means forming the base of said range finder mounted in said casing, means for varying the measuring rays mounted in the other aperture in said front wall, said base forming means being provided with a semi-transparent reflecting face mounted between said polarizing means and said ocular lens, the center portion of said ocular lens being biplanar for permitting an observation of the picture appearing in the picture area in natural size, and an annular polarizing filter in front of the marginal convex face of said ocular lens, the polarizing plane of said annular polarizing filter being parallel with respect to the polarizing plane of the filter forming the picture boundary frame.

2,317,811
COATED METAL WIRE
William J. Scheiber, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application May 2, 1940, Serial No. 332,976
5 Claims. (Cl. 174—125)



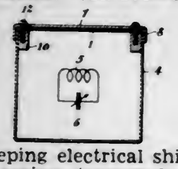
1. Copper wire having a semi-glossy, black, continuous, flexible coating tightly adhering thereto, said coating comprising a superpolyamide modified with a substantial amount but not exceeding 40% by weight thereof of an alkyd resin having an acid number above 50 and being baked on the wire to a partially oxidized and blackened state at a baking speed substantially in excess of the baking speed permissible in baking a wire coating composed entirely of the corresponding superpolyamide under similar conditions to a substantially blackened, and equivalent flexible, tightly adhering state.

2,317,812
GOVERNOR APPARATUS
Walter Schmid, Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 27, 1940, Serial No. 347,908
2 Claims. (Cl. 74—3)



1. In apparatus for use in inflammatory or explosive environments, a shaft rotatable normally at a relatively high speed, trip mechanism including a lever disposed adjacent to the shaft and movable outwardly therefrom an amount required to release the mechanism and a pin carried by the shaft so as to be normally free of the lever but which, under the influence of centrifugal force, is movable radially outward with respect to the shaft when the latter overspeeds to a predetermined extent to engage the lever and then, with continued outward radial movement, to engage the lever repeatedly to move the latter the amount required to release the trip mechanism, said lever including at least the pin-contact portion thereof comprised by a hard, tough, wear-resisting and nonsparking material including fabric impregnated with a suitable synthetic resin.

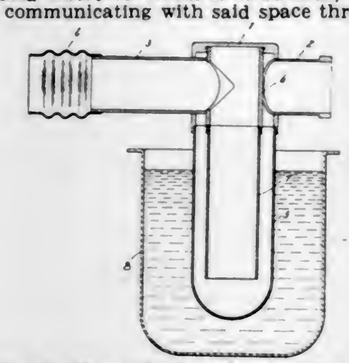
2,317,813
SHIELDING
Ferdinand Julius W. Schoenborn, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application February 28, 1940, Serial No. 321,220
6 Claims. (Cl. 174—35)



1. A non-creeping electrical shielding member comprising a spring tempered metallic sheet fabricated in such a fashion as to provide multiple marginal teeth which are bent to slant in an opposing direction each side of the center of said sheet and along all contact edges for insertion between butt joints of radio frequency shielding members thereby providing a means for good electrical leakage-free contact joints due to the biting action of the slanted teeth when said members are assembled.

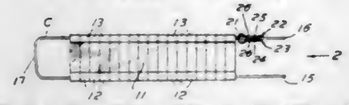
2,317,814
COOLING TRAP, PRIMARILY FOR CONDENSING VAPORS OF MERCURY AND THE LIKE
Hans Schuchmann, Berlin-Spandau, and Walter Steinmetz, Berlin-Charlottenburg, Germany; vested in the Alien Property Custodian
Application October 6, 1939, Serial No. 298,282
In Germany September 22, 1938
2 Claims. (Cl. 62—122)

2. A cooling trap, comprising a vertically disposed cylindrical member of metal, a cylindrical metal insert inside said member, said insert being of substantially the same length as said member and being of smaller diameter, whereby an annular space is formed between the inner wall of said member and the outer wall of said insert, a common closure member for the upper ends of said cylindrical member and said insert, said closure member constituting also a support for the said insert to which it is secured, an inlet pipe communicating with said space through an



opening in the wall of said member, an outlet pipe passing through the wall of said member and communicating with the interior of said insert through an opening in the wall thereof, a depending vessel of glass secured to the lower open end of said member, a cylindrical extension of said insert projecting into said vessel, and means for cooling said vessel.

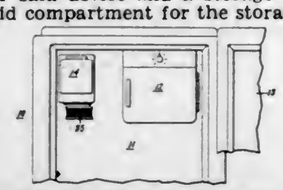
2,317,815
CLAMPING MEANS FOR WOUND CLIPS
Seymour Schumann, New York, N. Y.
Application September 20, 1941, Serial No. 411,730
3 Claims. (Cl. 1—56)



1. In combination with a plurality of wound clips each having an arched body section terminating at each end in a looped section from which a flesh-engaging prong extends, a U-shaped wire carrier for the clips having two legs with each passing through and extending beyond an end loop of each clip for holding the clips in edge to edge alignment; and clamping means for maintaining the clips in position on the wire carrier, comprising a clamp member bent back upon itself to provide a looped section at one end thereof, grippable wings at the other end thereof, and a flattened central section with an aperture extending longitudinally therethrough as well as through the looped section, said clamp adapted to have at least one leg of the carrier threaded through said aperture and held in frictional engagement with the central section of the clamp whereby the clamp is parallel to the leg, the entire assembly being readily sterilized and the clamp being removable by one hand without substantial danger of puncturing the operator's rubber gloves.

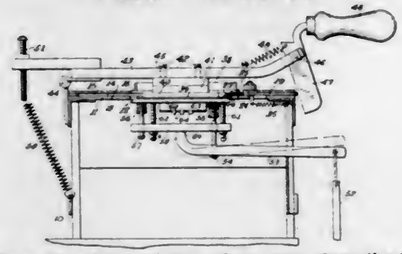
2,317,816
REFRIGERATION APPARATUS
Carl F. Scott, Milford, Conn., assignor to General Electric Company, a corporation of New York
Application August 23, 1941, Serial No. 408,009
4 Claims. (Cl. 62—89)

1. In a refrigerator cabinet of the type having a refrigerated storage compartment, an electrical device within said compartment, an electric circuit for said device and a storage receptacle within said compartment for the storage of but-



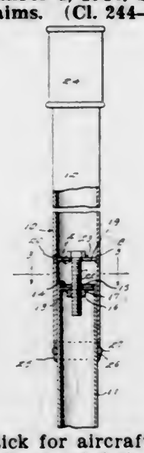
ter or the like, means for conducting heat incidentally resulting from the operation of said electric device to said receptacle for maintaining the temperture therein above the temperatures prevailing in the storage compartment.

2,317,817
FABRIC EDGE-FOLDING AND PRESSING DEVICE
Jacob Silverman, New York, N. Y.
Application July 2, 1941, Serial No. 400,803
1 Claim. (Cl. 223—38)



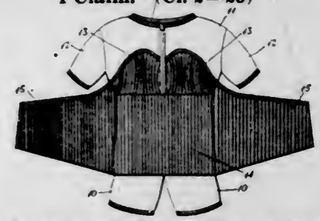
In a machine of the character described, an operating handle, an edge fold mechanism actuator secured to said handle, an operating lever pivotally carrying said actuator and said handle, a clamp plate carried by said lever, and spring means connecting said lever and said actuator.

2,317,818
CONTROL STICK FOR AIRCRAFT
Joseph Skulkety, Trenton, N. J.
Application December 4, 1941, Serial No. 421,664
2 Claims. (Cl. 244—83)



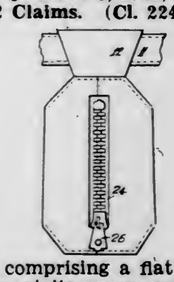
1. A control stick for aircraft formed of telescoping inner and outer tubular sections, a disk secured in the upper end of the inner tubular section and provided with a threaded opening, a threaded bolt fixedly disposed within and concentric of the outer section and having its threaded shank and engaging the threaded opening for detachably connecting the stick sections, said sections being turnably and slidably connected for connecting and disconnecting the bolt and disc, a collar secured around the inner section to be engaged by the end of the outer section which engages over the inner section, for limiting the movement of the sections toward one another, the opposite end of the outer section being offset relatively to the longitudinal axis of the stick, and said collar being located so that, when the first-mentioned end of the outer section is in engagement therewith, the offset end will project in a certain predetermined direction from the longitudinal axis of the stock.

2,317,819
UNDERGARMENT
Helen Hunter Smith, New York, N. Y.
Application July 6, 1940, Serial No. 344,207
1 Claim. (Cl. 2—25)



An undergarment for cardiac, sclerosis and gall bladder patients and the like embodying a girdle having a flexible and resilient front girdle portion of a form and size to extend over the abdomen and hips of the wearer, and a pair of flaps attached at their inner ends to and extending from the sides of said girdle portion, each of the flaps being of a width at its attached end to extend vertically along an entire hip of the wearer and being of a length adapting it to be extended across the girdle from side to side thereof and attached at its free end thereto adjacent the other hip of the wearer, whereby said flaps may be extended in opposite directions and in overlapping relation across the back to provide a protective padding for the lower part of the back of the wearer.

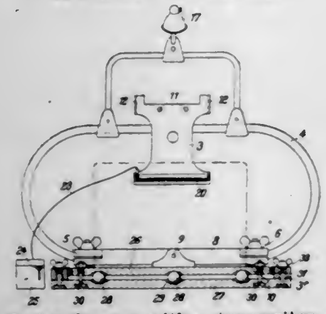
2,317,820
LADY'S PURSE
Mabelle C. Smith, Brooklyn, N. Y.
Application September 8, 1941, Serial No. 410,023
2 Claims. (Cl. 224—5)



1. A purse comprising a flat container having a flexible loop at its upper end engaging a belt to hold the purse freely suspended from the belt and with the back of the purse adjacent the body of the user, a vertical opening on the back of the purse and intermediate its ends, a sliding fas-

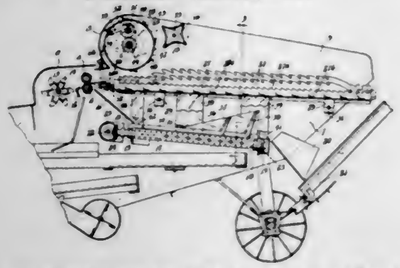
tening for said opening, said fastening being closed when the slide is in the lower position and the purse normal, said fastening and opening being concealed by the purse in the normal position and being exposed when the purse is turned on said loop upside down.

2,317,821
COPYHOLDER
Hermann Stein, Magdeburg, Germany; vested in the Alien Property Custodian
Application September 26, 1939, Serial No. 296,689
In Germany December 27, 1937
14 Claims. (Cl. 120—28)



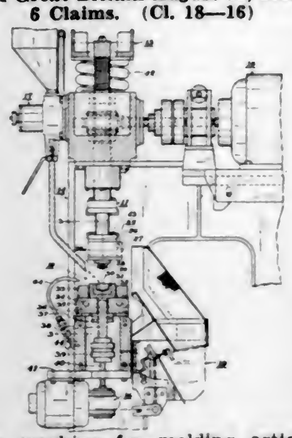
1. A device for use with a typewriter comprising a copy holder adapted to swing in a plane parallel to the direction of the movement of the carriage of the typewriter.

2,317,822
BAND SNAPPER FOR CORN HUSKING MACHINES
Walter W. P. Steiter, Echo, Minn.
Original application December 18, 1936, Serial No. 116,593. Divided and this application May 1, 1940, Serial No. 332,733
9 Claims. (Cl. 130—33)



1. In a machine such as a corn shredder having oppositely acting rollers between which material is to be fed, feeding means operating beneath said material for feeding material forwardly to said rollers, a material engaging member mounted above said feeding means adjacent said rollers for rotation about an axis extending transversely of said feeding means, means imparting in repeated fixed cycles intermittent rotational movement to said material engaging member, first through a certain arc in one direction and thence through a certain arc less than said first mentioned arc in the opposite direction whereby said material engaging member will act on the upper strata of the fed material to retard movement of the upper strata relative to the lower strata and a rotating drum having radial spaced feeding projections, said drum being disposed behind said material engaging member above said feeding means and rotating about an axis parallel to the axis of rotation of said material engaging members and having its lower edge rotating forwardly.

2,317,823
SCREW CAP MOLDING MACHINE
William Strauss, Philadelphia, Pa., assignor to F. J. Stokes Machine Company, a corporation of Pennsylvania
Application December 22, 1938, Serial No. 247,215
In Great Britain August 11, 1938
6 Claims. (Cl. 18—16)

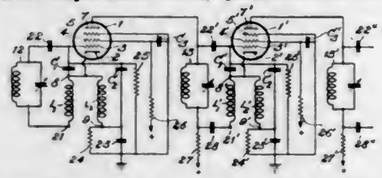


1. In a machine for molding articles from plastic material, the combination of a mold comprising a lower mold part having a molding cavity formed therein and an upper mold part, one of said mold parts being movable to open and close the mold, means for mounting one of said mold parts for rotation about a vertical axis, one of said mold parts having a threaded portion for forming screw threads on a molded article, and the opposite mold part having a molding portion providing an interlocking engagement with the molded article to prevent rotation of the molded article with respect thereto but permitting stripping of the molded article therefrom by the opening of the mold, means for separating said mold parts to break the adhesive contact between said article and said opposite mold part while maintaining interlocking engagement therebetween, and means responsive to the initial opening movement of said mold for rotating said rotatable mold part in timed relation with the separation of said mold parts to be completely unscrew the molded article from the threaded mold part while said article is in interlocking engagement with said opposite mold part.

2,317,824
HIGH FREQUENCY AMPLIFIER CIRCUITS
Maximiliaan Julius Otto Strutt and Aldert van der Ziel, Eindhoven, Netherlands; vested in the Alien Property Custodian
Application January 29, 1941, Serial No. 376,456
In the Netherlands March 26, 1940
12 Claims. (Cl. 179—171)

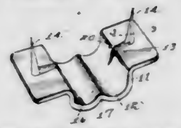
1. A cascade circuit comprising at least two high-frequency amplifying stages each of which comprises an amplifier valve whose cathode is provided with at least two leads one of which, for the oscillations to be amplified, is included in the input circuit and another in the output circuit

and in which a capacity is connected between the control grid and that end of the cathode lead remote from the cathode included in the output circuit and the latter cathode lead comprises an impedance of an inductive character, said capacity and impedance being proportioned in such



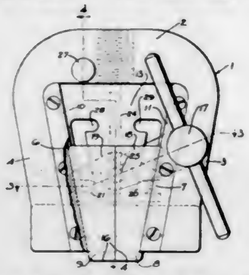
manner that the input damping is zero or negative, wherein at least at those stages which precede the last stage solely that end of the cathode lead included in the output circuit which is remote from the cathode is connected to earth in a high-frequency manner.

2,317,825
STRAP FOR ANCHORING DUPLEX ELECTRIC CONDUCTORS
John A. Teas, Sr., Des Moines, Iowa
Application July 20, 1942, Serial No. 451,677
3 Claims. (Cl. 24—129)



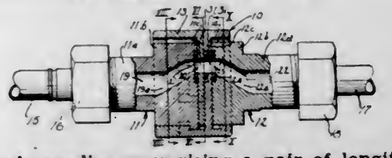
1. A strap for anchoring electric conductors, formed of sheet metal, comprising a body having a bottom, upright sides, the upper edges of said sides being provided with horizontal and outwardly extending flanges, each flange supporting near its outer end an upright and pointed spur stamped from its respective flange and adjoining side member, each spur being concavo-convex in cross section, with its outer side at right angles to said flange and pointed at its upper end.

2,317,826
MATERIALS TESTING GRIP
Richard L. Templin, New Kensington, Pa.
Application November 14, 1941, Serial No. 419,181
4 Claims. (Cl. 24—263)



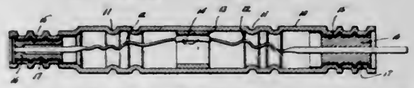
1. A wedge grip for clamping test specimens comprising, in combination, a frame having side pieces connected at one end by a cross member, the other end of said side pieces being connected together by a lateral flange disposed only at the back side of said side pieces whereby the lower end of the grips has a higher degree of elasticity than the upper end, a tapered recess formed between said side pieces and converging toward the flanged end of said frame with the front side of said recess being open, and gripping jaws in said recess.

2,317,827
QUICK DISCONNECT COUPLING
Arthur Townhill, Cleveland, Ohio, assignor to Thompson Products Incorporated, Cleveland, Ohio, a corporation of Ohio
Application January 9, 1942, Serial No. 426,137
10 Claims. (Cl. 284—18)



1. A coupling comprising a pair of longitudinally passaged parts arranged for attachment to the ends of conduits, a sleeve rotatably mounted on each part having a shield wall disposed across an end face of the part for sealing the passage in one position thereof and for uncovering the passage in another position thereof, and means on a sleeve for engaging the other part to couple the parts together when the sleeves are rotated to position the shields for uncovering the passages.

2,317,828
THERMOSTATIC SWITCH
Wilfred J. Turenne, Fayville, Mass.
Application April 17, 1942, Serial No. 439,324
11 Claims. (Cl. 200—137)

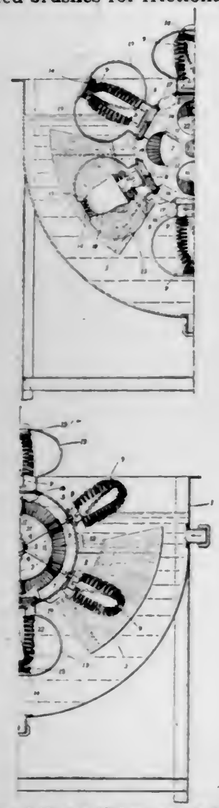


1. A pre-set thermostatic switch comprising in combination a stretchable metallic casing and a resilient strut enclosed therein, said casing and strut having different coefficients of expansion, means rigidly securing the ends of said strut to the respective ends of said casing, means insulating the ends of said strut from the respective ends of said casing, said strut being bowed at its central portion to make contact with said casing below a given temperature and to break contact therewith at said temperature and being corrugated intermediate its ends.

2,317,829
APPARATUS FOR WASHING CUPS, MUGS, DRINKING GLASSES, AND SIMILAR ARTICLES
Ernest Vernon Varley, London, England, assignor to Staines Kitchen Equipment Company Limited, London, England, a British company
Application April 1, 1940, Serial No. 327,093
In Great Britain May 23, 1939
9 Claims. (Cl. 15—76)

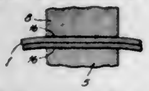
1. Apparatus for washing or cleaning hollow articles such as cups, mugs, drinking glasses or the like, comprising a liquid retaining tank, radially extending spindles mounted collectively for rotation about a horizontal axis and individually for rotation about their own axes, to define a wheel-like structure, brushes mounted along the outer ends of each spindle for frictionally engaging with and supporting the hollow articles being treated at the inner surfaces of the latter, spaced series of opposing brushes mounted in lateral spaced relationship with respect to those carried

on the spindles and the wheel-like structure formed thereby for frictionally engaging the exterior surfaces of the articles being treated as they are rotated by and angularly displaced with the spindles, and additional brushes mounted in longitudinal spaced relationship with respect to said first named brushes for frictionally engaging



the outer ends of the articles carried on the spindles, means for rotating the wheel-like structure about a horizontal axis, means for rotating the individual spindles about their own axes, and means for periodically displacing the additional brushes into and out of engagement with the outer ends of the articles carried on said spindles.

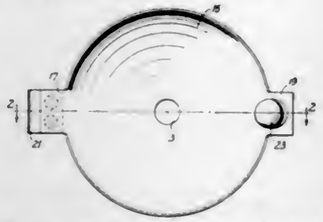
2,317,830
THERMOSTAT AND METHOD OF MANUFACTURING THE SAME
Victor G. Vaughan, Attleboro, Mass., assignor, by mesne assignments, to Metals & Controls Corporation, Attleboro, Mass., a corporation of Massachusetts
Application April 30, 1936, Serial No. 77,097
3 Claims. (Cl. 297—15)



1. A thermostat comprising a dished disc of composite thermostatic metal, and an element welded to said disc in the dished region thereof.

2. The method of manufacturing snap-acting disc thermostatic devices which comprises cutting a piece of composite thermostatic material to form the disc, welding a metallic element to the central part of the disc, and thereafter dishing the disc and subjecting it to predetermined heating substantially greater than that encountered in normal operation.

2,317,831
THERMOSTATIC DEVICE
Victor G. Vaughan and John D. Bolesky, Attleboro, Mass., assignors to Metals & Controls Corporation, Attleboro, Mass., a corporation of Massachusetts
Original application April 1, 1939, Serial No. 265,406. Divided and this application October 4, 1941, Serial No. 413,680
2 Claims. (Cl. 297—15)



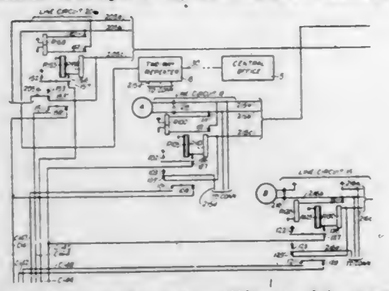
1. A thermostatic element comprising a conducting composite thermostatic metallic sheet part having a non-developable surface adapted to change its shape suddenly upon reaching a predetermined temperature, said surface extending to at least a substantial portion of the edge of said element, and a pair of ears formed integrally with said metallic sheet, the ratio of the width of each of the said ears to the maximum width of the non-developable surface being less than one, and electrical connecting means welded to said ears whereby there is eliminated slow-heating edge material between said ears, which would reduce the uniformity of the electric-heating throughout the sheet.

2,317,832
MANUFACTURE OF REACTION PRODUCTS FROM SULPHITE CELLULOSE WASTE LIQUOR
Fritz Vorsatz, Ludwigshafen-on-the-Rhine, Germany; vested in the Alien Property Custodian
No Drawing. Application May 7 1940, Serial No. 333,776. In Germany May 30, 1939
5 Claims. (Cl. 260—124)

1. The process of treating sulphite cellulose waste liquor to produce conversion products, which comprises heating sulphite cellulose waste liquor with water insoluble organic compounds containing halogen atoms attached to alkyl groups and the addition of sufficient alkali to neutralize the liquor and bind the halogen, and adding sufficient acid to precipitate the conversion products.

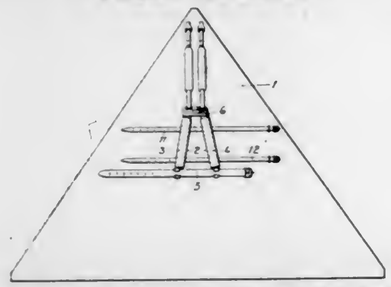
2,317,833
TELEPHONE SYSTEM
John H. Voss, Downers Grove, Ill., assignor to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application July 11, 1940, Serial No. 344,870
55 Claims. (Cl. 179—18)

1. In a telephone system, a line selecting switch of the all-relay type including a plurality of group relays having contacts terminating different groups of lines, operating circuits for said relays, a group select relay including contacts individual to said operating circuits, said last-named contacts being connected to prepare a portion of said operating circuits when said group



select relay occupies one position and to prepare another portion of said operating circuits when said group select relay occupies another position, and means controllable over a calling line of the system for determining the position of said group select relay.

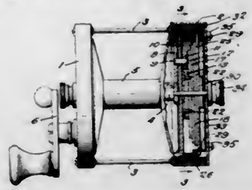
2,317,834
CONVERTIBLE TEXTILE ARTICLE
Ernst Harald Wallin, Arvika, Sweden
Application October 18, 1939, Serial No. 300,006
In Sweden March 23, 1938
1 Claim. (Cl. 224—9)



For use with a carrier frame adapted to be attached to the back of a person and including two substantially rigid elements extending in a substantially vertical direction and being spaced from each other, shoulder straps to which the upper ends of said elements are connected and a hip harness to which the lower ends of said rigid elements are secured, an article made of flexible material and adapted to be supported on said carrier frame, said article including a flexible back portion which is to lie adjacent the back of said person when said article is supported on said frame, and two elongated sleeves of flexible material secured to the outer surface of said back portion in substantially the same relationship with respect to each other as said rigid elements of said frame to telescopically receive said elements, said sleeves having a length slightly less than that of said elements and being provided with aligned slots to receive a holder strap.

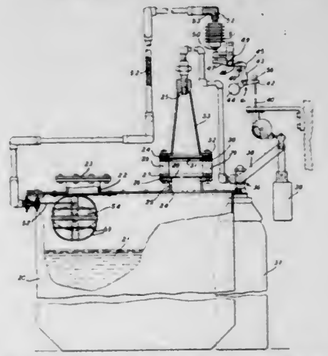
2,317,835
REEL FOR FISHING LINES
William F. Watson, Bradenton, Fla.
Application May 28, 1941, Serial No. 395,684
4 Claims. (Cl. 242—84.5)

1. In a fishing line reel means for preventing back lash comprising a reel-driven disk, a plurality of pick-up disks and braking means mounted on one of the pick-up disks, with



peripherally positioned interengaging members on said disks arranged to engage successively as the reel is rotated.

2,317,836
SAFETY APPARATUS
Leo L. Weaver, Cranford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application May 7, 1941, Serial No. 392,332
8 Claims. (Cl. 169—4)

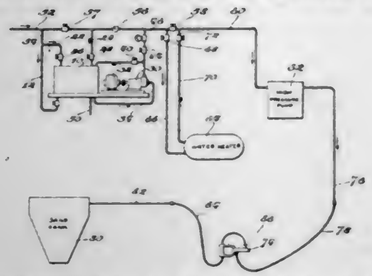


1. A safety apparatus for a container for materials which may evolve vapors and which container is provided with a relief aperture and means to close the same, the said apparatus comprising means to open the aperture and to surround the same with non-inflammable fluid, and means to actuate the last named means upon the occurrence of an abnormal condition within the container.

2,317,837
METHOD AND MEANS FOR TREATING FERROUS OBJECTS
Ronald Webster, Evanston, Ill., assignor to The Hydro-Blast Corporation, Chicago, Ill., a corporation of Illinois
Application July 25, 1941, Serial No. 403,954
2 Claims. (Cl. 51—8)

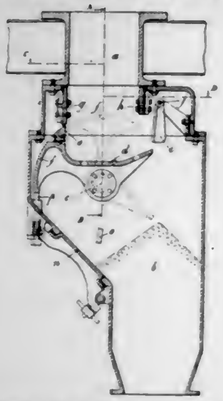
1. A sand blasting system comprising a water supply line, a high pressure pump connected to said line, a sand blasting gun connected to said high pressure pump, said sand blasting gun having means therein to incorporate abrasive particles in the high pressure water stream passing therethrough, means to dissolve a corrosion inhibiting chemical in water to form a substantially saturated solution, heat exchange means to control the temperature of said solution and to maintain the temperature of said solution below atmospheric temperature, pump means for withdrawing said saturated inhibiting solution and for forcing said inhibiting solution into said

supply line, and heat exchange means adapted for elevating the temperature of the mixed water



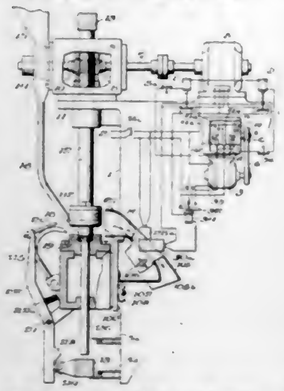
and inhibiting fluid to approximately the body surface temperature of the operator.

2,317,838
RETORT DISCHARGE MECHANISM
Frederick Joseph West and Ernest West, Miles Platting, Manchester, England, assignors to West's Gas Improvement Company Limited, Manchester, England, a British company
Application August 30, 1941, Serial No. 409,082
In Great Britain September 14, 1940
2 Claims. (Cl. 214—18)



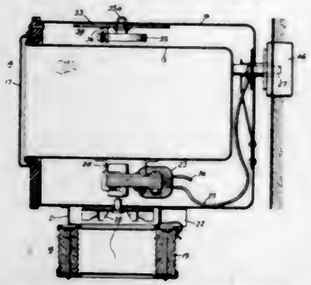
1. Coke discharging means for a vertical retort for the continuous carbonisation of coal and the like comprising, in combination, a fixed coke chamber beneath the retort, an oscillatory extractor located in said coke chamber, extending the full length of the retort, and moved about an axis extending across such chamber beneath the open bottom of the retort, the said extractor comprising a base or step upon which the coke dropping from the retort rests and which is horizontal when coke discharge is being prevented, a riser or vertical side which constitutes a continuation of a side of the retort when coke discharge is being prevented, and a cut-off plate constituting a part of a cylinder with its axis coincident with the axis about which the extractor oscillates, the said plate being clear of the retort bottom when coke discharge is not taking place but moving across the bottom of the retort to support the charge in the latter when coke discharge is taking place, the volume of coke discharged into the coke chamber at each extraction being approximately equal to the volume swept out by the extractor between its riser or vertical side and the base or step upon which the coke rests.

2,317,839
OPERATION CHECK FOR AUTOMATIC MOLDING PRESSES
Charles J. Westin, Philadelphia, Pa., assignor to F. J. Stokes Machine Company, a corporation of Pennsylvania
Application July 5, 1940, Serial No. 344,173
9 Claims. (Cl. 18—16)



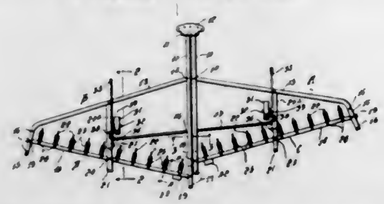
9. In an automatic molding machine, the combination of a mold, motor means for operating said mold through a complete cycle to mold an article, an electric circuit for controlling the energization of said motor means, control means for maintaining said circuit closed substantially throughout the cycle of said mold and for interrupting said circuit for a portion of said cycle, means for ejecting the molded article from said mold, an electrically operated time-delay relay having contacts for controlling said circuit independently of said control means, and means subject to momentary control by said molded article after ejection from said mold for controlling the energizing circuit of said time-delay relay to close said contacts just prior to the opening of said circuit by said control means, said time-delay relay serving to maintain said contacts closed during said portion of the cycle, thereby preventing interruption of said circuit so long as a molded article is ejected during each cycle.

2,317,840
REFRIGERATION APPARATUS
Albert F. Wild, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application August 23, 1941, Serial No. 408,010
6 Claims. (Cl. 62—89)



1. In a refrigerator cabinet having a food storage compartment, means for providing refrigeration in said compartment, a food storage receptacle within said compartment, an electrical device in said compartment, means for conducting the heat incidentally resulting from the operation of said electric device to said receptacle, and means for adjustably providing for the circulation of relatively cool box air into heat exchange relationship with said receptacle.

2,317,841
ROTARY TILLER
Louis A. Wittrock, Sidney, Nebr.
Application June 19, 1941, Serial No. 398,841
2 Claims. (Cl. 97—235)



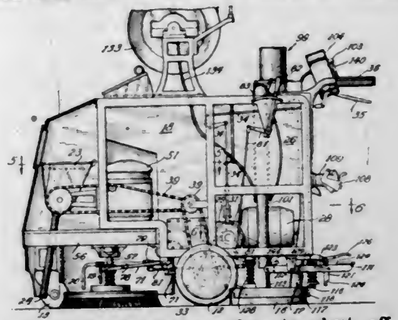
1. A device of the class described having sections, each section having a longitudinal beam, a hitching member pivotally connected to both beams, permitting the latter to move independently of each other, crossbeams, auxiliary beams extending rearwardly from the crossbeams, mounting bars, said beams having series of openings therethrough, bolts passing through the bars and selected ones of said openings to adjustably mount the bars, tiller means carried by the bars, and adjustable ground engaging wheel means for each section mounted on the auxiliary beams.

2,317,842
RESINOUS CONDENSATION PRODUCTS AND A PROCESS OF PREPARING THEM
Arthur Wolfram, Frankfort - on - the - Main-Roedelheim, and Hellmuth Jahn, Bad Soden in Taunus, Germany; vested in the Alien Property Custodian
No Drawing. Application August 1, 1939, Serial No. 287,756. In Germany August 3, 1938
17 Claims. (Cl. 260—62)

1. The process which comprises causing aliphatic polymers of acetylene containing at least one double bond besides the triple bond to act at temperatures of at most +10° C. upon an aromatic hydrocarbon in which a Friedel Crafts' acid condensation catalyst has been dissolved.

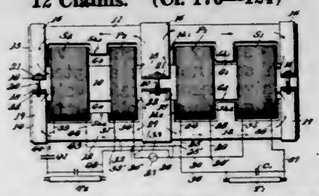
2,317,843
FLOOR-TREATING MACHINE
John A. Backlund, Chicago, Ill., assignor to Lincoln-Schlueter Floor Machinery Company, Inc., Chicago, Ill., a corporation of Illinois
Application June 11, 1938, Serial No. 213,156
2 Claims. (Cl. 15—50)

2. In a floor treating machine having a movable floor-treating unit and motor operated liquid pick-up means including a motor, said means being operable to pick up material from the floor when said unit is acting on the floor, the means for raising said unit and simultaneously shutting off the motor operated liquid pick-up means including in combination a pivoted selectively operable member operatively connected with said unit and adapted to be pivoted to a predetermined position to retain said unit out of contact with the floor, means to hold said member in a predetermined position, and a mercury switch on said member electrically connected with said motor and movable in response



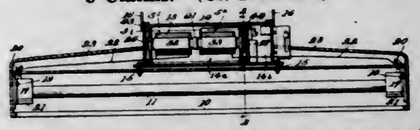
to movement of said member to shut off the motor when the unit is raised.

2,317,844
LUMINESCENT TUBE SYSTEM AND APPARATUS
Charles Philippe Boucher, Paterson, and Frederick August Kuhl, Ridgewood, N. J., assignors to Boucher Inventions, Ltd., Washington, D. C., a corporation of Delaware
Application July 14, 1941, Serial No. 402,411
12 Claims. (Cl. 176—124)



12. In a luminescent tube lighting system, the combination of a transformer of the shell type having a primary and plurality of secondary coil sections mounted on a central core leg, a plurality of luminescent tube loads individually connected to individual secondary coil sections, condenser means included in the circuit of at least one of said tube loads and secondary coil sections and for reducing stroboscopic effect of the tube loads, and magnetic core shunt means around at least one other of said secondary coil sections for limiting the current therein, said core shunt means being of substantially lower reluctance than any shunt path around the secondary coil section connected to said condenser means.

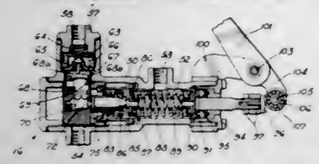
2,317,845
LUMINESCENT TUBE LIGHTING APPARATUS
Charles Philippe Boucher, Paterson, N. J., assignor to Boucher Inventions, Ltd., Washington, D. C., a corporation of Delaware
Application August 21, 1940, Serial No. 353,572
5 Claims. (Cl. 176—124)



3. In luminescent tube lighting apparatus, the combination of a fixture including a reflector and a housing having transformer and condenser compartments, two luminescent tube loads

mounted in the fixture in front of said reflector, a transformer housed in said transformer compartment and having two secondary coil sections individually connected with said tubes, and condenser means in said condenser compartment and included in the circuit of one of said tubes and secondary coil sections, said transformer including magnetic shunt means around at least the other secondary coil section for limiting the current therein.

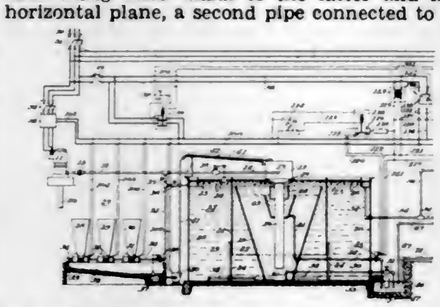
2,317,846
BRAKE VALVE
Rodney B. Campbell, Los Angeles, Calif., assignor to John Eley, Jr., Los Angeles, Calif.
Original application April 26, 1940, Serial No. 331,790. Divided and this application June 11, 1941, Serial No. 397,572
8 Claims. (Cl. 303—54)



1. In a valve device, the combination of: a housing having an inlet opening, a supply opening, and a discharge opening; main valve means in said housing adapted to be opened to permit a flow of fluid therethrough from said inlet opening to said supply opening; valve operating means in said housing adapted to operate said main valve means, said valve operating means including a cam mechanism whereby the application of a relatively small amount of force thereto causes it to apply a relatively large amount of force tending to open said main valve means; auxiliary valve means in said housing communicating between said supply opening and said discharge opening, said auxiliary valve means including a movable valve seat member and a movable valve member adapted to seat on said seat member, one of said members being operatively connected to said valve operating means; and actuating means operatively connected to one of said members and adapted to be actuated to move said members to operate said valve operating means to open said main valve means, said auxiliary valve means being adapted to open in response to a predetermined rise in fluid pressure in said supply opening independently of the actuation of said actuating means.

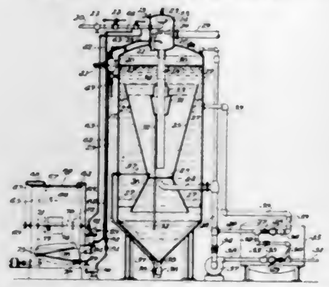
2,317,847
GRAVITY FILTRATION
Emil G. Duden, Oakmont, Pa., assignor to Scaife Company, Oakmont, Pa., a corporation of Pennsylvania
Application September 2, 1939, Serial No. 293,258
13 Claims. (Cl. 210—16)

1. A water purification apparatus comprising an inverted frusto-conical reaction tank closed at the bottom to contain the water to be treated and open at the top, a pipe leading into the reaction tank and having an opening adjacent the bottom of the reaction tank to hydraulically direct a flow of predetermined mixture of raw water and reagents toward the bottom of the reaction tank where it is distributed uniformly and flows upwardly through the reaction tank and overflows the top thereof, an open top sludge collector positioned in the reaction tank at a level intermediate the top level of the water therein and at the opening of the pipe, said sludge collector being disposed to receive sludge from the reaction tank along lines radial of the latter and in a horizontal plane, a second pipe connected to the



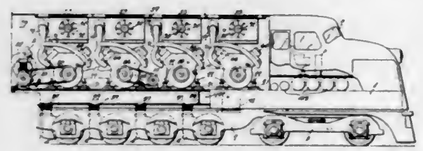
bottom of the sludge collector to discharge the sludge to the outside of the apparatus to prevent its return to the upward flow of water in the reaction tank, and means to withdraw water from the top of the reaction tank.

2,317,848
HOT PROCESS GRAVITY FILTRATION
Emil G. Duden, Oakmont, Pa., assignor to Scaife Company, Oakmont, Pa., a corporation of Pennsylvania
Application September 2, 1939, Serial No. 293,259
18 Claims. (Cl. 210—14)



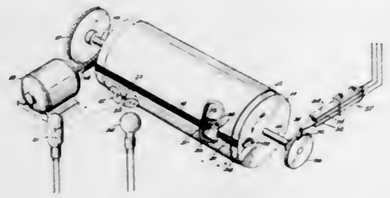
1. In apparatus for continuously supplying treated water at variable rates, the combination of a settling tank having a sludge sump in the bottom thereof and an outlet for treated water therefrom above the sump, a mixing tank above the settling tank, a raw water supply pipe connected to the mixing tank, a regulating valve in the raw water supply pipe, float means responsive to changes in the water level in the settling tank, operative connection between the float means and the regulating valve to regulate the admission of raw water to the mixing tank, a feeder for a reagent solution having an outlet which is connecting to the mixing tank, control means for said outlet responsive to the rate of admission of raw water to the mixing tank to proportionate the supply of reagent solution to that of raw water to the mixing tank, means for heating the water and the reagent solution within the mixing tank, a reaction tank submerged within the settling tank and open at the top thereof, a pipe leading downwardly from the bottom of the mixing tank into the reaction tank to a point adjacent the bottom of the latter to conduct the mixed raw water and reagent solution to the reaction tank, a sludge collector submerged within the reaction tank, means for discharging sludge from the collector to the sludge sump in the settling tank, a sand filter connected to the treated water outlet of the settling tank, and means for directing the treated water from the sand filter to service.

2,317,849
LOCOMOTIVE
Max Essl, Lansdowne, Pa., assignor to The Baldwin Locomotive Works, a corporation of Pennsylvania
Application January 30, 1941, Serial No. 376,667
12 Claims. (Cl. 105—35)



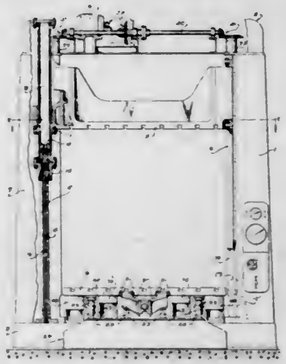
1. A locomotive comprising, in combination, a frame mounted upon driving wheels, a plurality of individual power units each having an internal combustion engine provided with a crankshaft for driving a power converter disposed at one end thereof, said power units being supported on said frame parallel to each other with the engine crankshaft axes extending transversely of the frame and the engines of each unit being disposed on the same side of the centerline of the frame, all of the power units being disposed so that their transverse centerlines are laterally offset with respect to the longitudinal centerline of the frame thereby leaving one side of the upper portion of said frame unoccupied to provide a walkway along one side of the frame but producing an unsymmetrical loading of the frame transversely thereof, and means positioned with respect to said power units in a manner to effect a substantially symmetrical loading of the frame while still retaining said passageway.

2,317,850
ELECTRO-OPTICAL FACSIMILE SYNCHRONIZING SYSTEM
William G. H. Finch, Newtown, Conn.
Application October 17, 1940, Serial No. 361,480
7 Claims. (Cl. 178—7.1)



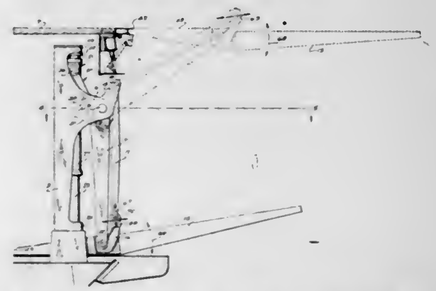
1. A facsimile transmitter comprising a rotatable drum and a picture field mounted upon said drum, electrooptical means for helically scanning said picture field and deriving a current fluctuating in accordance with the lights and shades of said field, means for amplifying said current, and means cooperating with said electro-optical scanning means for generating an electrical synchronizing signal of distinctive amplitude once during each drum revolution, said last mentioned cooperating means comprising a distinctively shaded band across said drum for impinging light on said electro-optical means at one end of the light intensity range to which said electro-optical means is affected in scanning said picture field, and switching means operative to increase the gain of said amplifier during the synchronizing period.

2,317,851
DIE SPOTTING PRESS
Herbert S. Fullerton, Philadelphia, Pa., assignor to The Baldwin Locomotive Works, a corporation of Pennsylvania
Application July 27, 1940, Serial No. 348,067
11 Claims. (Cl. 76—4)



1. The combination in a die spotting press having opposed relatively movable platens for supporting complementary dies and means for moving one of the platens and its die toward the other during a spotting operation comprising, means for effecting parallelism or a predetermined degree of non-parallelism between said platens but said platens being movable out of said parallelism or out of said predetermined non-parallelism when the dies engage each other at a high spot thereon whereby the movable platen adjacent the high spot continues its movement while the remainder of the platen continues to move slightly, and means responsive to said continued movement for indicating the occurrence thereof.

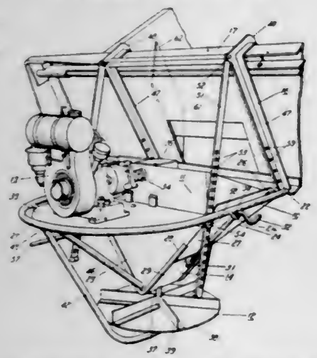
2,317,852
ELEVATOR
Herbert S. Fullerton, Philadelphia, Pa., assignor to The Baldwin Locomotive Works, a corporation of Pennsylvania
Application January 16, 1941, Serial No. 374,659
10 Claims. (Cl. 187—17)



1. In combination, a member shiftable to a plurality of positions, operating links for moving said member and for partially rotating the

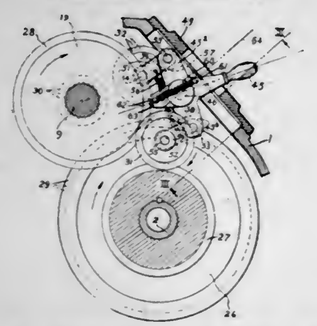
same relative to said links as the member is moved from one position to another, means for initially adjusting the position of said shiftable member in one of said positions, and means for adjusting the position of said shiftable member when in another of its positions while maintaining the initial position adjustment substantially constant.

2,317,853
MATERIAL DISTRIBUTING DEVICE
Roy Gaddis, Cedar Rapids, Iowa, assignor to Milver C. Erusha, Walford, Iowa
Application August 21, 1940, Serial No. 353,499
8 Claims. (Cl. 275—8)



1. In a material distributing device including a main frame, a hopper mounted therein, distributing means and driving means supported by the main frame, means for mounting the main frame on the tail gate of a truck box, and rigid means for adjustably supporting the frame at an angle relative to the tail gate of the truck box.

2,317,854
FRICTION TRANSMISSION GEARING
Willard L. Groene, Cincinnati, Ohio, assignor to The R. K. LeBlond Machine Tool Company, Cincinnati, Ohio, a corporation of Delaware
Original application June 6, 1941, Serial No. 396,957. Divided and this application September 8, 1942, Serial No. 457,645
4 Claims. (Cl. 74—190)

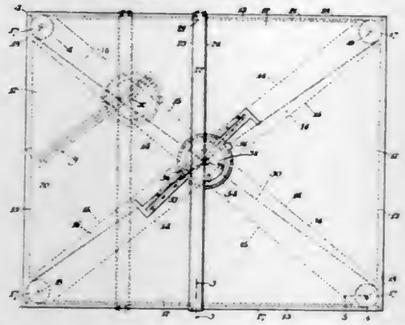


1. In a transmission mechanism having a driven shaft and a drive shaft, pairs of different diameter V-groove sheaves on said shafts, driving discs engageable with each pair of said sheaves, and means for selectively engaging each of said driving discs with its respective pair of sheaves comprising a lever pivotally mounted on the frame of the transmission, projecting arms associated with said lever, links depending from the outer ends of said arms, discs journaled on the outer ends of said links, resilient means for urging the outer ends of said links and said discs normally toward each other, and means for automatically effecting rocking of said arms in either direction of pivoting so as to maintain initial engagement of the driving disc moved into engagement of its respective sheave by manipulation of said lever.

2,317,855
REFRACTORY BODY
Leonard H. Hepner and Roland E. Tucker, Trenton, N. J., assignors to Crane Co., Chicago, Ill., a corporation of Illinois
No Drawing. Application May 9, 1940, Serial No. 334,164
1 Claim. (Cl. 106—45)

In a semi-porcelain once fired grog sanitary ware made from a mixture of approximately 42% clay, approximately 40% of pre-fired clay, and approximately 17% of alumina.

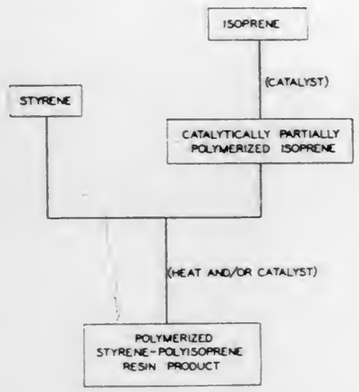
2,317,856
PLOTTING BOARD
Oliver John Mock, Philadelphia, Pa., assignor to Theo. Alteneder & Sons, Philadelphia, Pa., a corporation of Pennsylvania
Application September 26, 1941, Serial No. 412,403
9 Claims. (Cl. 33—80)



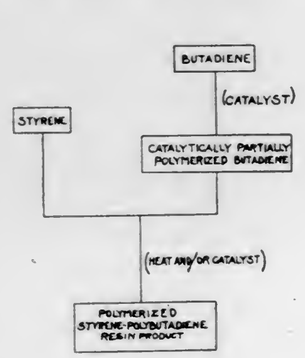
1. In plotting boards for navigation, a vertical straight edge, a hub having a central aperture, a slot being formed in the upper surface of the hub, said hub being threaded on the straight edge so that the hub slides vertically on the straight edge disposed in the slot, said hub having a peripheral shoulder, an annular protractor having a central aperture and arranged to seat on said shoulder, a graduated straight edge slidably mounted on said protractor, a declination correcting disc superposed on said shoulder and having a reference line, and a friction element engaging between the hub and the declination correcting disc to restrain relative movements therebetween.

2,317,857
POLYMERIZED STYRENE - POLYISOPRENE RESIN PRODUCT
Frank J. Soday, Upper Darby, Pa., assignor to The United Gas Improvement Company, a corporation of Pennsylvania
Application December 17, 1938, Serial No. 246,501
20 Claims. (Cl. 260—86)

1. A synthetic resin comprising the product resulting from the polymerization of styrene with isoprene which has been previously partially polymerized catalytically with the aid of an acid-acting metallic halide catalyst.



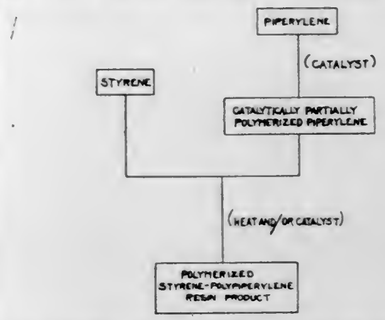
2,317,858
STYRENE-POLYBUTADIENE COPOLYMER
Frank J. Soday, Upper Darby, Pa., assignor to The United Gas Improvement Company, a corporation of Pennsylvania
Application February 17, 1939, Serial No. 256,858
19 Claims. (Cl. 260—86)



1. A synthetic resin comprising the product resulting from the polymerization of styrene with butadiene which has been previously partially polymerized catalytically with the aid of an acid-acting metallic halide catalyst.

2,317,859
STYRENE-POLYPIPERYLENE COPOLYMER
Frank J. Soday, Upper Darby, Pa., assignor to The United Gas Improvement Company, a corporation of Pennsylvania
Application February 17, 1939, Serial No. 256,859
19 Claims. (Cl. 260—86)

1. A synthetic resin comprising the product resulting from the polymerization of styrene with piperylene which has been previously partially polymerized catalytically with the aid of an acid-acting metallic halide catalyst.

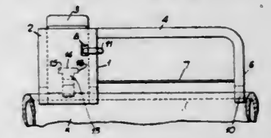


2,317,860
DISPLAY TABLET CONTAINER
Emil Sörensen, New York, N. Y.
Application June 25, 1940, Serial No. 342,227
6 Claims. (Cl. 206—42)



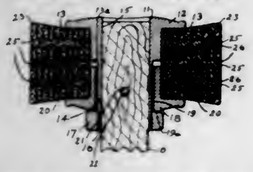
1. A container for storing tablets or other wares preserved against exposure to the atmosphere or like conditions until ready for use, comprising a body molded of brittle plastic material, a pocket formed therein to receive a tablet, and lid means molded of the same brittle material integrally with the body over one end of the pocket, the brittle lid means having a thin and fracturable film-like thickness at its perimeter, thereby adapting the lid means to be flexed and pushed from the pocket by finger pressure, and lid means also over the other end of the pocket and likewise capable of being flexed by finger pressure, the tablet being accessible only through the lid means.

2,317,861
STAMPING DIE
Frank S. Speicher and Leon C. Hauer, Pittsburgh, Pa., assignors to M. E. Cunningham Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application August 31, 1940, Serial No. 355,070
5 Claims. (Cl. 101—28)



1. For use in stamping die employing a die holder, a die retainer to be removably mounted in the die holder, a plurality of dies provided with curved side walls mounted in said retainer, a curved opening in said die retainer providing a base wall for engaging the inner ends of the dies and determining the position of the exposed ends, and means for holding the dies in the retainer.

2,317,862
RAWHIDE HAMMER INSERT
Myles R. Stevens, New Marlboro, Mass.
Application September 25, 1941, Serial No. 412,309
1 Claim. (Cl. 145—36)



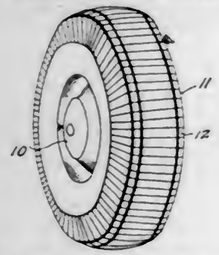
A soft-faced insert for a machinist's hammer comprising a stack of thin rawhide disks permanently glued together in superposed relationship, said insert being reinforced by a plurality of non-scratching rawhide rivet pins passing longitudinally therethrough and having their ends enlarged and headed over flush with the faces of said insert, said insert being held in compressed compact form by said rawhide pins.

2,317,863
ELECTRIC LAMP HOLDER AND THE LIKE
Samuel Daniel Sullam, London, England
Application August 4, 1941, Serial No. 405,347
In Great Britain July 3, 1941
2 Claims. (Cl. 173—328)



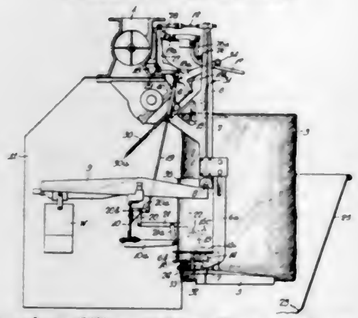
1. A lamp holder having electric lamps comprising a casing moulded in two identical longitudinal sections, a tongue and groove engagement for said sections, a flange with flared end on each section, a screw thread on each section below the flange and a screw threaded ring abutting against said flange to engage the screw threads on the casing and secure the two parts thereof firmly together without extraneous screws, a terminal on the internal surface of each casing part to receive the electric leads, a solid neck portion projecting from each section and longitudinal grooves therein to receive and tightly grip the electric leads therein when the two parts of the casing are secured together.

2,317,864
FABRIC AIRLESS TIRE
Peter J. Swofford, Fort Worth, Tex.
Application July 3, 1942, Serial No. 449,626
3 Claims. (Cl. 152—306)



1. A tire of the class described comprising a plurality of fabric sections shaped to conform to the transverse contour of a tire, said sections being arranged in closely fitting facing relation to provide a tire-like body, means for fixing the lower portions of the sections firmly together, and the outer portion of each section constituting the tread being treated with an anti-friction element.

2,317,865
AUTOMATIC BAG FILLING AND WEIGHING MACHINE
Geoffrey William Talbot, Buxton, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain
Application September 10, 1940, Serial No. 356,227
In Great Britain July 16, 1939
8 Claims. (Cl. 249—60)

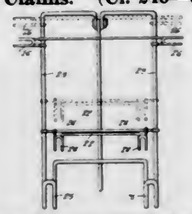


1. In a bag-filling and weighing machine, comprising a scale-mechanism, a filling spout arranged to enter the side of a bag, means for supplying material to be bagged to said filling spout, a cut-off device arranged to control the supply of material to the spout, a scale-pan hanger supported by the scale-mechanism so as to rise and fall, releasable means for clamping a bag to the spout, and means for holding the cut-off device open, said holding means and said bag-clamping means being released when the hanger descends, to allow the cut-off device to be closed, the combination, with said hanger, of a bag-supporting scale pan device comprising a tiltable member carried by the hanger and angularly movable with relation thereto in a direction to free a filled bag from the spout, a bag-supporting collapsible bottom carried by said tiltable member and angularly movable with relation thereto to discharge a bag, and means for retaining the collapsible bottom against collapse during the filling of the bag, said means being released upon the tilting of the tiltable member.

2,317,866
ELECTROCHEMICAL HALOHYDRINATION AND ELECTRODE REGENERATION
Miroslav Tamele, Oakland, and Lloyd B. Ryland, El Cerrito, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application June 27, 1940, Serial No. 342,696
3 Claims. (Cl. 204—81)

3. In a process for the production of halohydrins by subjecting a mixture of an unsaturated alcohol and a substance of the group consisting of an aqueous hydrogen halide solution and an aqueous alkali metal halide solution to the action of a direct electric current transmitted through the mixture between anodic and cathodic electrodes disposed therein while maintaining the concentration of the unsaturated alcohol in the mixture in the range of from about 0.01% to 0.5% by weight, whereby the unsaturated alcohol is halohydrinated and the anodic electrode becomes poisoned by products of side-reactions, the method of regenerating the poisoned anodic electrode and thereby maintaining the efficiency of the process which comprises periodically reversing the polarity of the electrodes.

2,317,867
DISPLAY EASEL
Ewing H. Taylor and William S. Carter, Dallas, Tex.; said Taylor assignor to W. S. Carter, Dallas, Tex.
Application May 29, 1941, Serial No. 395,783
3 Claims. (Cl. 248—36)

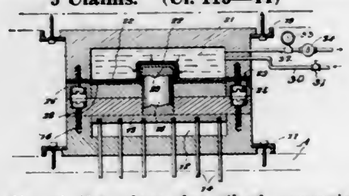


1. A card easel comprising a frame composed of wire having upwardly directed hooks at its lower portion, spaced apart on a horizontal plane, correspondingly disposed hooks disposed above and adjustable vertically with respect to said first hooks, means also adjustable vertically on said frame for retaining the upper portion of a card against said frame and means for supporting said frame in a substantially upright position.

2,317,868
POLYMERIZATION OF ISOBUTYLENE CONTAINING MATERIAL AT LOW TEMPERATURES
Luther B. Turner, Roselle Park, N. J., assignor, by mesne assignments, to Jasco, Incorporated, a corporation of Louisiana
No Drawing. Application April 27, 1940, Serial No. 331,939
2 Claims. (Cl. 260—93)

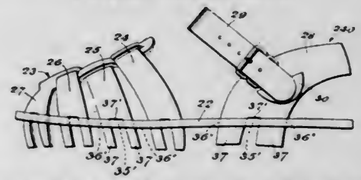
2. In a process for the polymerization of mixtures of an isoolefin and a diolefin at temperatures ranging between —40 and —100° C., the steps of adding flowers of sulfur to the isoolefin-diolefin mixture at the low temperature, and thereafter polymerizing the mixture by the application thereto of a solution of aluminum chloride in ethyl chloride.

2,317,869
COMBINATION HYDRAULIC AND RUBBER DIE
Lewis E. Walton, West Lawn, Pa.
Application April 15, 1941, Serial No. 388,707
5 Claims. (Cl. 113—44)



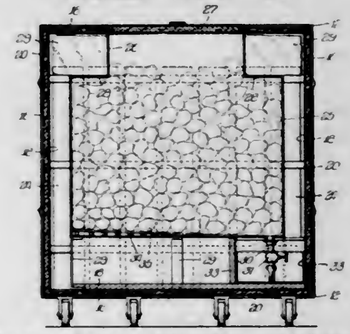
2. A die of the class described comprising a rigid member having a curved side, a second rigid member surrounding the curved side of said first mentioned rigid member, a flexible shape-forming member overlying the rigid members, means for maintaining the outer faces of said rigid members flush, means for applying initial pressure uniformly over the entire area of a flat blank overlying both rigid members and between the flexible shape-forming member and the rigid members while the outer faces of the rigid members are in the flush position, and means for moving one of the rigid members axially relative to the other rigid member to shape the flat blank to the contour of the curved side of the first mentioned rigid member while transmitting pressure through the flexible shape-forming member against the blank during the shaping thereof.

2,317,870
SHOE
Philip Weinstat, Allston, Mass.
Application September 15, 1941, Serial No. 410,800
1 Claim. (Cl. 36—11.5)



A shoe of the sandal type, comprising an insole having adjacent its marginal edge a plurality of spaced elongated pairs of slots, the slots of each slot pair being spaced apart from one another a substantial distance, and an upper structure comprising a series of independent transversely extending straps, each strap having its marginal edge centrally notched to provide pairs of spaced prongs, said pairs of prongs being of a width to snugly fit within related pairs of slots and of a length to extend through said slots and to be folded against and anchored to the bottom surface of the insole when the insole and upper structure are assembled to each other, the closed ends of said notches extending as straight edges which are substantially equal in length to the distances between the slots of their related slot pairs and which when the several pairs of prongs are drawn tautly through the several related pairs of slots are disposed at such angles to the transverse axes of the straps as to flatly abut the upper surface of the insole at the line of contact between said straight edges and the insole, whereby to correctly position the upper structure with reference to the insole.

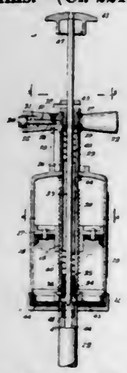
2,317,871
PORTABLE REFRIGERATOR CONTAINER
Howard F. Zimmerman, Chicago, Ill., assignor to Loretta M. Zimmerman, Chicago, Ill.
Application October 30, 1940, Serial No. 363,425
4 Claims. (Cl. 62—91.5)



1. In a portable refrigerator container having

insulated walls, a large opening for the insertion and removal of goods in one of the walls and a relatively small opening for the insertion of ice in another wall, an ice tank having a large metallic heat conducting surface mounted in said container spaced from said insulated walls and said goods, said tank having a neck portion adapted to fit into said ice opening and a substantially larger body portion for receiving and holding an ice charge through said neck portion, and supporting means for solid carbon dioxide formed in said tank exteriorly thereof for holding solid carbon dioxide in intimate heat absorbing contact with said surface.

2,317,872
GREASE GUN
Ilse Zimt, New York, N. Y.
Application May 15, 1941, Serial No. 393,605
In Great Britain January 22, 1941
5 Claims. (Cl. 221—47.4)



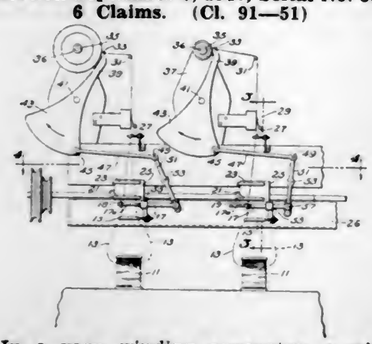
1. In a grease gun or the like, a cylinder formed with an oval shaped internal wall, oval shaped sealing means fitted in said cylinder, handle means connected to said sealing means for feeding the same in and along said cylinder, detent means connected with said handle means, means in said handle means for releasing said detent means, and abutment means positioned on the surface of said cylinder for cooperation with said detent means, to lock said handle means against inadvertent movement thereof during feeding operation.

2,317,873
TRIAL FRAME
Leon James Alger, Grand Forks, N. Dak.
Application March 18, 1942, Serial No. 435,229
3 Claims. (Cl. 88—51)



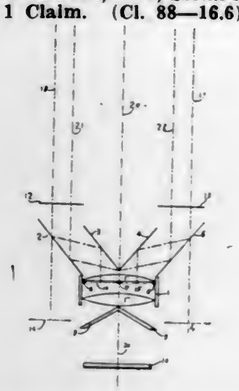
1. In an ophthalmic mounting, the combination of a support, a nose rest comprising a relatively flat body having a convexly curved edge, said edge being concave transversely, the radius of concavity varying circumferentally of said body, and means for pivoting the nose rest relative to the support on an axis extending transversely of the support, for bringing a selected area of said edge into engagement with the bridge of the nose.

2,317,874
YARN WINDING DEVICE
Richard R. Almy, Warwick, R. I., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application September 7, 1940, Serial No. 355,725
6 Claims. (Cl. 91—51)



4. In a yarn winding apparatus, a winding spindle, a traverse frame back pivoted to move away from said spindle as the yarn package increases in diameter, a fixed yarn supply package, a convergence guide positioned above said package, said winding spindle pulling the yarn from one end of said fixed package thereby causing the yarn to balloon as it passes from said package, an oil wiping roller positioned in the path of the yarn passing between said guide and said supply package, guide means between said roller and supply package for converting the circular ballooning movement of the yarn to a transverse shifting motion, and a restraining guide means operatively connected to said traverse frame back for gradually increasing the transverse shifting motion of the yarn on the roller as the yarn speed increases.

2,317,875
STEREOSCOPIC PHOTOGRAPHY
Skipwith W. Athey and Lorin R. Stieff, Baltimore, Md.
Application June 28, 1940, Serial No. 343,038
1 Claim. (Cl. 88—16.6)



A device for producing interlined stereoscopic pictures, a given strip of which pictures contains strip elements of a plurality of views from different viewpoints in successive picture spaces, comprising an optical system adapted to producing superposed stereoscopic images, means for plane-polarizing said images at right angles to each other, and means for alternately changing these axes of polarization, a sensitive surface for recording said images and a linear polarizing filter in contact with said sensitive surface on the side toward the said optical system, so arranged that a part of said filter cross-polarizes one image alternately, and another part alternately cross-polarizes another image, said alternation being in timed relationship with the changing of successive pictures.

2,317,876
MANUFACTURE OF MIRRORS
Elmer J. Ballintine, Tarentum, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
No Drawing. Application March 31, 1941, Serial No. 386,031
4 Claims. (Cl. 117—35)

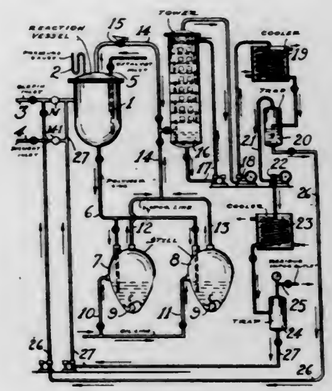
1. In the process of manufacturing mirrors having one silvered surface and one unsilvered surface which process includes the deposition of metallic silver from a solution of a silver salt and a reducing agent upon the upper surface of a glass sheet maintained in a horizontal position, the step which comprises applying a desensitizing solution from a class consisting of stannous oxychloride and stannic chloride to the under surface of the glass sheet to prevent adherence thereon of silver from the silvering solution overflowing the upper surface and contacting the under surface.

2,317,877
MANUFACTURE OF MIRRORS
Elmer J. Ballintine, Tarentum, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
No Drawing. Application April 26, 1941, Serial No. 390,585
4 Claims. (Cl. 117—35)

1. In the process of manufacturing mirrors which includes the deposition of metallic silver from a solution of a silver salt and a reducing agent upon the upper surface of a glass sheet maintained substantially in a horizontal position, the steps which comprise applying an acidulated solution of a compound selected from the group consisting of $K_2Cr_2O_7$, $Na_2Cr_2O_7$, $(NH_4)_2Cr_2O_7$, $NaMnO_4$, and $KMnO_4$ to the under surface of the glass sheet to prevent adherence thereon of silver from the silvering solution overflowing the upper surface and contacting the under surface of the glass, depositing the metallic silver upon the upper surface while the under surface is covered with the compound, then washing away the compound.

2,317,878
METHOD OF PRODUCING POLYMERS OF HIGH MOLECULAR WEIGHT
Lewis A. Bannon, Roselle, N. J., assignor, by mesne assignments, to Jasco, Incorporated, a corporation of Louisiana
Application October 10, 1936, Serial No. 105,006
5 Claims. (Cl. 260—94)

1. In a process of polymerizing liquefied isobutylene to form high molecular weight polymers, the improvement which comprises dissolving a boron fluoride catalyst in an inert liquefied normally gaseous diluent which boils at the desired polymerization temperature, commingling said diluent containing the catalyst initially with a smaller proportion of liquefied isobutylene in a polymerization reaction zone wherein said diluent is boiled at below the boiling point of the isobutylene, polymerizing the said isobutylene into discrete particles as a fluid slurry of polymer particles in diluent, continuously removing vapors of the boiled diluent from said reaction zone to maintain the desired operating pressure and



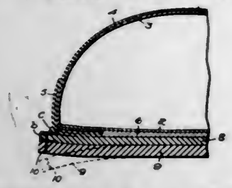
temperature therein, continuously withdrawing said slurry of polymer particles, continuing to add to the reaction zone liquefied isobutylene and a larger proportion of the diluent along with a small amount of catalyst as polymerization of the isobutylene proceeds to replace catalyst lost and to replace the diluent withdrawn so as to maintain a considerably larger proportion of liquefied diluent than liquefied isobutylene in the reaction zone.

2,317,879
RUBBER FOOTWEAR
George H. Bingham, Jr., Lincoln, Mass.
Application August 27, 1942, Serial No. 456,388
13 Claims. (Cl. 12—142)



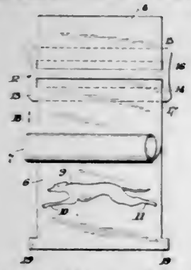
8. That improvement in the methods of making rubber shoes, comprising the steps of assembling an insole and the parts of the upper with each other on a last, lasting the upper to the insole, applying a vulcanizable midsole to the bottom of the lasted assembly so produced, adhesively securing said parts to each other with the edge of said midsole forming a part of the exposed edge of the shoe bottom, vulcanizing the assembly so produced, at some stage in the process securing a preformed rubber outsole to the bottom of said midsole by a rubber base cement serving to produce a union which is secure for wearing purposes but is breakable in the finished shoe to permit the removal of the outsole therefrom and its replacement with a new one, and stitching said preformed rubber outsole to the exposed marginal portion of said midsole.

2,317,880
RUBBER FOOTWEAR
George H. Bingham, Jr., Lincoln, Mass.
Application August 31, 1942, Serial No. 456,815
7 Claims. (Cl. 12—142)



1. That improvement in methods of making rubber shoes, comprising the steps of assembling an insole and the parts of the upper with each other on a last, lasting the upper to the insole, producing a vulcanizable midsole unit with a waterproof covered edge, applying said midsole unit to the bottom of the lasted assembly so produced, adhesively securing said parts to each other, vulcanizing the assembly so made and thereby securing all of said parts permanently together and producing a shoe having a waterproof bottom structure, thereafter securing the marginal areas of an outsole and the midsole unit together with a vulcanizable cement and so adjusting the adhesion produced in this manner that the adhesive union will be serviceable for wearing purposes but may be readily broken in the finished shoe to permit the clean removal of the outsole from the midsole unit.

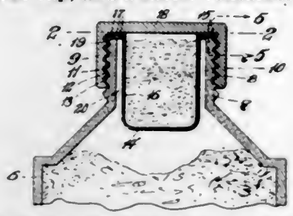
2,317,881
MUTOSCOPE
Adolph Berger, New York, N. Y.
Application June 13, 1942, Serial No. 447,001
2 Claims. (Cl. 88—19)



1. In a mutoscope the combination of a base plate provided with a picture of an object, an elastic cover sheet provided with a picture of said object in another posture, a connection of said plate and sheet in a zone located at one side of said pictures, said sheet tending elastically to curve itself toward said zone, a flat slide guided for reciprocating motion on said plate, and a wiper member on said slide adapted to flatten said sheet under the influence of said motion.

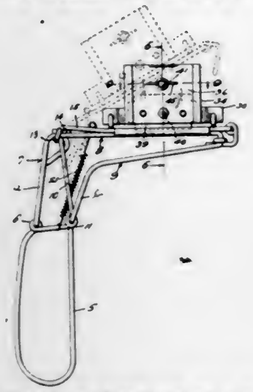
2,317,882
ABSORBENT CLOSURE CAP FOR RECEPTACLES CONTAINING DRY MEDICINAL MATERIALS AND THE LIKE
Charles F. Boesel, St. Louis, Mo.
Application May 31, 1940, Serial No. 337,976
4 Claims. (Cl. 215—37)

3. A dehydrating cap for a receptacle having a top and a threaded cylindrical skirt, a perforated housing disposed within said cap and having an annular wall in abutment with the top wall of the cap, and a fabric container depending



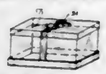
in the housing and having one end clamped between the top wall of the cap and the annular wall of the housing.

2,317,883
PORTABLE HAIR TREATING DEVICE
Philip L. H. Burrell and Harold L. Larsen, Duluth, Minn.
Application June 17, 1942, Serial No. 447,410
6 Claims. (Cl. 132—9)



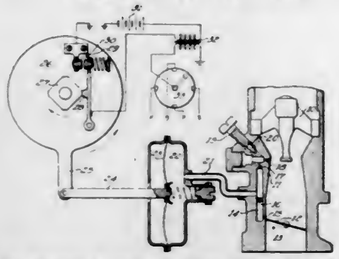
1. A hair treating device of the character described comprising a structure having a handle, means for holding hair on the structure, and scraper means for scraping hair held on the structure.

2,317,884
BOX MADE OF TRANSPARENT MATERIAL
Norman Edwin Clouston, Granby, Quebec, Canada
Application December 28, 1939, Serial No. 311,381
1 Claim. (Cl. 206—44)



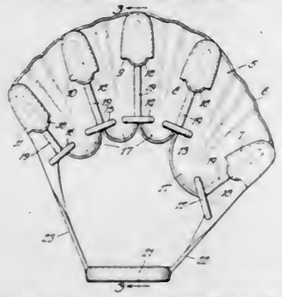
A box comprising a continuous transparent strip having vertical crease lines and longitudinal upper and lower crease lines and forming the walls, flanges forming a part of said strip and projecting inwardly from the longitudinal upper and lower crease lines, the upper flanges forming a bead and the lower flanges forming a securing base, a paper bottom secured to the lower flanges, a paper base adapted to enclose the paper bottom and the lower portion of the box walls, a cover adapted to enclose the upper portion of the box walls, and a ribbon adapted to transversely straddle the paper base and located between the paper base and paper bottom and having its free ends adapted to be fastened toegther around said cover.

2,317,885
IGNITION TIMING DEVICE
Clifford Colvin, Detroit, Mich., assignor to George M. Holley and Earl Holley
Application April 15, 1942, Serial No. 439,065
1 Claim. (Cl. 123—117)



In an internal combustion engine a carburetor having an air entrance, a venturi therein, a mixture outlet, a throttle valve therein, an ignition system for said engine including a low tension circuit breaker, a chamber associated therewith having a movable wall, said movable wall being adapted to advance and retard said low tension circuit breaker in response to an increase or a decrease of suction in said chamber, a passage connecting the chamber with the mixture outlet at a point adapted to be subjected to the mixture outlet suction whenever the throttle is moved from its closed position, a restriction in said passage, a second passage connecting the throat of the venturi with the first passage at a point between said restriction and said chamber, a restriction in said second passage, and an adjustable opening admitting the air at substantially atmospheric pressure into said second passage at a point between the restriction therein and the throat of the venturi.

2,317,886
SWIMMING GLOVE
Edward B. Coddington, Chicago, Ill.
Application March 18, 1940, Serial No. 324,639
2 Claims. (Cl. 9—21)



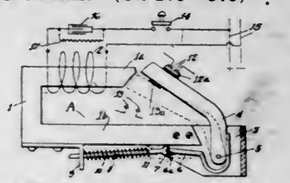
1. In an article of the class described and in combination, a sheet of flexible water-proof material forming a body member adapted to be positioned adjacent the front side of the fingers of one's hand and to extend from the thumb to the little finger thereof when the fingers are spread apart, a plurality of annularly spaced inwardly opening thimble-like pockets formed integrally with said body member at the rear side thereof and adjacent its outer edge, a plurality of resilient rings formed integrally with said body member and spaced inwardly from the open ends of the respective pockets, said rings having openings positioned in substantial alignment with said pockets, a resilient wrist band, integrally formed reinforcing ribs on said body member extending from the respective pockets to the respective rings, and a plurality of strips formed integrally with said sheet and wrist band for connecting the respective opposite end portions of said body member to oppositely disposed portions of said band.

2,317,887
GREASE GUN
John William Crollie, Dagenham, England, assignor to Ilse Zimt, New York, N. Y.
Application October 17, 1941, Serial No. 415,370
In Great Britain July 8, 1941
4 Claims. (Cl. 221—47.3)



1. In a grease gun device, in which lubricant may be forced successively from a low pressure cylinder into a high pressure cylinder, from which said lubricant may be expelled by means of a ram passing through handle and shaft carrying the piston for said low pressure cylinder; a projection on said ram, and a sleeve provided with an inner slot and rotatably mounted between said low pressure cylinder and said handle, said sleeve being spacedly arranged from and placed around a portion of said ram adjacent said projection, said projection being engageable with said sleeve slot to guide said ram along said sleeve, said sleeve being provided with means upon movement of said ram into its forward position to lock said ram in said position by rotational movement of said sleeve relatively to said ram projection.

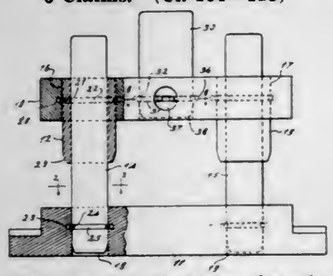
2,317,888
OPERATING CIRCUIT FOR ELECTRICAL DEVICES
Hugo F. Cypser, New York, N. Y., assignor to Signal Engineering & Manufacturing Company, New York, N. Y., a corporation of Massachusetts
Application December 10, 1940, Serial No. 369,466
5 Claims. (Cl. 175—375)



1. An operating circuit for electrical devices, comprising in combination a source of electrical energy, an electrical device comprising a movable

member, means for yieldably maintaining said member in either one of two extreme positions and an energizing winding adapted to actuate said movable member from one extreme position to another in response to each energization of said winding, and means included in circuit with said source and said device for permitting a momentary flow of current through said winding sufficient only to actuate said device from one position to another, with said device remaining in its second extreme position, irrespective of continued closure of said circuit.

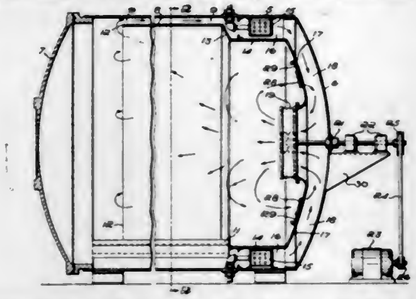
2,317,889
DIE SET PARTS ASSEMBLY
Fred C. Danneman, Ridgewood, N. Y.
Application February 10, 1942, Serial No. 430,316
6 Claims. (Cl. 164—118)



1. A device of the character described comprising a cylindrical member, a holder therefor provided with an opening the diameter of which exactly corresponds to the diameter of said member, said cylindrical member being provided with an annular groove, an elastic split ring adapted to snap into said groove forming an annular projection laterally extending from the surface of said member, the opening in said holder being provided with an annular recess laterally extending therefrom, the width of said recess corresponding to the width or thickness of said annular projection, the diameter of said recess being sufficient to allow expansion of said elastic ring to a point where it will clear the diameter of said cylindrical member, whereby said ring will snap within said groove when said ring is inserted within said recess and said groove comes to register therewith as said cylindrical member is inserted within said opening, locking said cylindrical member against axial displacement, and locking means angularly fixedly securing said ring in said recess when it is inserted therein.

2,317,890
VULCANIZER
Fred C. Dawson, Canton, Mass., assignor to B. F. Sturtevant Company, Hyde Park, Boston, Mass.
Application August 20, 1941, Serial No. 407,578
3 Claims. (Cl. 18—6)

3. A vulcanizer for rubber foot wear and the like, comprising an outer shell, an inner shell having its walls spaced from said outer shell for forming an air passage therebetween, said inner shell forming a vulcanizing chamber in the interior thereof, said chamber communicating with said passage at one end of said vulcanizer for admitting air from said chamber into said passage, said vulcanizer having a door end and an opposite closed end, a propeller fan at said closed end, an inner end wall spaced from said closed end and forming an air passage connecting said passage with the inlet of said fan, said fan being mounted to have its outlet discharge axially into said chamber, for recirculating air through said passages and chamber, an annular heating coil in said first mentioned passage, means in said end wall comprising a plurality of slots around the

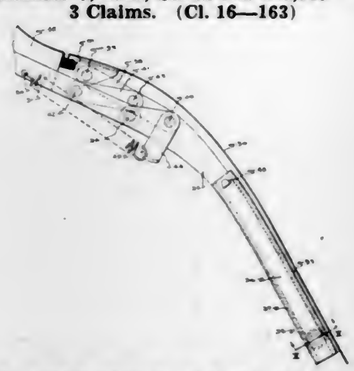


periphery of said fan for permitting air from the outlet of said fan to flow into the inlet thereof, for preventing cold spots around the outlet, and means in said slots for varying the effective area thereof.

2,317,891
WATERPROOF ADHESIVE COMPOSITION
Brook J. Dennison, Aspinwall, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
No Drawing. Application June 9, 1939, Serial No. 278,214
6 Claims. (Cl. 260—32)

1. A waterproof adhesive composition comprising a mixture of vinyl acetal resin and a partially hydrolyzed alkyl ester of silicic acid obtained by hydrolyzation of an ortho-alkyl silicate in the ratio of 50 parts of ortho-alkyl silicate and 10 parts of water, the parts being by weight.

2,317,892
HINGE STRUCTURE
Stephen De Orlow, Detroit, Mich., assignor to Hancock Manufacturing Company, Jackson, Mich., a corporation of Michigan
Original application November 22, 1937, Serial No. 175,767, now Patent No. 2,258,065, dated October 7, 1941. Divided and this application September 9, 1940, Serial No. 355,949
3 Claims. (Cl. 16—163)



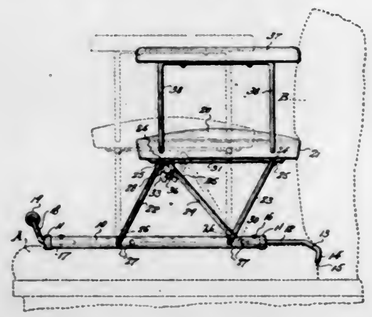
3. A hinge structure for a pair of hinged parts comprising a first link, means pivotally connecting the ends of said link to said parts respectively, a second link, means pivotally connecting the ends of said second link to one of said parts and to said first link respectively, a third link, and means pivotally connecting the ends of said third link to the other part and to a point intermediate the ends of said second link respectively, the pivotal connection between the end of said first link and said one part being arranged to allow sliding movement in addition to the said pivotal movement.

2,317,893
EXTENSIBLE CURTAIN ROD DEVICE
John Di Martino, Brooklyn, N. Y.
Application December 26, 1942, Serial No. 470,232
6 Claims. (Cl. 211—105.3)



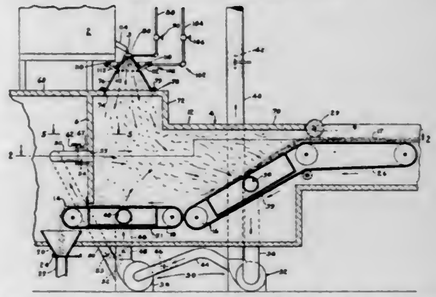
1. A curtain rod device including a holder consisting of natural wood, comprising a block having a mounting flange-like portion and a head carried thereby and integral therewith, said head having an upwardly opening slot of substantial depth so as to be adapted to receive a curtain rod, a wooden pin extending through the head and passing through the lower part of the slot, said pin being glued in the head and reenforcing the head against breakage along the grain at the slot, and a curtain rod resting in the slot and having a notch to receive the pin to prevent the curtain rod from slipping out of the slot.

2,317,894
AUXILIARY SEATING FOR AUTOMOBILES
Harry Doty, Roosevelt, N. Y.
Application May 30, 1942, Serial No. 445,142
6 Claims. (Cl. 155—11)



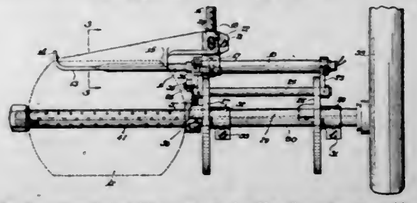
1. A child's seating chair for attachment to an automobile seat comprising a supporting base structure having anchoring means at its rear end insertable between the rear side of the automobile seat cushion and the seat back cushion, a chair bottom connected by swingable leg means to said base structure, and a lockable stay means arranged between the underside of said chair bottom and said base structure, said chair bottom being rearwardly swingable to compressibly and indentingly engage its rear side with the seat back cushion and being adapted to be secured in such engagement by said lockable stay means, whereby forwardly thrusting pressure exerted by the compressed seat back cushion upon the chair maintains engagement of the base structure anchoring means with the seat cushion and the chair as a whole against accidental horizontal or vertical displacement.

2,317,895
MEANS FOR AND METHOD OF MANUFACTURING MINERAL WOOL PRODUCTS BY THE "DRY" PROCESS
Daniel C. Drill, Wabash, Ind., assignor to American Rock Wool Corp., Wabash, Ind., a corporation of Indiana
Application March 3, 1941, Serial No. 381,556
14 Claims. (Cl. 154—27)



8. The method of making from a stream of suitable molten mineral materials, a mineral wool blanket of at least partially de-shotted mineral wool fibers; said method comprising shredding said stream into a commingled blast of mineral wool fibers and shot with a gaseous blast directed downwardly on said stream, directing upwardly and against said first-mentioned blast an upwardly moving gaseous stream to halt the downward movement of said fibers while allowing a continuation of the downward descent of at least a substantial portion of said shot and collecting the fibers in the form of a blanket offset with respect to the line of travel of said shot.

2,317,896
MOUNTING FOR HEAT RESPONSIVE INSTRUMENTS USED IN YARN PACKAGE DRYING
Harry S. Drum and William C. Dodson, Abington, Pa., assignors to Smith, Drum and Company, Philadelphia, Pa., a corporation of Pennsylvania
Application August 12, 1941, Serial No. 406,498
13 Claims. (Cl. 34—105)

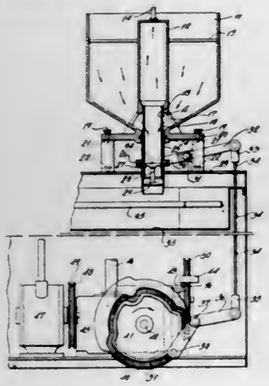


8. In combination, a spindle for supporting a yarn package, a support arranged to be mounted in coaxial alignment with said spindle, an indicating instrument responsive to changes in the value of a condition, and means to mount said instrument on said support substantially parallel thereto and spaced therefrom to pierce and enter said package.

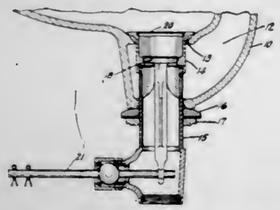
2,317,897
EXTRUSION DEVICE
John L. Ellis, New York, N. Y., assignor to Joe Lowe Corporation, New York, N. Y., a corporation of Delaware
Application May 20, 1941, Serial No. 394,276
6 Claims. (Cl. 107—14)

1. In an extrusion machine and in combina-

tion, an inner sleeve defining a chamber for housing plastic material, said chamber having an inlet through which plastic may be admitted into, and an outlet through which plastic may be extruded out of, said chamber, a sleeve cutter mounted for axial sliding movement relative to said inner sleeve, said sleeve cutter defining a common valve for controlling the opening and closing of said inlet and said outlet in succession, a pump operable to reduce the pressure in said chamber below atmosphere when the sleeve cutter moves downwards to open the inlet to effect entry of plastic into said chamber and to build up the pressure within said chamber substantially above atmosphere when the sleeve cutter moves upwards first to close the inlet and then to open the outlet to allow plastic to be extruded therefrom, and means for operating the sleeve cutter and the pump in properly timed sequence.

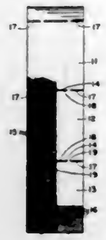


2,317,898
WASH-BASIN ASSEMBLY
Richard G. Fensch and Guy White, Mansfield, Ohio, assignors to The Humphreys Manufacturing Company, Mansfield, Ohio, a corporation of Ohio
Application March 27, 1942, Serial No. 436,456
1 Claim. (Cl. 4—191)



A wash-basin assembly comprising a faucet, a basin formed with a waste outlet in the path of water flowing from the faucet, a cup-shaped valve-seat member mounted in the outlet, a valve associated with the valve-seat member, and a screen formed with a multiplicity of apertures and mounted over the mouth of the cup-shaped member, the interior of the cup-shaped member being of such dimensions as to permit the valve to move therein in the opening and closing of the valve, the apertures of the screen being so numerous and small and defined by such narrow members that the stream of water passes through the screen substantially without splashing from the faces of said members.

2,317,899
TAB TAPE
Nathan I. Fleischer, Cincinnati, Ohio, assignor to The Fleischer Mills, Inc., Cincinnati, Ohio, a corporation of Ohio
Application April 29, 1940, Serial No. 332,303
2 Claims. (Cl. 40—2)



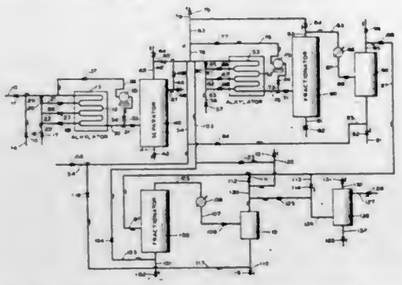
1. As a new article of manufacture, a fabric label tape in the form of a continuous length of tape which is subdivided into a plurality of similar consecutive sections the endmost of which is severable from the tape in response to an oblique pull applied to the endmost section, said tape comprising interwoven longitudinal and transverse threads, each section being defined by and separated from its adjoining sections by transversely extending rows of aligned slits, the slits comprising a row severing the longitudinally extending threads of the tape at opposite ends of a row and at spaced intervals therebetween leaving spaced groups of longitudinally extending threads interconnecting consecutive sections, said threads being continuous in length and extending through consecutive sections, said endmost section being severable from its adjacent section in response to an oblique pull which is transmitted to and concentrated on that group of connector threads nearest to the point of application of pull for severing said group of threads for establishing a line of severance between the endmost and next consecutive section without disturbing or severing the groups of threads interconnecting the other sections of the tape.

2,317,900
SAFETY FISHHOOK
Alfred B. Freeman, San Diego, Calif.
Application April 23, 1942, Serial No. 440,240
1 Claim. (Cl. 43—27)



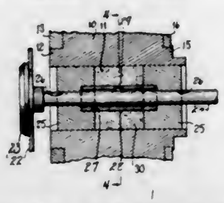
In a barbless hook consisting of a single piece of resilient material and having a double unit shank, said shank being provided at its lower end with an inverted Y structure, said Y structure forming part of outwardly-curved hook units, said hook units normally contacting only at their outer ends, and said contacting ends terminating in outwardly-extending sharpened portions, substantially as shown and described.

2,317,901
CONVERSION OF HYDROCARBONS
Frederick E. Frey, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application March 11, 1940, Serial No. 323,443
11 Claims. (Cl. 196—10)



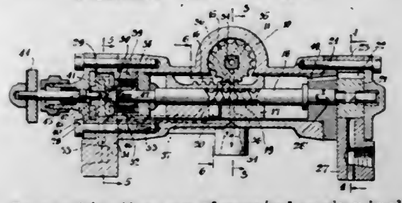
11. A process which comprises contacting a low-boiling normal paraffin hydrocarbon heavier than methane with an olefin hydrocarbon in the presence of concentrated hydrofluoric acid as the sole catalytic alkylation component and under conditions to effect alkylation of said normal paraffin hydrocarbon with said olefin hydrocarbon to produce a higher boiling paraffin hydrocarbon.

2,317,902
BEARING FOR MINIATURE ELECTRIC MOTORS
Kenneth R. Fritz, Bristol, Conn., assignor to The Sessions Clock Company, Forestville, Conn., a corporation of Connecticut
Application January 31, 1941, Serial No. 376,802
2 Claims. (Cl. 308—111)



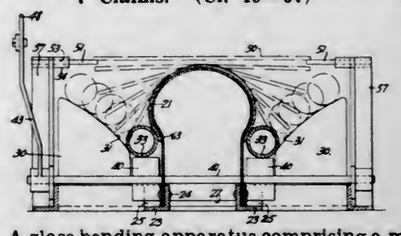
1. A bearing for miniature electric motors in combination with a motor-structure including a member having a passage therethrough; of a pair of porous bearing-members each having a bearing-passage therein and mounted in the passage in the said member of the motor-structure in axially-spaced-apart relationship to provide a lubricant storage-space therebetween; a shaft extending in the bearing-passages of the said bearing-members and spanning the gap therebetween; and a relatively non-porous spacing-tube extending between the two said spaced-apart porous bearing-members and enclosing an intermediate portion of the said shaft and provided with a relief-passage extending from the interior of the said spacing-tube to the exterior thereof in communication with the lubricant storage-space between the two said spaced-apart bearing-members, the interior diameter of the said spacing-tube being materially larger than the diameter of the portion of the said shaft extending therethrough, and the inner surface of the said spacing-tube being free of bearing-engagement with the said shaft throughout substantially the full length of the said spacing-tube.

2,317,903
DRIVE MECHANISM
Ernest W. Fuller, Shaker Heights, Ohio, assignor to The Acrotorque Company, Cleveland, Ohio, a corporation of Connecticut
Application April 2, 1941, Serial No. 386,399
3 Claims. (Cl. 15—250.4)



1. In combination, an elongated casing including a rotatable shaft therein adapted to be power driven, a second shaft arranged transverse to the first shaft and adapted to drive a wiper, means for connecting said first and second shafts whereby in response to movement of the first, said second shaft will oscilate, a liquid pump structure adapted to deliver liquid to the wiper comprising a rotor, presenting a clutch part, a sleeve associated with said first named shaft and also presenting a clutch part cooperable with said rotor, manually controllable means for shifting said clutch parts to positions at which they will be disengaged and resilient means interposed between said sleeve and said first named shaft for constantly urging such clutch parts into engaged positions, said pump being disposed adjacent one end of said casing.

2,317,904
GLASS BENDING APPARATUS
Henry J. Galey, Tarentum, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
Application March 11, 1941, Serial No. 382,708
7 Claims. (Cl. 49—67)



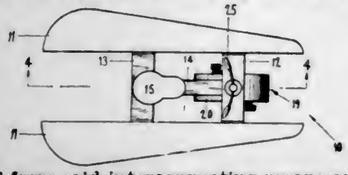
4. A glass bending apparatus comprising a mold of inverted channel form adapted to be subjected to heat of sufficient intensity to soften glass, inclined guides on opposite sides of the mold and converging toward the lower portion of said mold, and rolls disposed in rolling relation against the guides for contacting the softened glass on the mold and pressing such glass against the sides of the mold.

6. A glass bending apparatus comprising a resilient mold of inverted channel shape, means for supporting sheet glass in spaced relation above the mold and responsive to action of heat to lower the sheet glass into contact with the mold at predetermined temperature, and means to press the softened glass against opposite sides of the mold.

2,317,905
WATER CYCLE
Joseph Galkin, New York, N. Y.
Application October 8, 1941, Serial No. 414,175
4 Claims. (Cl. 9—18)

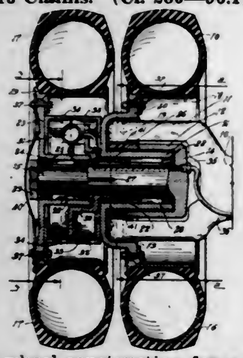
1. In a water cycle of the class described, a pair

of spaced-apart buoyant member, means for interconnecting said buoyant members, a seat carried by said interconnecting means and suspended below said buoyant members, a paddle wheel sus-



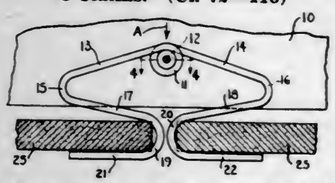
pended from said interconnecting means and being submerged, a casing covering the upper half of said paddle wheel, and means for pivoting said paddle wheel to simultaneously propel and steer said water cycle.

2,317,906
DUAL WHEEL CONSTRUCTION
Vactor G. Garnett and Edward V. Garnett, Denver, Colo.
Application April 26, 1941, Serial No. 390,440
13 Claims. (Cl. 280—96.1)



1. A dual wheel construction for vehicles comprising: a hollow non-rotatable bearing member; an axle member supported by and projecting concentrically through the hollow bearing member; a first wheel journalled on said axle member internally of said bearing member; a second wheel positioned closely adjacent said first wheel and journalled on said axle member adjacent said first wheel so that it can be rotated independently thereof, said wheels being journalled respectively on opposite sides of a vertical plane passing between the wheels; and a substantially vertical pivot means for said bearing member to allow the latter to be rotated in a horizontal plane for steering purposes, said pivot means being located in said vertical plane.

2,317,907
WALL
Oscar L. Gent, Tulsa, Okla.
Application July 19, 1941, Serial No. 403,140
4 Claims. (Cl. 72—118)

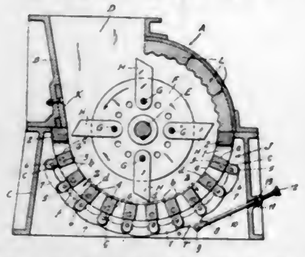


1. A structure comprising members, sheets of plaster board or the like laid across the faces of the members, and clips for connecting the boards onto the members, said clips comprising a portion connected onto the particular member away from the face thereof, said clip having portions extending away from said connection in diverging relationship, said portions then being return bent to approach each other, whereby spring action is obtained in either portion then being bent to respectively form outwardly facing loops capable of receiving the edges of the plaster board.

2,317,908
DEODORANT
Roy I. Grady, Wooster, Ohio
No Drawing. Application March 14, 1941, Serial No. 383,417
7 Claims. (Cl. 167—14)

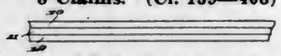
1. A deodorant composition comprising natural marl and lime.

2,317,909
CAGE FOR GRINDING MACHINES AND THE LIKE
William P. Gruendler, University City, Mo., assignor to Gruendler Crusher & Pulverizer Co., St. Louis, Mo., a corporation of Missouri
Application May 25, 1942, Serial No. 444,334
1 Claim. (Cl. 83—11)



In a machine of the class described, in combination with a rotatable series of hammers, a cage comprising a frame including a pair of spaced side rails lengthwise arcuate in contour, a series of bars disposed transversely between and at their ends independently pivotally connected for rocking movement to said rails, each of said bars being of oblong-rectangular contour, and means including links arcuate in side elevation having pivoted connection with and at the respective outer faces of the bars for maintaining the bars in operative relation and for rocking the bars in unison for adjustably spacing said bars one from the other and varying the angularity of their inner faces with respect to the hammers for regulating the degree of fineness of the material being operated upon and discharging from the machine, said bars, when in normal position, being presented with their respective inner faces obliquely disposed to said rails and with one bar at a corner thereof in cage-closurewise-engagement with a side face of an adjacent bar and with the inner faces of the several bars extending obliquely to said hammers for increasing their material reducing co-operation therewith and said bars, when in full abnormal position, being presented with their said inner faces approximately concentric the one with the other for decreasing their material reducing co-operation with the hammers and at their side faces most widely spaced the one from the other for opening the cage to greatest degree for permitting material of greatest size to discharge between the bars.

2,317,910
DRIER FELT
Harold N. Hill, Philadelphia, Pa., assignor to Asten-Hill Mfg. Co., Philadelphia, Pa., a corporation of Delaware
Application January 17, 1941, Serial No. 374,930
8 Claims. (Cl. 139—408)



1. In a drier felt having a working surface ply comprising interwoven warp threads and weft threads, the feature of composite asbestos threads incorporated in said surface ply as the threads of at least one of said thread groups, said respective composite threads being composed of a plurality of asbestos yarns having individual yarn twists and combined with a thread twist, and textile fiber reinforcing means in the thread embedded as a core in at least one of the individual asbestos yarns with the asbestos fibers of the surrounding yarn twisted around the textile fiber core as a protective envelope.

2,317,911
RUBBER STRUCTURE
George Preston Hoff, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Original application November 1, 1938, Serial No. 238,210. Divided and this application June 25, 1941, Serial No. 399,596
3 Claims. (Cl. 152—359)



1. Rubber tires containing, as the reinforcing ing of an oriented synthetic linear polyamide element therein, a reinforcing structure consistmono-fil.

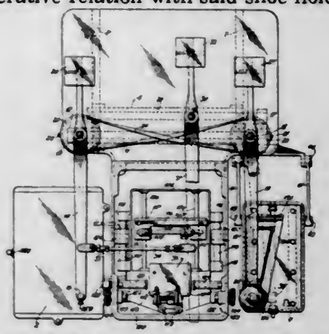
2,317,912
PNEUMATIC TIRE
Harold S. Howe, Detroit, Mich., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application March 12, 1941, Serial No. 382,915
10 Claims. (Cl. 152—356)



9. A pneumatic tire comprising tread and sidewall portions of rubber composition and a carcass composed of a plurality of plies of strain resisting textile elements at least one of the intermediate plies of textile elements in the region adjacent the first ply having a higher rupture resistance than either the first or outer ply.

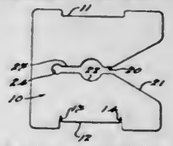
2,317,913
APPARATUS FOR FITTING SHOES TO FEET
Daniel F. Hyland, John C. Stiles, Hugo L. Brenner, and John Brenner, St. Louis, Mo., assignors to Arch-O-Graph Company, St. Louis, Mo., a corporation of Missouri
Application March 13, 1941, Serial No. 383,092
10 Claims. (Cl. 12—60)

1. In an apparatus of the character described, a foot-sole modeling device, supporting means for said device, means for adjusting said device on said supporting means so as to position its sole-modeling surface in accordance with the position of the foot sole when standing in a shoe having a heel, lift-forming means having a lift-blank holder, a shoe holder, means for mounting said device assembled on its supporting means in cooperative relation with said shoe holder and



said blank holder, means for positioning said mounting means and said shoe holder so as to position the modeling surface of said device and the inner sole surface of a shoe in said shoe holder in accordance with the position of a blank in said blank holder, and control mechanism for said forming means having guiding means engaging said sole-modeling surface and the inside sole surface of a shoe in said shoe holder.

2,317,914
TUFTING DEVICE
Marion McIntyre, Detroit, Mich.
Application February 15, 1941, Serial No. 379,057
2 Claims. (Cl. 223—44)



1. A tufting device comprising a member having spaced and opposed side edges about which yarn or the like is to be wound in side by side relation to form a series of adjacent windings, the member centrally between said side edges having a slot extending generally parallel to said edges so that the windings may be drawn together at their centers and tied and stiched to a base fabric by yarn or the like encircling the central parts of the windings through the slot, said slot intermediate its ends being enlarged to allow the drawn material to bunch together and against the base fabric, and the slot at either side of the enlarged portion being narrow on the order of the thickness of the tying yarn so that the latter is maintained at the center of the windings.

2,317,915
BODYING OF DRYING OILS
John D. Jenkins, Forest Hills, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
Application April 5, 1940. Serial No. 327,972
7 Claims. (Cl. 260—407)

1. A process of bodying without "break" formation raw drying oils from a class consisting of linseed and soy-bean oil, but containing "break-

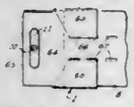
form" constituents, which process comprises continuously feeding unbodied raw drying oil into a pool of oil heated to the bodying temperature, substantially instantaneously admixing the feed oil with the oil of the pool and correspondingly withdrawing the bodied oil, the rate of feed and withdrawal of the oil being so adjusted that the desired degree of bodying is obtained while the oil is in the heated pool, and bubbling into the oil in the pool an inert gaseous medium, in order to remove free acids therefrom.

2,317,916
RAKE
Frances L. Kallal, Tofield, Alberta, Canada
Application February 25, 1942, Serial No. 432,329
1 Claim. (Cl. 56—400.1)



A garden tool comprising an elongated rectangular flat metal plate having a row of spaced apertures along its longitudinal median line, grooves in one face of said plate extending from said apertures to one edge of said plate, a tang attached to the other face of said plate intermediate its length and along one edge thereof, and a series of prongs seated in said grooves with one end bent to extend through said apertures and riveted therein, the opposite ends of said prongs extending beyond the edge of said plate to form teeth.

2,317,917
VENETIAN BLIND
Louis Kasan, New York, N. Y.
Application March 10, 1942, Serial No. 434,085
4 Claims. (Cl. 160—236)



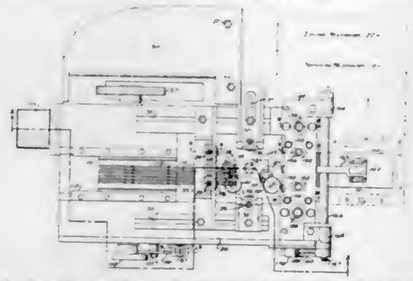
1. A Venetian blind slat comprising a pair of fittings for regulating the length thereof, a unitary median slat body having along each end thereof a plurality of dents, and said fittings situated at the ends of the slat having teeth for selectively engaging said dents to alter the length of the slat for installing the blind on windows of various widths.

2,317,918
INNER SOLE FOR WELT SHOES
William L. Knipe, Haverhill, Mass., assignor to Knipe Bros., Inc., Ward Hill, Mass., a corporation of Massachusetts
Application February 6, 1940, Serial No. 317,468
1 Claim. (Cl. 36—22)



An inner sole for welt shoes composed of a sole shaped top section of limp thin flexible sheet material having plane surfaces and being too thin for satisfactory channeling, and a sole-shaped bottom section of textile material having a downturned edge portion providing a lip for attachment to an upper and a welt and disposed on and coextensive with one of the plane surfaces of the top section, a reinforcing section of relatively stiff sheet material disposed between said sections and coextensive in width therewith and extending from the heel end approximately to the ball line and having its front end skived to a sharp edge, a line of stitching spaced from the edge of the sole shaped top section and extending through said textile material close to the downturned edge portion thereof for securing the top section, the textile bottom section and the intermediate stiff sheet material together from about the heel breast line on one side of the sole around the forepart to about the heel breast line on the other side of the sole, and a metal shank stiffener secured beneath and against the lower face of said textile section and extending from beneath the heel portion thereof and terminating at its front end closely adjacent but rearwardly of the ball line and beneath the reinforcing section, and in the rear of the skived portion thereof.

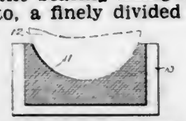
2,317,919
CAN MAKING MACHINE
Frank Krueger, Brooklyn, N. Y., assignor to E. W. Bliss Company, Brooklyn, N. Y., a corporation of Delaware
Application June 29, 1939, Serial No. 281,910
7 Claims. (Cl. 113—7)



3. In apparatus of the class described adapted to form flat blanks into container bodies, a first magazine adapted to receive and contain a stack of blanks, a second magazine spaced from said first magazine and adapted to receive and contain a stack of blanks, flexing means interposed between said magazines to break the grain of a blank, means for feeding blanks from said first magazine through said flexing means and into said second magazine, means for feeding blanks from said second magazine at a speed lower than that at which the blanks are fed from the first magazine, and means to render ineffective the feeding means for the first magazine when the stack of blanks in said second magazine reaches a predetermined level.

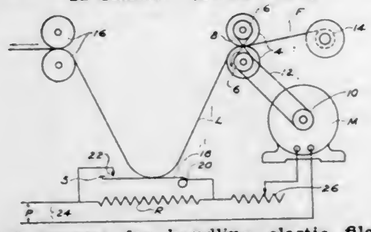
2,317,920
BEARING
Gustave E. Landt, Norristown, and John A. Petho, Perkiomenville, Pa., assignors to Continental-Diamond Fibre Company, Newark, Del., a corporation of Delaware
Application December 24, 1941, Serial No. 424,336
9 Claims. (Cl. 308—238)

1. A lining for bearings lubricated by an aqueous solution comprising a strong consolidated body of fibrous material impregnated with heat-hardened resinous material and having distributed through said resinous material, at least at the surface of the bearing lining and the region adjacent thereto, a finely divided relatively wa-



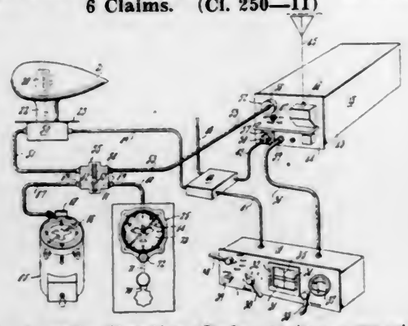
ter-insoluble neutralizing agent in sufficient amount and distribution to neutralize the acidity of the lubricant employed in the operation of the bearing.

2,317,921
PROCESS AND APPARATUS FOR HANDLING ELASTIC FILAMENTARY MATERIAL
John M. Leach, Fredericksburg, Va., assignor to Filatex Corporation, New York, N. Y., a corporation of New Jersey
Application March 21, 1941, Serial No. 384,514
11 Claims. (Cl. 28—71.5)



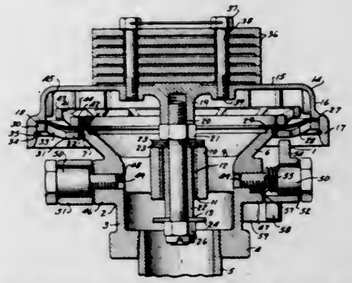
1. A process for handling elastic filaments comprising pulling an elastic filament from a package which necessitates varying the tension in the elastic filament, feeding the elastic filament at a definite rate into a zone in which the elastic filament is permitted to contract to and at all times remain under a substantially zero tension, increasing the feeding of the filament in direct proportion to the amount of contraction of the filament within the zone, the filament within said zone being free from any weight other than its own weight at all times, and feeding the filament from said zone to a using operation.

2,317,922
DIRECTIONAL RADIO SYSTEM
William P. Lear, Dayton, Ohio, assignor, by mesne assignments, to Lear Avia, Inc., Piqua, Ohio, a corporation of Illinois
Application December 28, 1940, Serial No. 372,059
6 Claims. (Cl. 250—11)



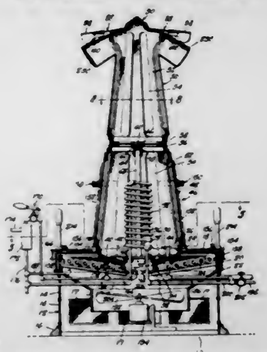
1. A radio direction finder system comprising a rotatable directional antenna, an electric circuit control unit positioned remotely from said antenna, said remote unit containing a reversible electric motor drive mounted therewith, a flexible mechanical shafting having one end connected to the output of said motor drive, a multiple coupling member connected to said shafting, a quadrantal error corrector coupled with said directional antenna, a plurality of indicators and individual flexible shafts extending from said member and mechanically connecting said corrector and said indicators in operative relation with said antenna and drive.

2,317,923
RELIEF VALVE
William H. Lebo and Roy L. Simpson, Kansas City, Mo.
Application March 18, 1940, Serial No. 324,574
6 Claims. (Cl. 137—53)



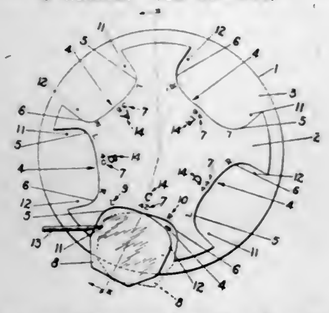
6. In a relief valve of the character described, a valve body having a circumferential seat, a flexible valving ring, means clampingly supporting the outer marginal edge of the valving ring, means movably carrying the clamping means on the valve body, and means yieldingly retaining the inner marginal edge of the valving ring for movement to and from said seat independently of movement of the supporting means.

2,317,924
GARMENT STEAMER
Carl R. Lendle, Youngstown, Ohio
Application February 6, 1942, Serial No. 429,831
10 Claims. (Cl. 223—70)



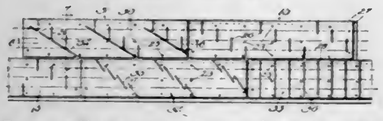
1. A garment steamer comprising a hollow form, steam pervious garment stretching bag means having communication with the interior of said hollow form, means for admitting steam to said hollow form for passage through said bag means and through a garment draped on the hollow form, said bag means comprising a plurality of bag units spaced about said hollow form, and said hollow form being pervious to steam throughout the spaces between said bag units.

2,317,925
GAUGE
Lawrence L. Lewis, Tucson, Ariz., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application May 28, 1940, Serial No. 337,691
7 Claims. (Cl. 33—174)



1. A device of the class described for determining the location at which a hole is to be drilled in a lens, comprising a base member and a gauge plate connected thereto, said gauge plate having a preshaped gauge recess with two symmetrical curves substantially identical one with the other, each of said symmetrical curves of the gauge recess preshaped to receive one lens of a pair of lenses, the straight line distance between the outer peripheral tips of the gauge recess being greater than the length of the horizontal meridian of either of the lenses of the pair of lenses which the gauge recess is adapted to receive, and an indicating means for each of said symmetrical curves.

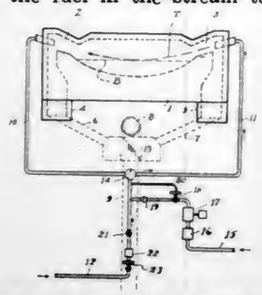
2,317,926
BUILDING CONSTRUCTION
Robert L. Lindahl, Chicago, Ill., assignor to The Celotex Corporation, Chicago, Ill., a corporation of Delaware
Application December 16, 1939, Serial No. 309,518
3 Claims. (Cl. 20—5)



1. In a wall structure in combination with an outside surface thereof, facing units applied thereto, such facing units on their rear faces beveled along their vertically directed edges whereby passages are formed between the rear faces of the facing units and the surface of the wall structure, additional recesses in the rear faces of the facing units and providing communication between the aforesaid passageways and providing for the drainage of moisture from and for a slight circulation of air between the rear faces of the facing units and the surface of the wall structure.

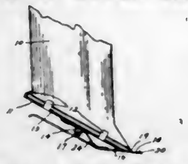
2,317,927
COMBUSTION CONTROL
Fred H. Loftus, Pittsburgh, Pa.
Application November 19, 1941, Serial No. 419,713
3 Claims. (Cl. 158—117.5)

1. In the operation of a furnace in which a flame-sustaining stream of fuel having an adulterant mixed therewith is projected into the furnace chamber, the method of regulating the heat of the flame while holding the flame to a substantially constant trajectory which comprises regulating the fuel in the stream to alter the



heat-producing value thereof, and under the influence of the pressure of said stream automatically regulating the adulterant in the stream to hold the velocity of the stream substantially constant.

2,317,928
ATTACHMENT FOR HAIR CLIPPERS
Arnold Timothy Martell, Vancouver, British Columbia, Canada
Application February 13, 1942, Serial No. 430,817
7 Claims. (Cl. 30—200)



7. In combination, a hair clipper, a comb pivotally attached to the working face of said clipper, the teeth of said comb being disposed beneath and in registering relation to the teeth of the clipper, and yieldable means normally holding the teeth of said comb in spaced apart relation to the teeth of said clipper.

2,317,929
HAIR CURLER
Ross McFadden, Hollywood, Calif.
Application January 5, 1943, Serial No. 471,384
4 Claims. (Cl. 132—41)



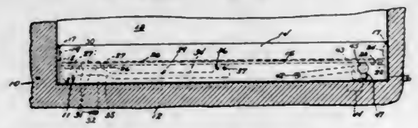
1. A hair-curling or winding appliance, embodying a plastic shell of a tubular configuration transversely perforated adjacent one end, the peripheral edge of the opposite end of said shell having diametrically oppositely disposed contour variations, a plastic sleeve having a surface conformed for registration with a complemental portion of the surface of said shell, said sleeve being transversely apertured adjacent one end thereof, a clasp composed of resilient plastic material embodying laterally spaced side sections connected by an end-forming surface, the opposite ends of said side-forming sections being disassociated and provided with oppositely disposed projections having cylindrical bearing sections terminating in knob-like head portions, the side-forming sections of said clasp being relatively expandable for alinement of said projections with the alined apertures of said sleeve and shell, for the entry of the head portions of said projections through said alined apertures under pressure to inseparably interconnect said sleeve and said shell for relative hinged movement on the bearing sections of said projections, said clasp being arcuately rotatable relative to said sleeve and said shell, said clasp in the zone of said end-forming surface having surfaces projecting inwardly thereof and conformed for interlocking engagement with the contour variations of the periphery of the free end of said shell, in response to the elongation of said clasp by compression of the opposite side-forming sections thereof, to locate said latter inwardly projecting surfaces of the clasp in alinement with the contour variations in the edge of the free end of the shell, whereby the release of the side-forming sections of the clasp from compression forces will permit the clasp to react to its normal length and interlockingly engage said inwardly projecting surfaces of the clasp with the contour variations in the free end of the shell, to secure said clasp to said shell in superposed relation to said sleeve.

2,317,930
BARRETTE
Ross McFadden, Hollywood, Calif.
Application January 5, 1943, Serial No. 471,385
6 Claims. (Cl. 132—48)



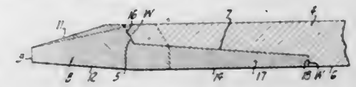
1. A barrette of plastic material having a rigid body curved longitudinally and provided with a series of projections on its inner surface, a tongue of flexible material hinged to said body adjacent one end thereof, for relative arcuate movement, a protuberance in juxtaposition to the opposite end of said body, the sides of said protuberance being undercut between the head and base thereof, the free end of said tongue embodying an elongated opening having defining surfaces converging toward the inner end thereof, whereby said tongue may be engaged with said protuberance and interlocked therewith in the distortion of said tongue in a longitudinal direction, to engage said converging opening-defining surfaces with the undercut portion of said protuberance.

2,317,931
FITTING FOR DOORS
Robert A. Miller, Tarentum, and Merle M. Eakins, Ford City, Pa., assignors to Pittsburgh Plate Glass Company, a corporation of Pennsylvania
Application May 8, 1940, Serial No. 333,986
5 Claims. (Cl. 20—16)



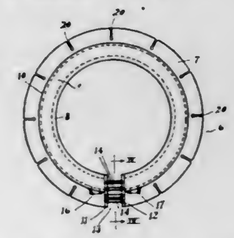
2. A door construction comprising a door panel and a hinge fitting for the panel, the panel having a plurality of notches formed in two edges at one end thereof, the hinge fitting comprising a shoe engaging both of said edges and having key elements secured therein and engaging the notches to secure the shoe from displacement from the panel.

2,317,932
REPLACEMENT POINT FOR REBUILDING DRAGLINE BUCKET TEETH
Leroy M. Moore, Folsom, Calif.
Application June 21, 1941, Serial No. 399,077
2 Claims. (Cl. 37—142)



1. A replacement facing point for a worn ground cutting tooth comprising a metal plate having a cutting face along the forward edge thereof, said plate having a substantially flat face on one side thereof and on the other side tapering rearwardly from said edge to provide a thickened mid-section in said plate, said thickened mid-section terminating abruptly to provide an arcuate wall extending transversely of said other side of said plate, said other side including a portion tapering rearwardly from the base of said wall, to a thickness materially less than the thickness of said wall.

2,317,933
FURNACE ELECTRODE GLAND
William E. Moore, Pittsburgh, Pa., assignor to Delaware Engineering Corporation, Pittsburgh, Pa., a corporation of Delaware
Application October 31, 1941, Serial No. 417,261
4 Claims. (Cl. 13—17)

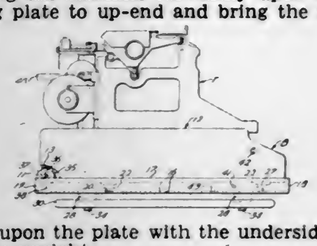


4. For use in an electric furnace having a refractory roof and an eye in the roof, through which an electrode is passed, a furnace electrode gland resting on the roof and encompassing the electrode, said gland being fabricated from wrought metal parts which enclose a water passage of incomplete ring form, wrought metal end pieces closing the water passage, and spaced apart circumferentially, and at least one spacer of non-magnetic material extending between and secured to the end pieces, the remaining space between the end pieces being filled with refractory material.

2,317,934
BUSINESS MACHINE MOUNTING MEANS
Charles R. Mourey, Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application February 12, 1942, Serial No. 430,567
5 Claims. (Cl. 248—19)

1. In business-machine mounting-means, the combination with a supporting-plate upon which the machine is adapted to rest in normal position, of wheel-means journaled on the machine on a transverse axis near the back and bottom of the machine and adapted to engage the supporting plate for turning the machine upwardly and rearwardly about said axis and concurrently

wheeling the machine forwardly upon the supporting plate to up-end and bring the machine



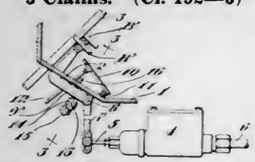
to rest upon the plate with the underside of the machine upright.

2,317,935

MOTOR VEHICLE CONTROL MECHANISM

Simon Myerson, Brookline, Mass.

Application July 16, 1941, Serial No. 402,619
3 Claims. (Cl. 192—3)



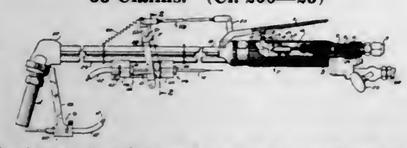
1. In a motor vehicle of the kind having a power plant, a brake system, a foot pedal for controlling the admission of fuel to the power plant, and a foot pedal for actuating the brake system, a rock-lever having one arm disposed for engagement by the brake-actuating pedal when the latter is depressed, said lever having a second arm and a lifter device connected thereto, said lifter device being constructed and arranged to engage and to lift the fuel supply pedal from depressed position upon depression of the brake-actuating pedal.

2,317,936

APPARATUS FOR CUTTING OR FLAME-MACHINING METAL

William Bryce Nicholson and Everett P. Jones, Elizabeth, N. J., assignors to The Linde Air Products Company, a corporation of Ohio

Original application June 11, 1937, Serial No. 147,696, now Patent No. 2,205,890, June 25, 1940. Divided and this application October 29, 1938, Serial No. 237,630
35 Claims. (Cl. 266—23)



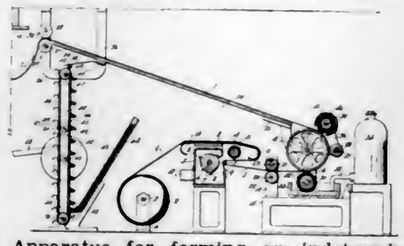
1. Apparatus for performing a metal-removing operation such as cutting, desurfacing or deseaming a ferrous metal body, said apparatus comprising, in combination, a blowpipe including nozzle means having outlets for delivering a heating medium adapted to heat a surface portion of the metal body to provide a starting zone thereon, and also for delivering an oxidizing gas stream against said zone; starting mechanism associated with said blowpipe including feeding means adapted when actuated to advance a small measured portion of fusible and oxidizable metal toward the nozzle means, and supporting means for supporting a supply of said metal and for holding such advanced portion in front of the outlets of said nozzle means until said portion is heated to its ignition temperature by said heating medium and burned in the oxidizing gas stream at the start of the metal-removing operation to produce exothermic heat to supplement the heat of the heating medium and thereby more quickly heat the starting zone to the combustion temperature.

2,317,937

APPARATUS FOR HANDLING HAT FUR CARRIER MATERIAL OR THE LIKE

Robert H. Plass, Upper Montclair, N. J.

Application January 19, 1940, Serial No. 314,603
8 Claims. (Cl. 271—2.2)



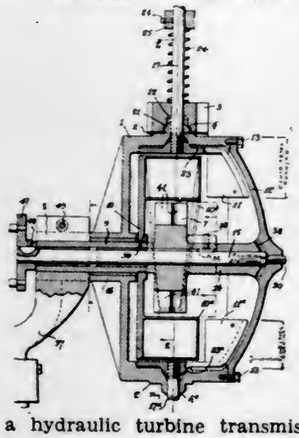
1. Apparatus for forming an indeterminate running length of flexible material into rod supported dependent looped folds and depositing the same onto conveyer means comprising, means for advancing the material toward the conveyer means, a pivoted oscillatable transfer means swingable between said material advancing means and the conveyer means, said transfer means having members to releaseably grip and support opposite ends of a rod so as to carry the rod beneath and into supporting engagement with a material portion issuing from the material advancing means, whereby to drape said material portion over the rod and thereupon deliver the rod onto the conveyer means, and synchronously operated means for successively carrying and delivering rods in spaced relation from a supply thereof to a position subject to engagement by the rod gripping and supporting members of said transfer means.

2,317,938

HIGH-SPEED HYDRAULIC TURBINE TRANSMISSION OR DRIVE

Harlie O. Putt, Elkhart, Ind.

Application July 31, 1940, Serial No. 348,866
14 Claims. (Cl. 170—62)



1. In a hydraulic turbine transmission, the combination of a support, a hollow shaft held stationary by the support, stationary tapered nozzles affixed to the hollow shaft, an inner rotatable shaft mounted in the hollow shaft, a rotor on said inner rotatable shaft, a coupling attached to the end of said inner rotatable shaft, a circular housing rotatably mounted on the hollow shaft and in which the aforesaid inner rotatable shaft is loosely mounted, said circular housing enclosing the aforesaid tapered nozzles, a plurality of control rods adapted to carry wind-driven propeller blades radially mounted in said circular housing, vanes within the circular housing affixed to the inner ends of said rods, and spring mechanism tending to hold the vanes and rods in a predetermined but variable position.

2,317,939

INFLATED BALL AND METHOD OF MAKING SAME

John T. Riddell, Evanston, Ill.

Application May 6, 1940, Serial No. 333,625
3 Claims. (Cl. 154—16)



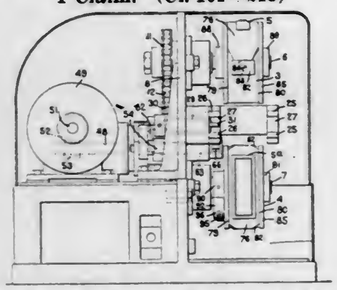
1. The method of making a ball which consists in stitching together a plurality of flat fabric sheets of developed spheroidal polygon form in abutting edge-to-edge relation to one another to form a flush-seamed shell of uniform thickness throughout, inserting and inflating a bladder therein, coating and filling the outer surface of said inner casing with cement, and then adhesively covering said outer surface with sheets of leather.

2,317,940

MARKING MACHINE

Charles F. Robbins and David F. Putnam, Keene, N. H., assignors to Markem Machine Company, Keene, N. H., a corporation of New Hampshire

Original application February 5, 1941, Serial No. 377,446. Divided and this application July 17, 1941, Serial No. 402,760
1 Claim. (Cl. 101—218)



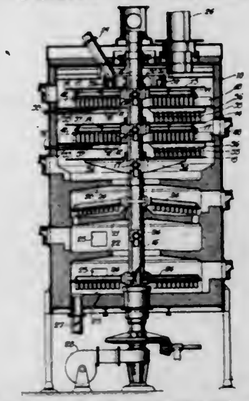
A marking machine comprising a frame, two non-axial parallel shafts journaled therein, each shaft having a free end projecting beyond the frame, a type-carrying member removably carried on the free end of each shaft, said type-carrying members being situated in the same vertical plane, a transfer roll, means mounting said transfer roll in position to receive an ink impression from both type-carrying members simultaneously, two clamping collars screw-threaded to one of said shafts and between which the corresponding type-carrying member is situated, said type-carrying member being splined to the shaft, said collars providing for adjustment of said type-carrying member on the shaft in an axial direction only and the outer collar being removable from the free end of the shaft thereby to permit removal of the type-carrying member from said free end, a fixed collar fast on the other shaft between the corresponding type-carrying member and the frame, a clamping collar screw-threaded to the free end of said other shaft and clamping said other type-carrying member against said fixed collar thereby to lock said member against movement in a direction axially of the shaft, said screw-threaded collar being removable from the free end of said other shaft to permit removal of the type-carrying member, said fixed collar having two arms and said other type-carrying member having a projection situated between said arms, and an adjusting screw carried by each arm and engaging said projection whereby said other type-carrying member may be adjusted angularly about its shaft only.

2,317,941

INCINERATION OF LIQUID SLUDGE OR THE LIKE

Robert W. Rowen, Great Neck, N. Y., assignor to Nichols Engineering & Research Corporation, New York, N. Y., a corporation of Delaware

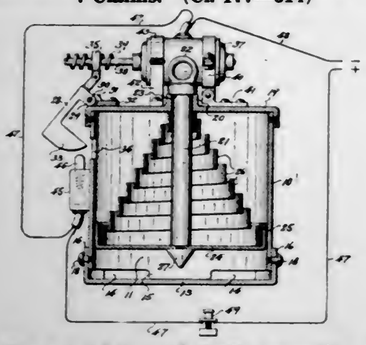
Application March 24, 1941, Serial No. 384,909
4 Claims. (Cl. 110—12)



1. Apparatus for drying and incinerating liquid or semi-liquid sludge material, comprising a plurality of superposed stationary drying hearths of metal, a plurality of lower superposed burning hearths of refractory material, said hearths being arranged with generally similar spacings vertically within enclosing furnace walls, a rotatable central shaft carrying rabbling means for agitating and advancing the sludge over said hearths and from hearth to hearth down through the furnace, a plurality of superposed rotatable drying hearths of metal, mounted on said shaft in positions alternating with said stationary drying hearths and supported by certain of said rabbling means, and stationary rabbling means secured to the under sides of said stationary drying hearths for rabbling and advancing the sludge on said rotatable hearths, all of said hearths being constructed and arranged to provide ports permitting air and evolved gases to

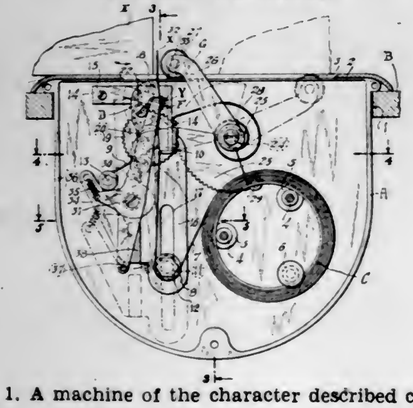
pass alternately inwardly and outwardly of succeeding hearths and upwardly through the furnace countercurrent to the travel of the sludge.

2,317,942
IRRITANT GAS DISCHARGE DEVICE
Frederick Sabini, Salem, N. J.
Application October 4, 1941, Serial No. 413,704
7 Claims. (Cl. 177—314)



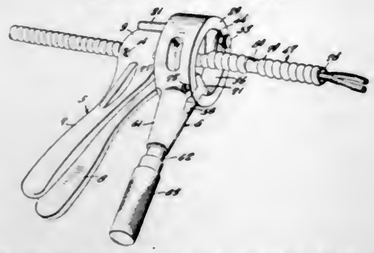
1. For a hold-up and theft prevention system or the like, a device for discharging an irritant gas comprising, a casing providing a chamber for holding a frangible gas container, said casing having gas egress means leading from the lower portion of said chamber, spring actuated means operative within said casing chamber adapted upon release to shatter the gas container, said means including a piston conformable to the cross-sectional area of said chamber and adapted on descent to expel the liberated gas through said gas egress means, a detent means for normally holding said spring actuated means and piston upraised above the gas container deposited within said chamber, electro-mechanical means for releasing said detent means, a normally open electric control circuit serving said release means, said circuit including means to close the same as occasion may require, and said circuit further including a circuit breaker adapted to be normally closed by said detent means when the latter occupies its operative position.

2,317,943
GUMMED TAPE DISPENSER AND APPLIER
Leroy L. Salfisberg, South Orange, N. J., assignor to Ivers-Lee Company, Newark, N. J., a corporation of Delaware
Application April 9, 1942, Serial No. 438,267
16 Claims. (Cl. 216—29)



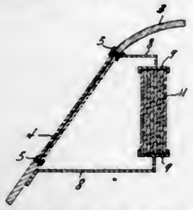
1. A machine of the character described comprising means for feeding a piece of adhesive material into a predetermined position to be engaged by an article upon movement of the latter in one direction, means for applying said piece of material to said article upon movement of the article in said direction, and an operative connection between said feeding means and said applying means for actuating said feeding means.

2,317,944
CUTTING TOOL FOR BX ARMORED CABLE AND TUBING
Joseph K. Schaefer, Hollywood, Calif.
Application October 11, 1940, Serial No. 360,849
8 Claims. (Cl. 30—96)



1. A cutter for tubing and the like, said cutter comprising a manual tubing holding section including pivoted jaws and a tubing cutting section in side by side relation with the tubing holding section, a cutter in the cutting section, a reduced work-holding extension on the tubing holding section projecting into the cutting section and terminating in close proximity to the cutter to support the work in the region of the cut made therein, and assembling means supportably connecting said holding and cutting sections for rotation and transverse movement relative to each other.

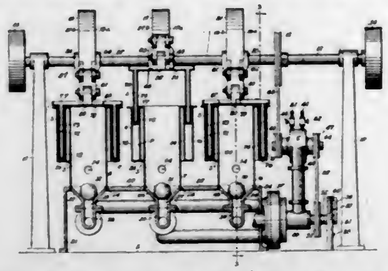
2,317,945
BULLET RESISTANT GLAZING UNIT
James Hervey Sherts, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
Application October 10, 1940, Serial No. 360,579
3 Claims. (Cl. 109—58.5)



1. In an airplane having a bullet resisting pilot compartment, a front sloping glass windshield constituting an outer wall section of the compartment and capable of causing tumbling of a bullet penetrating it, an inner laminated safety glass unit disposed substantially vertically in the compartment behind the windshield at a distance therefrom sufficient to permit tumbling of a bullet penetrating the windshield before it strikes said safety glass unit, and a frame engaging the edges of the unit and supported in said compartment.

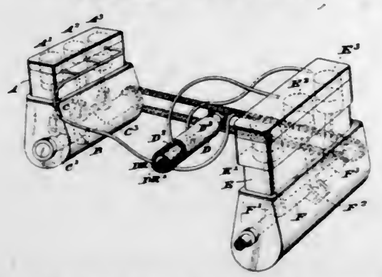
2,317,946
INTERNAL COMBUSTION ENGINE
Edwin C. Silvey, Jamaica, N. Y.
Application July 3, 1942, Serial No. 449,551
6 Claims. (Cl. 123—50)

5. An internal combustion engine comprising a cylinder surrounded in spaced relation thereto by an annular pocket, a piston overlying one end of said cylinder and having an annular vane extending into said pocket and dimensioned with respect to such pocket for free longitudinal displacement therein incident to corresponding movement of said piston, said vane bieng provided substantially throughout its length with



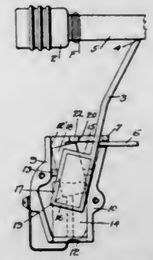
an annular air space and forming with the walls of said pocket a slow-escape passage for exhaust, and means for effecting successive explosions of combustible fuel within said cylinder incident to each of which said piston is moved outwardly and pursuant to each of which exhaust escaping by way of said passage is utilized to effect a reactionary force on said piston.

2,317,947
FUEL INJECTION SYSTEM FOR USE IN MULTICYLINDER COMPRESSION-IGNITION ENGINES
Sydney Hinchcliffe, Wylam-on-Tyne, England
Application February 13, 1941, Serial No. 378,834
In Great Britain March 15, 1940
3 Claims. (Cl. 123—139)



1. In a fuel injection system for multicylinder compression-ignition engines comprising a plurality of engine cylinders, pistons and injectors in said cylinders, injection pump means, pump cylinders in said injection pump means connected to said injectors, and cams actuating said injection pump means, the construction which comprises a distributor for delivering fuel oil to the injectors, said distributor comprising a stator having a plurality of ports communicating respectively with the injectors, and a rotor inside said stator, said rotor having a port communicating with the delivery side of the fuel pump means, and adapted to communicate in sequence with said stator ports, the cams and rotor port being constructed and timed so that when the cams rotate in a clockwise direction the clockwise face of a particular cam coacts with its pump means and through the distributor with a particular injector while when the cams rotate in the counterclockwise direction the counterclockwise face of another cam coacts with its pump means and through the distributor with the said particular injector.

2,317,948
FILLING FEELER MECHANISM
Carl D. Brown, Hopedale, and Richard E. Chard, Milford, Mass., assignors to Draper Corporation, Hopedale, Mass., a corporation of Maine
Application September 26, 1941, Serial No. 412,481
18 Claims. (Cl. 139—274)



1. In a feeler mechanism for looms having a shuttle, the combination of a side slipping filling feeler mounted for feeling movement transverse to the shuttle and side slipping movement longitudinally thereof, and relatively movable magnetic bodies at least one of which is magnetized, said feeler being connected to one of said bodies and the other of said bodies being constructed and arranged to yieldingly resist said feeling movement and to thereafter return said feeler to normal feeling position.

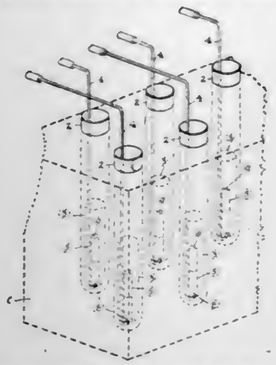
2,317,949
PRODUCTION OF ALCOHOLS
Robert E. Burk, Cleveland Heights, Ohio, assignor to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application December 28, 1939, Serial No. 311,387
7 Claims. (Cl. 260—638)

1. In a process of making alcohol, absorbing ethylene in a mixture of concentrated acetic and sulphuric acids at super-atmospheric pressure and temperature between 0° C. and decomposition temperature of the product, after acetate formation volatilizing and separating the ethyl acetate in the mixture under conditions avoiding over-heating, hydrolyzing the ester with water in amount limited to not substantially above hydrolytic requirements, distilling the resultant ethyl alcohol, stripping the residual liquid by passing therein anhydrous ethyl acetate and returning the concentrated acetic acid so produced to the absorbing zone, and returning the ethyl acetate and water mixture to the hydrolyzing zone.

2,317,950
OIL TESTING APPARATUS
Robert E. Burk, and Everett C. Hughes, Cleveland Heights, Ohio, assignors to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio
Application April 25, 1940, Serial No. 331,624
4 Claims. (Cl. 73—51)

1. Means for testing oils, comprising a noncatalytic container for a selected amount of the oil, a jet for injecting air thereinto at a controlled rate, a circulating passway system including an outer catalytic sleeve of steel, an

ing an outer catalytic sleeve sleeve of steel, an inner catalytic sleeve of steel and aluminum and



a copper divider therein, and means for maintaining the container and contents at a selected elevated temperature.

2,317,951

FRACTIONAL DISTILLATION MEANS

Robert E. Burk, Cleveland Heights, Ohio, assignor to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio

Application October 18, 1940, Serial No. 361,706

5 Claims. (Cl. 261—112)



1. Apparatus of the character described, which comprises a unit having multiple unobstructed narrow ascending vapor passways with walls providing smooth continuous free drainage of liquid in film and formed by closely spaced sheet stock with spacing means inhibiting entrainment of liquid, said means comprising pressed spacing dents stream-lined in the direction of liquid flow, such passways being open below to a space for an input and open above to a space for off-take.

2,317,952

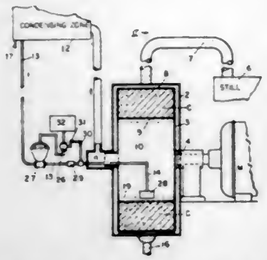
FRACTIONAL DISTILLATION

Robert E. Burk, Cleveland Heights, and Einar Kropp, Cleveland, Ohio, assignors to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio

Application November 1, 1940, Serial No. 363,854

18 Claims. (Cl. 261—83)

1. In apparatus of the character described, a rotatable fluid-pervious annular mass, means for rotating same, a connection for passing vapors from the space within said annular mass to a condensing zone, and a connection entering coaxially for returning reflux liquid and being bent to deliver the liquid tangentially on the inner periphery of said annular mass in the direction of its rotation.



7. In a process of separating substances having different boiling temperatures by moving liquid in film form by centrifugal force over irregular surfaces travelling in an annular path and forcing vapors of higher temperature than the liquid in countercurrent flow thereto through the interstices between the films on the irregular surfaces, establishing a rotating annular layer of reflux liquid on the inner periphery of the annular traveling irregular surfaces, and maintaining a desired depth of the annular layer of liquid by means responsive thereto governing the amount of reflux fed to such annular layer of liquid.

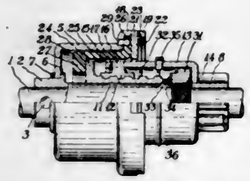
2,317,953

ENGINE STARTER GEARING

James E. Buxton, Elmira Heights, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application March 28, 1941, Serial No. 385,716

13 Claims. (Cl. 74—7)



1. In an engine starter, a power shaft, a sleeve fixed thereon, a driving head rigidly connected to the sleeve, a screw shaft having a driven head slidably journalled on the sleeve, a nut threaded on the screw shaft, a pinion slidably journalled on the power shaft and rigidly connected to the nut, a stop on the sleeve defining the operative position of the pinion, and a cylinder of elastically deformable material connected at its ends to the driving and driven heads respectively and yieldingly resisting separation of said driving and driven heads.

2,317,954

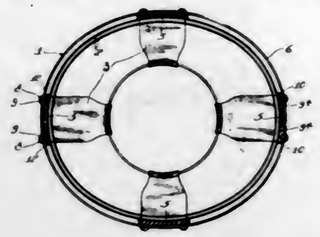
PROTECTIVE HAT

George H. Deike, Jr., Wilkinsburg, Pa., assignor to Mine Safety Appliances Company, Pittsburgh, Pa.

Application July 29, 1940, Serial No. 348,265

7 Claims. (Cl. 2—3)

1. A protective head gear comprising a crown member, a headband member, one of the members having a means to secure the headband to the crown including a headed resilient means attached to one of the members and inserted



through an aperture in the other member and engaging a surface thereof.

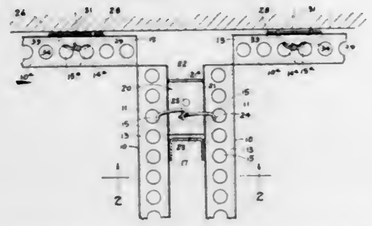
2,317,955

BUILDING CONSTRUCTION

Donald M. Donley, Macedonia, Ohio, assignor to The Donley Brothers Company, Cleveland, Ohio, a corporation of Ohio

Application August 10, 1940, Serial No. 352,105

12 Claims. (Cl. 72—46)



11. In a building construction, the combination, with a wall foundation and a vertically disposed partition member, of a base screed comprising two sections each having a vertically disposed web provided with perforated top and bottom flanges extending therefrom, the bottom flange of each section being upwardly inclined, the said webs being arranged at substantially right angles to and continuous with each other, and means for anchoring one of said screed sections in operative relation to its cooperating wall foundation and the other of said screed sections in operative relation to its cooperating partition member, with its top flange in proximity to the said member, the means for anchoring the screed sections in operative relation to their respective cooperating wall foundation and partition member comprising clips having each a body portion and an angular projection, the said clips being secured in position with their respective angular projections located beneath an inclined bottom flange of a screed section, and a wire having a portion extending beneath the angular projection of each of said clips and thence through openings in the top and bottom flanges of their respective sections, the upper ends of both portions of the wires being secured together.

2,317,956

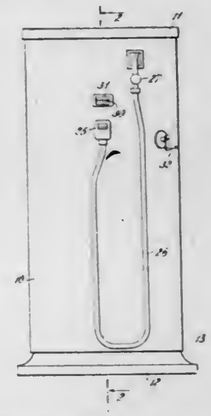
LIQUID DISPENSING MECHANISM

Edward R. Eichner, Montclair, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York

Application September 13, 1941, Serial No. 410,685

2 Claims. (Cl. 221—95)

1. In gasoline dispensing apparatus, a housing mounted for angular displacement about a vertical axis, a dispensing hose anchored in said housing for rotation therewith, a drum register in the housing, and means for supporting said drum register for rotation with said housing and for driving it with respect to said housing in response to the dispensing of gasoline, said last-named means being supported in and fixed for rotation with said housing, said housing having at least two sight openings therein for viewing the drum register therethrough, one of said sight



openings being adjacent the point of passage of the hose through the housing and the other being disposed a fixed angular distance away from the first in a position to be viewed by the operator of an automobile being serviced, whereby, when the housing is rotated to place the hose in dispensing position, the drum register and sight openings are bodily moved therewith, without change in relative position, to viewing position, while the drum register is rotatable relative to the sight openings in response to action of the driving means.

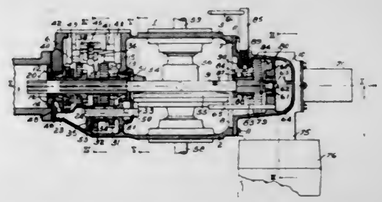
2,317,957

POWER TAKE-OFF

Conrad E. Frudden, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware

Application May 19, 1939, Serial No. 274,519

11 Claims. (Cl. 74—11)



1. A double power take-off attachment for a tractor having a power driven shaft projecting through an opening in its rear housing structure and a pinion mounted on said shaft, said power take-off attachment comprising a cap housing having an open side adapted to be secured to said housing structure over said opening thereof; an implement drive shaft journaled in said cap

housing below the axis of said power driven shaft and extending through a wall portion of said cap housing opposite to said open side thereof; a pulley shaft mounted on said cap housing for rotation about an axis extending transversely of the axis of said implement drive shaft; gearing within said cap housing drivingly connecting said implement drive shaft with said pulley shaft; a spur gear adapted to mesh with said pinion, secured to said implement drive shaft within said cap housing; and a bearing for said power driven shaft, within said cap housing in proximity to the periphery of said spur gear; whereby lubricant retained within said rear housing structure by said cap housing and elevated by said spur gear will become effective to lubricate said bearing.

2,317,958

EMULSIFYING CHEESE

James D. Ingle, Chicago, Ill., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware

No Drawing. Application October 30, 1939, Serial No. 301,945

7 Claims. (Cl. 99—117)

2. The method of processing cheese which comprises adding to cheese from 1 per cent to 5 per cent calcium lactate, agitating the mass, and heating the mass to a temperature of from 130 degrees to 180 degrees F. to produce a soft cheese emulsion having a smooth body and texture.

2,317,959

BITUMINOUS COMPOSITION

James M. Johnson and Earl C. Brown, New York, N. Y., assignors to Nostrip, Inc., a corporation of Delaware

No Drawing. Application March 1, 1941, Serial No. 381,398

14 Claims. (Cl. 106—269)

1. A bituminous composition characterized by thoroughness of contact and lasting adherence to stony aggregate incorporated in wet condition, the composition being substantially anhydrous and comprising an asphaltic material, a water insoluble soap, and an amide of a higher fatty acid constituting an emulsifier adapted, when in contact with the insoluble soap and water, to cause the formation of emulsions of the water-in-oil type.

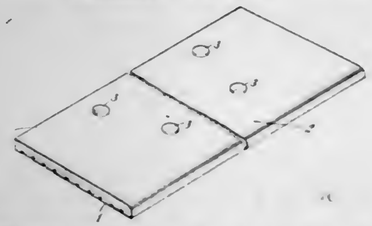
2,317,960

MANUFACTURE OF TREADS

William H. Sayre, Essex Fells, N. J., assignor to American Abrasive Metals Company, Irvington, N. J., a corporation of New York

Application March 31, 1941, Serial No. 386,081

8 Claims. (Cl. 94—5)



1. The method of forming a non-slip, wear-resistant tread which comprises wetting abrasive-resistant particles with liquid resin, mixing the wetted abrasive-resistant particles with powdered resin and fibrous material, and curing said mixture to provide a hard tread surface of synthetic resin having abrasive-resistant particles and fibrous material embedded therein and bonded thereto.

2,317,961

METHOD OF PREPARING A CALCINED NON-SLAKING DOLOMITIC MATERIAL FOR REMOVING CARBON DIOXIDE FROM WATER

Frederick Tschirner, Medford, N. J., assignor to Medford Engineering Co., Medford, N. J., a corporation of New Jersey

No Drawing. Application May 18, 1940, Serial No. 336,007

4 Claims. (Cl. 252—175)

1. The method of making a prepared non-slaking dolomitic material which is suitable for removing carbon dioxide from water, which is stable in air and non-acid water, and which is completely used up in water containing carbon dioxide, which comprises, heating dolomite of a particle size of approximately $\frac{1}{8}$" to $\frac{3}{8}$" to a temperature of about 780 to 880° C. until substantially all the magnesium carbonate is converted to magnesium oxide and about 4 to 8% of calcium oxide is formed from the calcium carbonate, and immediately quenching the hot material with water to reduce its temperature down to about 250° C. where internal exchange of carbon dioxide or effects from carbon dioxide of the air cannot occur.

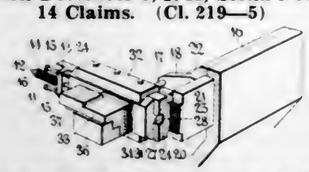
2,317,962

WELDING MACHINE ELECTRODE

Otto W. Winter, Grand Island, N. Y., assignor to Columbus McKinnon Chain Corporation, Tonawanda, N. Y., a corporation of New York

Application December 3, 1941, Serial No. 421,479

14 Claims. (Cl. 219—5)



1. In a chain link welding machine, the combination with link turning means and link upset tools, of electrode mountings arranged one at each side of the ends of the link, each comprising an electrode, sliding means for moving said electrode into electric contact with the link, and connecting means interposed between the electrode and said sliding means and having at least two relatively movable parts, one part carrying said electrode and being capable of relative movement with the other part at substantially right angles to the movement of said sliding means.

7. An electrode mounting for chain welding machines, comprising an electrode clamp slide movably carried by said machine, means carried by said clamp slide and arranged for movement therewith and in a direction at substantially right angles thereto, an electrode carried by said means, and means for actuating said clamp slide.

2,317,963

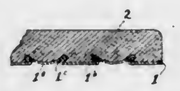
REINFORCED TREAD

Homer H. Bashore, Morrisville, Pa., assignor to American Abrasive Metals Company, Irvington, N. J., a corporation of New York

Application March 31, 1941, Serial No. 386,076

8 Claims. (Cl. 18—59)

1. A reinforced tread made up of a tread portion and a reinforcing backing, the tread portion comprising abrasion-resistant particles suitably bonded to form a non-slip, wear-resistant tread portion, and the backing being in the form of a resilient, sheet metal backing with projections interlocking the tread portion thereto, said resilient sheet metal backing having alternating flat and irregular rounded portions parallel to each other and with angular portions of double thickness intermediate the flat and rounded portions and connected thereto, said angular portions being at an acute angle to the flat portions and extending into the tread portion and forming the interlocking projections therewith, and the tread portion being of similar density on both sides of said angular intermediate portions of the backing.



3. The method of producing a reinforced, non-slip, wear-resistant tread which comprises subjecting to high pressure a resilient, open channeled, sheet metal backing and a tread composition comprising abrasive particles and a binder therefor, the pressure being sufficient to mold the tread composition and to convert the open channeled backing into a flattened, closed channeled backing, said sheet metal backing having alternating flat portions and intermediate angular portions connecting them and being converted by the molding pressure into a backing having alternating flat and irregular rounded portions parallel to each other and with angular portions of double thickness intermediate the flat and rounded portions and connected thereto and arranged at an acute angle to the flat portions and extending into the tread composition.

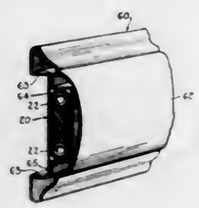
2,317,964

ELECTRICAL WIRING SYSTEM

Joseph F. O'Brien, Jersey City, N. J., assignor to John B. Pierce Foundation, New York, N. Y., a corporation of New York

Original application December 19, 1939, Serial No. 309,941. Divided and this application September 13, 1941, Serial No. 410,676

6 Claims. (Cl. 174—101)



2. An electricity conductor unit comprising, in combination, an outer member simulating building molding and having rearwardly positioned flanges, said flanges and the front wall of the outer member defining a substantially three-sided hollow structure, a closure plate engageable with said flanges for closing said structure, a channel-formed plate mounted on said closure plate and defining therewith a pocket disposed internally of said hollow structure, and electricity conductor means removably contained within said pocket and coextensive with said outer member.

2,317,965

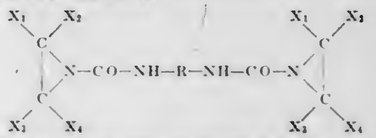
PROCESS OF COLORING FIBROUS MATERIALS AND THE MATERIALS OBTAINED THEREBY

Herbert Bestian, Joseph Nüsslein, and Josef Monheim, Frankfort-on-the-Main, Germany, assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application April 27, 1940, Serial No. 332,015. In Germany May 27, 1939

2 Claims. (Cl. 8—74)

1. The process of coloring fibrous materials which comprises applying to the material at any stage of the coloring operation a compound of the general formula



wherein R stands for a member of the group consisting of alkylene, arylene, aralkylene, cycloalkylene and alkylenes the chains of which contain hetero atoms, and X_1, X_2, X_3 and X_4 stand for substituents selected from the group consisting of hydrogen, alkyl, aryl and aralkyl radicals and polymerizing the monomeric compound.

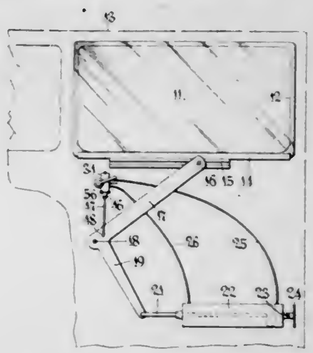
2,317,966

WINDOW OPERATING MECHANISM

Richard W. Treverton, Buffalo, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.

Application October 15, 1941, Serial No. 415,103

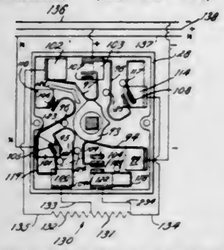
3 Claims. (Cl. 268—125)



1. In a window and operating mechanism therefor, a fluid pressure operated actuating device and a vertically slidable window movable thereby to and from an elevated closed position through a bell crank transmission, a valve for controlling application of a fluid pressure differential to said device for causing movement of the window between opened and closed positions, said valve comprising a manually operable member movable to any of a plurality of positions to apply said fluid pressure differential to the device, and a member operatively connected to the bell crank adjacent its pivotal mounting and movable in accordance with movement of the

window for cutting off the application of the pressure differential when the window reaches a position corresponding to the position of said manually operable member.

2,317,967
ELECTRIC HEATER CONTROL
William R. Tuttle, Riverside, Ill., assignor to Tuttle & Kift, Inc., Chicago, Ill., a corporation of Illinois
Application November 22, 1937, Serial No. 175,797
14 Claims. (Cl. 219—20)



13. In an electrical heating apparatus connectible to a plurality of conductors different pairs of which provide different electromotive forces, the combination of a plurality of resistors, switch means having a plurality of independently movable elements and a common operating means by which said elements are selectively operable, and means, including electrical connections, so constructed and arranged that said switch means is adapted for different positions of said common operating means respectively to selectively interconnect two of said resistors conjointly or one of said resistors alone with each of two different conductor pairs providing relatively high and low electromotive force respectively.

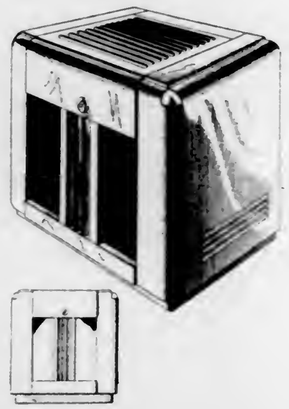
2,317,968
COMPRESSION IGNITION MOTOR FUEL
Thomas H. Schultz, Richmond, and Irving E. Levine and Homer B. Wellman, Berkeley, Calif., assignors to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware
No Drawing. Application May 12, 1941, Serial No. 393,076
9 Claims. (Cl. 196—142)

1. A process of preparing an improved Diesel type motor fuel containing substantial proportions of chemically combined reactive oxygen, which chemically combined reactive oxygen is directly measurable in terms of oxygen factor of the said fuel, comprising subjecting a petroleum distillate relatively free from asphaltic and resinous materials and from large proportions of aromatic ring hydrocarbons and of higher than kerosene volatility to treatment in liquid phase with an oxygen-containing gas at a temperature 275–310° F. for a period of time sufficient to produce an oil having an oxygen factor of higher than about 800 but insufficient to increase the neutralization number of the oil by more than about 20, arresting the said treatment before the oxygen factor of the produced oil decreases to below about 800, and removing acidic reaction products without reducing the oxygen factor of the produced substantially acid-free oil to below about 800.

DESIGNS

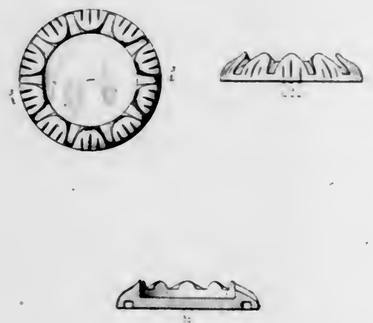
APRIL 27, 1943

135,554
DESIGN FOR A CIRCULATING HEATER
Edward J. Burke, Richmond, Va., assignor to Southern Stove Works, Inc., Richmond, Va.
Application September 24, 1942, Serial No. 108,323
Term of patent 7 years



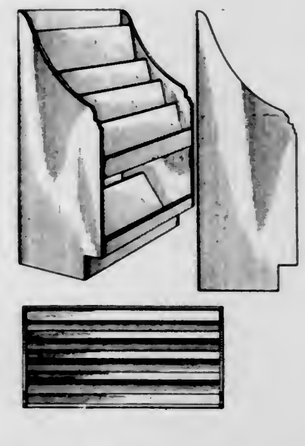
The ornamental design for a circulating heater, as shown and described.

135,555
DESIGN FOR A BUTTON
Charles H. Frank, New Rochelle, N. Y., assignor to Button Rim Corporation, New York, N. Y., a corporation of New York
Application March 12, 1943, Serial No. 109,745
Term of patent 3½ years



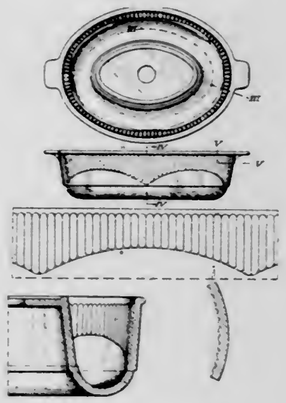
The ornamental design for a button, as shown.

135,556
DESIGN FOR A MAGAZINE RACK
William Gerald Gray, Harrisonville, Mo.
Application January 16, 1943, Serial No. 109,275
Term of patent 14 years



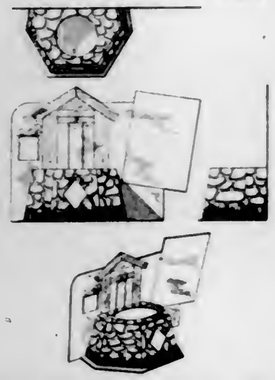
The ornamental design for a magazine rack, as shown.

135,557
DESIGN FOR A GLASS JELLY MOLD
Ben D. Levenson, Pittsburgh, Pa.
Application February 5, 1943, Serial No. 109,467
Term of patent 14 years



The ornamental design for a glass jelly mold, as shown and described.

135,558
DESIGN FOR A DISPLAY STAND
Daniel Marovich, Oakland, Calif., assignor to National Foundation for Infantile Paralysis, New York, N. Y.
Application March 20, 1942, Serial No. 106,268
Term of patent 3½ years



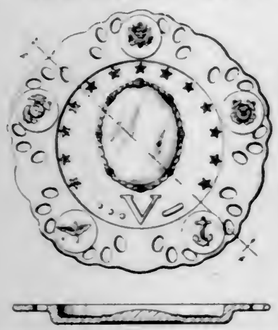
The ornamental design for a display stand, substantially as shown.

135,559
DESIGN FOR A CLOTH COVERED CONCAVE EYELET BUTTON
William Novick, Brooklyn, N. Y.
Application November 24, 1942, Serial No. 108,866
Term of patent 14 years



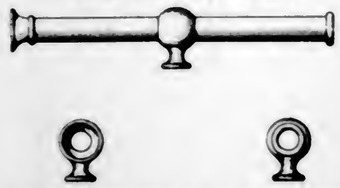
The ornamental design for a cloth covered concave eyelet button, as shown and described.

135,560
DESIGN FOR A COMBINED PICTURE FRAME AND SALAD PLATE
Samuel E. Parker, Dunkirk, Ind.
Application September 16, 1942, Serial No. 108,243
Term of patent 7 years



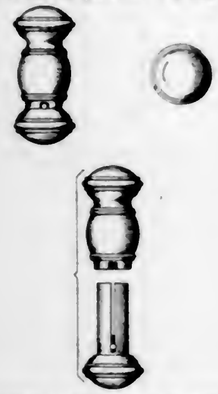
The ornamental design for a combined picture frame and salad plate, as shown.

135,561
DESIGN FOR A TELESCOPE OR THE LIKE
Meyer Rapaport, Chicago, Ill.
Application February 12, 1943, Serial No. 109,534
Term of patent 7 years



The ornamental design for a telescope or the like, as shown.

135,562
DESIGN FOR A LIPSTICK CONTAINER
Howard L. Ross, New York, N. Y.
Application March 1, 1943, Serial No. 109,640
Term of patent 7 years



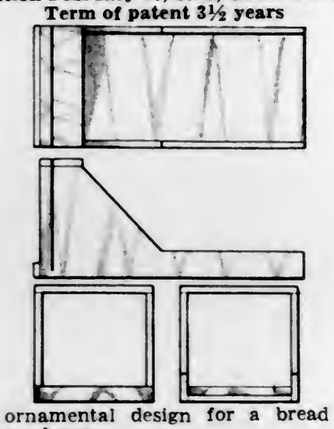
The ornamental design for a lipstick container, substantially as shown.

135,563
DESIGN FOR SUSPENDERS
Lester Raymond Ryan, Plymouth, Conn., assignor to Parva Products Company, Chicago, Ill., a corporation of Delaware
Application September 25, 1942, Serial No. 108,337
Term of patent 14 years



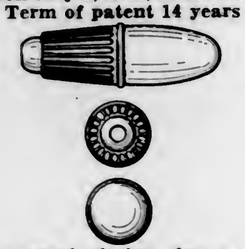
The ornamental design for suspenders, substantially as shown and described.

135,564
DESIGN FOR A BREAD SLICING BOARD
Sam F. Townsley, Memphis, Tenn.
Application February 17, 1943, Serial No. 109,560
Term of patent 3½ years



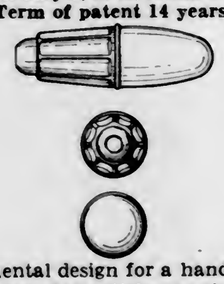
The ornamental design for a bread slicing board, as shown.

135,565
DESIGN FOR A HANDLE FOR KITCHEN UTENSILS OR SIMILAR ARTICLES
Myron J. Zimmer, Wood Dale, Ill., assignor to The Edward Katzinger Company, Chicago, Ill., a corporation of Illinois
Application July 5, 1941, Serial No. 101,924
Term of patent 14 years



The ornamental design for a handle for kitchen utensils or similar articles, as shown and described.

135,566
DESIGN FOR A HANDLE FOR KITCHEN UTENSILS OR SIMILAR ARTICLES
Myron J. Zimmer, Wood Dale, Ill., assignor to The Edward Katzinger Company, Chicago, Ill., a corporation of Illinois
Application July 5, 1941, Serial No. 101,925
Term of patent 14 years



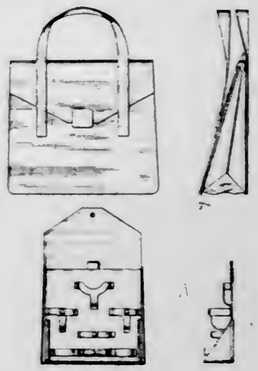
The ornamental design for a handle for kitchen utensils or similar articles, as shown and described.

135,567
DESIGN FOR AN ASH RECEPTACLE
Gladys Enid Joseph Alexander, Scarsdale, N. Y.
Application December 28, 1942, Serial No. 109,152
Term of patent 14 years



The ornamental design for an ash receptacle, as shown.

135,568
DESIGN FOR A COMBINED HANDBAG AND COSMETIC HOLDER
Arthur R. Botham, New York, N. Y., assignor to Coty, Inc., Wilmington, Del., a corporation of Delaware
Application January 28, 1942, Serial No. 105,466
Term of patent 14 years



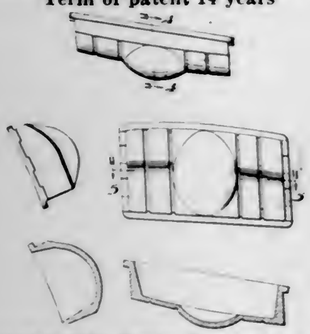
The ornamental design for a combined handbag and cosmetic holder as shown and described.

135,569
DESIGN FOR A COMBINED BOTTLE AND STOPPER
John D. Buckingham, Chicago, Ill., assignor to Lucien Lelong, Inc., Chicago, Ill., a corporation of Illinois
Application January 26, 1942, Serial No. 105,437
Term of patent 14 years



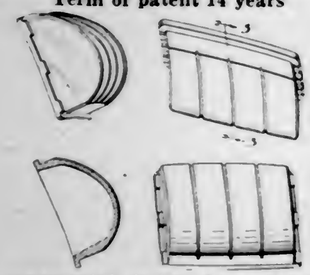
The ornamental design for a combined bottle and stopper, as shown and described.

135,570
DESIGN FOR A LAMP LENS
Robert Cadwallader, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application February 18, 1942, Serial No. 105,870
Term of patent 14 years



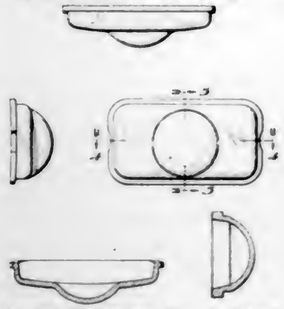
The ornamental design for a lamp lens, as shown.

135,571
DESIGN FOL A LAMP LENS
Robert Cadwallader, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application February 18, 1942, Serial No. 105,872
Term of patent 14 years



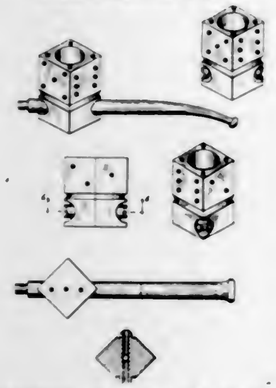
The ornamental design for a lamp lens, as shown.

135,572
DESIGN FOR A LAMP LENS
Robert Cadwallader, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application February 18, 1942, Serial No. 105,873
Term of patent 14 years



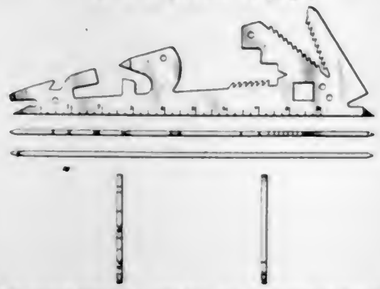
The ornamental design for a lamp lens, as shown.

135,573
DESIGN FOR A TOBACCO PIPE
Gedeon R. Comptois, New York, N. Y.
Application August 6, 1942, Serial No. 107,832
Term of patent 7 years



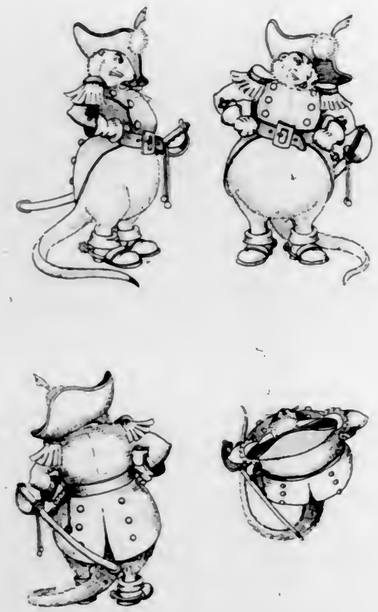
The ornamental design for a tobacco pipe, as shown.

135,574
DESIGN FOR A COMBINATION TOOL
Jacob Feldbin, Coxsackie, N. Y.
Application February 24, 1943, Serial No. 109,618
Term of patent 14 years



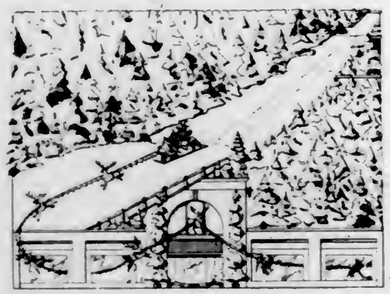
The ornamental design for a combination tool, as shown.

135,575
DESIGN FOR A TOY FIGURE
Isaac D. Gindhart, Jr., Hartford, N. J., assignor to Mary W. Gindhart, Hartford, N. J.
Application October 22, 1942, Serial No. 108,595
Term of patent 14 years

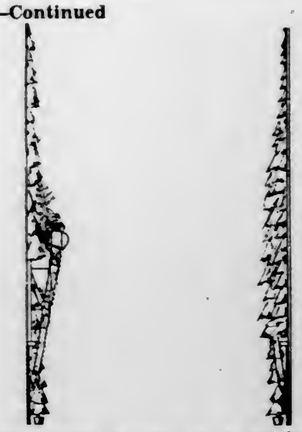


The ornamental design for a toy figure, as shown.

135,576
DESIGN FOR A BUILDING FACADE OR SIMILAR ARTICLE
James Gosling, Jr., New York, N. Y., assignor to Franklin Simon & Co., Inc., New York, N. Y., a corporation of New York
Application August 7, 1942, Serial No. 107,844
Term of patent 7 years

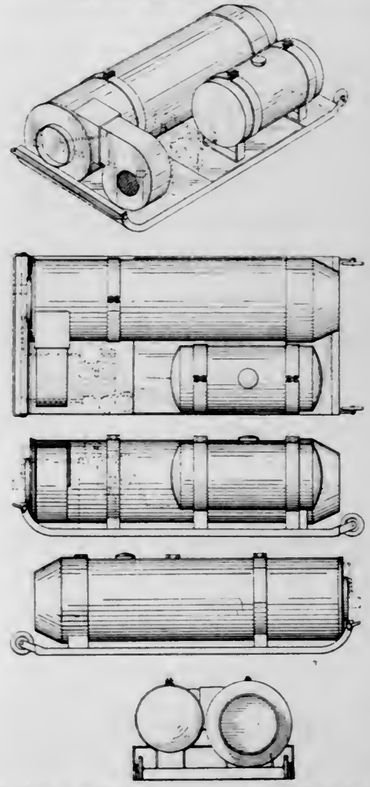


135,576—Continued



The ornamental design for a building facade or similar article, as shown.

135,577
DESIGN FOR A PORTABLE HEATING UNIT
Harry B. Holthouse, Chicago, Ill., assignor to Galvin Manufacturing Corporation, Chicago, Ill., a corporation of Illinois
Application September 22, 1942, Serial No. 108,314
Term of patent 14 years



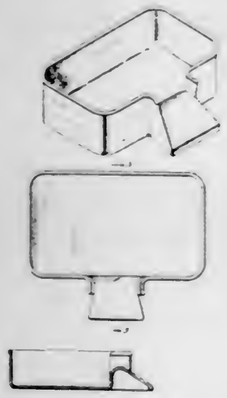
The ornamental design for a portable heating unit, substantially as shown and described.

135,578
DESIGN FOR A PLASTIC BONDING STRIP FOR FABRIC COVERED STRUCTURES
Charles F. Marschner, St. Louis, Mo., assignor to McDonnell Aircraft Corporation, St. Louis, Mo., a corporation of Maryland
Application December 31, 1942, Serial No. 109,169
Term of patent 14 years



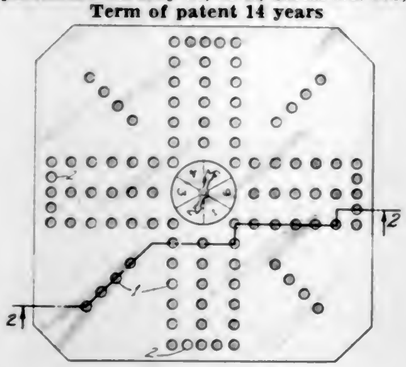
The ornamental design for a plastic bonding strip for fabric covered structures, as shown.

135,579
DESIGN FOR A HEAD WASHING BASIN OR SIMILAR ARTICLE
Martin Pientkewic, Vulcan, Mich.
Application November 5, 1942, Serial No. 108,707
Term of patent 3½ years



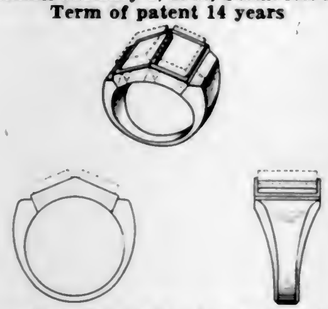
The ornamental design for a head washing basin or similar article, as shown.

135,580
DESIGN FOR A GAME BOARD
Oscar T. Querness, Los Angeles, Calif.
Application February 16, 1943, Serial No. 109,556
Term of patent 14 years



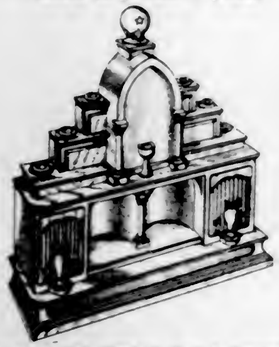
The ornamental design for a game board, substantially as shown and described.

135,581
DESIGN FOR A RING
Albert H. Sauer, Jr., Cincinnati, Ohio
Application January 1, 1942, Serial No. 104,965
Term of patent 14 years



The ornamental design for a ring, substantially as shown.

135,582
DESIGN FOR A HOME SHRINE OR THE LIKE
Meyer Schechter, Chicago, Ill.
Application February 23, 1943, Serial No. 109,614
Term of patent 7 years



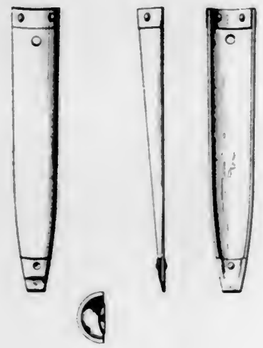
The ornamental design for a home shrine or the like, as shown.

135,583
DESIGN FOR A STATUETTE OR SIMILAR ARTICLE
Vernon H. Tabor, Cincinnati, Ohio
Application August 19, 1942, Serial No. 107,966
Term of patent 7 years



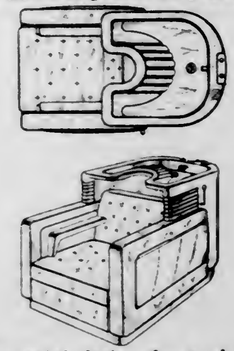
The ornamental design for a statuette or similar article, as shown.

135,584
DESIGN FOR A TENT STAKE
Donald A. Wallance, Washington, D. C.
Application March 1, 1943, Serial No. 109,639
Term of patent 3½ years



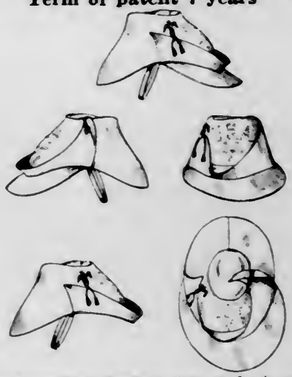
The ornamental design for a tent stake, as shown.

135,585
DESIGN FOR A SHAMPOO CHAIR
Flora H. Ellinger, Chicago, Ill.
Application December 19, 1942, Serial No. 109,071
Term of patent 14 years



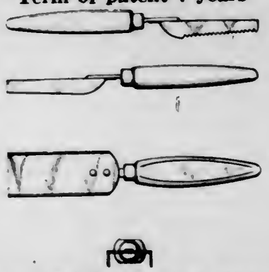
The ornamental design for a shampoo chair substantially as shown.

135,586
DESIGN FOR A HAT OR SIMILAR ARTICLE
Meta Merkent, New York, N. Y.
Application April 30, 1942, Serial No. 106,754
Term of patent 7 years



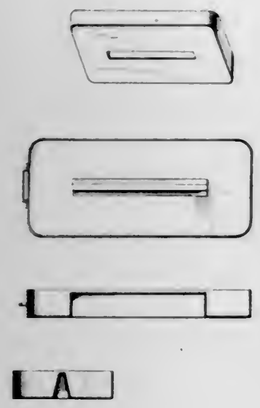
The ornamental design for a hat or similar article, as shown.

135,587
DESIGN FOR A CORN SCRAPER OR SIMILAR ARTICLE
Sylvester Thomas Mizelle, Jr., Oakland, Maine
Application February 4, 1943, Serial No. 109,458
Term of patent 7 years



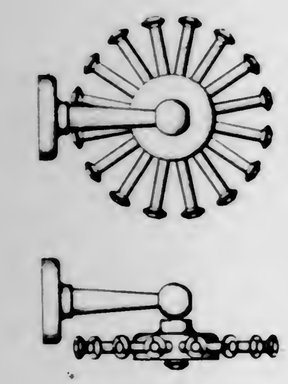
The ornamental design for a corn scraper or similar article, as shown.

135,588
DESIGN FOR A RATION CONTAINER
Nicholas T. Naranick, United States Army, Casper, Wyo.
Application October 2, 1942, Serial No. 108,396
Term of patent 3½ years



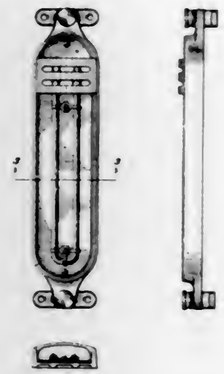
The ornamental design for a ration container, as shown.

135,589
DESIGN FOR A TIE RACK
William Grant Williams, Anaheim, Calif.
Application August 13, 1942, Serial No. 107,920
Term of patent 7 years



The ornamental design for a tie rack, as shown.

135,590
DESIGN FOR A THERMOMETER
H. Brainard Brown, Rochester, N. Y., assignor to Taylor Instrument Companies, Rochester, N. Y., a corporation of New York
Application February 22, 1943, Serial No. 109,603
Term of patent 14 years



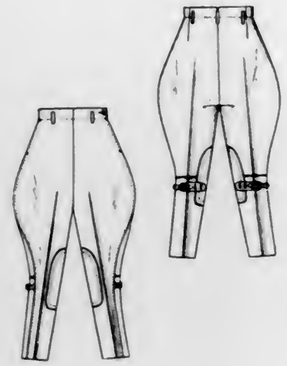
The ornamental design for a thermometer, as shown.

135,591
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application April 5, 1943, Serial No. 109,903
Term of patent 3½ years



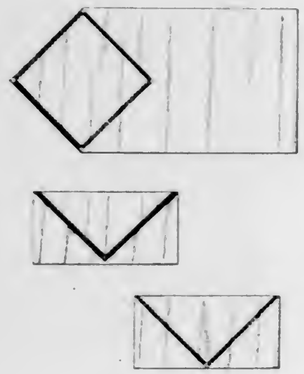
The ornamental design for a dress, substantially as shown.

135,592
DESIGN FOR JODHPURS
Bernard Cohen, New York, N. Y.
Application January 26, 1943, Serial No. 109,374
Term of patent 14 years



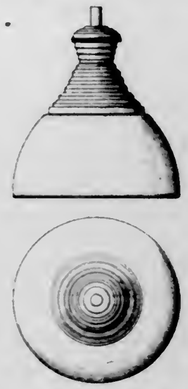
The ornamental design for jodhpurs, substantially as shown and described.

135,593
DESIGN FOR A COMBINATION ENVELOPE AND WRITING PAPER OR SIMILAR ARTICLE
Charles C. Dill, Sundown, Tex., assignor of one-fourth to Arthur R. Buzzard and one-fourth to Martelle Buzzard, both of Levelland, Tex.
Application February 5, 1943, Serial No. 109,464
Term of patent 3½ years



The ornamental design for a combination envelope and writing paper, or similar article, as shown.

135,594
DESIGN FOR A TABLE LIGHTER FOR CIGARETTES OR THE LIKE
Irving Florman, New York, N. Y.
Application March 3, 1943, Serial No. 109,650
Term of patent 14 years



The ornamental design for a table lighter for cigarettes or the like, substantially as shown.

135,595
DESIGN FOR A CERAMIC BROOCH PIN
Elliot Handler, Los Angeles, Calif.
Application March 29, 1943, Serial No. 109,835
Term of patent 3½ years



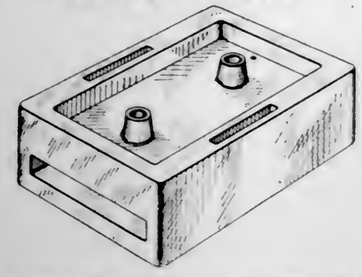
The ornamental design for a ceramic brooch pin, substantially as shown.

135,596
DESIGN FOR A CERAMIC BROOCH PIN
Elliot Handler, Los Angeles, Calif.
Application March 29, 1943, Serial No. 109,841
Term of patent 3½ years



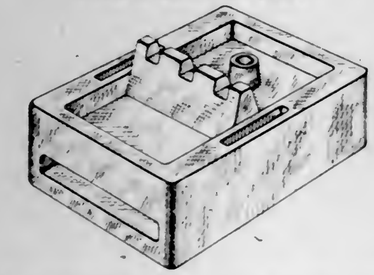
The ornamental design for a ceramic brooch pin, substantially as shown.

135,597
DESIGN FOR AN ASH TRAY
George R. Penn, Danville, Va.
Application February 25, 1943, Serial No. 109,627
Term of patent 14 years



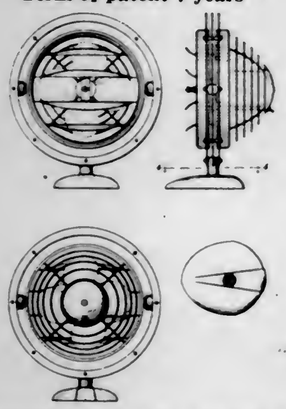
The ornamental design for an ash tray, as shown.

135,598
DESIGN FOR AN ASH TRAY
George R. Penn, Danville, Va.
Application February 25, 1943, Serial No. 109,628
Term of patent 14 years



The ornamental design for an ash tray, as shown.

135,599
DESIGN FOR AN ELECTRIC FAN
Walter A. Spear, Cincinnati, Ohio, assignor to Victor Electric Products, Inc., Cincinnati, Ohio, a corporation of Ohio
Application October 21, 1941, Serial No. 103,837
Term of patent 7 years



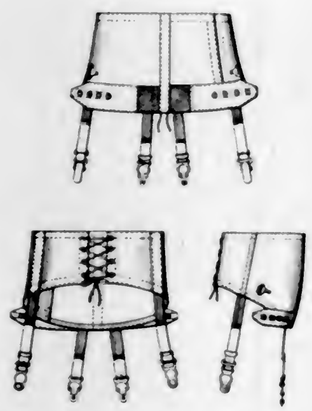
The ornamental design for an electric fan, as shown and described.

135,600
DESIGN FOR A PAIR OF OPHTHALMIC SPECTACLES
Harry Stolper, New York, N. Y.
Application August 25, 1942, Serial No. 108,028
Term of patent 7 years



The ornamental design for a pair of ophthalmic spectacles, as shown.

135,601
DESIGN FOR A MATERNITY AND ABDOMINAL SUPPORTING GARTER BELT
Olga Erteszek, Los Angeles, Calif.
Application October 21, 1942, Serial No. 108,588
Term of patent 7 years



The ornamental design for a maternity and abdominal supporting garter belt, as shown.

Official Gazette

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